



B25081179_Schwartzwalder Mine

1 message

Stacie M. Helms <SHelms@energylab.com>

Wed, Sep 10, 2025 at 4:06 PM

To: "Adam.billin@linkan.com" <Adam.billin@linkan.com>, "Alex.schwiebert@linkan.com" <Alex.schwiebert@linkan.com>, "ap@linkan.com" <ap@linkan.com>, "chris.prosper@linkan.com" <chris.prosper@linkan.com>, "Peter.hays@state.co.us" <Peter.hays@state.co.us>

Thank you for choosing Energy Laboratories Inc. for your analytical testing needs. Your final report for the samples received has been attached to this message. A hard copy will only be mailed if previously requested.

If you have questions about your results, our Project Management team is happy to help. You can reach them at billingspm@energylab.com or **406-252-6325**.

We're always working to improve—and your input matters.

Please take 30 seconds to share your feedback by clicking the link or scanning the QR code below:

 [\[Give Feedback\]](#)



Your feedback goes directly to our leadership team to ensure we meet your expectations.

Please do not reply to this email.

Sincerely,

Energy Laboratories, Inc.

Trust our People. Trust our Data.

Stacie Helms | Administrative Assistant | Billings, MT

O: 406-869-6295 | shelms@energylab.com | www.energylab.com

2 attachments

 **B25081179-EDD-ELICSV-WITH-HEADER-1.CSV**
16K



B25081179-FINAL REPORT-1.PDF

2348K



ANALYTICAL SUMMARY REPORT

September 10, 2025

Linkan Engineering
2720 Ruby Vista Dr Ste 101
Elko, NV 89801-4943

Work Order: B25081179 Quote ID: B17287

Project Name: Schwartzwalder Mine

Energy Laboratories Inc Billings MT received the following 1 sample for Linkan Engineering on 8/13/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25081179-001	Mine Pool	08/12/25 10:40	08/13/25	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity to pH 4.5 Cyanide, Weak Acid Dissociable Mercury, Dissolved Mercury, Total Oxygen, Dissolved Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite Metals Digestion by E200.2 Mercury Digestion by E245.1 E365.1 Digestion, Total P Low Level Phosphorus, Orthophosphate as P Low level Phosphorus, Total Gross Alpha, Gross Beta, Total Radium 226 + Radium 228 Radium 226, Dissolved Radium 226, Total Radium 228, Total Solids, Total Dissolved Solids, Total Suspended

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.



CLIENT: Linkan Engineering
Project: Schwartzwalder Mine
Work Order: B25081179

Report Date: 09/10/25

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, PO Box 247, Casper, WY, EPA Number WY00002.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25081179-001
Client Sample ID: Mine Pool

Report Date: 09/10/25
Collection Date: 08/12/25 10:40
Date Received: 08/13/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Suspended TSS @ 105 C	32	mg/L		10		A2540 D	08/14/25 14:59 / pjw
Solids, Total Dissolved TDS @ 180 C	4330	mg/L		100		A2540 C	08/14/25 11:25 / etv
INORGANICS							
Alkalinity, Total as CaCO ₃	946	mg/L		4		A2320 B	08/14/25 13:25 / spb
Bicarbonate as CaCO ₃	946	mg/L		3		A2320 B	08/14/25 13:25 / spb
Carbonate as CaCO ₃	ND	mg/L		7		A2320 B	08/14/25 13:25 / spb
Chloride	69	mg/L		5		E300.0	08/14/25 22:22 / caa
Sulfate	2270	mg/L		20		E300.0	08/14/25 22:22 / caa
Fluoride	1.6	mg/L		0.2		E300.0	08/14/25 22:22 / caa
Hydroxide as CaCO ₃	ND	mg/L		10		A2320 B	08/14/25 13:25 / spb
Cyanide, Weak Acid Dissociable	ND	mg/L		0.005		Kelada-01	08/14/25 11:50 / fap
Oxygen, Dissolved	7.9	mg/L	H	0.1		A4500-O G	08/14/25 17:25 / mbs
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.02	mg/L		0.01		E353.2	08/14/25 12:42 / rs4
Phosphorus, Orthophosphate as P	0.024	mg/L		0.002		E365.1	08/14/25 09:08 / taz
Phosphorus, Total as P	0.143	mg/L		0.002		E365.1	08/26/25 10:24 / taz
METALS, DISSOLVED							
Aluminum	0.006	mg/L	J	0.03		E200.8	08/16/25 14:30 / aem
Antimony	ND	mg/L		0.001		E200.8	08/18/25 17:44 / aem
Arsenic	0.029	mg/L		0.001		E200.8	08/16/25 14:30 / aem
Boron	0.39	mg/L		0.05		E200.7	08/14/25 17:26 / jaw
Calcium	411	mg/L		1		E200.7	08/14/25 17:26 / jaw
Chromium	ND	mg/L		0.005		E200.8	08/16/25 14:30 / aem
Copper	0.0002	mg/L	J	0.005		E200.8	08/16/25 14:30 / aem
Iron	9.94	mg/L		0.02		E200.8	08/16/25 14:30 / aem
Lead	0.00004	mg/L	J	0.001		E200.8	08/16/25 14:30 / aem
Magnesium	351	mg/L		1		E200.7	08/14/25 17:26 / jaw
Manganese	0.615	mg/L		0.001		E200.8	08/18/25 17:44 / aem
Mercury	ND	mg/L		0.0001		E245.1	08/15/25 14:30 / nrb
Molybdenum	1.39	mg/L		0.001		E200.8	08/16/25 14:30 / aem
Potassium	37	mg/L		2		E200.7	08/14/25 17:26 / jaw
Silver	ND	mg/L		0.001		E200.8	08/16/25 14:30 / aem
Sodium	434	mg/L		1		E200.7	08/14/25 17:26 / jaw
Thallium	ND	mg/L		0.0005		E200.8	08/18/25 17:44 / aem
Uranium	28.4	mg/L		0.5		E200.7	08/14/25 17:26 / jaw
Zinc	0.002	mg/L	J	0.01		E200.8	08/16/25 14:30 / aem
METALS, TOTAL							
Aluminum	ND	mg/L		0.03		E200.8	08/19/25 19:55 / aem
Antimony	ND	mg/L		0.001		E200.8	08/19/25 19:55 / aem
Arsenic	0.034	mg/L		0.001		E200.8	08/19/25 19:55 / aem

