TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. - GUTTERSEN STATE DD17-79-1HN

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude[1]	Longitude	PDOP

DATE:	3/08/2024
DESIGNED BY:	JW
DRAWN BY:	HM

TASMAN GEOSCIENCES

Tasman Geosciences, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Guttersen State DD17-79-1HN
SWSW, Section 17, Township 3 North, Range 63 West
Weld County, Colorado

Tank Battery Closure & Soil Analytical Results Map
(02/06/2024 & 02/07/2024)

FIGURE
2

TANK BATTERY DECOMMISSIONING

Photographic Log

Equipment ID: SS10@2.5'	**Equipment Type:** Partially Buried Vault	
Material: Concrete	**Volume:**	**Contents:** Produced Water
Notes/Conditions: West facing		

Equipment ID: AST06@0.5'	**Equipment Type:** Above Ground Storage Tank	
Material: Fiberglass	**Volume:**	**Contents:** Crude Oil
Notes/Conditions: North facing		

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 11, 2024

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

RE: Noble - Guttersen State DD17-79-1HN

Work Order #2402113

Enclosed are the results of analyses for samples received by Summit Scientific on 02/06/24 17:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mikayla Axtell For Paul Shrewsbury
President

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@0.5'	2402113-01	Soil	02/06/24 09:52	02/06/24 17:41
BKG01@3'	2402113-02	Soil	02/06/24 09:53	02/06/24 17:41
BKG01@4'	2402113-03	Soil	02/06/24 09:54	02/06/24 17:41
BKG01@5'	2402113-04	Soil	02/06/24 09:55	02/06/24 17:41
SS04@2.5'	2402113-08	Soil	02/06/24 10:20	02/06/24 17:41
FS01@5'	2402113-11	Soil	02/06/24 10:35	02/06/24 17:41
FS02@5'	2402113-12	Soil	02/06/24 10:40	02/06/24 17:41
SS10@2.5'	2402113-16	Soil	02/06/24 13:50	02/06/24 17:41
FS03@5'	2402113-17	Soil	02/06/24 13:55	02/06/24 17:41

Case Narrative

Hunter Merlo canceled the organic analysis for the four BKG01 samples on 3/8/2024.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 2
2402113-1	

	Send Data To:	Send Invoice To:
Client: Noble / Tasman , Inc.	Project Manager: Jake Whritenour	Company: Chevron
Address: 6855 W. 119th Ave.	E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location: Guttersen State DD17-79-1HN
City/State/Zip: Broomfield / CO/ 80020		AFE#: UWRMU-A3007-ABN
Phone: 970 - 402 - 0946	Project Name: Guttersen State DD17-79-1HN	PO/Billing Codes:
Sampler Name: Patrick Kline	Project Number: N/A	Contact: Miguel Barron

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative: HCl	HNO3	None	Other ___	Matrix: Water	Soil	Air-Canister #	Other ___	Analysis Requested: Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		Special Instructions: SAR, EC, pH by saturated paste
1	BK601@0.5'	2/6/24	0952	3			3			X			X	X	X	X	X	X			
2	BK601@3'		0953																		
3	BK601@4'		0954																		
4	BK601@5'		0955																		
5	SS01@2.5'		1005																X		
6	SS02@2.5'		1010																		
7	SS03@2.5'		1015																		
8	SS04@2.5'		1020										X	X	X	X	X	X			
9	SS05@2.5'		1025																X		
10	SS06@2.5'		1030																X		
11	FS01@5'		1035										X	X	X	X	X	X			
12	FS02@5'		1040										X	X	X	X	X	X			
13	SS07@2.5'		1335																X		
14	SS08@2.5'		1340																		
15	SS09@2.5'		1345																		

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days		Field DO	
[signature]	2/6/24 1700	Tasman Lockbox	2/6/24 1700	Same Day		Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 2/6/24 1741	Received by: [signature]	Date/Time: 2/6/24 1741	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: 8.7 | Corrected Temperature: 8.7 RCM | IR gun #: 8 | HNO3 lot #:

Notes:

SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2402113-2	

	Send Data To:	Send Invoice To:
Client: Noble / Tasman , Inc.	Project Manager: Jake Whritenour	Company: Chevron
Address: 6855 W. 119th Ave.	E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location: Guttersen State DD17-79-1HN
City/State/Zip: Broomfield / CO/ 80020		AFE#: UWRMU-A3007-ABN
Phone: 970 - 402 - 0946	Project Name: Guttersen State DD17-79-1HN	PO/Billing Codes:
Sampler Name: Patrick Kline	Project Number: N/A	Contact: Miguel Barron

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		SAR, EC, pH by saturated paste
1	SS10E2.5'	2/6/24	1350	3			3			X			X	X	X	X	X	X			
2	FS03E5'	2/6/24	1355	3			3			X			X	X	X	X	X	X			
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: [signature]	Date/Time: 2/6/24 1700	Received by: Tasman Lockbox	Date/Time: 2/6/24 1700	TAT Business Days	Field DO
Relinquished by: Tasman Lockbox	Date/Time: 2/6/24 1741	Received by: [signature]	Date/Time: 2/6/24 1741	Same Day	Field EC
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP
				2 Days	Field pH
				3 Days	Field Temp.
				Standard X	Field Turb.

Notes:

Temperature Upon Receipt: 8.7 | Corrected Temperature: C | IR gun #: 1 | HNO3 lot #:

S2

2/2

Sample Receipt Checklist

S2 Work Order# 2402113

Client: Nobel Tasman Client Project ID: Guttersen State DDT-79-1HN

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

[ ] [-] [ ] [ ] [ ]

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

Temp (°C) 8.7 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) **NOTE:** If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	–			ON ICE
If custody seals are present, are they intact? (1)	–			
Are samples due within 48 hours present?		–		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+}, Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		–		
Is a chain-of-custody (COC) form present and filled out Completely? (1)	–			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	–			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (1)	✓			
Does the COC agree with the number and type of sample bottles received? (1)	✓			
Do the sample IDs on the bottle labels match the COC? (1)	✓			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

AS

Custodian Printed Name

2/6/24

Date/Time

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

BKG01@0.5'

2402113-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/06/24 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0598	02/19/24	02/21/24	EPA 6020B	

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

Date Sampled: **02/06/24 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**169**	0.0500	mg/L dry	1	BHB0330	02/09/24	02/13/24	EPA 6020B	
Magnesium	**11.8**	0.0500	"	"	"	"	"	"	
Sodium	**0.391**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/06/24 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.00784**	0.00100	units	1	BHB0510	02/15/24	02/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/06/24 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**94.4**		%	1	BHB0405	02/13/24	02/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/06/24 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.0422**	0.0100	mmhos/cm	1	BHB0374	02/12/24	02/13/24	EPA 120.1	

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

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.

