



B25081911_Schwartzwalder Mine

1 message

Stacie M. Helms <SHelms@energylab.com>

Wed, Sep 17, 2025 at 1:06 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

 **B25081911-EDD-ELICSV-WITH-HEADER-1.CSV**
9K



B25081911-FINAL REPORT-1.PDF

2256K



ANALYTICAL SUMMARY REPORT

September 17, 2025

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

Work Order: B25081911 Quote ID: B17287

Project Name: Schwartzwalder Mine

Energy Laboratories Inc Billings MT received the following 1 sample for Linkan Engineering on 8/20/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25081911-001	Outfall 001A	08/19/25 14:10	08/20/25	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Potentially Dissolved Metals by ICP/ICPMS, Total Recoverable Cyanide, Weak Acid Dissociable Chromium, Hexavalent Chromium, Total Recoverable Trivalent Mercury, Total Anions by Ion Chromatography Metals Digestion by E200.2 Preparation, Potentially Dissolved Filtration Mercury Digestion by E245.1 Radium 226 + Radium 228 Radium 226, Dissolved Radium 226, Total Radium 228, Total Sulfide, Methylene Blue Colorimetric

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: B25081911

Report Date: 09/17/25

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: B25081911-001
Client Sample ID: Outfall 001A

Report Date: 09/17/25
Collection Date: 08/19/25 14:10
Date Received: 08/20/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	1	mg/L		1		E300.0	08/20/25 23:33 / caa
Sulfate	7	mg/L		1		E300.0	08/20/25 23:33 / caa
Fluoride	0.02	mg/L	J	0.1		E300.0	08/20/25 23:33 / caa
Cyanide, Weak Acid Dissociable	ND	ug/L		1		Kelada-01	08/22/25 14:20 / fap
Sulfide	ND	mg/L		0.04		A4500-S D	08/22/25 10:14 / pmw
METALS, DISSOLVED							
Chromium, Hexavalent	ND	ug/L		10		A3500-Cr B	08/20/25 13:48 / jks
Iron	10	ug/L	J	20		E200.8	08/21/25 19:10 / aem
Manganese	0.7	ug/L	J	1		E200.8	08/21/25 19:10 / aem
METALS, POTENTIALLY DISSOLVED							
Cadmium	ND	ug/L		1		E200.8	08/22/25 23:08 / jks
Copper	0.09	ug/L	JL	0.5		E200.8	08/22/25 23:08 / jks
Nickel	0.1	ug/L	J	5		E200.8	08/22/25 23:08 / jks
Selenium	ND	ug/L		1		E200.8	08/22/25 23:08 / jks
Silver	ND	ug/L	L	0.04		E200.8	08/22/25 23:08 / jks
Zinc	ND	ug/L		10		E200.8	08/22/25 23:08 / jks
METALS, TOTAL RECOVERABLE							
Arsenic	4	ug/L		1		E200.8	08/29/25 16:20 / aem
Chromium	ND	ug/L		5		E200.8	08/29/25 16:20 / aem
Chromium, Trivalent	ND	ug/L		10		Calculation	09/02/25 10:38 / bap
Iron	20	ug/L	J	20		E200.8	08/29/25 16:20 / aem
Uranium	17.7	ug/L		0.3		E200.8	08/29/25 16:20 / aem
METALS, TOTAL							
Antimony	ND	ug/L		1		E200.8	08/30/25 14:32 / aem
Boron	190	ug/L		50		E200.7	08/29/25 17:56 / jaw
Mercury	ND	ug/L		0.1		E245.1	08/26/25 13:04 / nrb
Thallium	ND	ug/L		0.5		E200.8	08/29/25 16:20 / aem
RADIONUCLIDES - DISSOLVED							
Radium 226	0.2	pCi/L				E903.0	09/09/25 14:54 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	09/09/25 14:54 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	09/09/25 14:54 / eli-ca
RADIONUCLIDES - TOTAL							
Radium 226	0.2	pCi/L	U			E903.0	09/10/25 13:33 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	09/10/25 13:33 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	09/10/25 13:33 / eli-ca
Radium 228	-0.1	pCi/L	U			RA-05	09/05/25 17:36 / eli-ca
Radium 228 precision (±)	0.6	pCi/L				RA-05	09/05/25 17:36 / eli-ca
Radium 228 MDC	1.1	pCi/L				RA-05	09/05/25 17:36 / eli-ca
Radium 226 + Radium 228	0.6	pCi/L	U			A7500-RA	09/11/25 10:15 / eli-ca