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
H - Analysis performed past the method holding time

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25081179-001
Client Sample ID: Mine Pool

Report Date: 09/10/25
Collection Date: 08/12/25 10:40
Date Received: 08/13/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Boron	0.35	mg/L		0.05		E200.7	08/20/25 18:28 / jaw
Chromium	ND	mg/L		0.005		E200.8	08/19/25 19:55 / aem
Copper	ND	mg/L		0.005		E200.8	08/19/25 19:55 / aem
Iron	11.4	mg/L		0.02		E200.8	08/19/25 19:55 / aem
Lead	ND	mg/L		0.001		E200.8	08/19/25 19:55 / aem
Manganese	0.609	mg/L		0.001		E200.7	08/20/25 18:28 / jaw
Mercury	ND	mg/L		0.0001		E245.1	08/15/25 14:31 / nrb
Molybdenum	1.43	mg/L		0.001		E200.8	08/22/25 00:28 / aem
Silver	ND	mg/L		0.001		E200.8	08/19/25 19:55 / aem
Thallium	ND	mg/L		0.0005		E200.8	08/22/25 00:28 / aem
Zinc	ND	mg/L		0.01		E200.8	08/19/25 19:55 / aem
RADIONUCLIDES - DISSOLVED							
Radium 226	119	pCi/L				E903.0	08/25/25 13:35 / eli-ca
Radium 226 precision (±)	18.3	pCi/L				E903.0	08/25/25 13:35 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	08/25/25 13:35 / eli-ca
RADIONUCLIDES - TOTAL							
Gross Alpha	21300	pCi/L				E900.0	08/29/25 01:08 / eli-ca
Gross Alpha precision (±)	4620	pCi/L				E900.0	08/29/25 01:08 / eli-ca
Gross Alpha MDC	27.5	pCi/L				E900.0	08/29/25 01:08 / eli-ca
Gross Beta	5500	pCi/L				E900.0	08/29/25 01:08 / eli-ca
Gross Beta precision (±)	358	pCi/L				E900.0	08/29/25 01:08 / eli-ca
Gross Beta MDC	17.5	pCi/L				E900.0	08/29/25 01:08 / eli-ca
Radium 226	96.1	pCi/L				E903.0	09/08/25 15:37 / eli-ca
Radium 226 precision (±)	14.8	pCi/L				E903.0	09/08/25 15:37 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	09/08/25 15:37 / eli-ca
Radium 228	1.4	pCi/L				RA-05	09/03/25 16:41 / eli-ca
Radium 228 precision (±)	0.8	pCi/L				RA-05	09/03/25 16:41 / eli-ca
Radium 228 MDC	1.0	pCi/L				RA-05	09/03/25 16:41 / eli-ca
Radium 226 + Radium 228	97.5	pCi/L				A7500-RA	09/09/25 09:17 / eli-ca
Radium 226 + Radium 228 precision (±)	14.8	pCi/L				A7500-RA	09/09/25 09:17 / eli-ca
Radium 226 + Radium 228 MDC	1.0	pCi/L				A7500-RA	09/09/25 09:17 / eli-ca

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25081179

Report Date: 09/09/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: GrAB-3469
Lab ID: Th230-GrAB-3469	3	Laboratory Control Sample				Run: TENNELEC-4_250822B				08/29/25 01:08
Gross Alpha		92	pCi/L		91	70	130			
Gross Alpha precision (±)		20	pCi/L							
Gross Alpha MDC		1.3	pCi/L							
Lab ID: Sr90-GrAB-3469	3	Laboratory Control Sample				Run: TENNELEC-4_250822B				08/29/25 01:08
Gross Beta		180	pCi/L		97	70	130			
Gross Beta precision (±)		12	pCi/L							
Gross Beta MDC		2.3	pCi/L							
Lab ID: MB-GrAB-3469	6	Method Blank				Run: TENNELEC-4_250822B				08/29/25 01:08
Gross Alpha		0.6	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		1	pCi/L							
Gross Beta		0.7	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		2	pCi/L							
Lab ID: C25080534-005AMS	3	Sample Matrix Spike				Run: TENNELEC-4_250822B				08/29/25 01:08
Gross Alpha		76	pCi/L		71	70	130			
Gross Alpha precision (±)		17	pCi/L							
Gross Alpha MDC		3.2	pCi/L							
Lab ID: C25080534-005AMSD	3	Sample Matrix Spike Duplicate				Run: TENNELEC-4_250822B				08/29/25 01:08
Gross Alpha		87	pCi/L		82	70	130	14	30	
Gross Alpha precision (±)		20	pCi/L							
Gross Alpha MDC		3.1	pCi/L							
- The RER result is 0.43.										
Lab ID: C25080647-001HMS1	3	Sample Matrix Spike				Run: TENNELEC-4_250822B				08/29/25 01:08
Gross Beta		190	pCi/L		101	70	130			
Gross Beta precision (±)		13	pCi/L							
Gross Beta MDC		2.3	pCi/L							
Lab ID: C25080647-001HMSD1	3	Sample Matrix Spike Duplicate				Run: TENNELEC-4_250822B				08/29/25 01:08
Gross Beta		190	pCi/L		101	70	130	0.3	30	
Gross Beta precision (±)		13	pCi/L							
Gross Beta MDC		2.6	pCi/L							
- The RER result is 0.03.										

Qualifiers:

RL - Analyte Reporting Limit
U - Not detected

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25081179

Report Date: 09/09/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-11793
Lab ID: LCS-RA226-11793	3	Laboratory Control Sample				Run: TENNELEC-4_250818B				08/25/25 11:57
Radium 226		9.8	pCi/L	98		70	130			
Radium 226 precision (±)		1.6	pCi/L							
Radium 226 MDC		0.18	pCi/L							
Lab ID: MB-RA226-11793	3	Method Blank				Run: TENNELEC-4_250818B				08/25/25 11:57
Radium 226		-0.08	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25080568-001GDUP	3	Sample Duplicate				Run: TENNELEC-4_250818B				08/25/25 11:57
Radium 226		0.22	pCi/L					81	30	UR
Radium 226 precision (±)		0.16	pCi/L							
Radium 226 MDC		0.23	pCi/L							
- Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than or equal to the limit of 3. The RER result is 0.54.										
Method: E903.0										Batch: RA226-11803
Lab ID: LCS-RA226-11803	3	Laboratory Control Sample				Run: TENNELEC-4_250826E				09/08/25 13:04
Radium 226		10	pCi/L	103		70	130			
Radium 226 precision (±)		1.7	pCi/L							
Radium 226 MDC		0.20	pCi/L							
Lab ID: MB-RA226-11803	3	Method Blank				Run: TENNELEC-4_250826E				09/08/25 13:04
Radium 226		-0.01	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25080650-006ADUP	3	Sample Duplicate				Run: TENNELEC-4_250826E				09/08/25 15:37
Radium 226		0.26	pCi/L					40	30	R
Radium 226 precision (±)		0.17	pCi/L							
Radium 226 MDC		0.25	pCi/L							
- Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than or equal to the limit of 3. The RER result is 0.33.										

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25081179

Report Date: 09/09/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7752
Lab ID: LCS-228-RA226-11803	3	Laboratory Control Sample				Run: TENNELEC-4_250826B				09/03/25 16:20
Radium 228		7.7	pCi/L	85		70	130			
Radium 228 precision (±)		2.1	pCi/L							
Radium 228 MDC		1.1	pCi/L							
Lab ID: MB-RA226-11803	3	Method Blank				Run: TENNELEC-4_250826B				09/03/25 16:20
Radium 228		0.7	pCi/L							U
Radium 228 precision (±)		0.7	pCi/L							
Radium 228 MDC		1	pCi/L							
Lab ID: C25080650-006ADUP	3	Sample Duplicate				Run: TENNELEC-4_250826B				09/03/25 16:20
Radium 228		0.63	pCi/L					62	30	UR
Radium 228 precision (±)		0.92	pCi/L							
Radium 228 MDC		1.5	pCi/L							

- Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than or equal to the limit of 3. The RER result is 0.42.

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R447511
Lab ID: MBLK Method Blank Run: METROHM 2_250814A 08/14/25 11:20										
Alkalinity, Total as CaCO ₃		ND	mg/L	4						
Lab ID: LCS Laboratory Control Sample Run: METROHM 2_250814A 08/14/25 11:24										
Alkalinity, Total as CaCO ₃		103	mg/L	4.0	103	90	110			
Lab ID: B25081157-001ADUP 7 Sample Duplicate Run: METROHM 2_250814A 08/14/25 11:50										
Alkalinity, Total as CaCO ₃		194	mg/L	4.0				0.1	10	
Bicarbonate as HCO ₃		236	mg/L	4.0				0.1	10	
Carbonate as CO ₃		ND	mg/L	4.0					10	
Hydroxide as OH		ND	mg/L	4.0					10	
Bicarbonate as CaCO ₃		194	mg/L	3.3				0.1	10	
Carbonate as CaCO ₃		ND	mg/L	6.7					10	
Hydroxide as CaCO ₃		ND	mg/L	12						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: TDS20250814A
Lab ID: MBLK_20250814-1		Method Blank					Run: Bal #30_250814C			08/14/25 11:23
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	20						
Lab ID: LCS_20250814-1		Laboratory Control Sample					Run: Bal #30_250814C			08/14/25 11:23
Solids, Total Dissolved TDS @ 180 C		931	mg/L	25	93	90	110			
Lab ID: B25081229-001ADUP		Sample Duplicate					Run: Bal #30_250814C			08/14/25 11:26
Solids, Total Dissolved TDS @ 180 C		2140	mg/L	50				0.1	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: TSS20250814B		
Lab ID: MBLK_20250814-8	Method Blank					Run: BAL #30_250814B		08/14/25 14:59		
Solids, Total Suspended TSS @ 105 C		ND	mg/L	0.6						
Lab ID: LCS_20250814-3	Laboratory Control Sample					Run: BAL #30_250814B		08/14/25 14:59		
Solids, Total Suspended TSS @ 105 C		106	mg/L	25	106	80	120			
Lab ID: B25081179-001CDUP	Sample Duplicate					Run: BAL #30_250814B		08/14/25 14:59		
Solids, Total Suspended TSS @ 105 C		32.6	mg/L	10				0.6	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-O G									Batch: R447578	
Lab ID: B25081092-001DDUP		Sample Duplicate				Run: DO_METER_250814A			08/14/25 16:56	
Oxygen, Dissolved		7.39	mg/L	0.10				0.3	30	H

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

H - Analysis performed past the method holding time



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7 Analytical Run: ICP205-B_250814B										
Lab ID: ICV	6	Continuing Calibration Verification Standard							08/14/25 15:58	
Boron		2.57	mg/L	0.10	103	95	105			
Calcium		24.8	mg/L	1.0	99	95	105			
Magnesium		25.0	mg/L	1.0	100	95	105			
Potassium		24.7	mg/L	1.0	99	95	105			
Sodium		24.9	mg/L	1.0	100	95	105			
Uranium		2.46	mg/L	0.10	98	95	105			
Lab ID: CCV	6	Continuing Calibration Verification Standard							08/14/25 17:15	
Boron		2.60	mg/L	0.10	104	90	110			
Calcium		25.2	mg/L	1.0	101	90	110			
Magnesium		25.0	mg/L	1.0	100	90	110			
Potassium		24.8	mg/L	1.0	99	90	110			
Sodium		25.0	mg/L	1.0	100	90	110			
Uranium		2.49	mg/L	0.10	100	90	110			
Method: E200.7 Batch: R447608										
Lab ID: MB-5900DIS250718A	6	Method Blank							Run: ICP205-B_250814B 08/14/25 16:12	
Boron		ND	mg/L	0.006						
Calcium		ND	mg/L	0.06						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.05						
Uranium		ND	mg/L	0.04						
Lab ID: LFB-5900DIS250718A	6	Laboratory Fortified Blank							Run: ICP205-B_250814B 08/14/25 16:13	
Boron		1.04	mg/L	0.10	104	85	115			
Calcium		49.8	mg/L	1.0	100	85	115			
Magnesium		50.5	mg/L	1.0	101	85	115			
Potassium		49.6	mg/L	1.0	99	85	115			
Sodium		49.9	mg/L	1.0	100	85	115			
Uranium		1.01	mg/L	0.10	101	85	115			
Lab ID: B25081181-002DMS2	6	Sample Matrix Spike							Run: ICP205-B_250814B 08/14/25 17:33	
Boron		1.28	mg/L	0.050	121	70	130			
Calcium		76.5	mg/L	1.0	114	70	130			
Magnesium		62.4	mg/L	1.0	117	70	130			
Potassium		59.3	mg/L	1.0	115	70	130			
Sodium		68.2	mg/L	1.0	115	70	130			
Uranium		1.21	mg/L	0.10	121	70	130			
Lab ID: B25081181-002DMSD2	6	Sample Matrix Spike Duplicate							Run: ICP205-B_250814B 08/14/25 17:35	
Boron		1.24	mg/L	0.050	116	70	130	3.8	20	
Calcium		74.3	mg/L	1.0	110	70	130	2.9	20	
Magnesium		60.0	mg/L	1.0	112	70	130	3.8	20	
Potassium		57.0	mg/L	1.0	110	70	130	4.0	20	
Sodium		65.4	mg/L	1.0	110	70	130	4.2	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R447608
Lab ID: B25081181-002DMSD2	6	Sample Matrix Spike Duplicate				Run: ICP205-B_250814B				08/14/25 17:35
Uranium		0.987	mg/L	0.10	99	70	130	20	20	R
Method: E200.7										Batch: 202513
Lab ID: MB-202513	2	Method Blank				Run: ICP205-B_250819B				08/19/25 18:55
Boron		ND	mg/L	0.008						
Manganese		ND	mg/L	0.0004						
Lab ID: LCS3-202513	2	Laboratory Control Sample				Run: ICP205-B_250819B				08/19/25 18:56
Boron		1.04	mg/L	0.10	104	85	115			
Manganese		4.91	mg/L	0.010	98	85	115			
Lab ID: B25081109-004EMS3	2	Sample Matrix Spike				Run: ICP205-B_250819B				08/19/25 19:31
Boron		1.12	mg/L	0.050	102	70	130			
Manganese		4.74	mg/L	0.0010	95	70	130			
Lab ID: B25081109-004EMSD3	2	Sample Matrix Spike Duplicate				Run: ICP205-B_250819B				08/19/25 19:32
Boron		1.13	mg/L	0.050	103	70	130	0.9	20	
Manganese		4.79	mg/L	0.0010	96	70	130	1.1	20	
Method: E200.7										Analytical Run: ICP205-B_250820A
Lab ID: ICV	2	Continuing Calibration Verification Standard								08/20/25 15:47
Boron		2.49	mg/L	0.10	100	95	105			
Manganese		2.41	mg/L	0.010	97	95	105			
Lab ID: CCV	2	Continuing Calibration Verification Standard								08/20/25 18:17
Boron		2.52	mg/L	0.10	101	90	110			
Manganese		2.45	mg/L	0.010	98	90	110			
Method: E200.7										Batch: 202513
Lab ID: MB-202513	2	Method Blank				Run: ICP205-B_250820A				08/20/25 18:26
Boron		ND	mg/L	0.008						
Manganese		ND	mg/L	0.0004						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

R - Relative Percent Difference (RPD) exceeds advisory limit

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS208-B_250815A								
Lab ID: QCS	9	Initial Calibration Verification Standard							08/16/25 11:38	
Aluminum		0.200	mg/L	0.020	100	90	110			
Arsenic		0.0379	mg/L	0.0050	95	90	110			
Chromium		0.0385	mg/L	0.010	96	90	110			
Copper		0.0375	mg/L	0.010	94	90	110			
Iron		0.204	mg/L	0.020	102	90	110			
Lead		0.0394	mg/L	0.0010	98	90	110			
Molybdenum		0.0385	mg/L	0.0050	96	90	110			
Silver		0.0196	mg/L	0.0050	98	90	110			
Zinc		0.0376	mg/L	0.0050	94	90	110			
Lab ID: CCV	9	Continuing Calibration Verification Standard							08/16/25 14:00	
Aluminum		0.0506	mg/L	0.020	101	90	110			
Arsenic		0.0474	mg/L	0.0050	95	90	110			
Chromium		0.0470	mg/L	0.010	94	90	110			
Copper		0.0460	mg/L	0.010	92	90	110			
Iron		1.26	mg/L	0.020	97	90	110			
Lead		0.0490	mg/L	0.0010	98	90	110			
Molybdenum		0.0486	mg/L	0.0050	97	90	110			
Silver		0.0196	mg/L	0.0050	98	90	110			
Zinc		0.0463	mg/L	0.0050	93	90	110			
Method: E200.8		Batch: R447658								
Lab ID: LRB	9	Method Blank							Run: ICPMS208-B_250815A 08/15/25 13:50	
Aluminum		ND	mg/L	0.0009						
Arsenic		ND	mg/L	0.0001						
Chromium		ND	mg/L	0.0002						
Copper		ND	mg/L	0.00007						
Iron		ND	mg/L	0.004						
Lead		ND	mg/L	0.00002						
Molybdenum		ND	mg/L	0.00005						
Silver		ND	mg/L	5E-6						
Zinc		ND	mg/L	0.0008						
Lab ID: LFB	9	Laboratory Fortified Blank							Run: ICPMS208-B_250815A 08/15/25 13:56	
Aluminum		0.0543	mg/L	0.020	109	85	115			
Arsenic		0.0474	mg/L	0.0050	95	85	115			
Chromium		0.0466	mg/L	0.010	93	85	115			
Copper		0.0451	mg/L	0.010	90	85	115			
Iron		5.10	mg/L	0.020	102	85	115			
Lead		0.0506	mg/L	0.0010	101	85	115			
Molybdenum		0.0539	mg/L	0.0050	108	85	115			
Silver		0.0200	mg/L	0.0050	100	85	115			
Zinc		0.0463	mg/L	0.0050	93	85	115			
Lab ID: B25081181-001DMS	9	Sample Matrix Spike							Run: ICPMS208-B_250815A 08/16/25 14:42	
Aluminum		0.0549	mg/L	0.030	98	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R447658
Lab ID: B25081181-001DMS	9	Sample Matrix Spike				Run: ICPMS208-B_250815A				08/16/25 14:42
Arsenic		0.0906	mg/L	0.0010	93	70	130			
Chromium		0.0457	mg/L	0.0050	91	70	130			
Copper		0.0445	mg/L	0.0050	88	70	130			
Iron		4.78	mg/L	0.020	95	70	130			
Lead		0.0495	mg/L	0.0010	99	70	130			
Molybdenum		0.0541	mg/L	0.0010	100	70	130			
Silver		0.0194	mg/L	0.0010	97	70	130			
Zinc		0.0467	mg/L	0.010	88	70	130			
Lab ID: B25081181-001DMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS208-B_250815A				08/16/25 14:47
Aluminum		0.0593	mg/L	0.030	107	70	130	7.7	20	
Arsenic		0.0926	mg/L	0.0010	97	70	130	2.1	20	
Chromium		0.0476	mg/L	0.0050	95	70	130	4.1	20	
Copper		0.0458	mg/L	0.0050	90	70	130	2.8	20	
Iron		4.90	mg/L	0.020	97	70	130	2.5	20	
Lead		0.0521	mg/L	0.0010	104	70	130	5.2	20	
Molybdenum		0.0569	mg/L	0.0010	105	70	130	5.0	20	
Silver		0.0204	mg/L	0.0010	102	70	130	5.3	20	
Zinc		0.0492	mg/L	0.010	93	70	130	5.1	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS208-B_250818A								
Lab ID: QCS	9	Initial Calibration Verification Standard								08/19/25 08:43
Aluminum		0.190	mg/L	0.020	95	90	110			
Antimony		0.0395	mg/L	0.0050	99	90	110			
Arsenic		0.0373	mg/L	0.0050	93	90	110			
Chromium		0.0383	mg/L	0.010	96	90	110			
Copper		0.0369	mg/L	0.010	92	90	110			
Iron		0.197	mg/L	0.020	99	90	110			
Lead		0.0381	mg/L	0.0010	95	90	110			
Silver		0.0190	mg/L	0.0050	95	90	110			
Zinc		0.0374	mg/L	0.0050	94	90	110			
Lab ID: CCV	9	Continuing Calibration Verification Standard								08/19/25 19:31
Aluminum		0.0474	mg/L	0.020	95	90	110			
Antimony		0.0504	mg/L	0.0050	101	90	110			
Arsenic		0.0468	mg/L	0.0050	94	90	110			
Chromium		0.0472	mg/L	0.010	94	90	110			
Copper		0.0469	mg/L	0.010	94	90	110			
Iron		1.24	mg/L	0.020	96	90	110			
Lead		0.0482	mg/L	0.0010	96	90	110			
Silver		0.0190	mg/L	0.0050	95	90	110			
Zinc		0.0474	mg/L	0.0050	95	90	110			
Method: E200.8		Batch: 202513								
Lab ID: MB-202513	11	Method Blank								Run: ICPMS208-B_250818A 08/19/25 12:58
Aluminum		ND	mg/L	0.002						
Antimony		ND	mg/L	0.0004						
Arsenic		ND	mg/L	0.0002						
Chromium		ND	mg/L	0.0005						
Copper		ND	mg/L	0.00009						
Iron		ND	mg/L	0.006						
Lead		ND	mg/L	0.00004						
Molybdenum		ND	mg/L	0.0001						
Silver		ND	mg/L	5E-6						
Thallium		ND	mg/L	0.0003						
Zinc		ND	mg/L	0.001						
Lab ID: LCS3-202513	11	Laboratory Control Sample								Run: ICPMS208-B_250818A 08/19/25 13:04
Aluminum		4.87	mg/L	0.10	97	85	115			
Antimony		1.01	mg/L	0.010	101	85	115			
Arsenic		0.950	mg/L	0.010	95	85	115			
Chromium		0.955	mg/L	0.010	95	85	115			
Copper		0.943	mg/L	0.010	94	85	115			
Iron		5.23	mg/L	0.20	105	85	115			
Lead		0.965	mg/L	0.0010	97	85	115			
Molybdenum		0.988	mg/L	0.010	99	85	115			
Silver		0.0985	mg/L	0.0050	98	85	115			
Thallium		0.958	mg/L	0.010	96	85	115			

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 202513
Lab ID: LCS3-202513	11	Laboratory Control Sample				Run: ICPMS208-B_250818A				08/19/25 13:04
Zinc		0.962	mg/L	0.040	96	85	115			
Lab ID: B25081109-004EMS3	11	Sample Matrix Spike				Run: ICPMS208-B_250818A				08/19/25 19:19
Aluminum		4.90	mg/L	0.10	98	70	130			
Antimony		1.05	mg/L	0.010	105	70	130			
Arsenic		0.966	mg/L	0.010	96	70	130			
Chromium		0.982	mg/L	0.010	98	70	130			
Copper		0.973	mg/L	0.010	97	70	130			
Iron		5.22	mg/L	0.20	104	70	130			
Lead		0.994	mg/L	0.0010	99	70	130			
Molybdenum		1.02	mg/L	0.010	102	70	130			
Silver		0.100	mg/L	0.0010	100	70	130			
Thallium		0.971	mg/L	0.010	97	70	130			
Zinc		1.02	mg/L	0.040	102	70	130			
Lab ID: B25081109-004EMSD3	11	Sample Matrix Spike Duplicate				Run: ICPMS208-B_250818A				08/19/25 19:25
Aluminum		4.89	mg/L	0.10	98	70	130	0.3	20	
Antimony		1.04	mg/L	0.010	104	70	130	0.9	20	
Arsenic		0.949	mg/L	0.010	95	70	130	1.7	20	
Chromium		0.975	mg/L	0.010	97	70	130	0.7	20	
Copper		0.956	mg/L	0.010	96	70	130	1.8	20	
Iron		5.18	mg/L	0.20	104	70	130	0.8	20	
Lead		0.975	mg/L	0.0010	98	70	130	1.9	20	
Molybdenum		1.01	mg/L	0.010	101	70	130	1.1	20	
Silver		0.0996	mg/L	0.0010	100	70	130	0.5	20	
Thallium		0.978	mg/L	0.010	98	70	130	0.8	20	
Zinc		1.01	mg/L	0.040	101	70	130	1.0	20	

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS209-B_250818A				
Lab ID: QCS	3	Initial Calibration Verification Standard							08/18/25 16:27	
Antimony		0.0387	mg/L	0.0050	97	90	110			
Manganese		0.189	mg/L	0.0050	94	90	110			
Thallium		0.0369	mg/L	0.0050	92	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard							08/18/25 16:32	
Antimony		0.0506	mg/L	0.0050	101	90	110			
Manganese		0.0497	mg/L	0.0050	99	90	110			
Thallium		0.0492	mg/L	0.0050	98	90	110			
Method: E200.8						Batch: R447736				
Lab ID: LRB	3	Method Blank				Run: ICPMS209-B_250818A			08/18/25 11:21	
Antimony		ND	mg/L	0.00002						
Manganese		ND	mg/L	0.00007						
Thallium		ND	mg/L	0.00007						
Lab ID: LFB	3	Laboratory Fortified Blank				Run: ICPMS209-B_250818A			08/18/25 11:37	
Antimony		0.0526	mg/L	0.0050	105	85	115			
Manganese		0.0504	mg/L	0.0050	101	85	115			
Thallium		0.0503	mg/L	0.0050	101	85	115			
Lab ID: MB-202460	3	Method Blank				Run: ICPMS209-B_250818A			08/18/25 17:55	
Antimony		ND	mg/L	0.00002						
Manganese		ND	mg/L	0.00007						
Thallium		ND	mg/L	0.00007						
Lab ID: B25081473-001CMS	3	Sample Matrix Spike				Run: ICPMS209-B_250818A			08/18/25 18:17	
Antimony		0.0544	mg/L	0.0010	101	70	130			
Manganese		0.194	mg/L	0.0010	92	70	130			
Thallium		0.0550	mg/L	0.00050	110	70	130			
Lab ID: B25081473-001CMSD	3	Sample Matrix Spike Duplicate				Run: ICPMS209-B_250818A			08/18/25 18:22	
Antimony		0.0551	mg/L	0.0010	102	70	130	1.2	20	
Manganese		0.195	mg/L	0.0010	94	70	130	0.5	20	
Thallium		0.0557	mg/L	0.00050	111	70	130	1.2	20	
Lab ID: B25081496-003BMS	3	Sample Matrix Spike				Run: ICPMS209-B_250818A			08/18/25 19:39	
Antimony		0.258	mg/L	0.0010	103	70	130			
Manganese		0.264	mg/L	0.0026	99	70	130			
Thallium		0.247	mg/L	0.0013	99	70	130			
Lab ID: B25081496-003BMSD	3	Sample Matrix Spike Duplicate				Run: ICPMS209-B_250818A			08/18/25 19:44	
Antimony		0.260	mg/L	0.0010	104	70	130	0.8	20	
Manganese		0.263	mg/L	0.0026	99	70	130	0.3	20	
Thallium		0.253	mg/L	0.0013	101	70	130	2.4	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS209-B_250820A								
Lab ID: QCS		2 Initial Calibration Verification Standard								08/21/25 22:40
Molybdenum		0.0405	mg/L	0.0050	101	90	110			
Thallium		0.0401	mg/L	0.0050	100	90	110			
Lab ID: CCV		2 Continuing Calibration Verification Standard								08/22/25 00:01
Molybdenum		0.0486	mg/L	0.0050	97	90	110			
Thallium		0.0470	mg/L	0.0050	94	90	110			
Method: E200.8		Batch: 202513								
Lab ID: MB-202513		2 Method Blank								Run: ICPMS209-B_250820A 08/21/25 23:12
Molybdenum		ND	mg/L	0.0001						
Zinc		ND	mg/L	0.001						

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method:	E245.1								Analytical Run: HGCV205-B_250815A		
Lab ID:	ICV-202424	Initial Calibration Verification Standard							08/15/25 13:11		
Mercury		0.00194	mg/L	0.00010	97	90	110				
Lab ID:	CCV1	Continuing Calibration Verification Standard							08/15/25 13:12		
Mercury		0.00254	mg/L	0.00010	102	95	105				
Lab ID:	CCV	Continuing Calibration Verification Standard							08/15/25 14:14		
Mercury		0.00249	mg/L	0.00010	100	90	110				
Method:	E245.1								Batch: 202425		
Lab ID:	MB-202425	Method Blank			Run: HGCV205-B_250815A				08/15/25 13:52		
Mercury		ND	mg/L	0.00005							
Lab ID:	LCS-202425	Laboratory Control Sample			Run: HGCV205-B_250815A				08/15/25 13:54		
Mercury		0.00197	mg/L	0.00010	98	85	115				
Lab ID:	B25081174-007DMS	Sample Matrix Spike			Run: HGCV205-B_250815A				08/15/25 14:25		
Mercury		0.00197	mg/L	0.00010	98	70	130				
Lab ID:	B25081174-007DMSD	Sample Matrix Spike Duplicate			Run: HGCV205-B_250815A				08/15/25 14:26		
Mercury		0.00195	mg/L	0.00010	97	70	130	1.0	30		

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0						Analytical Run: IC METROHM 1_250814A				
Lab ID: ICV	3	Initial Calibration Verification Standard								08/14/25 10:52
Chloride		25.4	mg/L	1.0	101	90	110			
Sulfate		103	mg/L	1.0	103	90	110			
Fluoride		1.21	mg/L	0.10	97	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								08/14/25 21:16
Chloride		26.2	mg/L	1.0	105	90	110			
Sulfate		106	mg/L	1.0	106	90	110			
Fluoride		1.26	mg/L	0.10	101	90	110			
Method: E300.0						Batch: R447607				
Lab ID: ICB	3	Method Blank								Run: IC METROHM 1_250814A 08/14/25 11:08
Chloride		ND	mg/L	0.09						
Sulfate		ND	mg/L	0.4						
Fluoride		ND	mg/L	0.005						
Lab ID: LFB	3	Laboratory Fortified Blank								Run: IC METROHM 1_250814A 08/14/25 13:18
Chloride		25.6	mg/L	1.0	102	90	110			
Sulfate		104	mg/L	1.1	104	90	110			
Fluoride		1.25	mg/L	0.10	100	90	110			
Lab ID: B25081174-008BMS	3	Sample Matrix Spike								Run: IC METROHM 1_250814A 08/14/25 21:49
Chloride		225	mg/L	1.3	109	90	110			
Sulfate		582	mg/L	5.3	109	90	110			
Fluoride		7.17	mg/L	0.10	105	90	110			
Lab ID: B25081174-008BMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 1_250814A 08/14/25 22:05
Chloride		219	mg/L	1.3	104	90	110	2.6	20	
Sulfate		566	mg/L	5.3	106	90	110	2.8	20	
Fluoride		6.98	mg/L	0.10	102	90	110	2.7	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Analytical Run: FIA203-B_250814A		
Lab ID: ICV	Initial Calibration Verification Standard			08/14/25 10:23						
Nitrogen, Nitrate+Nitrite as N	0.534	mg/L	0.010	95	90	110				
Lab ID: CCV_20250813-24	Continuing Calibration Verification Standard			08/14/25 12:23						
Nitrogen, Nitrate+Nitrite as N	0.930	mg/L	0.010	93	90	110				
Method: E353.2								Batch: R447572		
Lab ID: FilterMBLK	Method Blank			Run: FIA203-B_250814A				08/14/25 10:24		
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.009							
Lab ID: MBLK_20250813-14	Method Blank			Run: FIA203-B_250814A				08/14/25 10:26		
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.009							
Lab ID: FilterLFB	Laboratory Fortified Blank			Run: FIA203-B_250814A				08/14/25 10:27		
Nitrogen, Nitrate+Nitrite as N	0.977	mg/L	0.010	98	90	110				
Lab ID: LFB_20250813-3	Laboratory Fortified Blank			Run: FIA203-B_250814A				08/14/25 10:28		
Nitrogen, Nitrate+Nitrite as N	0.982	mg/L	0.010	98	90	110				
Lab ID: B25081181-001FMS	Sample Matrix Spike			Run: FIA203-B_250814A				08/14/25 12:47		
Nitrogen, Nitrate+Nitrite as N	0.957	mg/L	0.010	94	90	110				
Lab ID: B25081181-001FMSD	Sample Matrix Spike Duplicate			Run: FIA203-B_250814A				08/14/25 12:48		
Nitrogen, Nitrate+Nitrite as N	0.979	mg/L	0.010	96	90	110	2.2	10		

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E365.1										Analytical Run: FIA204-B_250814A
Lab ID: ICV		Initial Calibration Verification Standard								08/14/25 08:52
Phosphorus, Orthophosphate as P		0.266	mg/L	0.0050	106	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								08/14/25 09:24
Phosphorus, Orthophosphate as P		0.506	mg/L	0.0050	101	90	110			
Method: E365.1										Batch: R447523
Lab ID: ICB		Method Blank								08/14/25 08:54
Phosphorus, Orthophosphate as P		ND	mg/L	0.001						
Lab ID: LFB		Laboratory Fortified Blank								08/14/25 08:55
Phosphorus, Orthophosphate as P		0.265	mg/L	0.0050	106	90	110			
Lab ID: B25081181-002CMS		Sample Matrix Spike								08/14/25 09:13
Phosphorus, Orthophosphate as P		0.268	mg/L	0.0020	104	90	110			
Lab ID: B25081181-002CMSD		Sample Matrix Spike Duplicate								08/14/25 09:14
Phosphorus, Orthophosphate as P		0.272	mg/L	0.0020	105	90	110	1.5	10	
Method: E365.1										Analytical Run: SEAL201-B_250826A
Lab ID: ICV-202126		Initial Calibration Verification Standard								08/26/25 09:42
Phosphorus, Total as P		0.514	mg/L	0.0050	103	90	110			
Lab ID: CCV-202126		Continuing Calibration Verification Standard								08/26/25 10:18
Phosphorus, Total as P		0.528	mg/L	0.0050	106	90	110			
Method: E365.1										Batch: 202700
Lab ID: MB-202700		Method Blank								08/26/25 10:21
Phosphorus, Total as P		ND	mg/L	0.002						
Lab ID: LCS-202700		Laboratory Control Sample								08/26/25 10:22
Phosphorus, Total as P		0.218	mg/L	0.0020	109	90	110			
Lab ID: B25081187-001BMS		Sample Matrix Spike								08/26/25 10:33
Phosphorus, Total as P		0.140	mg/L	0.0020	70	90	110			S
Lab ID: B25081187-001BMSD		Sample Matrix Spike Duplicate								08/26/25 10:34
Phosphorus, Total as P		0.175	mg/L	0.0020	88	90	110	22	10	SR
Lab ID: B25081803-001EMS		Sample Matrix Spike								08/26/25 10:48
Phosphorus, Total as P		0.449	mg/L	0.0020	91	90	110			
Lab ID: B25081803-001EMSD		Sample Matrix Spike Duplicate								08/26/25 10:49
Phosphorus, Total as P		0.450	mg/L	0.0020	92	90	110	0.2	10	

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081179

Report Date: 09/10/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada-01								Analytical Run: SFA-202-B_250814A		
Lab ID: ICV	Initial Calibration Verification Standard									08/14/25 11:30
Cyanide, Weak Acid Dissociable		0.107	mg/L	0.0050	107	90	110			
Lab ID: CCV	Continuing Calibration Verification Standard									08/14/25 12:13
Cyanide, Weak Acid Dissociable		0.102	mg/L	0.0050	102	90	110			
Method: Kelada-01								Batch: R447542		
Lab ID: ICB	Method Blank				Run: SFA-202-B_250814A				08/14/25 11:31	
Cyanide, Weak Acid Dissociable		ND	mg/L	0.002						
Lab ID: LFB	Laboratory Fortified Blank				Run: SFA-202-B_250814A				08/14/25 11:33	
Cyanide, Weak Acid Dissociable		0.0998	mg/L	0.0050	100	90	110			
Lab ID: LCS1-ZnCN2	Laboratory Control Sample				Run: SFA-202-B_250814A				08/14/25 11:35	
Cyanide, Weak Acid Dissociable		0.0962	mg/L	0.0050	96	90	110			
Lab ID: B25081179-001GMS	Sample Matrix Spike				Run: SFA-202-B_250814A				08/14/25 11:53	
Cyanide, Weak Acid Dissociable		0.0993	mg/L	0.0050	99	80	120			
Lab ID: B25081179-001GMSD	Sample Matrix Spike Duplicate				Run: SFA-202-B_250814A				08/14/25 11:57	
Cyanide, Weak Acid Dissociable		0.0988	mg/L	0.0050	99	80	120	0.5	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Work Order Receipt Checklist

Linkan Engineering

B25081179

Login completed by: Danielle N. Harris

Date Received: 8/13/2025

Reviewed by: cjones

Received by: CR

Reviewed Date: 8/22/2025

Carrier name: Return-FedEx NDA

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	4.1°C On Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT  	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY 	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090



Chain of Custody & Analytical Request Record

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Page 1 of 1

Account Information (Billing Information)

Company/Name	Linkan
Contact	Chris Prosper
Phone	775-777-8003
Mailing Address	2720 Ruby Vista Dr
City, State, Zip	Elko, NV 89801
Email	AP@linkan.com
Receive Invoice	☐ Hard Copy ☒ Email
Purchase Order	Quote H17287
25-0152	195245

Report Information (if different than Account Information)

Company/Name	Linkan
Contact	Alex Schwiebert
Phone	775-397-6779
Mailing Address	2720 Ruby Vista Dr
City, State, Zip	Elko, NV 89801
Email	see comments
Receive Report	☐ Hard Copy ☒ Email
Special Report/Formats:	☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other

Comments

Quarterly Sampling - Mine Pool
Please email Report and EDD results to: chris.prosper@linkan.com adam.billin@linkan.com alex.schwiebert@linkan.com peter.hays@state.co.us

Project Information

Project Name, PWSID, Permit, etc.	Schwartzwalder Mine
Sampler Name	Chris Prosper
Sampler Phone	719-247-0564
Sample Origin	State Colorado
EPA/State Compliance	☒ Yes ☐ No
URANIUM MINING CLIENTS MUST indicate sample type	
☐ Unprocessed Ore	
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING	
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)	

Matrix Codes

A - Air	W - Water	S - Solids	V - Vegetation	B - Biosassay	O - Oil	DW - Drinking Water
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Analysis Requested

Low Level Phosphorus	Anions (E300.0)	Total Suspended Solids	Metals, Dissolved	Metals Total	Nitrogen, Nitrate + Nitrite	Cyanide, WAD	Gross Alpha, Gross Beta, Total	Radium Radium 226 + 228	See Attached
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All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

Sample Identification (Name, Location, Interval, etc.)	Collection Date	Time	Matrix (See Codes Above)
1 Mine Pool	8/12/25	10:40	W
2			
3			
4			
5			
6			
7			
8			
9			

ELI LAB ID Laboratory Use Only	25081179
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ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used, please attach your preservative information with this COC.

Custody Record MUST be signed	Relinquished by (print) Chris Prosper	Date/Time 8/12/25 13:00	Signature	Received by (print) Wally Zurek	Date/Time 8/12/25 10:35	Signature Candy Bohner			
Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type Cash Check	Amount \$	Receipt Number (cash/check only)

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.



Trust our People. Trust our Data.
www.energylab.com

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 • Gillette, WY 307.686.7175 • Helena, MT 406.442.0711



BOTTLE ORDER 195245

SHIPPED Linkan Engineering

TO:

To report an issue with this order, view Safety Data Sheets, or let us know how we are doing, scan here or go to energylab.com/contact-us



Order Created by: Yvonna E. Smith
Shipped From: Billings, MT
Ship Date: 6/3/2025
VIA: Ground
Quote Used: 17287

Contact: Chris Prosper
400 Corporate Circle, Suite H
Golden CO 80401
Phone: (719) 247-0564
Project: Schwartzwalder Mine - Table 2B

Bottle Size/Type	Bottles Per Samp	Method	Tests	Critical Hold Time	Preservative	Notes	Num of Samp
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Table 2B Quarterly (2 Sets)

120 mL Plastic 250 mL	1	E365.1	Low Level Phosphorus, Orthophosphate as P	48.00 hrs		Filter Sample	1
1 Liter Plastic	1	A2320 B A4500-O G E300.0 A2540 C	Alkalinity to pH 4.5 Oxygen, Dissolved Anions by Ion Chromatography Solids, Total Dissolved	0.25 hrs			1
1 Liter Plastic Wide Mouth	1	A2540 D	Solids, Total Suspended			Fill to the neck of the container.	1
250 mL Plastic	1	E200.7_8 E245.1 E245.1	Metals by ICP/ICPMS, Dissolved Mercury, Dissolved Mercury Digestion by E245.1		HNO3	Filter before preservation	1
250 mL Plastic	1	E200.7_8 E245.1 E200.2 E245.1	Metals by ICP/ICPMS, Total Mercury, Total Metals Digestion by E200.2 Mercury Digestion by E245.1		HNO3		1

BO#: 195245

1 of 2

250 mL Plastic	1	E353.2 E365.1 E365.1	Nitrogen, Nitrate + Nitrite E365.1 Digestion, Total P Low level Phosphorus, Total	 H2SO4	1
500 mL Amber Plastic	1	Kelada-01	Cyanide, Weak Acid Dissociable	 NaOH	1
500 mL Plastic	1	E900.0	Gross Alpha, Gross Beta, Total	 HNO3	1
1 Gallon Plastic	1	E903.0	Radium 226, Dissolved	 HNO3	1
1 Gallon Plastic	1	A7500-RA E903.0 RA-05	Radium 226 + Radium 228 Radium 226, Total Radium 228, Total	 HNO3	1

Comments

 HNO3 - Nitric Acid  H2SO4 - Sulfuric Acid  NaOH - Sodium Hydroxide

 ZnAc - Zinc Acetate  HCl - Hydrochloric Acid  H3PO4 - Phosphoric Acid

Material Safety Data Sheets(MSDS) Available @ EnergyLab.com ->Services -> MSDS Sheets

Corrosive Chemicals: Nitric, Sulfuric, Phosphoric, Hydrochloric Acids and Sodium Hydroxide. Zinc Acetate is a skin irritant.

Subcontracting of sample analyses to an outside laboratory may be required. If so, Energy Laboratories will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

We strongly suggest that the samples are shipped the same day as they are collected.

BO#: 195245

2 of 2