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

BKG01@0.5'

2402113-01 (Soil)

Summit Scientific

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

Date Sampled: **02/06/24 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.24**		pH Units	1	BHB0373	02/12/24	02/13/24	EPA 9045D	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

BKG01@3'

2402113-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/06/24 09:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0598	02/19/24	02/21/24	EPA 6020B	

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

Date Sampled: **02/06/24 09:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**128**	0.0500	mg/L dry	1	BHB0330	02/09/24	02/13/24	EPA 6020B	
Magnesium	**15.1**	0.0500	"	"	"	"	"	"	
Sodium	**0.644**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/06/24 09:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.0143**	0.00100	units	1	BHB0510	02/15/24	02/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/06/24 09:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**96.2**		%	1	BHB0405	02/13/24	02/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/06/24 09:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.0722**	0.0100	mmhos/cm	1	BHB0374	02/12/24	02/13/24	EPA 120.1	

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

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

BKG01@3'

2402113-02 (Soil)

Summit Scientific

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

Date Sampled: **02/06/24 09:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**6.12**		pH Units	1	BHB0373	02/12/24	02/13/24	EPA 9045D	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

BKG01@4'

2402113-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/06/24 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0598	02/19/24	02/21/24	EPA 6020B	

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

Date Sampled: **02/06/24 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**169**	0.0500	mg/L dry	1	BHB0330	02/09/24	02/13/24	EPA 6020B	
Magnesium	**22.5**	0.0500	"	"	"	"	"	"	
Sodium	**0.713**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/06/24 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.0137**	0.00100	units	1	BHB0510	02/15/24	02/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/06/24 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**95.4**		%	1	BHB0405	02/13/24	02/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/06/24 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.926**	0.0100	mmhos/cm	1	BHB0374	02/12/24	02/13/24	EPA 120.1	

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

Summit Scientific

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

BKG01@4'

2402113-03 (Soil)

Summit Scientific

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

Date Sampled: **02/06/24 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**6.65**		pH Units	1	BHB0373	02/12/24	02/13/24	EPA 9045D	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

BKG01@5'

2402113-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/06/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0598	02/19/24	02/21/24	EPA 6020B	

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

Date Sampled: **02/06/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**202**	0.0500	mg/L dry	1	BHB0330	02/09/24	02/13/24	EPA 6020B	
Magnesium	**34.8**	0.0500	"	"	"	"	"	"	
Sodium	**0.795**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/06/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.0136**	0.00100	units	1	BHB0510	02/15/24	02/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/06/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**95.1**		%	1	BHB0405	02/13/24	02/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/06/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.06**	0.0100	mmhos/cm	1	BHB0374	02/12/24	02/13/24	EPA 120.1	

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

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.

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

BKG01@5'

2402113-04 (Soil)

Summit Scientific

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

Date Sampled: **02/06/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.25**		pH Units	1	BHB0373	02/12/24	02/13/24	EPA 9045D	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

SS04@2.5'
2402113-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0282	02/08/24	02/10/24	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: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0431	*108 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0400	*100 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	*96.8 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0285	02/08/24	02/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.7	*85.5 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

SS04@2.5'

2402113-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0263	02/08/24	02/09/24	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: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0191	*57.4 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	*54.6 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0598	02/19/24	02/21/24	EPA 6020B	

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

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

SS04@2.5'

2402113-08 (Soil)

Summit Scientific

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

Calcium	**92.3**	0.0500	mg/L dry	1	BHB0330	02/09/24	02/13/24	EPA 6020B
Magnesium	**19.1**	0.0500	"	"	"	"	"	"
Sodium	**14.9**	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.369**	0.00100	units	1	BHB0510	02/15/24	02/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93.9**		%	1	BHB0405	02/13/24	02/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.313**	0.0100	mmhos/cm	1	BHB0374	02/12/24	02/13/24	EPA 120.1	

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

Date Sampled: **02/06/24 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.05**		pH Units	1	BHB0373	02/12/24	02/13/24	EPA 9045D	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

FS01@5'

2402113-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0282	02/08/24	02/10/24	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: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0433	*108 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0396	*99.0 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	*96.9 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0285	02/08/24	02/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	*95.6 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

FS01@5'

2402113-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0265	02/08/24	02/08/24	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: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0171	*51.2 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0261	*78.2 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0598	02/19/24	02/21/24	EPA 6020B	

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

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

FS01@5'

2402113-11 (Soil)

Summit Scientific

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

Calcium	**107**	0.0500	mg/L dry	1	BHB0330	02/09/24	02/13/24	EPA 6020B
Magnesium	**22.8**	0.0500	"	"	"	"	"	"
Sodium	**19.6**	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.449**	0.00100	units	1	BHB0510	02/15/24	02/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**94.8**		%	1	BHB0405	02/13/24	02/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.36**	0.0100	mmhos/cm	1	BHB0374	02/12/24	02/13/24	EPA 120.1	

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

Date Sampled: **02/06/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.68**		pH Units	1	BHB0373	02/12/24	02/13/24	EPA 9045D	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

FS02@5'

2402113-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0282	02/08/24	02/10/24	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: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0420	*105 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0400	*100 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	*98.0 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0285	02/08/24	02/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.9	*94.9 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

FS02@5'

2402113-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0265	02/08/24	02/08/24	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: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	*46.5 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	*61.4 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0598	02/19/24	02/21/24	EPA 6020B	

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

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

FS02@5'

2402113-12 (Soil)

Summit Scientific

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

Calcium	**45.3**	0.0500	mg/L dry	1	BHB0330	02/09/24	02/13/24	EPA 6020B
Magnesium	**4.62**	0.0500	"	"	"	"	"	"
Sodium	**4.43**	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.168**	0.00100	units	1	BHB0510	02/15/24	02/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**94.1**		%	1	BHB0405	02/13/24	02/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.415**	0.0100	mmhos/cm	1	BHB0374	02/12/24	02/13/24	EPA 120.1	

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

Date Sampled: **02/06/24 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.17**		pH Units	1	BHB0373	02/12/24	02/13/24	EPA 9045D	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

SS10@2.5'

2402113-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0282	02/08/24	02/10/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.038**	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**0.017**	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**0.015**	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0412	*103 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0393	*98.2 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	*97.1 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0285	02/08/24	02/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	*83.8 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

SS10@2.5'

2402113-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0265	02/08/24	02/08/24	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	**0.00946**	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	**0.0172**	0.00500	"	"	"	"	"	"	

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	*46.6 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	*65.7 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0598	02/19/24	02/21/24	EPA 6020B	

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

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

SS10@2.5'

2402113-16 (Soil)

Summit Scientific

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

Calcium	**157**	0.0500	mg/L dry	1	BHB0330	02/09/24	02/13/24	EPA 6020B
Magnesium	**24.2**	0.0500	"	"	"	"	"	"
Sodium	**14.3**	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.281**	0.00100	units	1	BHB0510	02/15/24	02/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93.4**		%	1	BHB0405	02/13/24	02/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.842**	0.0100	mmhos/cm	1	BHB0374	02/12/24	02/13/24	EPA 120.1	

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

Date Sampled: **02/06/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.19**		pH Units	1	BHB0373	02/12/24	02/13/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

FS03@5'

2402113-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0282	02/08/24	02/10/24	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: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0427	*107 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0400	*100 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	*95.9 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0285	02/08/24	02/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	*96.3 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

FS03@5'

2402113-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0265	02/08/24	02/08/24	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	**0.00538**	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	**0.0109**	0.00500	"	"	"	"	"	"	

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0162	*48.6 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	*57.6 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0598	02/19/24	02/21/24	EPA 6020B	

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

Date Sampled: **02/06/24 13:55**

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: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

FS03@5'