Report Definitions:
 RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 J - Estimated value - analyte was present but less than the Reporting Limit (RL)
 U - Not detected

MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)
 L - Lowest available reporting limit for the analytical method used and/or volume submitted



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25081911-001
Client Sample ID: Outfall 001A

Report Date: 09/17/25
Collection Date: 08/19/25 14:10
Date Received: 08/20/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 226 + Radium 228 precision ($\pm$)	0.6	pCi/L				A7500-RA	09/11/25 10:15 / eli-ca
Radium 226 + Radium 228 MDC	1.1	pCi/L				A7500-RA	09/11/25 10:15 / eli-ca

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

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



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B										
Analytical Run: SPEC3_250820A										
Lab ID: CCV	Continuing Calibration Verification Standard									
Chromium, Hexavalent		0.0999	mg/L	0.010	100	90	110			08/20/25 13:48
Method: A3500-Cr B										
Batch: R447865										
Lab ID: MBLK	Method Blank									
Chromium, Hexavalent		ND	mg/L	0.003						Run: SPEC3_250820A 08/20/25 13:48
Lab ID: LCS	Laboratory Control Sample									
Chromium, Hexavalent		0.105	mg/L	0.010	105	90	110			Run: SPEC3_250820A 08/20/25 13:48
Lab ID: B25081911-001AMS	Sample Matrix Spike									
Chromium, Hexavalent		0.102	mg/L	0.010	102	80	120			Run: SPEC3_250820A 08/20/25 13:48
Lab ID: B25081911-001AMSD	Sample Matrix Spike Duplicate									
Chromium, Hexavalent		0.101	mg/L	0.010	101	80	120	0.9	20	Run: SPEC3_250820A 08/20/25 13:48

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-S D										Batch: R447992
Lab ID: MBLK		Method Blank					Run: SPEC3_250822A			08/22/25 10:14
Sulfide		ND	mg/L	0.007						
Lab ID: LCS										08/22/25 10:14
Sulfide		Laboratory Control Sample					Run: SPEC3_250822A			
		0.217	mg/L	0.040	97	85	115			
Lab ID: B25081803-001FMS										08/22/25 10:14
Sulfide		Sample Matrix Spike					Run: SPEC3_250822A			
		0.442	mg/L	0.040	93	70	130			
Lab ID: B25081803-001FMSD										08/22/25 10:14
Sulfide		Sample Matrix Spike Duplicate					Run: SPEC3_250822A			
		0.434	mg/L	0.040	91	70	130	2.0	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: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.7							Analytical Run: ICP205-B_250829A		
Lab ID:	ICV	Continuing Calibration Verification Standard							08/29/25 15:17	
Boron		2.53	mg/L	0.10	101	95	105			
Lab ID:	CCV	Continuing Calibration Verification Standard							08/29/25 17:47	
Boron		2.55	mg/L	0.10	102	90	110			
Method:	E200.7							Batch: 202793		
Lab ID:	MB-202793	Method Blank			Run: ICP205-B_250829A			08/29/25 17:27		
Boron		ND	mg/L	0.008						
Lab ID:	LCS3-202793	Laboratory Control Sample			Run: ICP205-B_250829A			08/29/25 17:28		
Boron		1.10	mg/L	0.10	110	85	115			
Lab ID:	B25081829-002CMS3	Sample Matrix Spike			Run: ICP205-B_250829A			08/29/25 17:46		
Boron		1.10	mg/L	0.050	107	70	130			
Lab ID:	B25081829-002CMSD3	Sample Matrix Spike Duplicate			Run: ICP205-B_250829A			08/29/25 17:50		
Boron		1.11	mg/L	0.050	108	70	130	1.0	20	

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS207-B_250818B				
Lab ID: QCS	2	Initial Calibration Verification Standard								08/21/25 18:11
Iron		0.197	mg/L	0.020	98	90	110			
Manganese		0.193	mg/L	0.0050	96	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard								08/21/25 18:17
Iron		1.22	mg/L	0.020	94	90	110			
Manganese		0.0483	mg/L	0.0050	97	90	110			
Method: E200.8						Batch: R447885				
Lab ID: LRB	2	Method Blank								Run: ICPMS207-B_250818B 08/20/25 12:06
Iron		ND	mg/L	0.001						
Manganese		ND	mg/L	0.00003						
Lab ID: LFB	2	Laboratory Fortified Blank								Run: ICPMS207-B_250818B 08/20/25 12:24
Iron		5.69	mg/L	0.020	114	85	115			
Manganese		0.0501	mg/L	0.0050	100	85	115			
Lab ID: B25081826-001BMS	2	Sample Matrix Spike								Run: ICPMS207-B_250818B 08/22/25 02:04
Iron		9.49	mg/L	0.020	95	70	130			
Manganese		0.116	mg/L	0.0010	97	70	130			
Lab ID: B25081826-001BMSD	2	Sample Matrix Spike Duplicate								Run: ICPMS207-B_250818B 08/22/25 02:10
Iron		9.69	mg/L	0.020	97	70	130	2.1	20	
Manganese		0.114	mg/L	0.0010	96	70	130	1.5	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: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS207-B_250829A								
Lab ID: QCS	6	Initial Calibration Verification Standard								08/29/25 12:21
Antimony		0.0401	mg/L	0.0050	100	90	110			
Arsenic		0.0383	mg/L	0.0050	96	90	110			
Chromium		0.0382	mg/L	0.010	96	90	110			
Iron		0.203	mg/L	0.020	101	90	110			
Thallium		0.0428	mg/L	0.0050	107	90	110			
Uranium		0.0417	mg/L	0.00030	104	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard								08/29/25 15:16
Antimony		0.0524	mg/L	0.0050	105	90	110			
Arsenic		0.0504	mg/L	0.0050	101	90	110			
Chromium		0.0488	mg/L	0.010	98	90	110			
Iron		1.32	mg/L	0.020	101	90	110			
Thallium		0.0452	mg/L	0.0050	90	90	110			
Uranium		0.0471	mg/L	0.00030	94	90	110			
Lab ID: QCS	6	Initial Calibration Verification Standard								08/30/25 08:59
Antimony		0.0394	mg/L	0.0050	99	90	110			
Arsenic		0.0385	mg/L	0.0050	96	90	110			
Chromium		0.0383	mg/L	0.010	96	90	110			
Iron		0.193	mg/L	0.020	96	90	110			
Thallium		0.0404	mg/L	0.0050	101	90	110			
Uranium		0.0386	mg/L	0.00030	97	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard								08/30/25 14:14
Antimony		0.0502	mg/L	0.0050	100	90	110			
Arsenic		0.0487	mg/L	0.0050	97	90	110			
Chromium		0.0489	mg/L	0.010	98	90	110			
Iron		1.23	mg/L	0.020	95	90	110			
Thallium		0.0482	mg/L	0.0050	96	90	110			
Uranium		0.0533	mg/L	0.00030	107	90	110			
Method: E200.8		Batch: 202793								
Lab ID: MB-202793	6	Method Blank								Run: ICPMS207-B_250829A 08/29/25 14:30
Antimony		ND	mg/L	0.00008						
Arsenic		ND	mg/L	0.0002						
Chromium		ND	mg/L	0.0005						
Iron		ND	mg/L	0.004						
Thallium		ND	mg/L	0.0002						
Uranium		0.00003	mg/L	0.00002						
Lab ID: LCS4-202793	6	Laboratory Control Sample								Run: ICPMS207-B_250829A 08/29/25 14:35
Antimony		0.0937	mg/L	0.0050	94	85	115			
Arsenic		0.0994	mg/L	0.0010	99	85	115			
Chromium		0.0948	mg/L	0.0010	95	85	115			
Iron		0.516	mg/L	0.010	103	85	115			
Thallium		0.0976	mg/L	0.0010	98	85	115			

Qualifiers:

RL - Analyte Reporting Limit

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 202793
Lab ID: LCS4-202793	6	Laboratory Control Sample				Run: ICPMS207-B_250829A				08/29/25 14:35
Uranium		0.0894	mg/L	0.00030	89	85	115			
Lab ID: B25081911-001CMS4	6	Sample Matrix Spike				Run: ICPMS207-B_250829A				08/29/25 16:26
Antimony		0.0973	mg/L	0.0010	97	70	130			
Arsenic		0.102	mg/L	0.0010	97	70	130			
Chromium		0.0929	mg/L	0.0050	93	70	130			
Iron		0.522	mg/L	0.020	101	70	130			
Thallium		0.0961	mg/L	0.00050	96	70	130			
Uranium		0.110	mg/L	0.00030	92	70	130			
Lab ID: B25081911-001CMSD4	6	Sample Matrix Spike Duplicate				Run: ICPMS207-B_250829A				08/29/25 16:44
Antimony		0.0960	mg/L	0.0010	96	70	130	1.3	20	
Arsenic		0.101	mg/L	0.0010	97	70	130	0.5	20	
Chromium		0.0924	mg/L	0.0050	92	70	130	0.6	20	
Iron		0.518	mg/L	0.020	100	70	130	0.8	20	
Thallium		0.0966	mg/L	0.00050	97	70	130	0.5	20	
Uranium		0.104	mg/L	0.00030	87	70	130	4.9	20	
Lab ID: MB-202793		Method Blank				Run: ICPMS207-B_250829A				08/30/25 13:51
Antimony		ND	mg/L	0.00008						

Qualifiers:

RL - Analyte Reporting Limit

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS209-B_250822A				
Lab ID: QCS	6	Initial Calibration Verification Standard							08/22/25 20:41	
Cadmium		0.0192	mg/L	0.0010	96	90	110			
Copper		0.0369	mg/L	0.010	92	90	110			
Nickel		0.0375	mg/L	0.0050	94	90	110			
Selenium		0.0376	mg/L	0.0050	94	90	110			
Silver		0.0194	mg/L	0.0050	97	90	110			
Zinc		0.0378	mg/L	0.0050	94	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard							08/22/25 22:08	
Cadmium		0.0501	mg/L	0.0010	100	90	110			
Copper		0.0479	mg/L	0.010	96	90	110			
Nickel		0.0484	mg/L	0.0050	97	90	110			
Selenium		0.0487	mg/L	0.0050	97	90	110			
Silver		0.0200	mg/L	0.0050	100	90	110			
Zinc		0.0491	mg/L	0.0050	98	90	110			
Method: E200.8						Batch: R448030				
Lab ID: LRB	6	Method Blank							Run: ICPMS209-B_250822A 08/22/25 14:24	
Cadmium		ND	mg/L	9E-6						
Copper		0.00007	mg/L	0.00005						
Nickel		ND	mg/L	0.00006						
Selenium		ND	mg/L	0.00002						
Silver		ND	mg/L	3E-6						
Zinc		ND	mg/L	0.001						
Lab ID: LFB	6	Laboratory Fortified Blank							Run: ICPMS209-B_250822A 08/22/25 14:40	
Cadmium		0.0503	mg/L	0.0010	101	85	115			
Copper		0.0472	mg/L	0.010	94	85	115			
Nickel		0.0474	mg/L	0.0050	95	85	115			
Selenium		0.0460	mg/L	0.0050	92	85	115			
Silver		0.0202	mg/L	0.0050	101	85	115			
Zinc		0.0475	mg/L	0.0050	95	85	115			
Lab ID: B25081941-001BMS	6	Sample Matrix Spike							Run: ICPMS209-B_250822A 08/22/25 22:02	
Cadmium		0.0414	mg/L	0.0010	83	70	130			
Copper		0.0373	mg/L	0.0050	74	70	130			
Nickel		0.0370	mg/L	0.0050	74	70	130			
Selenium		0.0386	mg/L	0.0010	77	70	130			
Silver		0.0164	mg/L	0.0010	82	70	130			
Zinc		0.0383	mg/L	0.010	77	70	130			
Lab ID: B25081941-001BMSD	6	Sample Matrix Spike Duplicate							Run: ICPMS209-B_250822A 08/22/25 22:19	
Cadmium		0.0398	mg/L	0.0010	80	70	130	4.0	20	
Copper		0.0375	mg/L	0.0050	74	70	130	0.7	20	
Nickel		0.0377	mg/L	0.0050	75	70	130	1.8	20	
Selenium		0.0389	mg/L	0.0010	78	70	130	0.6	20	
Silver		0.0158	mg/L	0.0010	79	70	130	4.0	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: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R448030
Lab ID: B25081941-001BMSD	6	Sample Matrix Spike Duplicate				Run: ICPMS209-B_250822A				08/22/25 22:19
Zinc		0.0381	mg/L	0.010	76	70	130	0.5	20	
Lab ID: MB-202583										08/22/25 23:02
	6	Method Blank				Run: ICPMS209-B_250822A				
Cadmium		ND	mg/L	7E-6						
Copper		0.0001	mg/L	0.00005						
Nickel		ND	mg/L	0.00006						
Selenium		ND	mg/L	0.00002						
Silver		ND	mg/L	5E-6						
Zinc		ND	mg/L	0.001						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method:	E245.1								Analytical Run: HGCV205-B_250826A		
Lab ID:	ICV	Initial Calibration Verification Standard							08/26/25 10:33		
Mercury		0.00210	mg/L	0.00010	105	90	110				
Lab ID:	CCV1	Continuing Calibration Verification Standard							08/26/25 10:35		
Mercury		0.00244	mg/L	0.00010	98	95	105				
Lab ID:	CCV	Continuing Calibration Verification Standard							08/26/25 12:53		
Mercury		0.00249	mg/L	0.00010	100	90	110				
Method:	E245.1								Batch: 202713		
Lab ID:	MB-202713	Method Blank			Run: HGCV205-B_250826A				08/26/25 12:32		
Mercury		ND	mg/L	0.00005							
Lab ID:	LCS-202713	Laboratory Control Sample			Run: HGCV205-B_250826A				08/26/25 12:33		
Mercury		0.00211	mg/L	0.00010	105	85	115				
Lab ID:	B25081983-002BMS	Sample Matrix Spike			Run: HGCV205-B_250826A				08/26/25 13:09		
Mercury		0.00210	mg/L	0.00010	105	70	130				
Lab ID:	B25081983-002BMSD	Sample Matrix Spike Duplicate			Run: HGCV205-B_250826A				08/26/25 13:10		
Mercury		0.00212	mg/L	0.00010	106	70	130	0.9	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: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0		Analytical Run: IC METROHM 2_250818A								
Lab ID: ICV	3	Initial Calibration Verification Standard								08/18/25 12:23
Chloride		26.1	mg/L	1.0	104	90	110			
Sulfate		104	mg/L	1.0	104	90	110			
Fluoride		1.30	mg/L	0.10	104	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								08/20/25 20:26
Chloride		26.5	mg/L	1.0	106	90	110			
Sulfate		105	mg/L	1.0	105	90	110			
Fluoride		1.24	mg/L	0.10	99	90	110			
Method: E300.0		Batch: R447776								
Lab ID: ICB	3	Method Blank								Run: IC METROHM 2_250818A 08/18/25 12:40
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 2_250818A 08/18/25 12:57
Chloride		25.8	mg/L	1.0	103	90	110			
Sulfate		103	mg/L	1.1	103	90	110			
Fluoride		1.32	mg/L	0.10	106	90	110			
Lab ID: B25081935-001AMS	3	Sample Matrix Spike								Run: IC METROHM 2_250818A 08/21/25 00:57
Chloride		289	mg/L	2.6	106	90	110			
Sulfate		2260	mg/L	11	100	90	110			
Fluoride		12.6	mg/L	0.13	98	90	110			
Lab ID: B25081935-001AMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 2_250818A 08/21/25 01:14
Chloride		294	mg/L	2.6	108	90	110	1.7	20	
Sulfate		2310	mg/L	11	105	90	110	2.0	20	
Fluoride		12.8	mg/L	0.13	100	90	110	1.7	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: B25081911

Report Date: 09/02/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada-01								Analytical Run: SFA-202-B_250822A		
Lab ID: ICV	Initial Calibration Verification Standard			08/22/25 14:00						
Cyanide, Weak Acid Dissociable		0.0102	mg/L	0.0010	102	90	110			
Method: Kelada-01								Batch: R448021		
Lab ID: ICB	Method Blank			08/22/25 14:02						
Cyanide, Weak Acid Dissociable		ND	mg/L	0.0009			Run: SFA-202-B_250822A			
Lab ID: LFB	Laboratory Fortified Blank			08/22/25 14:04						
Cyanide, Weak Acid Dissociable		0.0104	mg/L	0.0010	104	90	110			
Lab ID: LCS1-ZnCN	Laboratory Control Sample			08/22/25 14:06						
Cyanide, Weak Acid Dissociable		0.0100	mg/L	0.0010	100	90	110			
Lab ID: B25081911-001EMS	Sample Matrix Spike			08/22/25 14:24						
Cyanide, Weak Acid Dissociable		0.0101	mg/L	0.0010	101	80	120			
Lab ID: B25081911-001EMSD	Sample Matrix Spike Duplicate			08/22/25 14:28						
Cyanide, Weak Acid Dissociable		0.0102	mg/L	0.0010	102	80	120	1.1	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25081911

Report Date: 09/11/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-11814		
Lab ID: LCS-RA226-11814	3	Laboratory Control Sample				Run: TENNELEC-3_250903A		09/09/25 10:33		
Radium 226		9.4	pCi/L	94		70	130			
Radium 226 precision (±)		1.5	pCi/L							
Radium 226 MDC		0.21	pCi/L							
Lab ID: MB-RA226-11814	3	Method Blank				Run: TENNELEC-3_250903A		09/09/25 10:33		
Radium 226		0.03	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25080849-002DDUP	3	Sample Duplicate				Run: TENNELEC-3_250903A		09/09/25 12:37		
Radium 226		0.58	pCi/L					37	30	R
Radium 226 precision (±)		0.16	pCi/L							
Radium 226 MDC		0.19	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 0.81.										

Method: E903.0								Batch: RA226-11811		
Lab ID: LCS-RA226-11811	3	Laboratory Control Sample				Run: TENNELEC-4_250902C		09/10/25 10:24		
Radium 226		8.2	pCi/L	82		70	130			
Radium 226 precision (±)		1.3	pCi/L							
Radium 226 MDC		0.15	pCi/L							
Lab ID: MB-RA226-11811	3	Method Blank				Run: TENNELEC-4_250902C		09/10/25 10:24		
Radium 226		-0.01	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25080547-003EDUP	3	Sample Duplicate				Run: TENNELEC-4_250902C		09/10/25 10:24		
Radium 226		310	pCi/L					0.2	30	
Radium 226 precision (±)		47	pCi/L							
Radium 226 MDC		0.18	pCi/L							
- The RER result is 0.01.										

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: B25081911

Report Date: 09/11/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7760
Lab ID: LCS-228-RA226-11811	3	Laboratory Control Sample			Run: TENNELEC-4_250902A			09/05/25 17:36		
Radium 228		9.3	pCi/L	103		70	130			
Radium 228 precision (±)		2.5	pCi/L							
Radium 228 MDC		1.0	pCi/L							
Lab ID: MB-RA226-11811	3	Method Blank			Run: TENNELEC-4_250902A			09/05/25 17:36		
Radium 228		0.4	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1	pCi/L							
Lab ID: C25080547-003EDUP	3	Sample Duplicate			Run: TENNELEC-4_250902A			09/05/25 17:36		
Radium 228		5.9	pCi/L					1.3	30	
Radium 228 precision (±)		1.7	pCi/L							
Radium 228 MDC		0.99	pCi/L							
- The RER result is 0.03.										

Qualifiers:

RL - Analyte Reporting Limit
U - Not detected

ND - Not detected at the Reporting Limit (RL)



Work Order Receipt Checklist

Linkan Engineering

B25081911

Login completed by: Crystal M. Jones

Date Received: 8/20/2025

Reviewed by: dharris

Received by: SW

Reviewed Date: 8/28/2025

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:	4.0°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:

The sample for potentially dissolved metals analysis was subsampled and filtered in the laboratory. According to the Code of Colorado Regulation these samples should be filtered within 8 to 96 hours of preservation with nitric acid to a



Work Order Receipt Checklist - Continued

Linkan Engineering

B25081911

pH < 2. CMJ 08/20/25

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



Trust our People. Trust our Data.

Chain of Custody & Analytical Request Record

www.energylab.com

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 H-17287
25-0152	195243

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/Forms:	☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other

Comments

Outfall 001A - Bi-Weekly Sample

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	Bayerat Acued
Sample Origin	State of Colorado
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 - Biscassay
	O - Oil
	DW - Drinking Water

Analysis Requested

Hexavalent Chromium	
Metals, Dissolved	
Metals, Total Recoverable	
Metals, Potentially Dissolved	
Cyanide, WAD	
Sulfide, Methylene Blue	
Radium 226, Dissolved	
Radium 226 + Radium 228	

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	Number of Containers	Matrix (See Codes Above)
1 Outfall 001A	8/19	1410	8	W
2				
3				
4				
5				
6				
7				
8				
9				

RUSH TAT	See Attached
ELI LAB ID Laboratory Use Only	1325081911

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) Bryant Acued	Signature [Signature]	Date/Time 8/19/1530
Relinquished by (print)	Signature [Signature]	Date/Time 8/19/1530	Signature [Signature]
Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N
Receipt Temp	Temp Blank	On Ice Y N	Payment Type CC 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 195243



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



Contact: Chris Prosper
400 Corporate Circle, Suite H
Golden CO 80401
Phone: (719) 247-0564
Project: Schwartzwalder Mine-Outfall 001A

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

Bottle Size/Type	Bottles Per Samp	Method	Tests	Critical Hold Time	Preservative	Notes	Num of Samp
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Outfall 001A Weekly COD (5 Sets)

500 mL Plastic	1	E410.4 HACH 8000	Chemical Oxygen Demand Preparation for COD testing HACH 8000		H2SO4		1
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Outfall 001A Three Times Weekly TSS (15 Sets)

1 Liter Plastic Wide Mouth	1	A2540 D	Solids, Total Suspended			Fill to the neck of the container.	1
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Outfall 001A Bi-Weekly (2 Sets)

250 mL Plastic	1	A3500-Cr B E300.0	Chromium, Hexavalent Anions by Ion Chromatography	24.00 hrs			1
250 mL Plastic	1	E200.7_8	Metals by ICP/ICPMS, Dissolved		HNO3	Filter before preservation	1
250 mL Plastic	1	E200.7_8 Calculation E245.1 E200.2 E245.1	Metals by ICP/ICPMS, Total Recoverable Chromium, Total Recoverable Trivalent Mercury, Total Metals Digestion by E200.2 Mercury Digestion by E245.1		HNO3		1

BO#: 195243

1 of 2

250 mL Plastic	1 E200.7_8 MCAWW	Metals by ICP/ICPMS - Potentially Dissolved Preparation, Potentially Dissolved Filtration	 HNO3	1
500 mL Amber Plastic	1 Kelada-01	Cyanide, Weak Acid Dissociable	 NaOH	1
250 mL Plastic	1 A4500-S D	Sulfide, