

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 16, 2024

Daniel Simpson

Tasman Geosciences

6855 W. 119th Ave.

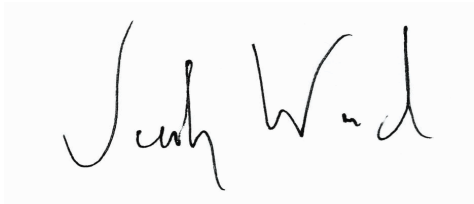
Broomfield, CO 80020

RE: Noble - Garcia USX AB35-10D

Work Order #2411287

Enclosed are the results of analyses for samples received by Summit Scientific on 11/15/24 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-11@4'	2411287-01	Soil	11/15/24 11:56	11/15/24 18:20
FL01-14@4'	2411287-02	Soil	11/15/24 12:29	11/15/24 18:20
BKG01@0-1'	2411287-03	Soil	11/15/24 14:05	11/15/24 18:20
BKG01@2.5'	2411287-04	Soil	11/15/24 14:07	11/15/24 18:20
BKG01@4'	2411287-05	Soil	11/15/24 14:10	11/15/24 18:20
BKG01@6'	2411287-06	Soil	11/15/24 14:13	11/15/24 18:20
BKG02@0-1'	2411287-07	Soil	11/15/24 13:50	11/15/24 18:20
BKG02@2.5'	2411287-08	Soil	11/15/24 13:53	11/15/24 18:20
BKG02@4'	2411287-09	Soil	11/15/24 13:56	11/15/24 18:20
BKG02@6'	2411287-10	Soil	11/15/24 13:58	11/15/24 18:20
BKG03@0-1'	2411287-11	Soil	11/15/24 13:32	11/15/24 18:20
BKG03@2.5'	2411287-12	Soil	11/15/24 13:36	11/15/24 18:20
BKG03@4'	2411287-13	Soil	11/15/24 13:39	11/15/24 18:20
BKG03@6'	2411287-14	Soil	11/15/24 13:41	11/15/24 18:20
BKG04@2.5'	2411287-15	Soil	11/15/24 13:19	11/15/24 18:20
BKG04@4'	2411287-16	Soil	11/15/24 13:22	11/15/24 18:20
BKG04@6'	2411287-17	Soil	11/15/24 13:25	11/15/24 18:20
BKG04@8'	2411287-18	Soil	11/15/24 13:27	11/15/24 18:20
BKG05@2.5'	2411287-19	Soil	11/15/24 13:10	11/15/24 18:20
BKG05@4'	2411287-20	Soil	11/15/24 13:12	11/15/24 18:20
BKG05@6'	2411287-21	Soil	11/15/24 13:15	11/15/24 18:20
BKG05@8'	2411287-22	Soil	11/15/24 13:18	11/15/24 18:20

Summit Scientific

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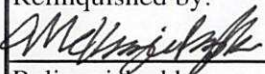
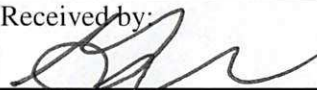
Send Data To:		Send Invoice To:
Client: Tasman, Inc.	Project Manager: Daniel Simpson	Company: Noble Energy, Inc.
Address: 6855 W. 119th Ave.	E-Mail: Tas-chevron-5@tasman-geo.com	Project Name/Location: Garcia VSK AB35-100
City/State/Zip: Broomfield / CO/ 80020	rbueuf2@chevron.com, jason.davidson@chevron.com	AFE#: UWRWE-A2773-ABN
Phone: 303-487-1228	Project Name: Garcia VSK AB35-100	PO/Billing Codes:
Sampler Name: McKenzie Reynolds	Project Number:	Contact: Mike Montoya

					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		
1	FL01-1104'	11/15/24	1156	2			X			X			X	X	X	X	X	X	X		SAR, EC, pH by saturated paste
2	FL01-1404'		1229	1										+	+	+					
3	BK0100-1'		1405																		
4	BK0102.5'		1407																		
5	BK0104'		1410																		
6	BK0106'		1413																		
7	BK0108-1'		1350																		
8	BK0102.5'		1353																		
9	BK0104'		1356																		
10	BK0106'		1358																		
11	BK0300-1'		1332																		
12	BK0302.5'		1336																		
13	BK0304'		1339																		
14	BK0306'		1341																		
15	BK0402.5'		1319																		

Relinquished by: <i>Melvin Lopez</i>	Date/Time: 11/15/2024 1630	Received by: Tasman Lockbox	Date/Time: 11/15/2024 1630	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 11/15/24 185	Received by: <i>[Signature]</i>	Date/Time: 11/15/24 1820	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 3.8	Corrected Temperature	IR gun #: 2	HNO3 lot #:	Standard	X	Field Turb.

Client: Tasman, Inc.		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Daniel Simpson		Company: Noble Energy, Inc.	
City/State/Zip: Broomfield / CO / 80020		E-Mail: Tas-chevron-5@tasman-geo.com		Project Name/Location: Garcia USK AB35-10D	
Phone: 303-487-1228		Project Name: Garcia USK AB35-10D		AFE#: USRWG-A2773-ABN	
Sampler Name: McKenzie Reynolds		Project Number:		PO/Billing Codes:	
				Contact: Mike Montoya	

					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	BK60404'	11/15/24	1322	2			X			X			X	X			X	X				
2	BK60406'		1325																			
3	BK60408'		1327																			
4	BK60502.5'		1310																			
5	BK60504'		1312																			
6	BK60506'		1315																			
7	BK60508'		1318																			
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: 	Date/Time: 11/15/2024 1630	Received by: Tasman Lockbox	Date/Time: 11/15/2024 1630	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 11/15/24 1815	Received by: 	Date/Time: 11/15/24 1820	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.	
Temperature Upon Receipt: 3.8	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

2/2

S2 Work Order# 2411287

Sample Receipt Checklist

Client: Noble/Tasman Client Project ID: Garcia USX AB35-10DShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 3.8Thermometer # 2

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

Control Form #: SRC-001

AS
Custodian Printed Name

11/15/24
Date/Time



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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

FL01-11@4'
2411287-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK0987	11/19/24	11/20/24	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: **11/15/24 11:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0424	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0988	11/19/24	11/20/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.4	91.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Garcia USX AB35-10D
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12/16/24 12:43

FL01-11@4'
2411287-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1016	11/20/24	11/20/24	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: **11/15/24 11:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

FL01-11@4'
2411287-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.15	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B
Barium	73.5	0.400	"	"	"	"	"	"
Cadmium	0.254	0.200	"	"	"	"	"	"
Copper	5.52	0.400	"	"	"	"	"	"
Lead	8.02	0.200	"	"	"	"	"	"
Nickel	5.45	0.400	"	"	"	"	"	"
Silver	0.0357	0.0200	"	"	"	"	"	"
Zinc	21.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/15/24 11:56

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: 11/15/24 11:56

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	94.7	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	51.7	0.0500	"	"	"	"	"	"	
Sodium	90.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/15/24 11:56

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.85	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/15/24 11:56

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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12/16/24 12:43

FL01-11@4'
2411287-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.3	%	1	BHK1317	11/26/24	11/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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FL01-14@4'
2411287-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0987	11/19/24	11/20/24	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: **11/15/24 12:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0988	11/19/24	11/20/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.1	88.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL01-14@4'
2411287-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1016	11/20/24	11/20/24	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: **11/15/24 12:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0138	41.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

FL01-14@4'
2411287-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.41	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B
Barium	81.2	0.400	"	"	"	"	"	"
Cadmium	0.208	0.200	"	"	"	"	"	"
Copper	4.11	0.400	"	"	"	"	"	"
Lead	6.03	0.200	"	"	"	"	"	"
Nickel	5.06	0.400	"	"	"	"	"	"
Silver	0.0302	0.0200	"	"	"	"	"	"
Zinc	21.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	480	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	199	0.0500	"	"	"	"	"	"	
Sodium	346	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.35	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 12:29**

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: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

FL01-14@4'
2411287-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.9	%	1	BHK1317	11/26/24	11/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.72	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG01@0-1'
2411287-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.87	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	80.8	0.400	"	"	"	"	"	"	
Cadmium	0.275	0.200	"	"	"	"	"	"	
Copper	5.44	0.400	"	"	"	"	"	"	
Lead	7.62	0.200	"	"	"	"	"	"	
Nickel	5.45	0.400	"	"	"	"	"	"	
Silver	0.0412	0.0200	"	"	"	"	"	"	
Zinc	21.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	78.3	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	6.38	0.0500	"	"	"	"	"	"	
Sodium	4.08	0.0500	"	"	"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG01@0-1'
2411287-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.119	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.549	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG01@2.5'
2411287-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.60	0.200		mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	21.9	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.05	0.400		"	"	"	"	"	"	
Lead	3.49	0.200		"	"	"	"	"	"	
Nickel	2.89	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	11.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	162	0.0500		mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	14.5	0.0500		"	"	"	"	"	"	
Sodium	9.56	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG01@2.5'
2411287-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.193	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.0		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.977	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.68		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG01@4'
2411287-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.97	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	29.5	0.400	"	"	"	"	"	"	
Cadmium	0.358	0.200	"	"	"	"	"	"	
Copper	4.88	0.400	"	"	"	"	"	"	
Lead	7.63	0.200	"	"	"	"	"	"	
Nickel	5.67	0.400	"	"	"	"	"	"	
Silver	0.0254	0.0200	"	"	"	"	"	"	
Zinc	34.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	69.2	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	134	0.0500	"	"	"	"	"	"	
Sodium	718	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG01@4'
2411287-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.6	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.64	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG01@6'
2411287-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	9.58	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	240	0.400	"	"	"	"	"	"	
Cadmium	0.312	0.200	"	"	"	"	"	"	
Copper	6.03	0.400	"	"	"	"	"	"	
Lead	8.92	0.200	"	"	"	"	"	"	
Nickel	6.14	0.400	"	"	"	"	"	"	
Silver	0.0321	0.0200	"	"	"	"	"	"	
Zinc	34.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	167	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	220	0.0500	"	"	"	"	"	"	
Sodium	816	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG01@6'
2411287-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.76	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.6		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.61	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG02@0-1'
2411287-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.44	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	60.4	0.400	"	"	"	"	"	"	
Cadmium	0.271	0.200	"	"	"	"	"	"	
Copper	5.50	0.400	"	"	"	"	"	"	
Lead	7.83	0.200	"	"	"	"	"	"	
Nickel	5.08	0.400	"	"	"	"	"	"	
Silver	0.0329	0.0200	"	"	"	"	"	"	
Zinc	21.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	52.8	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	20.6	0.0500	"	"	"	"	"	"	
Sodium	8.60	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG02@0-1'
2411287-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.254	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.498	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG02@2.5'
2411287-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.33	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	77.5	0.400	"	"	"	"	"	"	
Cadmium	0.271	0.200	"	"	"	"	"	"	
Copper	5.86	0.400	"	"	"	"	"	"	
Lead	8.65	0.200	"	"	"	"	"	"	
Nickel	5.61	0.400	"	"	"	"	"	"	
Silver	0.0573	0.0200	"	"	"	"	"	"	
Zinc	24.8	0.400	"	"	"	"	"	"	
Selenium	0.277	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	


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

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	212	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	190	0.0500	"	"	"	"	"	"	
Sodium	260	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific



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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG02@2.5'
2411287-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.12	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.26	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG02@4'
2411287-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.64	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	77.0	0.400	"	"	"	"	"	"	
Cadmium	0.241	0.200	"	"	"	"	"	"	
Copper	5.15	0.400	"	"	"	"	"	"	
Lead	7.73	0.200	"	"	"	"	"	"	
Nickel	4.99	0.400	"	"	"	"	"	"	
Silver	0.0506	0.0200	"	"	"	"	"	"	
Zinc	22.4	0.400	"	"	"	"	"	"	
Selenium	0.296	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	148	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	132	0.0500	"	"	"	"	"	"	
Sodium	289	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG02@4'
2411287-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.16	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.54	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG02@6'
2411287-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.76	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	104	0.400	"	"	"	"	"	"	
Cadmium	0.269	0.200	"	"	"	"	"	"	
Copper	4.99	0.400	"	"	"	"	"	"	
Lead	7.02	0.200	"	"	"	"	"	"	
Nickel	4.75	0.400	"	"	"	"	"	"	
Silver	0.0348	0.0200	"	"	"	"	"	"	
Zinc	20.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	100	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	112	0.0500	"	"	"	"	"	"	
Sodium	324	0.0500	"	"	"	"	"	"	

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG02@6'
2411287-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.29	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.17	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG03@0-1'
2411287-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.72	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	74.5	0.400	"	"	"	"	"	"	
Cadmium	0.327	0.200	"	"	"	"	"	"	
Copper	6.15	0.400	"	"	"	"	"	"	
Lead	9.41	0.200	"	"	"	"	"	"	
Nickel	6.09	0.400	"	"	"	"	"	"	
Silver	0.0489	0.0200	"	"	"	"	"	"	
Zinc	25.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	24.0	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	6.06	0.0500	"	"	"	"	"	"	
Sodium	3.04	0.0500	"	"	"	"	"	"	

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG03@0-1'
2411287-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.144	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.260	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG03@2.5'
2411287-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.95	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	58.9	0.400	"	"	"	"	"	"	
Cadmium	0.300	0.200	"	"	"	"	"	"	
Copper	4.73	0.400	"	"	"	"	"	"	
Lead	9.70	0.200	"	"	"	"	"	"	
Nickel	5.39	0.400	"	"	"	"	"	"	
Silver	0.0587	0.0200	"	"	"	"	"	"	
Zinc	23.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	16.4	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	7.82	0.0500	"	"	"	"	"	"	
Sodium	25.8	0.0500	"	"	"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG03@2.5'
2411287-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.31	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.376	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG03@4'
2411287-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.85	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	33.2	0.400	"	"	"	"	"	"	
Cadmium	0.297	0.200	"	"	"	"	"	"	
Copper	6.65	0.400	"	"	"	"	"	"	
Lead	13.4	0.200	"	"	"	"	"	"	
Nickel	6.00	0.400	"	"	"	"	"	"	
Silver	0.0350	0.0200	"	"	"	"	"	"	
Zinc	27.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	89.0	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	97.8	0.0500	"	"	"	"	"	"	
Sodium	464	0.0500	"	"	"	"	"	"	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG03@4'
2411287-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.08	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.75	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG03@6'
2411287-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.19	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	38.0	0.400	"	"	"	"	"	"	
Cadmium	0.287	0.200	"	"	"	"	"	"	
Copper	5.01	0.400	"	"	"	"	"	"	
Lead	7.75	0.200	"	"	"	"	"	"	
Nickel	4.58	0.400	"	"	"	"	"	"	
Silver	0.0442	0.0200	"	"	"	"	"	"	
Zinc	23.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	78.7	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	47.8	0.0500	"	"	"	"	"	"	
Sodium	229	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG03@6'
2411287-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.02	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.58	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG04@2.5'
2411287-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.52	0.200		mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	66.5	0.400		"	"	"	"	"	"	
Cadmium	0.243	0.200		"	"	"	"	"	"	
Copper	3.89	0.400		"	"	"	"	"	"	
Lead	6.01	0.200		"	"	"	"	"	"	
Nickel	4.50	0.400		"	"	"	"	"	"	
Silver	0.0341	0.0200		"	"	"	"	"	"	
Zinc	16.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	85.5	0.0500		mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	139	0.0500		"	"	"	"	"	"	
Sodium	627	0.0500		"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG04@2.5'
2411287-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.73	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.44	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG04@4'
2411287-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.98	0.200		mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	288	0.400		"	"	"	"	"	"	
Cadmium	0.376	0.200		"	"	"	"	"	"	
Copper	6.23	0.400		"	"	"	"	"	"	
Lead	8.95	0.200		"	"	"	"	"	"	
Nickel	6.66	0.400		"	"	"	"	"	"	
Silver	0.0519	0.0200		"	"	"	"	"	"	
Zinc	22.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	44.0	0.0500		mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	40.2	0.0500		"	"	"	"	"	"	
Sodium	187	0.0500		"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG04@4'
2411287-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.90	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.35	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG04@6'
2411287-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.64	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	78.8	0.400	"	"	"	"	"	"	
Cadmium	0.228	0.200	"	"	"	"	"	"	
Copper	5.15	0.400	"	"	"	"	"	"	
Lead	6.82	0.200	"	"	"	"	"	"	
Nickel	5.87	0.400	"	"	"	"	"	"	
Silver	0.0346	0.0200	"	"	"	"	"	"	
Zinc	20.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	171	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	155	0.0500	"	"	"	"	"	"	
Sodium	451	0.0500	"	"	"	"	"	"	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG04@6'
2411287-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.01	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.58	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG04@8'
2411287-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.14	0.200		mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	115	0.400		"	"	"	"	"	"	
Cadmium	0.263	0.200		"	"	"	"	"	"	
Copper	4.98	0.400		"	"	"	"	"	"	
Lead	7.75	0.200		"	"	"	"	"	"	
Nickel	5.93	0.400		"	"	"	"	"	"	
Silver	0.0430	0.0200		"	"	"	"	"	"	
Zinc	19.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	76.7	0.0500		mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	72.9	0.0500		"	"	"	"	"	"	
Sodium	311	0.0500		"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG04@8'
2411287-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.10	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.8		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.25	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG05@2.5'
2411287-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.58	0.200	mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	101	0.400	"	"	"	"	"	"	
Cadmium	0.283	0.200	"	"	"	"	"	"	
Copper	5.24	0.400	"	"	"	"	"	"	
Lead	7.48	0.200	"	"	"	"	"	"	
Nickel	4.42	0.400	"	"	"	"	"	"	
Silver	0.0369	0.0200	"	"	"	"	"	"	
Zinc	21.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	311	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	209	0.0500	"	"	"	"	"	"	
Sodium	705	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG05@2.5'
2411287-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.58	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.57	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG05@4'
2411287-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.28	0.200	mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	150	0.400	"	"	"	"	"	"	
Cadmium	0.316	0.200	"	"	"	"	"	"	
Copper	5.06	0.400	"	"	"	"	"	"	
Lead	9.61	0.200	"	"	"	"	"	"	
Nickel	4.52	0.400	"	"	"	"	"	"	
Silver	0.0554	0.0200	"	"	"	"	"	"	
Zinc	29.5	0.400	"	"	"	"	"	"	
Selenium	0.586	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	268	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	218	0.0500	"	"	"	"	"	"	
Sodium	1150	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG05@4'
2411287-20 (Soil)

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Calculated Analysis

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.6	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.3		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.34	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG05@6'
2411287-21 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.54	0.200	mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	122	0.400	"	"	"	"	"	"	
Cadmium	0.248	0.200	"	"	"	"	"	"	
Copper	3.92	0.400	"	"	"	"	"	"	
Lead	7.60	0.200	"	"	"	"	"	"	
Nickel	4.72	0.400	"	"	"	"	"	"	
Silver	0.0347	0.0200	"	"	"	"	"	"	
Zinc	20.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	64.3	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	56.5	0.0500	"	"	"	"	"	"	
Sodium	543	0.0500	"	"	"	"	"	"	

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Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG05@6'
2411287-21 (Soil)

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Calculated Analysis

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.9	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.90	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG05@8'
2411287-22 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.92	0.200	mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	106	0.400	"	"	"	"	"	"	
Cadmium	0.263	0.200	"	"	"	"	"	"	
Copper	5.37	0.400	"	"	"	"	"	"	
Lead	7.87	0.200	"	"	"	"	"	"	
Nickel	6.01	0.400	"	"	"	"	"	"	
Silver	0.0550	0.0200	"	"	"	"	"	"	
Zinc	21.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	193	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	88.9	0.0500	"	"	"	"	"	"	
Sodium	241	0.0500	"	"	"	"	"	"	

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

BKG05@8'
2411287-22 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.60	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.5		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.45	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHK0987 - EPA 5030 Soil MS

Blank (BHK0987-BLK1)

Prepared & Analyzed: 11/19/24

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	0.0405		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.4	50-150			

LCS (BHK0987-BS1)

Prepared & Analyzed: 11/19/24

Benzene	0.120	0.0020	mg/kg	0.100		120	70-130			
Toluene	0.119	0.0050	"	0.100		119	70-130			
Ethylbenzene	0.127	0.0050	"	0.100		127	70-130			
m,p-Xylene	0.250	0.010	"	0.200		125	70-130			
o-Xylene	0.119	0.0050	"	0.100		119	70-130			
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
1,3,5-Trimethylbenzene	0.123	0.0050	"	0.100		123	70-130			
Naphthalene	0.105	0.0038	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.3	50-150			

Matrix Spike (BHK0987-MS1)

Source: 2411286-01

Prepared & Analyzed: 11/19/24

Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130			
Toluene	0.109	0.0050	"	0.100	ND	109	70-130			
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130			
m,p-Xylene	0.224	0.010	"	0.200	ND	112	70-130			
o-Xylene	0.107	0.0050	"	0.100	ND	107	70-130			
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
Naphthalene	0.0975	0.0038	"	0.100	ND	97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0427		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		96.9	50-150			

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

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

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

Batch BHK0987 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0987-MSD1)	Source: 2411286-01			Prepared & Analyzed: 11/19/24						
Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130	2.72	30	
Toluene	0.106	0.0050	"	0.100	ND	106	70-130	3.16	30	
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	3.22	30	
m,p-Xylene	0.218	0.010	"	0.200	ND	109	70-130	2.86	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	2.49	30	
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	4.06	30	
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	3.90	30	
Naphthalene	0.0944	0.0038	"	0.100	ND	94.4	70-130	3.25	30	
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	50-150			

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHK0988 - EPA 3550A

Blank (BHK0988-BLK1)

Prepared & Analyzed: 11/19/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.3		"	12.5		82.4	30-150			

LCS (BHK0988-BS1)

Prepared & Analyzed: 11/19/24

C10-C28 (DRO)	392	50	mg/kg	500		78.4	70-130			
Surrogate: o-Terphenyl	13.0		"	12.5		104	30-150			

Matrix Spike (BHK0988-MS1)

Source: 2411286-01

Prepared & Analyzed: 11/19/24

C10-C28 (DRO)	410	50	mg/kg	500	17.4	78.5	70-130			
Surrogate: o-Terphenyl	14.2		"	12.5		114	30-150			

Matrix Spike Dup (BHK0988-MSD1)

Source: 2411286-01

Prepared & Analyzed: 11/19/24

C10-C28 (DRO)	397	50	mg/kg	500	17.4	75.9	70-130	3.26	20	
Surrogate: o-Terphenyl	13.0		"	12.5		104	30-150			

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHK1016 - EPA 5030 Soil MS

Blank (BHK1016-BLK1)

Prepared & Analyzed: 11/20/24

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	0.0174		"	0.0333		52.2	40-140			
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.7	40-140			

LCS (BHK1016-BS1)

Prepared & Analyzed: 11/20/24

Acenaphthene	0.0222	0.00500	mg/kg	0.0333		66.7	40-140			
Anthracene	0.0222	0.00500	"	0.0333		66.6	40-140			
Benzo (a) anthracene	0.0233	0.00500	"	0.0333		69.8	40-140			
Benzo (a) pyrene	0.0210	0.00500	"	0.0333		63.0	40-140			
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333		62.5	40-140			
Benzo (k) fluoranthene	0.0218	0.00500	"	0.0333		65.3	40-140			
Chrysene	0.0234	0.00500	"	0.0333		70.1	40-140			
Dibenz (a,h) anthracene	0.0219	0.00500	"	0.0333		65.7	40-140			
Fluoranthene	0.0230	0.00500	"	0.0333		69.1	40-140			
Fluorene	0.0228	0.00500	"	0.0333		68.4	40-140			
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333		66.3	40-140			
Pyrene	0.0247	0.00500	"	0.0333		74.2	40-140			
1-Methylnaphthalene	0.0222	0.00500	"	0.0333		66.7	40-140			
2-Methylnaphthalene	0.0238	0.00500	"	0.0333		71.3	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0242		"	0.0333		72.5	40-140			
Surrogate: Fluoranthene-d10	0.0242		"	0.0333		72.6	40-140			

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHK1016 - EPA 5030 Soil MS

Matrix Spike (BHK1016-MS1)

Source: 2411287-01

Prepared & Analyzed: 11/20/24

Acenaphthene	0.0197	0.00500	mg/kg	0.0333	ND	59.0	40-140		
Anthracene	0.0191	0.00500	"	0.0333	ND	57.4	40-140		
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.8	40-140		
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.9	40-140		
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.1	40-140		
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.8	40-140		
Chrysene	0.0200	0.00500	"	0.0333	ND	59.9	40-140		
Dibenz (a,h) anthracene	0.0190	0.00500	"	0.0333	ND	57.1	40-140		
Fluoranthene	0.0212	0.00500	"	0.0333	ND	63.6	40-140		
Fluorene	0.0199	0.00500	"	0.0333	ND	59.7	40-140		
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.8	40-140		
Pyrene	0.0219	0.00500	"	0.0333	ND	65.8	40-140		
1-Methylnaphthalene	0.0190	0.00500	"	0.0333	ND	57.1	40-140		
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.4	40-140		
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.8	40-140		
Surrogate: Fluoranthene-d10	0.0197		"	0.0333		59.0	40-140		

Matrix Spike Dup (BHK1016-MSD1)

Source: 2411287-01

Prepared & Analyzed: 11/20/24

Acenaphthene	0.0201	0.00500	mg/kg	0.0333	ND	60.2	40-140	2.01	30
Anthracene	0.0195	0.00500	"	0.0333	ND	58.4	40-140	1.88	30
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.4	40-140	5.77	30
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	53.9	40-140	1.97	30
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	53.9	40-140	3.43	30
Benzo (k) fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	40-140	1.03	30
Chrysene	0.0204	0.00500	"	0.0333	ND	61.2	40-140	2.11	30
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333	ND	57.2	40-140	0.179	30
Fluoranthene	0.0231	0.00500	"	0.0333	ND	69.3	40-140	8.47	30
Fluorene	0.0198	0.00500	"	0.0333	ND	59.5	40-140	0.265	30
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333	ND	58.1	40-140	2.37	30
Pyrene	0.0239	0.00500	"	0.0333	ND	71.8	40-140	8.73	30
1-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.6	40-140	4.43	30
2-Methylnaphthalene	0.0197	0.00500	"	0.0333	ND	59.2	40-140	6.85	30
Surrogate: 2-Methylnaphthalene-d10	0.0207		"	0.0333		62.1	40-140		
Surrogate: Fluoranthene-d10	0.0192		"	0.0333		57.7	40-140		

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

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

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

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

Batch BHK1261 - EPA 3050B

Blank (BHK1261-BLK1)

Prepared: 11/25/24 Analyzed: 11/26/24

Boron ND 2.00 mg/L

LCS (BHK1261-BS1)

Prepared: 11/25/24 Analyzed: 11/26/24

Boron 4.71 2.00 mg/L 5.00 94.2 80-120

Duplicate (BHK1261-DUP1)

Source: 2411277-22

Prepared: 11/25/24 Analyzed: 11/26/24

Boron 0.652 2.00 mg/L 0.688 5.41 20

Matrix Spike (BHK1261-MS1)

Source: 2411277-22

Prepared: 11/25/24 Analyzed: 11/26/24

Boron 5.04 2.00 mg/L 5.00 0.688 87.1 75-125

Matrix Spike Dup (BHK1261-MSD1)

Source: 2411277-22

Prepared: 11/25/24 Analyzed: 11/26/24

Boron 5.10 2.00 mg/L 5.00 0.688 88.2 75-125 1.05 25

Batch BHK1264 - EPA 3050B

Blank (BHK1264-BLK1)

Prepared: 11/25/24 Analyzed: 11/28/24

Boron ND 2.00 mg/L

LCS (BHK1264-BS1)

Prepared: 11/25/24 Analyzed: 11/28/24

Boron 5.08 2.00 mg/L 5.00 102 80-120

Duplicate (BHK1264-DUP1)

Source: 2411287-14

Prepared: 11/25/24 Analyzed: 11/28/24

Boron 0.697 2.00 mg/L 0.710 1.84 20

Matrix Spike (BHK1264-MS1)

Source: 2411287-14

Prepared: 11/25/24 Analyzed: 11/28/24

Boron 5.62 2.00 mg/L 5.00 0.710 98.2 75-125

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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN

Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

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

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

Batch BHK1264 - EPA 3050B

Matrix Spike Dup (BHK1264-MSD1)				Source: 2411287-14		Prepared: 11/25/24 Analyzed: 11/28/24				
Boron	5.76	2.00	mg/L	5.00	0.710	101	75-125	2.46	25	

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHL0094 - EPA 3050B

Blank (BHL0094-BLK1)

Prepared: 12/03/24 Analyzed: 12/06/24

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 (BHL0094-BS1)

Prepared: 12/03/24 Analyzed: 12/06/24

Arsenic	36.6	0.200	mg/kg wet	40.3	90.7	80-120
Barium	36.9	0.400	"	40.3	91.6	80-120
Cadmium	1.84	0.200	"	2.02	91.4	80-120
Copper	38.0	0.400	"	40.3	94.2	80-120
Lead	18.2	0.200	"	20.2	90.1	80-120
Nickel	37.8	0.400	"	40.3	93.7	80-120
Silver	2.11	0.0200	"	2.02	105	80-120
Zinc	38.2	0.400	"	40.3	94.7	80-120
Selenium	3.80	0.260	"	4.03	94.4	80-120

Duplicate (BHL0094-DUP1)

Source: 2411286-01

Prepared: 12/03/24 Analyzed: 12/06/24

Arsenic	3.33	0.200	mg/kg dry	3.28	1.58	20
Barium	66.6	0.400	"	72.4	8.42	20
Cadmium	0.203	0.200	"	0.206	1.35	20
Copper	4.64	0.400	"	4.57	1.50	20
Lead	7.16	0.200	"	6.75	5.94	20
Nickel	4.77	0.400	"	4.69	1.84	20
Silver	0.0406	0.0200	"	0.0396	2.30	20
Zinc	19.2	0.400	"	18.9	1.52	20
Selenium	ND	0.260	"	ND		20

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHL0094 - EPA 3050B

Matrix Spike (BHL0094-MS1)		Source: 2411286-01			Prepared: 12/03/24 Analyzed: 12/06/24					
Arsenic	44.8	0.200	mg/kg dry	45.7	3.28	90.8	75-125			
Barium	109	0.400	"	45.7	72.4	80.7	75-125			
Cadmium	2.33	0.200	"	2.29	0.206	92.7	75-125			
Copper	32.3	0.400	"	45.7	4.57	60.6	75-125			QM-05
Lead	27.5	0.200	"	22.9	6.75	90.7	75-125			
Nickel	32.3	0.400	"	45.7	4.69	60.4	75-125			QM-05
Silver	2.40	0.0200	"	2.29	0.0396	103	75-125			
Zinc	48.0	0.400	"	45.7	18.9	63.7	75-125			QM-05
Selenium	3.68	0.260	"	4.57	ND	80.5	75-125			

Matrix Spike Dup (BHL0094-MSD1)		Source: 2411286-01			Prepared: 12/03/24 Analyzed: 12/06/24					
Arsenic	42.8	0.200	mg/kg dry	45.0	3.28	87.9	75-125	4.51	25	
Barium	108	0.400	"	45.0	72.4	78.0	75-125	1.68	25	
Cadmium	2.39	0.200	"	2.25	0.206	97.3	75-125	2.87	25	
Copper	33.1	0.400	"	45.0	4.57	63.4	75-125	2.47	25	QM-05
Lead	28.0	0.200	"	22.5	6.75	94.5	75-125	1.88	25	
Nickel	33.2	0.400	"	45.0	4.69	63.5	75-125	2.86	25	QM-05
Silver	2.47	0.0200	"	2.25	0.0396	108	75-125	2.74	25	
Zinc	48.6	0.400	"	45.0	18.9	66.1	75-125	1.21	25	QM-05
Selenium	3.60	0.260	"	4.50	ND	80.0	75-125	2.29	25	

Batch BHL0257 - EPA 3050B

Blank (BHL0257-BLK1)		Prepared: 12/05/24 Analyzed: 12/11/24								
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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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHL0257 - EPA 3050B

LCS (BHL0257-BS1)

Prepared: 12/05/24 Analyzed: 12/11/24

Arsenic	39.5	0.200	mg/kg wet	40.0		98.7	80-120			
Barium	38.7	0.400	"	40.0		96.8	80-120			
Cadmium	1.96	0.200	"	2.00		97.9	80-120			
Copper	42.6	0.400	"	40.0		106	80-120			
Lead	19.8	0.200	"	20.0		98.9	80-120			
Nickel	39.8	0.400	"	40.0		99.5	80-120			
Silver	1.95	0.0200	"	2.00		97.4	80-120			
Zinc	40.2	0.400	"	40.0		100	80-120			
Selenium	3.81	0.260	"	4.00		95.3	80-120			

Duplicate (BHL0257-DUP1)

Source: 2411243-13

Prepared: 12/05/24 Analyzed: 12/11/24

Arsenic	4.38	0.200	mg/kg dry		4.33			1.23	20	
Barium	121	0.400	"		125			3.71	20	
Cadmium	0.336	0.200	"		0.307			9.03	20	
Copper	6.58	0.400	"		6.45			1.99	20	
Lead	10.6	0.200	"		10.7			1.37	20	
Nickel	7.02	0.400	"		6.87			2.17	20	
Silver	0.0510	0.0200	"		0.0553			8.14	20	
Zinc	25.2	0.400	"		24.4			3.11	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHL0257-MS1)

Source: 2411243-13

Prepared: 12/05/24 Analyzed: 12/11/24

Arsenic	47.3	0.200	mg/kg dry	44.6	4.33	96.3	75-125			
Barium	158	0.400	"	44.6	125	72.0	75-125			QM-05
Cadmium	2.50	0.200	"	2.23	0.307	98.5	75-125			
Copper	33.1	0.400	"	44.6	6.45	59.6	75-125			QM-05
Lead	31.6	0.200	"	22.3	10.7	93.3	75-125			
Nickel	31.6	0.400	"	44.6	6.87	55.4	75-125			QM-05
Silver	2.14	0.0200	"	2.23	0.0553	93.6	75-125			
Zinc	49.5	0.400	"	44.6	24.4	56.1	75-125			QM-05
Selenium	3.55	0.260	"	4.46	ND	79.5	75-125			

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHL0257 - EPA 3050B

Matrix Spike Dup (BHL0257-MSD1)		Source: 2411243-13			Prepared: 12/05/24 Analyzed: 12/11/24					
Arsenic	49.1	0.200	mg/kg dry	46.1	4.33	97.2	75-125	3.84	25	
Barium	166	0.400	"	46.1	125	88.3	75-125	5.27	25	
Cadmium	2.57	0.200	"	2.30	0.307	98.5	75-125	2.77	25	
Copper	34.9	0.400	"	46.1	6.45	61.8	75-125	5.46	25	QM-05
Lead	32.1	0.200	"	23.0	10.7	92.6	75-125	1.60	25	
Nickel	33.2	0.400	"	46.1	6.87	57.3	75-125	5.15	25	QM-05
Silver	2.25	0.0200	"	2.30	0.0553	95.1	75-125	4.65	25	
Zinc	50.9	0.400	"	46.1	24.4	57.6	75-125	2.93	25	QM-05
Selenium	3.66	0.260	"	4.61	ND	79.4	75-125	3.06	25	

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHL0193 - 3060A Mod

Blank (BHL0193-BLK1)					Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHL0193-BS1)					Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent	25.0	0.30	mg/kg wet	25.0		99.8	80-120			
Duplicate (BHL0193-DUP1)					Source: 2411287-01 Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHL0193-MS1)					Source: 2411287-01 Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent	28.3	0.30	mg/kg dry	28.0	ND	101	75-125			
Matrix Spike Dup (BHL0193-MSD1)					Source: 2411287-01 Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent	28.2	0.30	mg/kg dry	28.0	ND	101	75-125	0.198	20	

Batch BHL0194 - 3060A Mod

Blank (BHL0194-BLK1)					Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHL0194-BS1)					Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent	27.0	0.30	mg/kg wet	25.0		108	80-120			
Duplicate (BHL0194-DUP1)					Source: 2411287-21 Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHL0194-MS1)					Source: 2411287-21 Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent	28.4	0.30	mg/kg dry	29.5	ND	96.2	75-125			

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN

Project Manager: Daniel Simpson

Reported:

12/16/24 12:43

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BHL0194 - 3060A Mod

Matrix Spike Dup (BHL0194-MSD1)		Source: 2411287-21			Prepared: 12/04/24 Analyzed: 12/06/24					
Chromium, Hexavalent		31.0	0.30	mg/kg dry	29.5	ND	105	75-125	8.94	20

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

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

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

Batch BHL0432 - General Preparation

Blank (BHL0432-BLK1)

Prepared: 12/10/24 Analyzed: 12/11/24

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

LCS (BHL0432-BS1)

Prepared: 12/10/24 Analyzed: 12/11/24

Calcium	5.41	0.0500	mg/L wet	5.00	108	70-130
Magnesium	4.72	0.0500	"	5.00	94.5	70-130
Sodium	4.68	0.0500	"	5.00	93.6	70-130

Summit Scientific

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN

Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

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

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

Batch BHK1317 - General Preparation

Duplicate (BHK1317-DUP1)			Source: 2411287-01		Prepared & Analyzed: 11/26/24					
% Solids	89.2		%		89.3			0.121	20	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

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

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

Batch BHL0435 - General Preparation

Blank (BHL0435-BLK1)

Prepared: 12/10/24 Analyzed: 12/11/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHL0435-BS1)

Prepared: 12/10/24 Analyzed: 12/11/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHL0435-DUP1)

Source: 2411287-01

Prepared: 12/10/24 Analyzed: 12/11/24

Specific Conductance (EC) 1.26 0.0100 mmhos/cm 1.26 0.397 20

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 - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN

Project Manager: Daniel Simpson

Reported:
12/16/24 12:43

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

Summit Scientific

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

Batch BHL0434 - General Preparation

LCS (BHL0434-BS1)

Prepared: 12/10/24 Analyzed: 12/11/24

pH	9.13	pH Units	9.18	99.5	95-105
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Duplicate (BHL0434-DUP1)

Source: 2411287-01

Prepared: 12/10/24 Analyzed: 12/11/24

pH	7.90	pH Units	7.91	0.126	20
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Summit Scientific

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Notes and Definitions

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