2402113-17 (Soil)

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

Calcium	**59.4**	0.0500	mg/L dry	1	BHB0330	02/09/24	02/13/24	EPA 6020B
Magnesium	**8.45**	0.0500	"	"	"	"	"	"
Sodium	**6.40**	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.206**	0.00100	units	1	BHB0510	02/15/24	02/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88.4**		%	1	BHB0405	02/13/24	02/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.405**	0.0100	mmhos/cm	1	BHB0374	02/12/24	02/13/24	EPA 120.1	

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

Date Sampled: **02/06/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.34**		pH Units	1	BHB0373	02/12/24	02/13/24	EPA 9045D	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0282 - EPA 5030 Soil MS										
Blank (BHB0282-BLK1)				Prepared: 02/08/24 Analyzed: 02/09/24						
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	*0.0403*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: Toluene-d8	*0.0389*		*"*	*0.0400*		*97.3*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0394*		*"*	*0.0400*		*98.6*	*50-150*			
LCS (BHB0282-BS1)				Prepared: 02/08/24 Analyzed: 02/09/24						
Benzene	0.150	0.0020	mg/kg	0.150		100	70-130			
Toluene	0.148	0.0050	"	0.150		98.7	70-130			
Ethylbenzene	0.145	0.0050	"	0.150		96.5	70-130			
m,p-Xylene	0.286	0.010	"	0.300		95.4	70-130			
o-Xylene	0.141	0.0050	"	0.150		94.0	70-130			
1,2,4-Trimethylbenzene	0.136	0.0050	"	0.150		90.6	70-130			
1,3,5-Trimethylbenzene	0.132	0.0050	"	0.150		88.0	70-130			
Naphthalene	0.150	0.0038	"	0.150		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0424*		*"*	*0.0400*		*106*	*50-150*			
Surrogate: Toluene-d8	*0.0395*		*"*	*0.0400*		*98.8*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0384*		*"*	*0.0400*		*96.0*	*50-150*			
Matrix Spike (BHB0282-MS1)		**Source: 2402113-01**		Prepared: 02/08/24 Analyzed: 02/10/24						
Benzene	0.147	0.0020	mg/kg	0.150	ND	97.7	70-130			
Toluene	0.144	0.0050	"	0.150	ND	95.9	70-130			
Ethylbenzene	0.137	0.0050	"	0.150	ND	91.1	70-130			
m,p-Xylene	0.268	0.010	"	0.300	ND	89.3	70-130			
o-Xylene	0.133	0.0050	"	0.150	ND	88.4	70-130			
1,2,4-Trimethylbenzene	0.120	0.0050	"	0.150	ND	79.7	70-130			
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.150	ND	78.9	70-130			
Naphthalene	0.122	0.0038	"	0.150	ND	81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0424*		*"*	*0.0400*		*106*	*50-150*			
Surrogate: Toluene-d8	*0.0398*		*"*	*0.0400*		*99.6*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0382*		*"*	*0.0400*		*95.5*	*50-150*			

Summit Scientific

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0282 - EPA 5030 Soil MS										
Matrix Spike Dup (BHB0282-MSD1)		**Source: 2402113-01**		Prepared: 02/08/24 Analyzed: 02/10/24						
Benzene	0.147	0.0020	mg/kg	0.150	ND	97.8	70-130	0.102	30	
Toluene	0.146	0.0050	"	0.150	ND	97.4	70-130	1.49	30	
Ethylbenzene	0.136	0.0050	"	0.150	ND	90.7	70-130	0.352	30	
m,p-Xylene	0.271	0.010	"	0.300	ND	90.4	70-130	1.20	30	
o-Xylene	0.136	0.0050	"	0.150	ND	90.5	70-130	2.33	30	
1,2,4-Trimethylbenzene	0.124	0.0050	"	0.150	ND	82.4	70-130	3.28	30	
1,3,5-Trimethylbenzene	0.123	0.0050	"	0.150	ND	82.2	70-130	4.10	30	
Naphthalene	0.121	0.0038	"	0.150	ND	80.7	70-130	0.421	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0430*		*"*	*0.0400*		*107*	*50-150*			
Surrogate: Toluene-d8	*0.0404*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0396*		*"*	*0.0400*		*99.0*	*50-150*			

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0285 - EPA 3550A										
Blank (BHB0285-BLK1)				Prepared & Analyzed: 02/08/24						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*18.6*		*"*	*12.5*		*149*	*30-150*			
LCS (BHB0285-BS1)				Prepared & Analyzed: 02/08/24						
C10-C28 (DRO)	571	50	mg/kg	500		114	70-130			
Surrogate: o-Terphenyl	*14.1*		*"*	*12.5*		*113*	*30-150*			
Matrix Spike (BHB0285-MS1)		**Source: 2402113-01**		Prepared & Analyzed: 02/08/24						
C10-C28 (DRO)	429	50	mg/kg	500	20.3	81.6	70-130			
Surrogate: o-Terphenyl	*9.74*		*"*	*12.5*		*77.9*	*30-150*			
Matrix Spike Dup (BHB0285-MSD1)		**Source: 2402113-01**		Prepared & Analyzed: 02/08/24						
C10-C28 (DRO)	503	50	mg/kg	500	20.3	96.6	70-130	16.0	20	
Surrogate: o-Terphenyl	*12.0*		*"*	*12.5*		*96.0*	*30-150*			

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0263 - EPA 5030 Soil MS										
Blank (BHB0263-BLK1)				Prepared & Analyzed: 02/08/24						
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	*0.0369*		*"*	*0.0333*		*111*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0298*		*"*	*0.0333*		*89.3*	*40-150*			
LCS (BHB0263-BS1)				Prepared & Analyzed: 02/08/24						
Acenaphthene	0.0315	0.00500	mg/kg	0.0333		94.6	31-137			
Anthracene	0.0317	0.00500	"	0.0333		95.2	30-120			
Benzo (a) anthracene	0.0144	0.00500	"	0.0333		43.3	30-120			
Benzo (a) pyrene	0.0267	0.00500	"	0.0333		80.2	30-120			
Benzo (b) fluoranthene	0.0244	0.00500	"	0.0333		73.3	30-120			
Benzo (k) fluoranthene	0.0302	0.00500	"	0.0333		90.7	30-120			
Chrysene	0.0332	0.00500	"	0.0333		99.5	30-120			
Dibenz (a,h) anthracene	0.0272	0.00500	"	0.0333		81.5	30-120			
Fluoranthene	0.0310	0.00500	"	0.0333		93.1	30-120			
Fluorene	0.0309	0.00500	"	0.0333		92.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0280	0.00500	"	0.0333		84.1	30-120			
Pyrene	0.0362	0.00500	"	0.0333		108	35-142			
1-Methylnaphthalene	0.0409	0.00500	"	0.0333		123	35-142			
2-Methylnaphthalene	0.0307	0.00500	"	0.0333		92.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0363*		*"*	*0.0333*		*109*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0316*		*"*	*0.0333*		*94.7*	*40-150*			

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0263 - EPA 5030 Soil MS										
Matrix Spike (BHB0263-MS1)		**Source: 2402091-01**		Prepared & Analyzed: 02/08/24						
Acenaphthene	0.0167	0.00500	mg/kg	0.0333	ND	50.0	31-137			
Anthracene	0.0182	0.00500	"	0.0333	ND	54.5	30-120			
Benzo (a) anthracene	0.0152	0.00500	"	0.0333	ND	45.6	30-120			
Benzo (a) pyrene	0.0204	0.00500	"	0.0333	ND	61.2	30-120			
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.5	30-120			
Benzo (k) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.4	30-120			
Chrysene	0.0154	0.00500	"	0.0333	ND	46.3	30-120			
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.7	30-120			
Fluoranthene	0.0173	0.00500	"	0.0333	ND	51.9	30-120			
Fluorene	0.0175	0.00500	"	0.0333	ND	52.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0190	0.00500	"	0.0333	ND	57.1	30-120			
Pyrene	0.0192	0.00500	"	0.0333	ND	57.6	35-142			
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.8	15-130			
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0232*		*"*	*0.0333*		*69.6*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0179*		*"*	*0.0333*		*53.6*	*40-150*			
Matrix Spike Dup (BHB0263-MSD1)		**Source: 2402091-01**		Prepared & Analyzed: 02/08/24						
Acenaphthene	0.0153	0.00500	mg/kg	0.0333	ND	45.8	31-137	8.70	30	
Anthracene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	10.2	30	
Benzo (a) anthracene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	18.5	30	
Benzo (a) pyrene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	2.58	30	
Benzo (b) fluoranthene	0.0143	0.00500	"	0.0333	ND	42.9	30-120	3.66	30	
Benzo (k) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	0.624	30	
Chrysene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	3.45	30	
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	6.10	30	
Fluoranthene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	16.3	30	
Fluorene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	2.70	30	
Indeno (1,2,3-cd) pyrene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	9.57	30	
Pyrene	0.0199	0.00500	"	0.0333	ND	59.7	35-142	3.72	30	
1-Methylnaphthalene	0.0299	0.00500	"	0.0333	ND	89.6	15-130	24.8	50	
2-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	57.8	15-130	13.7	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0269*		*"*	*0.0333*		*80.6*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0151*		*"*	*0.0333*		*45.4*	*40-150*			

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0265 - EPA 5030 Soil MS										
Blank (BHB0265-BLK1)				Prepared & Analyzed: 02/08/24						
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	*0.0135*		*"*	*0.0333*		*40.5*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0301*		*"*	*0.0333*		*90.2*	*40-150*			
LCS (BHB0265-BS1)				Prepared & Analyzed: 02/08/24						
Acenaphthene	0.0221	0.00500	mg/kg	0.0333		66.3	31-137			
Anthracene	0.0251	0.00500	"	0.0333		75.3	30-120			
Benzo (a) anthracene	0.0222	0.00500	"	0.0333		66.6	30-120			
Benzo (a) pyrene	0.0214	0.00500	"	0.0333		64.3	30-120			
Benzo (b) fluoranthene	0.0211	0.00500	"	0.0333		63.3	30-120			
Benzo (k) fluoranthene	0.0240	0.00500	"	0.0333		71.9	30-120			
Chrysene	0.0268	0.00500	"	0.0333		80.3	30-120			
Dibenz (a,h) anthracene	0.0210	0.00500	"	0.0333		63.1	30-120			
Fluoranthene	0.0241	0.00500	"	0.0333		72.4	30-120			
Fluorene	0.0248	0.00500	"	0.0333		74.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0215	0.00500	"	0.0333		64.5	30-120			
Pyrene	0.0260	0.00500	"	0.0333		78.0	35-142			
1-Methylnaphthalene	0.0200	0.00500	"	0.0333		60.1	35-142			
2-Methylnaphthalene	0.0311	0.00500	"	0.0333		93.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0196*		*"*	*0.0333*		*58.8*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0244*		*"*	*0.0333*		*73.2*	*40-150*			

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0265 - EPA 5030 Soil MS										
Matrix Spike (BHB0265-MS1)		**Source: 2402113-11**		Prepared & Analyzed: 02/08/24						
Acenaphthene	0.0193	0.00500	mg/kg	0.0333	ND	58.0	31-137			
Anthracene	0.0228	0.00500	"	0.0333	ND	68.3	30-120			
Benzo (a) anthracene	0.0299	0.00500	"	0.0333	ND	89.6	30-120			
Benzo (a) pyrene	0.0259	0.00500	"	0.0333	ND	77.6	30-120			
Benzo (b) fluoranthene	0.0262	0.00500	"	0.0333	ND	78.5	30-120			
Benzo (k) fluoranthene	0.0213	0.00500	"	0.0333	ND	63.9	30-120			
Chrysene	0.0253	0.00500	"	0.0333	ND	75.8	30-120			
Dibenz (a,h) anthracene	0.0207	0.00500	"	0.0333	ND	62.2	30-120			
Fluoranthene	0.0199	0.00500	"	0.0333	ND	59.8	30-120			
Fluorene	0.0215	0.00500	"	0.0333	ND	64.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0241	0.00500	"	0.0333	ND	72.3	30-120			
Pyrene	0.0211	0.00500	"	0.0333	ND	63.4	35-142			
1-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.6	15-130			
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0173*		*"*	*0.0333*		*51.9*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0219*		*"*	*0.0333*		*65.7*	*40-150*			
Matrix Spike Dup (BHB0265-MSD1)		**Source: 2402113-11**		Prepared & Analyzed: 02/08/24						
Acenaphthene	0.0199	0.00500	mg/kg	0.0333	ND	59.7	31-137	2.82	30	
Anthracene	0.0222	0.00500	"	0.0333	ND	66.7	30-120	2.34	30	
Benzo (a) anthracene	0.0251	0.00500	"	0.0333	ND	75.3	30-120	17.3	30	
Benzo (a) pyrene	0.0209	0.00500	"	0.0333	ND	62.6	30-120	21.4	30	
Benzo (b) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	25.5	30	
Benzo (k) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	17.9	30	
Chrysene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	19.4	30	
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	23.7	30	
Fluoranthene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	3.83	30	
Fluorene	0.0220	0.00500	"	0.0333	ND	66.1	30-120	2.45	30	
Indeno (1,2,3-cd) pyrene	0.0196	0.00500	"	0.0333	ND	58.7	30-120	20.8	30	
Pyrene	0.0228	0.00500	"	0.0333	ND	68.3	35-142	7.31	30	
1-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.9	15-130	1.30	50	
2-Methylnaphthalene	0.0230	0.00500	"	0.0333	ND	68.9	15-130	0.668	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0163*		*"*	*0.0333*		*48.8*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0214*		*"*	*0.0333*		*64.3*	*40-150*			

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.

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0598 - EPA 3050B										
Blank (BHB0598-BLK1)				Prepared: 02/19/24 Analyzed: 02/21/24						
Boron	ND	2.00	mg/L							
LCS (BHB0598-BS1)				Prepared: 02/19/24 Analyzed: 02/21/24						
Boron	5.19	2.00	mg/L	5.00		104	80-120			
Duplicate (BHB0598-DUP1)		**Source: 2402113-01**		Prepared: 02/19/24 Analyzed: 02/21/24						
Boron	0.125	2.00	mg/L		0.126			0.517	20	
Matrix Spike (BHB0598-MS1)		**Source: 2402113-01**		Prepared: 02/19/24 Analyzed: 02/21/24						
Boron	5.16	2.00	mg/L	5.00	0.126	101	75-125			
Matrix Spike Dup (BHB0598-MSD1)		**Source: 2402113-01**		Prepared: 02/19/24 Analyzed: 02/21/24						
Boron	5.25	2.00	mg/L	5.00	0.126	102	75-125	1.73	25	

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0330 - General Preparation										
Blank (BHB0330-BLK1)				Prepared: 02/09/24 Analyzed: 02/13/24						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BHB0330-BS1)				Prepared: 02/09/24 Analyzed: 02/13/24						
Calcium	5.40	0.0500	mg/L wet	5.00		108	70-130			
Magnesium	5.33	0.0500	"	5.00		107	70-130			
Sodium	5.45	0.0500	"	5.00		109	70-130			

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0405 - General Preparation										
Duplicate (BHB0405-DUP1)		**Source: 2401494-02**		Prepared: 02/13/24 Analyzed: 02/14/24						
% Solids	97.6		%		97.8			0.202	20	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Guttersen State DD17-79-1HN Project Number: UWRMU-A3007-ABN Project Manager: Jacob Whritenour	**Reported:** 03/11/24 11:19

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0374 - General Preparation										
Blank (BHB0374-BLK1)				Prepared: 02/12/24 Analyzed: 02/13/24						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BHB0374-BS1)				Prepared: 02/12/24 Analyzed: 02/13/24						
Specific Conductance (EC)	0.155	0.0100	mmhos/cm	0.150		103	95-105			
Duplicate (BHB0374-DUP1)		**Source: 2402092-01**		Prepared: 02/12/24 Analyzed: 02/13/24						
Specific Conductance (EC)	0.898	0.0100	mmhos/cm		0.897			0.122	20	

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.

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0373 - General Preparation										
LCS (BHB0373-BS1)				Prepared: 02/12/24 Analyzed: 02/13/24						
pH	9.19		pH Units	9.18		100	95-105			
Duplicate (BHB0373-DUP1)		**Source: 2402092-01**		Prepared: 02/12/24 Analyzed: 02/13/24						
pH	8.67		pH Units		8.63			0.462	20	

Division of Environmental Testing
2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

March 08, 2024

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310
reports@s2scientific.com

Project Manager :	Mikayla Axtell
Project Name :	2402113
Project Number :	N/A

Attached are the analytical results for 2402113 N/A received by Elevation Diagnostics, Division of Environmental Testing on February 22, 2024. This is associated with Elevation's number AA05447 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Reichel
Laboratory Director
CSO,CCO

SUMMIT SCIENTIFIC

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

Lab ID	Page of

	Send Data To:	Send Invoice To:
Client: Summit Scientific	Project Manager: Mikayla Axtell	Company:
Address:	E-Mail: reports@s2scientific.com	Project Name/Location:
City/State/Zip:		AFE#:
Phone:	Project Name: 2402113	PO/Billing Codes:
Sampler Name:	Project Number:	Contact:

					Preservative				Matrix				Analysis Requested							Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ____	Water	Soil	Air-Canister #	Other ____	915 Metals							
1	BGK01@0.5'	2/6/2024	9:52	1						X			X							
2	BKG01@3'	2/6/2024	9:53	1						X			X							
3	BKG01@4'	2/6/2024	9:54	1						X			X							
4	BKG01@5'	2/6/2024	9:55	1						X			X							
5	SS04@2.5	2/6/2024	10:20	1						X			X							
6	FS01@5'	2/6/2024	10:35	1						X			X							
7	FS02@5'	2/6/2024	10:40	1						X			X							
8	SS10@2.5'	2/6/2024	13:50	1						X			X							
9	FS03@5'	2/6/2024	13:55	1						X			X							
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days		Field DO	Notes:
	22124			Same Day		Field EC	Temp: 23.8 C
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day		Field ORP	Corrected Temp: 25.8 C
				2 Days		Field pH	Thermometer: EDXEQ238
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days		Field Temp.	Sample Intact
				Standard	X	Field Turb.	pH Check: No

Temperature Upon Receipt: 10.0 | Corrected Temperature: 0 | IR gun #: 1 | HNO3 lot #: 2024-02-22-021

Sat 2.22.2024

Dentry error
Sat 2.22.2024

The results listed pertain only to the samples submitted to Elevation Diagnostics, Division of Environmental Testing as per the Chain of Custody attached. This report may only be duplicated in full.

Division of Environmental Testing
2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

FINAL RESULTS REPORT

Report Date : 3/8/2024
Report Time : 9:56

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA05447-1	BGK01@0.5' Collected : 02/06/2024 09:52						
		Total Metals, Soils - Copper 02/28/2024 00:00	10.00	5.735	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Barium 02/28/2024 00:00	10.00	25.325	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Nickel 02/28/2024 00:00	10.00	1.976	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Zinc 02/28/2024 00:00	10.00	8.334	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Arsenic 02/28/2024 00:00	10.00	1.253	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Selenium 02/28/2024 00:00	10.00	15.610	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Silver 02/28/2024 00:00	10.00	<0.250 - RL1	mg/kg	0.250	EPA 3050B
		Total Metals, Soils - Cadmium 02/28/2024 00:00	10.00	0.0406	mg/kg	0.001	EPA 3050B
		Total Metals, Soils - Lead 02/28/2024 00:00	10.00	4.423	mg/kg	0.025	EPA 3050B
		Chromium Vl, Soil 03/07/2024 14:39		0.111	mg/kg	0.080	EPA 3060A & EPA 7199
AA05448-1	BGK01@3' Collected : 02/06/2024 09:53						
		Total Metals, Soils - Zinc 02/27/2024 00:00	10.00	10.441	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Cadmium 02/27/2024 00:00	10.00	0.073	mg/kg	0.001	EPA 3050B

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Aurora, CO 80045
800-440-5184

FINAL RESULTS REPORT

Report Date : 3/8/2024
Report Time : 9:56

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		Total Metals, Soils - Silver 02/27/2024 00:00	10.00	<0.250 - RL1	mg/kg	0.250	EPA 3050B
		Total Metals, Soils - Selenium 02/27/2024 00:00	10.00	15.867	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Arsenic 02/27/2024 00:00	10.00	1.214	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Copper 02/27/2024 00:00	10.00	2.734	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Barium 02/27/2024 00:00	10.00	32.118	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Lead 02/27/2024 00:00	10.00	3.119	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Nickel 02/27/2024 00:00	10.00	1.801	mg/kg	0.025	EPA 3050B
		Chromium Vl, Soil 03/07/2024 14:39		0.115	mg/kg	0.080	EPA 3060A & EPA 7199
AA05449-1	BGK01@4' Collected : 02/06/2024 09:54						
		Total Metals, Soils - Copper 03/02/2024 01:58	10.00	1.781	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Lead 03/02/2024 01:58	10.00	2.084	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Cadmium 03/02/2024 01:58	10.00	0.030	mg/kg	0.001	EPA 3050B
		Total Metals, Soils - Arsenic 03/02/2024 01:58	10.00	1.198	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Nickel 03/02/2024 01:58	10.00	1.731	mg/kg	0.025	EPA 3050B

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REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		Total Metals, Soils - Barium 03/02/2024 01:58	10.00	23.754	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Selenium 03/02/2024 01:58	10.00	16.089	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Silver 03/02/2024 01:58	10.00	<0.250 - RL1	mg/kg	0.250	EPA 3050B
		Total Metals, Soils - Zinc 03/02/2024 01:58	10.00	9.414	mg/kg	0.025	EPA 3050B
		Chromium Vl, Soil 03/04/2024 12:30		0.100	mg/kg	0.080	EPA 3060A & EPA 7199
AA05450-1	BGK01@5' Collected : 02/06/2024 09:55						
		Total Metals, Soils - Cadmium 03/02/2024 01:51	10.00	0.034	mg/kg	0.001	EPA 3050B
		Total Metals, Soils - Zinc 03/02/2024 01:51	10.00	11.356	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Copper 03/02/2024 01:51	10.00	4.142	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Arsenic 03/02/2024 01:51	10.00	1.350	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Silver 03/02/2024 01:51	10.00	<0.250 - RL1	mg/kg	0.250	EPA 3050B
		Total Metals, Soils - Barium 03/02/2024 01:51	10.00	25.958	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Lead 03/02/2024 01:51	10.00	3.356	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Nickel 03/02/2024 01:51	10.00	2.042	mg/kg	0.025	EPA 3050B

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Report Date : 3/8/2024
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REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		Total Metals, Soils - Selenium 03/02/2024 01:51	10.00	17.857	mg/kg	0.025	EPA 3050B
		Chromium Vl, Soil 03/04/2024 12:30		0.097	mg/kg	0.080	EPA 3060A & EPA 7199
AA05451-1	SS04@2.5 Collected : 02/06/2024 10:20						
		Total Metals, Soils - Selenium 03/02/2024 03:06	10.00	19.694	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Nickel 03/02/2024 03:06	10.00	2.416	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Barium 03/02/2024 03:06	10.00	29.964	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Lead 03/02/2024 03:06	10.00	2.703	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Silver 03/02/2024 03:06	10.00	<0.250 - RL1	mg/kg	0.250	EPA 3050B
		Total Metals, Soils - Arsenic 03/02/2024 03:06	10.00	1.618	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Zinc 03/02/2024 03:06	10.00	22.204	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Copper 03/02/2024 03:06	10.00	2.500	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Cadmium 03/02/2024 03:06	10.00	0.042	mg/kg	0.001	EPA 3050B
		Chromium Vl, Soil 03/04/2024 12:30		0.089	mg/kg	0.080	EPA 3060A & EPA 7199
AA05452-1	FS01@5' Collected : 02/06/2024 10:35						

The results listed pertain only to the samples submitted to Elevation Diagnostics, Division of Environmental Testing as per the Chain of Custody attached. This report may only be duplicated in full.

Division of Environmental Testing
2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

FINAL RESULTS REPORT

Report Date : 3/8/2024
Report Time : 9:56

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		Total Metals, Soils - Barium 02/27/2024 00:00	10.00	35.687	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Zinc 02/27/2024 00:00	10.00	13.603	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Copper 02/27/2024 00:00	10.00	4.812	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Arsenic 02/27/2024 00:00	10.00	1.448	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Cadmium 02/27/2024 00:00	10.00	0.051	mg/kg	0.001	EPA 3050B
		Total Metals, Soils - Lead 02/27/2024 00:00	10.00	2.844	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Silver 02/27/2024 00:00	10.00	<0.250 - RL1	mg/kg	0.250	EPA 3050B
		Total Metals, Soils - Nickel 02/27/2024 00:00	10.00	2.664	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Selenium 02/27/2024 00:00	10.00	16.283	mg/kg	0.025	EPA 3050B
		Chromium Vl, Soil 03/07/2024 14:39		0.098	mg/kg	0.080	EPA 3060A & EPA 7199
AA05453-1	FS02@5' Collected : 02/06/2024 10:40						
		Total Metals, Soils - Zinc 03/02/2024 04:22	10.00	15.063	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Nickel 03/02/2024 04:22	10.00	2.306	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Arsenic 03/02/2024 04:22	10.00	1.462	mg/kg	0.025	EPA 3050B

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Division of Environmental Testing
2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

FINAL RESULTS REPORT

Report Date : 3/8/2024
Report Time : 9:56

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		Total Metals, Soils - Copper 03/02/2024 04:22	10.00	11.912	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Lead 03/02/2024 04:22	10.00	2.878	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Selenium 03/02/2024 04:22	10.00	19.168	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Silver 03/02/2024 04:22	10.00	<0.250 - RL1	mg/kg	0.250	EPA 3050B
		Total Metals, Soils - Cadmium 03/02/2024 04:22	10.00	0.039	mg/kg	0.001	EPA 3050B
		Total Metals, Soils - Barium 03/02/2024 04:22	10.00	38.059	mg/kg	0.025	EPA 3050B
		Chromium Vl, Soil 03/04/2024 12:30		0.095	mg/kg	0.080	EPA 3060A & EPA 7199
AA05454-1	SS10@2.5' Collected : 02/06/2024 13:50						
		Total Metals, Soils - Nickel 02/25/2024 00:00	10.00	0.663	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Barium 02/25/2024 00:00	10.00	31.896	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Copper 02/25/2024 00:00	10.00	0.863	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Zinc 02/25/2024 00:00	10.00	11.290	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Cadmium 02/25/2024 00:00	10.00	0.061	mg/kg	0.001	EPA 3050B
		Total Metals, Soils - Lead 02/25/2024 00:00	10.00	3.538	mg/kg	0.025	EPA 3050B

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Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		Total Metals, Soils - Silver 02/25/2024 00:00	10.00	<0.025	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Selenium 02/25/2024 00:00	10.00	15.242	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Arsenic 02/25/2024 00:00	10.00	0.425	mg/kg	0.025	EPA 3050B
		Chromium Vl, Soil 03/01/2024 14:25		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA05455-1	FS03@5' Collected : 02/06/2024 13:55						
		Total Metals, Soils - Lead 02/27/2024 00:00	10.00	4.193	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Nickel 02/27/2024 00:00	10.00	4.586	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Zinc 02/27/2024 00:00	10.00	18.327	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Arsenic 02/27/2024 00:00	10.00	2.274	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Selenium 02/27/2024 00:00	10.00	19.087	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Silver 02/27/2024 00:00	10.00	<0.250 - RL1	mg/kg	0.250	EPA 3050B
		Total Metals, Soils - Barium 02/27/2024 00:00	10.00	51.651	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Copper 02/27/2024 00:00	10.00	5.136	mg/kg	0.025	EPA 3050B
		Total Metals, Soils - Cadmium 02/27/2024 00:00	10.00	0.078	mg/kg	0.001	EPA 3050B

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Project Manager : Mikayla Axtell
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Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		Chromium VI, Soil 03/04/2024 08:59		0.084	mg/kg	0.080	EPA 3060A & EPA 7199

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Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference

QC Report

CHROM_VI_SOIL-2107

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA05052	<80.000	1.0	ppb		<80.000				
DUP	AA05416	<0.080	0.001	mg/kg		<0.080				
MB	AA05732	0.855		ppb						
LCS	AA05734	35.576		ppb	40		88.940			
LCS	AA05735	35.219		ppb	40		88.048			

CHROM_VI_SOIL-2124

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA05448	0.116	0.080	mg/kg		0.115			0.86580	
DUP	AA05459	0.099	0.080	mg/kg		0.091			8.4211	
MB	AA05959	0.001		mg/kg						
LCS	AA05961	0.047		mg/kg	0.040		117.50			
LCS	AA05962	0.043		mg/kg	0.040		107.50			

CHROM_VI_SOIL-2125

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA05392	0.084	0.001	mg/kg		<0.080				
DUP	AA05651	0.086	0.001	mg/kg		0.120			33.010	
MB	AA05963	Not Detected		ppb						
LCS	AA05965	41.291		ppb	40		103.23			
LCS	AA05966	39.639		ppb	40		99.098			

CHROM_VI_SOIL-2132

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA05481	<80.000	1.0	ppb		<80.000				
DUP	AA05587	<0.080	0.080	mg/kg		<0.080				
MB	AA05987	1.175		ppb						
LCS	AA05989	254887.1934		ppb	226000		112.78			

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Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name	Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
LCS	AA05990	41.8658		ppb	40	104.66		

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Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference

QC Report

METALS_S-2117

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
AA05018									
Arsenic									
DUP	294.669	25.000	µg/kg		274.240			7.1818	0 - 15
Matrix Spike	10522.967			10000	274.240	102.49			
Barium									
DUP	27400.421	25.000	µg/kg		30213.815			9.7663	0 - 15
Matrix Spike	40333.927			10000	30213.815	101.20			
AA05752									
Arsenic									
MB	-1.056		µg/kg						
Barium									
MB	0.039		µg/kg						
Cadmium									
MB	0.046		µg/kg						
Copper									
MB	-2.391		µg/kg						
Lead									
MB	0.062		µg/kg						
Nickel									
MB	-2.017		µg/kg						
Selenium									
MB	-1.146		µg/kg						
Silver									
MB	0.305		µg/kg						
Zinc									

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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
MB	-1.118	µg/kg					
AA05754							
Arsenic							
LCS	92.948	µg/kg	90	103.28	80 - 120		
Barium							
LCS	93.628	µg/kg	90	104.03	80 - 120		
Cadmium							
LCS	92.588	µg/kg	90	102.88	80 - 120		
Copper							
LCS	92.219	µg/kg	90	102.47	80 - 120		
Lead							
LCS	87.835	µg/kg	90	97.594	80 - 120		
Nickel							
LCS	95.116	µg/kg	90	105.68	80 - 120		
Selenium							
LCS	91.659	µg/kg	90	101.84	80 - 120		
Silver							
LCS	83.240	µg/kg	90	92.489	80 - 120		
Zinc							
LCS	93.773	µg/kg	90	104.19	80 - 120		
AA05755							
Arsenic							
LCS	85.219	µg/kg	90	94.688	80 - 120		
Barium							
LCS	89.673	µg/kg	90	99.637	80 - 120		
Cadmium							
LCS	87.181	µg/kg	90	96.868	80 - 120		
Copper							
LCS	86.234	µg/kg	90	95.816	80 - 120		
Lead							

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Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID		Analyte Name Analysis Start	Dilution		Result		Units	Reporting Limit	Method Reference
LCS	87.530		µg/kg	90		97.256	80 - 120			
Nickel										
LCS	85.500		µg/kg	90		95.000	80 - 120			
Selenium										
LCS	86.517		µg/kg	90		96.130	80 - 120			
Silver										
LCS	78.488		µg/kg	90		87.209	80 - 120			
Zinc										
LCS	84.533		µg/kg	90		93.926	80 - 120			
Arsenic										
DUP	1265.704	25.000	µg/kg		1287.214				1.6851	0 - 15
Matrix Spike	9849.784			10000	1287.214	85.626				
Barium										
DUP	34126.388	25.000	µg/kg		32281.352				5.5567	0 - 15
Matrix Spike	44758.958			10000	32281.352	124.78				
Cadmium										
DUP	36.351	1.000	µg/kg		42.679				16.014	0 - 15
Matrix Spike	10011.518			10000	42.679	99.688				
Copper										
DUP	2565.382	25.000	µg/kg		2778.530				7.9772	0 - 15
Matrix Spike	13284.549			10000	2778.530	105.06				
Lead										
DUP	2552.464	25.000	µg/kg		2782.799				8.6344	0 - 15
Matrix Spike	12337.900			10000	2782.799	95.551				
Nickel										
DUP	2464.842	25.000	µg/kg		2578.739				4.5165	0 - 15
Matrix Spike	12774.747			10000	2578.739	101.96				
Selenium										
DUP	18385.974	25.000	µg/kg		16987.228				7.9085	0 - 15
Matrix Spike	28975.275			10000	16987.228	119.88				

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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Silver							
DUP	<25.000	25.000 µg/kg		<250.000			
Matrix Spike	8123.622		10000	<250.000	81.236		
Zinc							
DUP	11763.122	25.000 µg/kg		12193.628		3.5940	0 - 15
Matrix Spike	23049.521		10000	12193.628	108.56		
AA05816							
Arsenic							
MB	0.116	µg/kg					
Barium							
MB	0.046	µg/kg					
Cadmium							
MB	0.039	µg/kg					
Copper							
MB	-0.224	µg/kg					
Lead							
MB	0.098	µg/kg					
Nickel							
MB	0.045	µg/kg					
Selenium							
MB	-0.469	µg/kg					
Silver							
MB	0.197	µg/kg					
Zinc							
MB	2.220	µg/kg					
AA05818							
Arsenic							
LCS	81.911	µg/kg	90		91.012	80 - 120	
Barium							
LCS	84.272	µg/kg	90		93.636	80 - 120	

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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Cadmium							
LCS	88.456	µg/kg	90	98.284	80 - 120		
Copper							
LCS	82.582	µg/kg	90	91.758	80 - 120		
Lead							
LCS	85.199	µg/kg	90	94.666	80 - 120		
Nickel							
LCS	86.788	µg/kg	90	96.431	80 - 120		
Selenium							
LCS	86.788	µg/kg	90	96.431	80 - 120		
Silver							
LCS	79.365	µg/kg	90	88.183	80 - 120		
Zinc							
LCS	85.532	µg/kg	90	95.036	80 - 120		
AA05819							
Arsenic							
LCS	79.675	µg/kg	90	88.528	80 - 120		
Barium							
LCS	81.821	µg/kg	90	90.912	80 - 120		
Cadmium							
LCS	84.523	µg/kg	90	93.914	80 - 120		
Copper							
LCS	81.221	µg/kg	90	90.246	80 - 120		
Lead							
LCS	82.527	µg/kg	90	91.697	80 - 120		
Nickel							
LCS	83.379	µg/kg	90	92.643	80 - 120		
Selenium							
LCS	83.701	µg/kg	90	93.001	80 - 120		
Silver							

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Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID		Analyte Name Analysis Start	Dilution		Result		Units	Reporting Limit	Method Reference
LCS	78.204		µg/kg	90		86.893	80 - 120			
Zinc										
LCS	82.244		µg/kg	90		91.382	80 - 120			
Arsenic										
DUP	2288.335	25.000	µg/kg		2147.710				6.3401	0 - 15
Matrix Spike	12362.158			10000	2147.710	102.14				
Barium										
DUP	42097.467	25.000	µg/kg		41783.22				0.74927	0 - 15
Matrix Spike	50101.966			10000	41783.22	83.187				
Cadmium										
DUP	42.868	1.000	µg/kg		52.023				19.296	0 - 15
Matrix Spike	10911.057			10000	52.023	108.59				
Copper										
DUP	4263.674	25.000	µg/kg		4393.352				2.9959	0 - 15
Matrix Spike	15187.276			10000	4393.352	107.94				
Lead										
DUP	3903.227	25.000	µg/kg		3552.315				9.4135	0 - 15
Matrix Spike	14589.343			10000	3552.315	110.37				
Nickel										
DUP	4762.900	25.000	µg/kg		4428.371				7.2793	0 - 15
Matrix Spike	15624.442			10000	4428.371	111.96				
Selenium										
DUP	39329.550	25.000	µg/kg		37227.17				5.4923	0 - 15
Matrix Spike	46529.236			10000	37227.17	93.021				
Silver										
DUP	<250.000	250.000	µg/kg		<250.000					
Matrix Spike	10470.139			10000	<250.000	104.70				
Zinc										
DUP	18906.797	25.000	µg/kg		17499.03				7.7337	0 - 15
Matrix Spike	29003.353			10000	17499.03	115.04				

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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA05971							
Arsenic							
MB	0.100	µg/kg					
Barium							
MB	-0.003	µg/kg					
Cadmium							
MB	0.016	µg/kg					
Copper							
MB	0.067	µg/kg					
Lead							
MB	0.042	µg/kg					
Nickel							
MB	0.063	µg/kg					
Selenium							
MB	0.010	µg/kg					
Silver							
MB	0.137	µg/kg					
Zinc							
MB	-0.586	µg/kg					
AA05973							
Arsenic							
LCS	87.769	µg/kg	90	97.521	80 - 120		
Barium							
LCS	89.427	µg/kg	90	99.363	80 - 120		
Cadmium							
LCS	87.895	µg/kg	90	97.661	80 - 120		
Copper							
LCS	97.804	µg/kg	90	108.67	80 - 120		
Lead							
LCS	100.124	µg/kg	90	111.25	80 - 120		

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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Nickel							
LCS	90.992	µg/kg	90	101.10	80 - 120		
Selenium							
LCS	88.474	µg/kg	90	98.304	80 - 120		
Silver							
LCS	106.140	µg/kg	90	117.93	80 - 120		
Zinc							
LCS	91.630	µg/kg	90	101.81	80 - 120		
AA05974							
Arsenic							
LCS	89.236	µg/kg	90	99.151	80 - 120		
Barium							
LCS	87.469	µg/kg	90	97.188	80 - 120		
Cadmium							
LCS	86.995	µg/kg	90	96.661	80 - 120		
Copper							
LCS	92.304	µg/kg	90	102.56	80 - 120		
Lead							
LCS	80.221	µg/kg	90	89.134	80 - 120		
Nickel							
LCS	91.083	µg/kg	90	101.20	80 - 120		
Selenium							
LCS	87.418	µg/kg	90	97.131	80 - 120		
Silver							
LCS	81.125	µg/kg	90	90.139	80 - 120		
Zinc							
LCS	90.745	µg/kg	90	100.83	80 - 120		
Barium							
DUP	19.638	0.025 mg/kg		17.584		11.036	0 - 15
Matrix Spike	25.776		10.000	17.584	81.920		

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Division of Environmental Testing
2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

FINAL RESULTS REPORT

Report Date : 3/8/2024
Report Time : 9:56

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Lead							
DUP	3.771	0.025	mg/kg	3.394		10.523	0 - 15
Matrix Spike	14.216		10.000	3.394	108.22		
Barium							
DUP	127050.700	25.000	µg/kg	38307.10		8.4839	0 - 15
Matrix Spike	146418.637		10000	38307.10	81.115		
AA06223							
Arsenic							
MB	0.264	µg/kg					
Barium							
MB	0.132	µg/kg					
Cadmium							
MB	0.213	µg/kg					
Copper							
MB	0.215	µg/kg					
Lead							
MB	0.157	µg/kg					
Nickel							
MB	0.207	µg/kg					
Selenium							
MB	0.253	µg/kg					
Silver							
MB	2.235	µg/kg					
Zinc							
MB	0.237	µg/kg					
AA06225							
Arsenic							
LCS	83.515	µg/kg	90	92.794	80 - 120		
Barium							
LCS	89.742	µg/kg	90	99.713	80 - 120		

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Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Cadmium							
LCS	89.662	µg/kg	90	99.624	80 - 120		
Copper							
LCS	88.457	µg/kg	90	98.286	80 - 120		
Lead							
LCS	91.141	µg/kg	90	101.27	80 - 120		
Nickel							
LCS	86.715	µg/kg	90	96.350	80 - 120		
Selenium							
LCS	88.358	µg/kg	90	98.176	80 - 120		
Silver							
LCS	89.672	µg/kg	90	99.636	80 - 120		
Zinc							
LCS	87.594	µg/kg	90	97.327	80 - 120		
AA06226							
Arsenic							
LCS	87.428	µg/kg	90	97.142	80 - 120		
Barium							
LCS	90.641	µg/kg	90	100.71	80 - 120		
Cadmium							
LCS	91.272	µg/kg	90	101.41	80 - 120		
Copper							
LCS	90.217	µg/kg	90	100.24	80 - 120		
Lead							
LCS	91.337	µg/kg	90	101.49	80 - 120		
Nickel							
LCS	87.993	µg/kg	90	97.770	80 - 120		
Selenium							
LCS	93.831	µg/kg	90	104.26	80 - 120		
Silver							

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Project Manager : Mikayla Axtell
Project Name : 2402113
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
LCS	90.032	µg/kg	90	100.04	80 - 120		
Zinc							
LCS	89.563	µg/kg	90	99.514	80 - 120		

Qualifier	Explanation
H1	Sample received outside of regulatory holding time.
H2	Sample analyzed outside of regulatory holding time due to a laboratory error.
P1	Sample received outside temperature requirements, 0-6°C.
P2	Sample received unpreserved.
P3	Broken or leaking sample container.
P4	Sample improperly collected
P5	Sample improperly preserved
B	The same analyte is found in the associated blank
B1	Blank failed high, indicating possible high bias in sample results.
B2	Blank failed low, indicating possible low bias in sample results.
MS	Matrix Spike / Matrix Spike Duplicate recovery and/or RPD limit exceeded, indicating potential matrix interference.
QC	Associated batch quality control was outside the acceptable range
D1	Duplicate RPD limit exceeded due to low sample concentration.
D2	Duplicate RPD limit exceeded due to matrix interference.
S	Surrogate recovery failed, indicating potential matrix interference.
RL1	Reporting limits raised due to matrix interference.
RL2	Reporting limits raised due to limited sample.
U	Sample result less than method detection limit.
J	Sample result less than reporting limit but higher than method detection limit.
EST	The concentration indicated has been estimated due to high analyte content
E	Electronic loss or corruption of data.
I	Subcontracted sample

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Notes and Definitions

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