



Division of Environmental Testing

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

June 20, 2025

112 High St.
Buffalo, WY 82834
307-262-8975
joel.mason@absarokasolutions.com

Project Manager : Joel Mason/Tad Stout

Project Name : FEO.CO.0701.29

Project Number : 0701.29

Attached are the analytical results for FEO.CO.0701.29 0701.29 received by Elevation Diagnostics, Division of Environmental Testing on June 10, 2025. This is associated with Elevation's number AA24490 .

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

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

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

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


Thank you,

Elevation Diagnostics, Division of Environmental Testing

 Outlook

Re: 6/6/2025 Courier

From Devin Zalace <devin.zalace@absarokasolutions.com>
Date Wed 6/11/2025 7:51 AM
To Stephanie Aldrich <Stephanie@elevationdiagnostics.com>; Dylan Johnson <dylan@elevationdiagnostics.com>
Cc Joel Mason <joel.mason@absarokasolutions.com>; Jordan Fleming <jordan.fleming@absarokasolutions.com>;
Tad Stout <tad.stout@absarokasolutions.com>

 1 attachment (447 KB)
Outlook-cidimage00;

Hi Stephanie,

Oh goodness, that would be my mistake.
Devin Zalace
6/5/2025
18:00

Thank you

Sent from my Verizon, Samsung Galaxy smartphone
Get [Outlook for Android](#)

From: Stephanie Aldrich <Stephanie@elevationdiagnostics.com>
Sent: Wednesday, June 11, 2025 7:42:04 AM
To: Devin Zalace <devin.zalace@absarokasolutions.com>; Dylan Johnson <dylan@elevationdiagnostics.com>
Cc: Joel Mason <joel.mason@absarokasolutions.com>; Jordan Fleming <jordan.fleming@absarokasolutions.com>;
Tad Stout <tad.stout@absarokasolutions.com>
Subject: Re: 6/6/2025 Courier

For the samples we received yesterday, the COC was not signed for relinquishment. Can you please provide who relinquished the samples, on what date and time.

Thank you.

Stephanie Aldrich
Project Manager

Elevation Diagnostics
2115 N Scranton St
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Aurora, CO 80045
Mobile: (607)267-1766
www.elevationdiagnostics.com



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Report Date : 6/20/2025

Report Time : 14:55

FINAL RESULTS REPORT

Project Manager: Joel Mason/Tad Stout

Project Name: FEO.CO.0701.29

Project Number: 0701.29

Sample ID	Customer ID	Collected	Dilution	Result	Units	MDL	Method Ref.	
Analyte Name		Analysis Start					Recovery	
AA24490-1	S32_BG01@4'	Collected : 06/04/2025	10:30					
EC & pH soil by saturated paste - EC, soil		06/12/2025	16:58	0.29	mmhos/cm	0.0005	USDA 60/EPA 9045	
EC & pH soil by saturated paste - pH soil Temperature		06/12/2025	16:58	21.60	°C		USDA 60/EPA 9045	
EC & pH soil by saturated paste - pH, soil		06/12/2025	16:58	8.28	SU	0.01	USDA 60/EPA 9045	
SAR Saturated Paste - Calcium		06/20/2025	12:43	10.00	1.39	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		06/20/2025	12:43	10.00	<0.82	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		06/20/2025	12:43	10.00	1.00	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		06/20/2025	12:43	10.00	1.01	No Unit	EPA 6020B	
AA24490-2	S32_BG01@4'	Collected : 06/04/2025	10:30					
Hot Water Soluble Boron		06/17/2025	06:40	<0.05	mg/kg	0.050	Boron Hot Water Extraction	
AA24490-3	S32_BG01@4'	Collected : 06/04/2025	10:30					
Total Metals, Soils - Arsenic		06/14/2025	17:49	10.00	4.20	mg/kg	0.025	EPA 6020B
AA24491-1	S32_BG01@8'	Collected : 06/04/2025	10:40					
EC & pH soil by saturated paste - EC, soil		06/12/2025	16:16	0.23	mmhos/cm	0.0005	USDA 60/EPA 9045	
EC & pH soil by saturated paste - pH soil Temperature		06/12/2025	16:16	22.00	°C		USDA 60/EPA 9045	
EC & pH soil by saturated paste - pH, soil		06/12/2025	16:16	8.16	SU	0.01	USDA 60/EPA 9045	
SAR Saturated Paste - Calcium		06/13/2025	09:10	10.00	1.01	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		06/13/2025	09:10	10.00	<0.82	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		06/13/2025	09:10	10.00	0.49	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		06/13/2025	09:10	10.00	0.55	No Unit	EPA 6020B	
AA24491-2	S32_BG01@8'	Collected : 06/04/2025	10:40					
Hot Water Soluble Boron		06/17/2025	06:43	<0.05	mg/kg	0.050	Boron Hot Water Extraction	
AA24491-3	S32_BG01@8'	Collected : 06/04/2025	10:40					
Total Metals, Soils - Arsenic		06/14/2025	17:49	10.00	3.87	mg/kg	0.025	EPA 6020B
AA24492-1	S32_BG01@12'	Collected : 06/04/2025	10:50					
EC & pH soil by saturated paste - EC, soil		06/12/2025	16:16	0.23	mmhos/cm	0.0005	USDA 60/EPA 9045	
EC & pH soil by saturated paste - pH soil Temperature		06/12/2025	16:16	22.00	°C		USDA 60/EPA 9045	
EC & pH soil by saturated paste - pH, soil		06/12/2025	16:16	8.10	SU	0.01	USDA 60/EPA 9045	
SAR Saturated Paste - Calcium		06/13/2025	09:10	10.00	0.93	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		06/13/2025	09:10	10.00	<0.82	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		06/13/2025	09:10	10.00	<0.43	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		06/13/2025	09:10	10.00	0.40	No Unit	EPA 6020B	
AA24492-2	S32_BG01@12'	Collected : 06/04/2025	10:50					
Hot Water Soluble Boron		06/17/2025	06:43	0.06	mg/kg	0.050	Boron Hot Water Extraction	
AA24492-3	S32_BG01@12'	Collected : 06/04/2025	10:50					
Total Metals, Soils - Arsenic		06/14/2025	17:49	10.00	2.84	mg/kg	0.025	EPA 6020B
AA24493-1	S32_BG01@16'	Collected : 06/04/2025	11:00					
EC & pH soil by saturated paste - EC, soil		06/12/2025	16:16	0.26	mmhos/cm	0.0005	USDA 60/EPA 9045	
EC & pH soil by saturated paste - pH soil Temperature		06/12/2025	16:16	21.90	°C		USDA 60/EPA 9045	



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FINAL RESULTS REPORT

Project Manager: Joel Mason/Tad Stout

Project Name: FEO.CO.0701.29

Project Number: 0701.29

Sample ID	Customer ID	Collected	Dilution	Result	Units	MDL	Method Ref.
Analyte Name		Analysis Start					Recovery
EC & pH soil by saturated paste - pH, soil		06/12/2025 16:16		8.06	SU	0.01	USDA 60/EPA 9045
SAR Saturated Paste - Calcium		06/13/2025 09:10	10.00	1.17	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		06/13/2025 09:10	10.00	<0.82	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		06/13/2025 09:10	10.00	0.50	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		06/13/2025 09:10	10.00	0.54	No Unit		EPA 6020B
AA24493-2	S32_BG01@16'	Collected : 06/04/2025 11:00					
Hot Water Soluble Boron		06/17/2025 06:43		0.05	mg/kg	0.050	Boron Hot Water Extraction
AA24493-3	S32_BG01@16'	Collected : 06/04/2025 11:00					
Total Metals, Soils - Arsenic		06/14/2025 17:49	10.00	3.09	mg/kg	0.025	EPA 6020B
AA24494-1	S32_BG02@4'	Collected : 06/04/2025 11:15					
EC & pH soil by saturated paste - EC, soil		06/12/2025 16:16		0.28	mmhos/cm	0.0005	USDA 60/EPA 9045
EC & pH soil by saturated paste - pH soil Temperature		06/12/2025 16:16		22.10	°C		USDA 60/EPA 9045
EC & pH soil by saturated paste - pH, soil		06/12/2025 16:16		8.14	SU	0.01	USDA 60/EPA 9045
SAR Saturated Paste - Calcium		06/13/2025 09:10	10.00	1.00	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		06/13/2025 09:10	10.00	<0.82	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		06/13/2025 09:10	10.00	0.49	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		06/13/2025 09:10	10.00	0.57	No Unit		EPA 6020B
AA24494-2	S32_BG02@4'	Collected : 06/04/2025 11:15					
Hot Water Soluble Boron		06/17/2025 06:43		0.05	mg/kg	0.050	Boron Hot Water Extraction
AA24494-3	S32_BG02@4'	Collected : 06/04/2025 11:15					
Total Metals, Soils - Arsenic		06/14/2025 17:49	10.00	2.87	mg/kg	0.025	EPA 6020B
AA24495-1	S32_BG02@8'	Collected : 06/04/2025 11:25					
EC & pH soil by saturated paste - EC, soil		06/12/2025 16:16		0.22	mmhos/cm	0.0005	USDA 60/EPA 9045
EC & pH soil by saturated paste - pH soil Temperature		06/12/2025 16:16		22.00	°C		USDA 60/EPA 9045
EC & pH soil by saturated paste - pH, soil		06/12/2025 16:16		8.18	SU	0.01	USDA 60/EPA 9045
SAR Saturated Paste - Calcium		06/13/2025 09:10	10.00	0.96	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		06/13/2025 09:10	10.00	<0.82	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		06/13/2025 09:10	10.00	<0.43	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		06/13/2025 09:10	10.00	0.50	No Unit		EPA 6020B
AA24495-2	S32_BG02@8'	Collected : 06/04/2025 11:25					
Hot Water Soluble Boron		06/17/2025 06:43		0.07	mg/kg	0.050	Boron Hot Water Extraction
AA24495-3	S32_BG02@8'	Collected : 06/04/2025 11:25					
Total Metals, Soils - Arsenic		06/14/2025 17:49	10.00	3.36	mg/kg	0.025	EPA 6020B
AA24496-1	S32_BG02@12'	Collected : 06/04/2025 11:40					
EC & pH soil by saturated paste - EC, soil		06/12/2025 16:16		0.22	mmhos/cm	0.0005	USDA 60/EPA 9045
EC & pH soil by saturated paste - pH soil Temperature		06/12/2025 16:16		21.90	°C		USDA 60/EPA 9045
EC & pH soil by saturated paste - pH, soil		06/12/2025 16:16		8.16	SU	0.01	USDA 60/EPA 9045
SAR Saturated Paste - Calcium		06/13/2025 09:10	10.00	0.91	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		06/13/2025 09:10	10.00	<0.82	mEq/L	0.82	EPA 6020B



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Project Manager: Joel Mason/Tad Stout

Project Name: FEO.CO.0701.29

Project Number: 0701.29

Sample ID	Customer ID	Collected	Dilution	Result	Units	MDL	Method Ref.
Analyte Name		Analysis Start					Recovery
SAR Saturated Paste - Sodium		06/13/2025 09:10	10.00	<0.43	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		06/13/2025 09:10	10.00	0.36	No Unit		EPA 6020B
AA24496-2	S32_BG02@12'	Collected : 06/04/2025 11:40					
Hot Water Soluble Boron		06/17/2025 06:43		0.06	mg/kg	0.050	Boron Hot Water Extraction
AA24496-3	S32_BG02@12'	Collected : 06/04/2025 11:40					
Total Metals, Soils - Arsenic		06/14/2025 17:49	10.00	3.58	mg/kg	0.025	EPA 6020B
AA24497-1	S32_BG02@16'	Collected : 06/04/2025 12:00					
EC & pH soil by saturated paste - EC, soil		06/12/2025 16:16		0.27	mmhos/cm	0.0005	USDA 60/EPA 9045
EC & pH soil by saturated paste - pH soil Temperature		06/12/2025 16:16		22.90	°C		USDA 60/EPA 9045
EC & pH soil by saturated paste - pH, soil		06/12/2025 16:16		8.03	SU	0.01	USDA 60/EPA 9045
SAR Saturated Paste - Calcium		06/13/2025 09:10	10.00	1.02	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		06/13/2025 09:10	10.00	<0.82	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		06/13/2025 09:10	10.00	0.44	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		06/13/2025 09:10	10.00	0.51	No Unit		EPA 6020B
AA24497-2	S32_BG02@16'	Collected : 06/04/2025 12:00					
Hot Water Soluble Boron		06/17/2025 06:43		0.07	mg/kg	0.050	Boron Hot Water Extraction
Total Metals, Soils - Arsenic		06/14/2025 17:49	10.00	2.79	mg/kg	0.025	EPA 6020B



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FINAL RESULTS REPORT

Report Date : 6/20/2025

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Project Manager: Joel Mason/Tad Stout

Project Name: FEO.CO.0701.29

Project Number: 0701.29

QC Report

QC	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
BORON-9289										
DUP	AA24332	0.90	0.050	mg/kg					1.1	-15 - 15
DUP	AA24363	0.35	0.050	mg/kg					2.9	-15 - 15
DUP	AA24491	<0.05	0.050	mg/kg						
MB	AA24523	0.01		mg/kg						
LCS	AA24524	0.88		mg/kg	1.00		88.0	80 - 120		
LCS	AA24525	10.33		mg/kg	9.00		115	80 - 120		



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Project Number: 0701.29

QC Report

QC	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
EC PH-9326										
AA24490										
Dup	EC, soil	0.30	0.0005	mmhos/cm		0.29			3.39	- 5
Dup	pH soil Temperature	22.6		°C		21.60				
Dup	pH, soil	8.37	0.01	SU		8.28			1.08	- 5
AA24618										
LCS	EC, soil	9.60	0.0005	mmhos/cm			96.0	85 - 115		
LCS	pH, soil	6.84	0.01	SU			99.7	85 - 115		
AA24619										
LCS	EC, soil	9.74	0.0005	mmhos/cm			97.4	85 - 115		
LCS	pH, soil	6.84	0.01	SU			99.7	85 - 115		
EC PH-9327										
AA24491										
Dup	EC, soil	0.23	0.0005	mmhos/cm		0.23			<%MDL%	- 5
Dup	pH soil Temperature	21.9		°C		22.00				
Dup	pH, soil	8.17	0.01	SU		8.16			0.122	- 5
AA24621										
LCS	EC, soil	9.71	0.0005	mmhos/cm			97.1	85 - 115		
LCS	pH, soil	6.83	0.01	SU			99.6	85 - 115		
AA24622										
LCS	EC, soil	9.75	0.0005	mmhos/cm			97.5	85 - 115		
LCS	pH, soil	6.88	0.01	SU			100	85 - 115		
METALS S-9321										
AA24495										
Dup	Arsenic	3.27	0.025	mg/kg		3.36			2.71	0 - 15
Matrix Spike	Arsenic	22.39		mg/kg	20	3.36	95.2	80 - 120		
AA24550										
Dup	Arsenic	4.26	0.025	mg/kg		4.64			8.54	0 - 15
Dup	Barium	212.89	0.025	mg/kg		224.58			5.34	0 - 15
Dup	Cadmium	0.19	0.001	mg/kg		0.21			10.0	0 - 15
Dup	Copper	9.28	0.025	mg/kg		10.01			7.57	0 - 15
Dup	Lead	9.00	0.025	mg/kg		9.80			8.51	0 - 15
Dup	Nickel	9.18	0.025	mg/kg		9.90			7.55	0 - 15
Dup	Selenium	1.95	0.025	mg/kg		1.82			6.90	0 - 15
Dup	Silver	<0.25	0.25	mg/kg		<0.25				
Dup	Zinc	37.16	0.025	mg/kg		39.37			5.78	0 - 15
Matrix Spike	Arsenic	22.49		mg/kg	20	4.64	89.2	80 - 120		
Matrix Spike	Barium	242.42		mg/kg	20	224.58	89.2	80 - 120		
Matrix Spike	Cadmium	18.16		mg/kg	20	0.21	89.8	80 - 120		
Matrix Spike	Copper	26.56		mg/kg	20	10.01	82.8	80 - 120		
Matrix Spike	Lead	29.07		mg/kg	20	9.80	96.4	80 - 120		
Matrix Spike	Nickel	27.01		mg/kg	20	9.90	85.6	80 - 120		
Matrix Spike	Selenium	20.19		mg/kg	20	1.82	91.8	80 - 120		
Matrix Spike	Silver	17.80		mg/kg	20	<0.25	89.0	80 - 120		
Matrix Spike	Zinc	58.60		mg/kg	20	39.37	96.2	80 - 120		



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Project Number: 0701.29

QC Report

QC	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
AA24606										
MB	Arsenic	0.00		mg/kg						
MB	Barium	0.00		mg/kg						
MB	Cadmium	0.00		mg/kg						
MB	Copper	0.00		mg/kg						
MB	Lead	0.00		mg/kg						
MB	Nickel	0.00		mg/kg						
MB	Selenium	0.00		mg/kg						
MB	Silver	0.00		mg/kg						
MB	Zinc	0.00		mg/kg						
AA24608										
LCS	Arsenic	0.10		mg/kg			100	80 - 120		
LCS	Barium	0.10		mg/kg			100	80 - 120		
LCS	Cadmium	0.10		mg/kg			100	80 - 120		
LCS	Copper	0.10		mg/kg			100	80 - 120		
LCS	Lead	0.10		mg/kg			100	80 - 120		
LCS	Nickel	0.10		mg/kg			100	80 - 120		
LCS	Selenium	0.10		mg/kg			100	80 - 120		
LCS	Silver	0.11		mg/kg			110	80 - 120		
LCS	Zinc	0.10		mg/kg			100	80 - 120		
AA24609										
LCS	Arsenic	0.10		mg/kg			100	80 - 120		
LCS	Barium	0.10		mg/kg			100	80 - 120		
LCS	Cadmium	0.10		mg/kg			100	80 - 120		
LCS	Copper	0.10		mg/kg			100	80 - 120		
LCS	Lead	0.10		mg/kg			100	80 - 120		
LCS	Nickel	0.10		mg/kg			100	80 - 120		
LCS	Selenium	0.10		mg/kg			100	80 - 120		
LCS	Silver	0.11		mg/kg			110	80 - 120		
LCS	Zinc	0.10		mg/kg			100	80 - 120		
SAR-9329										
AA24490										
Dup	Calcium	1.26		mEq/L	1.26	1.39			9.81	- 20
Dup	Magnesium	<0.82		mEq/L	<0.82	<0.82				
Dup	Sodium	0.88		mEq/L	0.88	1.00			12.8	- 20
Dup	Sodium Adsorption Ratio	0.94		mEq/L	0.94	1.01			7.18	- 20
AA24623										
MB	Calcium	0.00		mEq/L						
MB	Magnesium	0.00		mEq/L						
MB	Sodium	0.00		mEq/L						
MB	Sodium Adsorption Ratio	0.00								
AA24624										
LCS	Calcium	11.10		ppm			111	80 - 120		
LCS	Magnesium	11.68		ppm			117	80 - 120		
LCS	Sodium	10.96		ppm			110	80 - 120		
LCS	Sodium Adsorption Ratio	0.55		ppm			102	80 - 120		



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QC Report

QC	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
AA24625										
LCS	Calcium	446.51		ppm			89.3	80 - 120		
LCS	Magnesium	468.35		ppm			93.7	80 - 120		
LCS	Sodium	446.97		ppm			89.4	80 - 120		
LCS	Sodium Adsorption Ratio	3.53		ppm			93.4	80 - 120		

SAR-9334

AA24491

Dup	Calcium	0.90		mEq/L	11.5	1.01			11.5	- 20
Dup	Magnesium	<0.82		mEq/L	<0.82	<0.82				
Dup	Sodium	0.44		mEq/L	10.8	0.49			10.8	- 20
Dup	Sodium Adsorption Ratio	0.53		mEq/L	3.70	0.55			3.70	- 20

AA24630

MB	Calcium	0.00		mEq/L						
MB	Magnesium	0.00		mEq/L						
MB	Sodium	0.00		mEq/L						
MB	Sodium Adsorption Ratio	0.00								

AA24631

LCS	Calcium	11.10		ppm			111	80 - 120		
LCS	Magnesium	11.68		ppm			117	80 - 120		
LCS	Sodium	10.96		ppm			110	80 - 120		
LCS	Sodium Adsorption Ratio	0.55		ppm			102	80 - 120		

AA24632

LCS	Calcium	446.51		ppm			89.3	80 - 120		
LCS	Magnesium	468.35		ppm			93.7	80 - 120		
LCS	Sodium	446.97		ppm			89.4	80 - 120		
LCS	Sodium Adsorption Ratio	3.53		ppm			93.4	80 - 120		