

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 04, 2025

Daniel Simpson

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: Noble - Wolfe USX CC07-10

Work Order #2501517

Enclosed are the results of analyses for samples received by Summit Scientific on 01/31/25 18:16. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury

President



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@0-6"	2501517-01	Soil	01/31/25 12:15	01/31/25 18:16
BKG01@2'	2501517-02	Soil	01/31/25 12:19	01/31/25 18:16
BKG01@2.5'	2501517-03	Soil	01/31/25 12:21	01/31/25 18:16
BKG01@3'	2501517-04	Soil	01/31/25 12:25	01/31/25 18:16
BKG01@4'	2501517-05	Soil	01/31/25 12:27	01/31/25 18:16
BKG02@0-6"	2501517-06	Soil	01/31/25 12:30	01/31/25 18:16
BKG02@2'	2501517-07	Soil	01/31/25 12:36	01/31/25 18:16
BKG02@2.5'	2501517-08	Soil	01/31/25 12:39	01/31/25 18:16
BKG02@3'	2501517-09	Soil	01/31/25 12:41	01/31/25 18:16
BKG02@4'	2501517-10	Soil	01/31/25 12:43	01/31/25 18:16
BKG03@0-6"	2501517-11	Soil	01/31/25 12:50	01/31/25 18:16
BKG03@2'	2501517-12	Soil	01/31/25 12:55	01/31/25 18:16
BKG03@3'	2501517-13	Soil	01/31/25 13:02	01/31/25 18:16
BKG03@4'	2501517-14	Soil	01/31/25 13:04	01/31/25 18:16
BKG04@0-6"	2501517-15	Soil	01/31/25 13:30	01/31/25 18:16
BKG04@2'	2501517-16	Soil	01/31/25 13:34	01/31/25 18:16
BKG04@2.5'	2501517-17	Soil	01/31/25 13:37	01/31/25 18:16
BKG04@3'	2501517-18	Soil	01/31/25 13:39	01/31/25 18:16
BKG04@4'	2501517-19	Soil	01/31/25 13:41	01/31/25 18:16
BKG05@0-6"	2501517-20	Soil	01/31/25 13:52	01/31/25 18:16
BKG05@2'	2501517-21	Soil	01/31/25 13:56	01/31/25 18:16
BKG05@2.5'	2501517-22	Soil	01/31/25 13:59	01/31/25 18:16
BKG05@3'	2501517-23	Soil	01/31/25 14:02	01/31/25 18:16
BKG05@4'	2501517-24	Soil	01/31/25 14:07	01/31/25 18:16
BKG06@0-6"	2501517-25	Soil	01/31/25 14:22	01/31/25 18:16
BKG06@2'	2501517-26	Soil	01/31/25 14:30	01/31/25 18:16
BKG06@2.5'	2501517-27	Soil	01/31/25 14:33	01/31/25 18:16

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG06@3'	2501517-28	Soil	01/31/25 14:36	01/31/25 18:16
BKG06@4'	2501517-29	Soil	01/31/25 14:40	01/31/25 18:16
BKG03@2.5'	2501517-30	Soil	01/31/25 12:58	01/31/25 18:16

Client: Tasman, Inc.		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Daniel Simpson		Company: <i>Noble</i>	
City/State/Zip: Broomfield / CO / 80020		E-Mail: tas-chevron-5@tasman-geo.com		Project Name/Location: <i>Waite USX CC7-10</i>	
Phone: 303-487-1228		RBUEUF27@chevron.com, Jason.davidson@chevron.com		AFE#: <i>UWRWE-A3645-ABN</i>	
Sampler Name: Wyatt Wadleigh		Project Name: <i>Waite-USX CC7-10</i>		PO/Billing Codes:	
		Project Number:		Contact: <i>Mike Montoya</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		
1	<i>BK601@0-6"</i>	<i>01/31/25</i>	<i>1215</i>	<i>1</i>			<i>X</i>			<i>X</i>						<i>X</i>	<i>X</i>			SAR, EC, pH by saturated paste	
2	<i>BK601@2'</i>		<i>1219</i>																		
3	<i>BK601@2.5'</i>		<i>1221</i>																		
4	<i>BK601@3'</i>		<i>1225</i>																		
5	<i>BK601@4'</i>		<i>1227</i>																		
6	<i>BK602@0-6"</i>		<i>1230</i>																		
7	<i>BK602@2'</i>		<i>1236</i>																		
8	<i>BK602@2.5'</i>		<i>1239</i>																		
9	<i>BK602@3'</i>		<i>1241</i>																		
10	<i>BK602@4'</i>		<i>1243</i>																		
11	<i>BK603@0-6"</i>		<i>1250</i>																		
12	<i>BK603@2'</i>		<i>1255</i>																		
13	<i>BK603@3'</i>		<i>1302</i>																		
14	<i>BK603@4'</i>		<i>1304</i>																		
15	<i>BK604@0-6"</i>		<i>1330</i>																		

Relinquished by: <i>WFW</i>	Date/Time: <i>01/31/25 1130</i>	Received by: <i>Tasman Lab box</i>	Date/Time: <i>01/31/25 1730</i>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <i>Tasman/USX</i>	Date/Time: <i>1325 1810</i>	Received by: <i>[Signature]</i>	Date/Time: <i>1325 1810</i>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <i>2.4</i>	Corrected Temperature <i>0</i>	IR gun #: <i>1</i>	HNO3 lot #:			

		Send Data To:	Send Invoice To:
Client: Tasman, Inc.	Project Manager: Daniel Simpson		Company: No31C
Address: 6855 W. 119th Ave.	E-Mail: tas-chevron-5@tasman-geo.com		Project Name/Location: Walte USX C07-10
City/State/Zip: Broomfield / CO / 80020	RBUEUF27@chevron.com, Jason.davidson@chevron.com		AFE#: UWRWE-A3645-ABN
Phone: 303-487-1228	Project Name: Walte USX C07-10		PO/Billing Codes:
Sampler Name: Wyatt Wadleigh	Project Number:		Contact: Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	
1	BK601 Q2'	01/31/25	1334	1			X			X					X	X		SAR, EC, pH by saturated paste	
2	BK601 Q2.5'		1337																
3	BK601 Q3'		1339																
4	BK604 Q1'		1341																
5	BK605 Q0-6"		1352																
6	BK605 Q2'		1356																
7	BK605 Q2.5		1359																
8	BK605 Q3'		1402																
9	BK605 Q1		1407																
10	BK606 Q0-6"		1422																
11	BK606 Q2'		1430																
12	BK606 Q2.5'		1433																
13	BK606 Q3'		1436																
14	BK606 Q4'		1440																
15	BK603 Q2.5'		1258																

Relinquished by: <i>W/W</i>	Date/Time: 01/31/25 1130	Received by: <i>Tasman Lab 20X</i>	Date/Time: 01/31/25 1730	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <i>Tasman Lab 20X</i>	Date/Time: 13125 1810	Received by: <i>[Signature]</i>	Date/Time: 13125 1910	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 2.0	Corrected Temperature: <i>E</i>	IR gun #: 1	HNO3 lot #:			



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG01@0-6"
2501517-01 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.625	0.200		mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	80.9	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.76	0.400		"	"	"	"	"	"	
Lead	7.61	0.200		"	"	"	"	"	"	
Nickel	1.59	0.400		"	"	"	"	"	"	
Silver	0.0396	0.0200		"	"	"	"	"	"	
Zinc	11.4	0.400		"	"	"	"	"	"	
Selenium	0.299	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	63.0	0.0500		mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	9.29	0.0500		"	"	"	"	"	"	
Sodium	26.2	0.0500		"	"	"	"	"	"	

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Reported:
04/04/25 10:21

BKG01@0-6''
2501517-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.815	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.567	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.63		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

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Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG01@2'
2501517-02 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.448	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	44.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.04	0.400	"	"	"	"	"	"	
Lead	3.35	0.200	"	"	"	"	"	"	
Nickel	1.01	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	3.99	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	114	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	45.5	0.0500	"	"	"	"	"	"	
Sodium	87.1	0.0500	"	"	"	"	"	"	

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Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG01@2'
2501517-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.74	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.29	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

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Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG01@2.5'
2501517-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.439	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	50.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.13	0.400	"	"	"	"	"	"	
Lead	3.87	0.200	"	"	"	"	"	"	
Nickel	1.03	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.27	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	134	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	46.5	0.0500	"	"	"	"	"	"	
Sodium	97.3	0.0500	"	"	"	"	"	"	

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4725 Independence St.
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Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG01@2.5'
2501517-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.85	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.45	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

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4725 Independence St.
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Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG01@3'
2501517-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.522	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	58.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.85	0.400	"	"	"	"	"	"	
Lead	5.00	0.200	"	"	"	"	"	"	
Nickel	1.29	0.400	"	"	"	"	"	"	
Silver	0.0250	0.0200	"	"	"	"	"	"	
Zinc	7.43	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	105	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	35.8	0.0500	"	"	"	"	"	"	
Sodium	108	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG01@3'
2501517-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.32	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.29	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG01@4'
2501517-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.522	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	65.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.27	0.400	"	"	"	"	"	"	
Lead	4.31	0.200	"	"	"	"	"	"	
Nickel	1.21	0.400	"	"	"	"	"	"	
Silver	0.0250	0.0200	"	"	"	"	"	"	
Zinc	4.74	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	81.7	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	27.1	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG01@4'
2501517-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.74	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.06	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@0-6''
2501517-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.644	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	119	0.400	"	"	"	"	"	"	
Cadmium	0.263	0.200	"	"	"	"	"	"	
Copper	3.38	0.400	"	"	"	"	"	"	
Lead	10.4	0.200	"	"	"	"	"	"	
Nickel	1.83	0.400	"	"	"	"	"	"	
Silver	0.0482	0.0200	"	"	"	"	"	"	
Zinc	12.6	0.400	"	"	"	"	"	"	
Selenium	0.383	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	115	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	46.1	0.0500	"	"	"	"	"	"	
Sodium	166	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@0-6''
2501517-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.31	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.70	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.23		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@2'
2501517-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.854	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	175	0.400	"	"	"	"	"	"	
Cadmium	0.253	0.200	"	"	"	"	"	"	
Copper	2.52	0.400	"	"	"	"	"	"	
Lead	12.2	0.200	"	"	"	"	"	"	
Nickel	2.24	0.400	"	"	"	"	"	"	
Silver	0.0920	0.0200	"	"	"	"	"	"	
Zinc	8.91	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	261	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	93.3	0.0500	"	"	"	"	"	"	
Sodium	280	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@2'
2501517-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.79	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.7		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.50	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@2.5'
2501517-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.863	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	177	0.400	"	"	"	"	"	"	
Cadmium	0.246	0.200	"	"	"	"	"	"	
Copper	2.50	0.400	"	"	"	"	"	"	
Lead	11.9	0.200	"	"	"	"	"	"	
Nickel	2.21	0.400	"	"	"	"	"	"	
Silver	0.0836	0.0200	"	"	"	"	"	"	
Zinc	8.83	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	211	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	75.1	0.0500	"	"	"	"	"	"	
Sodium	242	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@2.5'
2501517-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.64	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.17	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.65		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@3'
2501517-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.855	0.200		mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	167	0.400		"	"	"	"	"	"	
Cadmium	0.205	0.200		"	"	"	"	"	"	
Copper	2.40	0.400		"	"	"	"	"	"	
Lead	10.7	0.200		"	"	"	"	"	"	
Nickel	2.12	0.400		"	"	"	"	"	"	
Silver	0.0796	0.0200		"	"	"	"	"	"	
Zinc	8.57	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	259	0.0500		mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	85.8	0.0500		"	"	"	"	"	"	
Sodium	234	0.0500		"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@3'
2501517-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.22	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.33	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.64		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@4'
2501517-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.467	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	61.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.21	0.400	"	"	"	"	"	"	
Lead	3.70	0.200	"	"	"	"	"	"	
Nickel	1.06	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.82	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	132	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	46.3	0.0500	"	"	"	"	"	"	
Sodium	116	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG02@4'
2501517-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.21	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.5		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.46	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

**BKG03@0-6''
2501517-11 (Soil)**

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.671	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	146	0.400	"	"	"	"	"	"	
Cadmium	0.321	0.200	"	"	"	"	"	"	
Copper	3.36	0.400	"	"	"	"	"	"	
Lead	12.6	0.200	"	"	"	"	"	"	
Nickel	1.98	0.400	"	"	"	"	"	"	
Silver	0.0621	0.0200	"	"	"	"	"	"	
Zinc	12.8	0.400	"	"	"	"	"	"	
Selenium	0.395	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	103	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	42.6	0.0500	"	"	"	"	"	"	
Sodium	166	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG03@0-6''
2501517-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.47	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.54	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG03@2'
2501517-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.738	0.200	mg/kg dry	1	BIC0786	03/13/25	04/01/25	EPA 6020B	
Barium	160	0.400	"	"	"	"	"	"	
Cadmium	0.274	0.200	"	"	"	"	"	"	
Copper	2.57	0.400	"	"	"	"	"	"	
Lead	11.5	0.200	"	"	"	"	"	"	
Nickel	2.11	0.400	"	"	"	"	"	"	
Silver	0.0695	0.0200	"	"	"	"	"	"	
Zinc	8.80	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	357	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	103	0.0500	"	"	"	"	"	"	
Sodium	341	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG03@2'
2501517-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.09	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.46	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.75		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG03@3'
2501517-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.716	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	123	0.400	"	"	"	"	"	"	
Cadmium	0.236	0.200	"	"	"	"	"	"	
Copper	2.78	0.400	"	"	"	"	"	"	
Lead	11.0	0.200	"	"	"	"	"	"	
Nickel	2.27	0.400	"	"	"	"	"	"	
Silver	0.0587	0.0200	"	"	"	"	"	"	
Zinc	9.41	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	264	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	87.1	0.0500	"	"	"	"	"	"	
Sodium	307	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG03@3'
2501517-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.19	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.9		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.83	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG03@4'
2501517-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.706	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	89.8	0.400	"	"	"	"	"	"	
Cadmium	0.276	0.200	"	"	"	"	"	"	
Copper	2.80	0.400	"	"	"	"	"	"	
Lead	11.4	0.200	"	"	"	"	"	"	
Nickel	2.20	0.400	"	"	"	"	"	"	
Silver	0.0843	0.0200	"	"	"	"	"	"	
Zinc	9.69	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	167	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	52.5	0.0500	"	"	"	"	"	"	
Sodium	349	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG03@4'
2501517-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.04	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.50	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG04@0-6''
2501517-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.620	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	70.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.64	0.400	"	"	"	"	"	"	
Lead	5.43	0.200	"	"	"	"	"	"	
Nickel	1.66	0.400	"	"	"	"	"	"	
Silver	0.0324	0.0200	"	"	"	"	"	"	
Zinc	7.02	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	118	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	42.5	0.0500	"	"	"	"	"	"	
Sodium	158	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

**BKG04@0-6''
2501517-15 (Soil)**

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.17	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.3		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.66	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG04@2'
2501517-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.632	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	71.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.61	0.400	"	"	"	"	"	"	
Lead	6.31	0.200	"	"	"	"	"	"	
Nickel	1.68	0.400	"	"	"	"	"	"	
Silver	0.0310	0.0200	"	"	"	"	"	"	
Zinc	10.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	71.4	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	24.1	0.0500	"	"	"	"	"	"	
Sodium	75.7	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG04@2'
2501517-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.98	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.2		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.28	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG04@2.5'
2501517-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.613	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	72.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.95	0.400	"	"	"	"	"	"	
Lead	6.04	0.200	"	"	"	"	"	"	
Nickel	1.54	0.400	"	"	"	"	"	"	
Silver	0.0311	0.0200	"	"	"	"	"	"	
Zinc	7.91	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	73.8	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	24.4	0.0500	"	"	"	"	"	"	
Sodium	77.1	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG04@2.5'
2501517-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.99	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.2		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.898	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.64		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG04@3'
2501517-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:39**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:39**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.531	0.200		mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	58.9	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.40	0.400		"	"	"	"	"	"	
Lead	4.63	0.200		"	"	"	"	"	"	
Nickel	1.51	0.400		"	"	"	"	"	"	
Silver	0.0248	0.0200		"	"	"	"	"	"	
Zinc	6.06	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:39**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:39**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	140	0.0500		mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	46.7	0.0500		"	"	"	"	"	"	
Sodium	110	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG04@3'
2501517-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.06	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.8		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.65	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG04@4'
2501517-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.709	0.200		mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	201	0.400		"	"	"	"	"	"	
Cadmium	0.204	0.200		"	"	"	"	"	"	
Copper	1.54	0.400		"	"	"	"	"	"	
Lead	7.25	0.200		"	"	"	"	"	"	
Nickel	2.14	0.400		"	"	"	"	"	"	
Silver	0.0352	0.0200		"	"	"	"	"	"	
Zinc	7.87	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	150	0.0500		mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	52.4	0.0500		"	"	"	"	"	"	
Sodium	117	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG04@4'
2501517-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.10	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.39	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

**BKG05@0-6''
2501517-20 (Soil)**

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0019	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.553	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	62.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.69	0.400	"	"	"	"	"	"	
Lead	6.05	0.200	"	"	"	"	"	"	
Nickel	1.45	0.400	"	"	"	"	"	"	
Silver	0.0235	0.0200	"	"	"	"	"	"	
Zinc	13.4	0.400	"	"	"	"	"	"	
Selenium	0.327	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0541	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	33.0	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	13.7	0.0500	"	"	"	"	"	"	
Sodium	52.3	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG05@0-6''
2501517-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.93	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.9		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.592	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG05@2'
2501517-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.523	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	60.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.52	0.400	"	"	"	"	"	"	
Lead	4.39	0.200	"	"	"	"	"	"	
Nickel	1.35	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.12	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	147	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	48.6	0.0500	"	"	"	"	"	"	
Sodium	96.0	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG05@2'
2501517-21 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.75	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.48	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG05@2.5'
2501517-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 13:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 13:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.498	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	57.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.68	0.400	"	"	"	"	"	"	
Lead	4.69	0.200	"	"	"	"	"	"	
Nickel	1.37	0.400	"	"	"	"	"	"	
Silver	0.0203	0.0200	"	"	"	"	"	"	
Zinc	6.28	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 13:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 13:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	150	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	48.2	0.0500	"	"	"	"	"	"	
Sodium	94.0	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG05@2.5'
2501517-22 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.71	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.2		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.49	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG05@3'
2501517-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 14:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 14:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.480	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	52.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.35	0.400	"	"	"	"	"	"	
Lead	3.95	0.200	"	"	"	"	"	"	
Nickel	1.25	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.40	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 14:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 14:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	111	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	38.5	0.0500	"	"	"	"	"	"	
Sodium	90.0	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG05@3'
2501517-23 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.25	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG05@4'
2501517-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.468	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	47.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.20	0.400	"	"	"	"	"	"	
Lead	3.31	0.200	"	"	"	"	"	"	
Nickel	1.17	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.92	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	106	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	35.3	0.0500	"	"	"	"	"	"	
Sodium	87.6	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG05@4'
2501517-24 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.20	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@0-6''
2501517-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 14:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 14:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.548	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	76.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.46	0.400	"	"	"	"	"	"	
Lead	7.09	0.200	"	"	"	"	"	"	
Nickel	1.50	0.400	"	"	"	"	"	"	
Silver	0.0269	0.0200	"	"	"	"	"	"	
Zinc	12.8	0.400	"	"	"	"	"	"	
Selenium	0.298	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 14:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 14:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	73.2	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	28.8	0.0500	"	"	"	"	"	"	
Sodium	95.6	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@0-6''
2501517-25 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.40	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.2		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.08	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.64		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@2'
2501517-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.807	0.200		mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	83.9	0.400		"	"	"	"	"	"	
Cadmium	0.221	0.200		"	"	"	"	"	"	
Copper	2.69	0.400		"	"	"	"	"	"	
Lead	7.36	0.200		"	"	"	"	"	"	
Nickel	1.52	0.400		"	"	"	"	"	"	
Silver	0.0294	0.0200		"	"	"	"	"	"	
Zinc	10.1	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	268	0.0500		mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	89.5	0.0500		"	"	"	"	"	"	
Sodium	227	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@2'
2501517-26 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.07	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.3		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.78	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.28		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@2.5'
2501517-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 14:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 14:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.591	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	78.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.70	0.400	"	"	"	"	"	"	
Lead	7.02	0.200	"	"	"	"	"	"	
Nickel	1.54	0.400	"	"	"	"	"	"	
Silver	0.0233	0.0200	"	"	"	"	"	"	
Zinc	6.53	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 14:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 14:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	237	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	75.7	0.0500	"	"	"	"	"	"	
Sodium	196	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@2.5'
2501517-27 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 14:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.84	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 14:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.5		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 14:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.47	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 14:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@3'
2501517-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 14:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 14:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.439	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	48.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.26	0.400	"	"	"	"	"	"	
Lead	3.61	0.200	"	"	"	"	"	"	
Nickel	1.14	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.85	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 14:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 14:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	213	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	59.2	0.0500	"	"	"	"	"	"	
Sodium	117	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@3'
2501517-28 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 14:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.83	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 14:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 14:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.89	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 14:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@4'
2501517-29 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.389	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	44.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.22	0.400	"	"	"	"	"	"	
Lead	3.36	0.200	"	"	"	"	"	"	
Nickel	1.10	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.80	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	149	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	38.5	0.0500	"	"	"	"	"	"	
Sodium	105	0.0500	"	"	"	"	"	"	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG06@4'
2501517-29 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.98	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.50	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG03@2.5'
2501517-30 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/25 12:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0020	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/25 12:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.755	0.200	mg/kg dry	1	BIC0788	03/13/25	03/29/25	EPA 6020B	
Barium	140	0.400	"	"	"	"	"	"	
Cadmium	0.242	0.200	"	"	"	"	"	"	
Copper	2.55	0.400	"	"	"	"	"	"	
Lead	9.96	0.200	"	"	"	"	"	"	
Nickel	2.08	0.400	"	"	"	"	"	"	
Silver	0.0576	0.0200	"	"	"	"	"	"	
Zinc	9.16	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/25 12:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0542	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/31/25 12:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	379	0.0500	mg/L dry	1	BIB1249	02/21/25	03/02/25	EPA 6020B	
Magnesium	105	0.0500	"	"	"	"	"	"	
Sodium	324	0.0500	"	"	"	"	"	"	

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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10
Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

BKG03@2.5'
2501517-30 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/31/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.80	0.00100	units	1	BIC0061	03/03/25	03/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.9		%	1	BIB0553	02/11/25	02/12/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.56	0.0100	mmhos/cm	1	BIB1251	02/21/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/31/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BIB1250	02/21/25	02/24/25	EPA 9045D	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

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

Summit Scientific

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

Batch BIC0019 - EPA 3050B

Blank (BIC0019-BLK1)											Prepared: 03/03/25 Analyzed: 03/13/25	
Boron	ND	2.00	mg/L									
LCS (BIC0019-BS1)											Prepared: 03/03/25 Analyzed: 03/13/25	
Boron	4.94	2.00	mg/L	5.00		98.7	80-120					
Duplicate (BIC0019-DUP1)											Prepared: 03/03/25 Analyzed: 03/13/25	
Boron	0.691	2.00	mg/L		0.586			16.4	20			
Matrix Spike (BIC0019-MS1)											Prepared: 03/03/25 Analyzed: 03/13/25	
Boron	5.77	2.00	mg/L	5.03	0.586	103	75-125					
Matrix Spike Dup (BIC0019-MSD1)											Prepared: 03/03/25 Analyzed: 03/13/25	
Boron	5.69	2.00	mg/L	5.03	0.586	102	75-125	1.27	25			

Batch BIC0020 - EPA 3050B

Blank (BIC0020-BLK1)											Prepared: 03/03/25 Analyzed: 03/13/25	
Boron	ND	2.00	mg/L									
LCS (BIC0020-BS1)											Prepared: 03/03/25 Analyzed: 03/13/25	
Boron	4.76	2.00	mg/L	5.00		95.2	80-120					
Duplicate (BIC0020-DUP1)											Prepared: 03/03/25 Analyzed: 03/13/25	
Boron	0.269	2.00	mg/L		0.280			4.15	20			
Matrix Spike (BIC0020-MS1)											Prepared: 03/03/25 Analyzed: 03/13/25	
Boron	4.99	2.00	mg/L	5.00	0.280	94.2	75-125					

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 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
 Project Manager: Daniel Simpson

Reported:
 04/04/25 10:21

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

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

Batch BIC0020 - EPA 3050B

Matrix Spike Dup (BIC0020-MSD1)

Source: 2501514-01

Prepared: 03/03/25 Analyzed: 03/13/25

Boron	5.47	2.00	mg/L	5.00	0.280	104	75-125	9.14	25	
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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIC0786 - EPA 3050B

Blank (BIC0786-BLK1)

Prepared: 03/13/25 Analyzed: 04/01/25

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

LCS (BIC0786-BS1)

Prepared: 03/13/25 Analyzed: 04/01/25

Arsenic	40.9	0.200	mg/kg wet	41.3	98.9	80-120
Barium	45.0	0.400	"	41.3	109	80-120
Cadmium	2.16	0.200	"	2.07	105	80-120
Copper	41.9	0.400	"	41.3	101	80-120
Lead	23.5	0.200	"	20.7	114	80-120
Nickel	41.5	0.400	"	41.3	100	80-120
Silver	2.20	0.0200	"	2.07	106	80-120
Zinc	41.2	0.400	"	41.3	99.6	80-120
Selenium	4.54	0.260	"	4.13	110	80-120

Duplicate (BIC0786-DUP1)

Source: 2501424-01

Prepared: 03/13/25 Analyzed: 04/01/25

Arsenic	0.813	0.200	mg/kg dry	0.820	0.840	20	
Barium	108	0.400	"	111	2.94	20	
Cadmium	0.0846	0.200	"	0.104	20.6	20	QR-01
Copper	2.21	0.400	"	2.38	7.14	20	
Lead	7.64	0.200	"	8.67	12.7	20	
Nickel	2.03	0.400	"	2.10	3.07	20	
Silver	0.0308	0.0200	"	0.0320	4.00	20	
Zinc	7.55	0.400	"	7.97	5.42	20	
Selenium	ND	0.260	"	ND		20	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIC0786 - EPA 3050B

Matrix Spike (BIC0786-MS1)	Source: 2501424-01			Prepared: 03/13/25 Analyzed: 04/01/25								
Arsenic	11.4	0.200	mg/kg dry	49.7	0.820	21.3	75-125					QM-05
Barium	162	0.400	"	49.7	111	101	75-125					
Cadmium	2.69	0.200	"	2.48	0.104	104	75-125					
Copper	13.1	0.400	"	49.7	2.38	21.6	75-125					QM-05
Lead	32.2	0.200	"	24.8	8.67	94.8	75-125					
Nickel	13.0	0.400	"	49.7	2.10	22.0	75-125					QM-05
Silver	2.60	0.0200	"	2.48	0.0320	103	75-125					
Zinc	19.0	0.400	"	49.7	7.97	22.1	75-125					QM-05
Selenium	4.36	0.260	"	4.97	ND	87.7	75-125					

Matrix Spike Dup (BIC0786-MSD1)	Source: 2501424-01			Prepared: 03/13/25 Analyzed: 04/01/25								
Arsenic	10.4	0.200	mg/kg dry	48.5	0.820	19.8	75-125	8.95	25			QM-05
Barium	165	0.400	"	48.5	111	111	75-125	1.99	25			
Cadmium	2.56	0.200	"	2.42	0.104	101	75-125	5.07	25			
Copper	11.9	0.400	"	48.5	2.38	19.7	75-125	9.25	25			QM-05
Lead	30.6	0.200	"	24.2	8.67	90.4	75-125	5.17	25			
Nickel	11.8	0.400	"	48.5	2.10	20.0	75-125	9.66	25			QM-05
Silver	2.45	0.0200	"	2.42	0.0320	99.6	75-125	6.05	25			
Zinc	17.4	0.400	"	48.5	7.97	19.4	75-125	8.75	25			QM-05
Selenium	4.30	0.260	"	4.85	ND	88.7	75-125	1.24	25			

Batch BIC0788 - EPA 3050B

Blank (BIC0788-BLK1)	Prepared: 03/13/25 Analyzed: 03/31/25											
Arsenic	ND	0.200	mg/kg wet									
Barium	ND	0.400	"									
Cadmium	ND	0.200	"									
Copper	ND	0.400	"									
Lead	ND	0.200	"									
Nickel	ND	0.400	"									
Silver	ND	0.0200	"									
Zinc	ND	0.400	"									
Selenium	ND	0.260	"									

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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIC0788 - EPA 3050B

LCS (BIC0788-BS1)

Prepared: 03/13/25 Analyzed: 03/29/25

Arsenic	40.2	0.200	mg/kg wet	38.5		105	80-120			
Barium	37.9	0.400	"	38.5		98.6	80-120			
Cadmium	1.92	0.200	"	1.92		99.8	80-120			
Copper	41.0	0.400	"	38.5		107	80-120			
Lead	19.7	0.200	"	19.2		103	80-120			
Nickel	40.4	0.400	"	38.5		105	80-120			
Silver	1.92	0.0200	"	1.92		100	80-120			
Zinc	39.8	0.400	"	38.5		104	80-120			
Selenium	4.10	0.260	"	3.85		107	80-120			

Duplicate (BIC0788-DUP1)

Source: 2501517-13

Prepared: 03/13/25 Analyzed: 03/29/25

Arsenic	0.722	0.200	mg/kg dry		0.716			0.810	20	
Barium	154	0.400	"		123			22.3	20	QR-04
Cadmium	0.263	0.200	"		0.236			10.7	20	
Copper	2.78	0.400	"		2.78			0.0872	20	
Lead	11.1	0.200	"		11.0			1.09	20	
Nickel	2.30	0.400	"		2.27			1.51	20	
Silver	0.0655	0.0200	"		0.0587			10.9	20	
Zinc	9.68	0.400	"		9.41			2.84	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BIC0788-MS1)

Source: 2501517-13

Prepared: 03/13/25 Analyzed: 03/29/25

Arsenic	8.39	0.200	mg/kg dry	48.5	0.716	15.8	75-125			QM-05
Barium	199	0.400	"	48.5	123	157	75-125			QM-05
Cadmium	2.72	0.200	"	2.43	0.236	103	75-125			
Copper	10.6	0.400	"	48.5	2.78	16.0	75-125			QM-05
Lead	31.2	0.200	"	24.3	11.0	83.2	75-125			
Nickel	10.0	0.400	"	48.5	2.27	16.0	75-125			QM-05
Silver	2.49	0.0200	"	2.43	0.0587	100	75-125			
Zinc	18.0	0.400	"	48.5	9.41	17.7	75-125			QM-05
Selenium	3.73	0.260	"	4.85	ND	76.9	75-125			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BIC0788 - EPA 3050B

Matrix Spike Dup (BIC0788-MSD1)	Source: 2501517-13			Prepared: 03/13/25 Analyzed: 03/29/25							
Arsenic	7.34	0.200	mg/kg dry	45.9	0.716	14.5	75-125	13.3	25	QM-05	
Barium	204	0.400	"	45.9	123	177	75-125	2.56	25	QM-05	
Cadmium	2.58	0.200	"	2.29	0.236	102	75-125	5.45	25		
Copper	9.51	0.400	"	45.9	2.78	14.7	75-125	10.5	25	QM-05	
Lead	29.9	0.200	"	22.9	11.0	82.4	75-125	4.25	25		
Nickel	9.09	0.400	"	45.9	2.27	14.9	75-125	9.76	25	QM-05	
Silver	2.33	0.0200	"	2.29	0.0587	99.2	75-125	6.35	25		
Zinc	16.8	0.400	"	45.9	9.41	16.2	75-125	6.54	25	QM-05	
Selenium	3.43	0.260	"	4.59	ND	74.9	75-125	8.27	25	QM-05	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Wolfe USX CC07-10

Project Number: UWRWE-A3645-ABN
Project Manager: Daniel Simpson

Reported:
04/04/25 10:21

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIB0541 - 3060A Mod

Blank (BIB0541-BLK1)											
Prepared: 02/11/25 Analyzed: 02/12/25											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BIB0541-BS1)											
Prepared: 02/11/25 Analyzed: 02/12/25											
Chromium, Hexavalent	24.5	0.30	mg/kg wet	24.0		102	80-120				
Duplicate (BIB0541-DUP1)											
Source: 2501517-01 Prepared: 02/11/25 Analyzed: 02/12/25											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BIB0541-MS1)											
Source: 2501517-01 Prepared: 02/11/25 Analyzed: 02/12/25											
Chromium, Hexavalent	28.2	0.30	mg/kg dry	28.3	ND	99.8	75-125				
Matrix Spike Dup (BIB0541-MSD1)											
Source: 2501517-01 Prepared: 02/11/25 Analyzed: 02/12/25											
Chromium, Hexavalent	25.9	0.30	mg/kg dry	28.3	ND	91.6	75-125	8.57		20	

Batch BIB0542 - 3060A Mod

Blank (BIB0542-BLK1)											
Prepared: 02/11/25 Analyzed: 02/12/25											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BIB0542-BS1)											
Prepared: 02/11/25 Analyzed: 02/12/25											
Chromium, Hexavalent	24.5	0.30	mg/kg wet	24.5		100	80-120				
Duplicate (BIB0542-DUP1)											
Source: 2501504-01 Prepared: 02/11/25 Analyzed: 02/12/25											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BIB0542-MS1)											
Source: 2501504-01 Prepared: 02/11/25 Analyzed: 02/12/25											
Chromium, Hexavalent	26.9	0.30	mg/kg dry	30.9	ND	87.0	75-125				

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Hexavalent Chromium by EPA Method 7196 - Quality Control

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

Batch BIB0542 - 3060A Mod

Matrix Spike Dup (BIB0542-MSD1)

Source: 2501504-01

Prepared: 02/11/25 Analyzed: 02/12/25

Chromium, Hexavalent	25.8	0.30	mg/kg dry	29.7	ND	87.0	75-125	4.08	20	
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Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BIB1249 - General Preparation

Blank (BIB1249-BLK1)

Prepared: 02/21/25 Analyzed: 03/02/25

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

LCS (BIB1249-BS1)

Prepared: 02/21/25 Analyzed: 03/02/25

Calcium	5.22	0.0500	mg/L wet	5.00		104	70-130			
Magnesium	4.32	0.0500	"	5.00		86.5	70-130			
Sodium	4.67	0.0500	"	5.00		93.4	70-130			

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

Summit Scientific

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

Batch BIB0553 - General Preparation

Duplicate (BIB0553-DUP1)

Source: 2501517-01

Prepared: 02/11/25 Analyzed: 02/12/25

% Solids	88.3		%		88.4			0.189	20	
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BIB1251 - General Preparation

Blank (BIB1251-BLK1)

Prepared: 02/21/25 Analyzed: 02/24/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB1251-BS1)

Prepared: 02/21/25 Analyzed: 02/24/25

Specific Conductance (EC) 1.44 0.0100 mmhos/cm 1.41 102 95-105

Duplicate (BIB1251-DUP1)

Source: 2501517-01

Prepared: 02/21/25 Analyzed: 02/24/25

Specific Conductance (EC) 0.565 0.0100 mmhos/cm 0.567 0.362 20

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

Summit Scientific

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

Batch BIB1250 - General Preparation

LCS (BIB1250-BS1)

Prepared: 02/21/25 Analyzed: 02/24/25

pH	9.24	pH Units	9.18	101	95-105
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Duplicate (BIB1250-DUP1)

Source: 2501517-01

Prepared: 02/21/25 Analyzed: 02/24/25

pH	7.63	pH Units	7.63	0.0236	20
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Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference