



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

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April 02, 2026

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

**Project Manager :** Joel Mason/Todd Mayo

**Project Name :** Williams 31-11 #7

**Project Number :** CIT.CO.1054

Attached are the analytical results for Williams 31-11 #7 CIT.CO.1054 received by Elevation Diagnostics, Division of Environmental Testing on March 27, 2026. This is associated with Elevation's number AA46398 .

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





# Chain of Custody Form


# Elevation Diagnostics

2115 North Scranton Street Suite 3040A Aurora, CO 80045  
800.440.5184

Client: Absaroka Energy & Environmental Solutions  
 Address: 112 High Street  
 City/State/ZIP: Buffalo, Wyoming 82834  
 Phone: (307) 262-8975, (970) 815-85993  
 Project Contact: Joel Mason / Todd Mayo

Project Name/Number: CIT.CO.1054  
 Project Location: Williams 31-11 #7  
 Collector Name: Dylan Mullins

Sample ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Interim report requested	
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Other	pH	SAR	EC	Arsenic	Barium	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1	BKG03@2'	3/26/2026	11:30	2			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Notes pH, SAR, EC, Arsenic, and Barium  AA46398-1  AA46399-1  AA46400-1  AA46401-1
2	BKG03@5'	3/26/2026	11:40	2			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3	BKG04@2'	3/26/2026	11:50	2			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4	BKG04@5'	3/26/2026	12:00	2			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished By: <b>D. Mullins</b> Date/Time: <b>3.27.26 / 9:30</b>	Relinquished By: Date/Time:	Relinquished By: Date/Time:	Scan to Deliver Samples  EFOR-008.005
Lab Use Only Observed Temperature Upon Receipt: <u>6.1°C</u> Corrected Temperature Upon Receipt: <u>5.6°C</u> Thermometer #: <u>EDX EG 351</u> Correction Factor: <u>-0.5°C</u> AN	Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No pH Checked: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No pH Adjusted: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PFAS rec'd on ice: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name/Lot Number of Adjustment: <u>MA</u>	No <u>2026-03-27-015</u> Lot/EQM Number: <u>MA</u> DET	



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**Report Date :** 4/2/2026

**Report Time :** 15:06

**FINAL RESULTS REPORT**

**Project Manager:** Joel Mason/Todd Mayo

**Project Name:** Williams 31-11 #7

**Project Number:** CIT.CO.1054

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name	Result Date/Time						Recovery
<b>AA46398-1</b>	BKG03@2'	<b>Collected :</b> 03/26/2026	11:30				
EC & pH soil by saturated paste - EC, soil		03/31/2026	17:23	0.91	mmhos/cm	0.0005	USDA 60/EPA 9045
EC & pH soil by saturated paste - pH soil Temperature		03/31/2026	17:23	19.70	°C		USDA 60/EPA 9045
EC & pH soil by saturated paste - pH, soil		03/31/2026	17:23	8.33	SU	0.01	USDA 60/EPA 9045
SAR Saturated Paste - Calcium		04/02/2026	09:35 10.00	1.33	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		04/02/2026	09:35 10.00	<0.82	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		04/02/2026	09:35 10.00	5.34	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		04/02/2026	09:35 10.00	5.23	No Unit		EPA 6020B
<b>AA46398-2</b>	BKG03@2'	<b>Collected :</b> 03/26/2026	11:30				
Total Metals, Soils - Arsenic		03/31/2026	13:21 10.00	5.77	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		03/31/2026	13:21 10.00	224.36	mg/kg	0.025	EPA 6020B
<b>AA46399-1</b>	BKG03@5'	<b>Collected :</b> 03/26/2026	11:40				
EC & pH soil by saturated paste - EC, soil		03/31/2026	17:23	3.71	mmhos/cm	0.0005	USDA 60/EPA 9045
EC & pH soil by saturated paste - pH soil Temperature		03/31/2026	17:23	20.20	°C		USDA 60/EPA 9045
EC & pH soil by saturated paste - pH, soil		03/31/2026	17:23	8.06	SU	0.01	USDA 60/EPA 9045
SAR Saturated Paste - Calcium		04/02/2026	09:35 10.00	8.91	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		04/02/2026	09:35 10.00	4.43	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		04/02/2026	09:35 10.00	18.31	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		04/02/2026	09:35 10.00	7.09	No Unit		EPA 6020B
<b>AA46399-2</b>	BKG03@5'	<b>Collected :</b> 03/26/2026	11:40				
Total Metals, Soils - Arsenic		03/31/2026	13:21 10.00	6.56	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		03/31/2026	13:21 10.00	311.47	mg/kg	0.025	EPA 6020B
<b>AA46400-1</b>	BKG04@2'	<b>Collected :</b> 03/26/2026	11:50				
EC & pH soil by saturated paste - EC, soil		03/31/2026	17:23	0.78	mmhos/cm	0.0005	USDA 60/EPA 9045
EC & pH soil by saturated paste - pH soil Temperature		03/31/2026	17:23	19.70	°C		USDA 60/EPA 9045
EC & pH soil by saturated paste - pH, soil		03/31/2026	17:23	8.03	SU	0.01	USDA 60/EPA 9045
SAR Saturated Paste - Calcium		04/02/2026	09:35 10.00	5.26	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		04/02/2026	09:35 10.00	1.34	mEq/L	0.82	EPA 6020B
SAR Saturated Paste - Sodium		04/02/2026	09:35 10.00	1.25	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		04/02/2026	09:35 10.00	0.69	No Unit		EPA 6020B
<b>AA46400-2</b>	BKG04@2'	<b>Collected :</b> 03/26/2026	11:50				
Total Metals, Soils - Arsenic		03/31/2026	13:21 10.00	4.41	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		03/31/2026	13:21 10.00	72.49	mg/kg	0.025	EPA 6020B
<b>AA46401-1</b>	BKG04@5'	<b>Collected :</b> 03/26/2026	12:00				
EC & pH soil by saturated paste - EC, soil		03/31/2026	17:23	0.84	mmhos/cm	0.0005	USDA 60/EPA 9045
EC & pH soil by saturated paste - pH soil Temperature		03/31/2026	17:23	19.80	°C		USDA 60/EPA 9045
EC & pH soil by saturated paste - pH, soil		03/31/2026	17:23	8.10	SU	0.01	USDA 60/EPA 9045
SAR Saturated Paste - Calcium		04/02/2026	09:35 10.00	4.08	mEq/L	0.50	EPA 6020B
SAR Saturated Paste - Magnesium		04/02/2026	09:35 10.00	1.86	mEq/L	0.82	EPA 6020B



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**FINAL RESULTS REPORT**

**Project Manager:** Joel Mason/Todd Mayo

**Project Name:** Williams 31-11 #7

**Project Number:** CIT.CO.1054

Sample ID	Customer ID	Collected		Dilution	Result	Units	RL	Method Ref.
Analyte Name		Result Date/Time						Recovery
SAR Saturated Paste - Sodium		04/02/2026	09:35	10.00	1.45	mEq/L	0.43	EPA 6020B
SAR Saturated Paste - Sodium Adsorption Ratio		04/02/2026	09:35	10.00	0.84	No Unit		EPA 6020B
<b>AA46401-2</b>	BKG04@5'	<b>Collected :</b> 03/26/2026 12:00						
Total Metals, Soils - Arsenic		03/31/2026	13:21	10.00	8.21	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		03/31/2026	13:21	10.00	39.30	mg/kg	0.025	EPA 6020B



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**FINAL RESULTS REPORT**

**Project Manager:** Joel Mason/Todd Mayo

**Project Name:** Williams 31-11 #7

**Project Number:** CIT.CO.1054

**QC Report**

QC	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
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**EC PH-17811**

**AA46389**

Dup	EC, soil	1.56	0.0005	mmhos/cm		1.53			1.94	- 5
Dup	pH soil Temperature	19.90		°C		19.70				
Dup	pH, soil	8.20	0.01	SU		8.19			0.122	- 5

**AA46571**

LCS	EC, soil	9.56	0.0005	mmhos/cm			95.6	85 - 115		
LCS	pH, soil	6.87	0.01	SU			100	85 - 115		

**AA46572**

LCS	EC, soil	9.54	0.0005	mmhos/cm			95.4	85 - 115		
LCS	pH, soil	6.88	0.01	SU			100	85 - 115		

**METALS S-17745**

**AA46304**

Dup	Arsenic	5.15	0.025	mg/kg		5.19			0.774	0 - 15
Matrix Spike	Arsenic	22.59		mg/kg	20	5.19	87.0	80 - 120		

**AA46335**

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						

**AA46337**

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	0.09		mg/kg			90.0	80 - 120		
LCS	Zinc	0.10		mg/kg			100	80 - 120		

**AA46338**

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	0.09		mg/kg			90.0	80 - 120		
LCS	Zinc	0.10		mg/kg			100	80 - 120		



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**Project Manager:** Joel Mason/Todd Mayo

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**QC Report**

QC	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
<b>SAR-17810</b>										
<b>AA46056</b>										
Dup	Calcium	9.20		mEq/L	9.20	9.26			0.650	- 20
Dup	Magnesium	2.65		mEq/L	2.65	2.62			1.14	- 20
Dup	Sodium	9.53		mEq/L	9.53	9.48			0.526	- 20
Dup	Sodium Adsorption Ratio	3.91		mEq/L	3.91	3.89			0.513	- 20
<b>AA46389</b>										
Dup	Calcium	4.06		mEq/L	3.51	3.92			3.51	- 20
Dup	Magnesium	1.39		mEq/L	4.41	1.33			4.41	- 20
Dup	Sodium	8.08		mEq/L	4.82	7.70			4.82	- 20
Dup	Sodium Adsorption Ratio	4.89		mEq/L	2.69	4.76			2.69	- 20
<b>AA46567</b>										
MB	Calcium	0.00		mEq/L						
MB	Magnesium	0.00		mEq/L						
MB	Sodium	0.00		mEq/L						
MB	Sodium Adsorption Ratio	0.01								
<b>AA46568</b>										
LCS	Calcium	9.99		ppm			99.9	80 - 120		
LCS	Magnesium	8.86		ppm			88.6	80 - 120		
LCS	Sodium	8.78		ppm			87.8	80 - 120		
LCS	Sodium Adsorption Ratio	0.49		ppm			90.7	80 - 120		
<b>AA46569</b>										
LCS	Calcium	466.13		ppm			93.2	80 - 120		
LCS	Magnesium	442.01		ppm			88.4	80 - 120		
LCS	Sodium	452.33		ppm			90.5	80 - 120		
LCS	Sodium Adsorption Ratio	3.60		ppm			95.2	80 - 120		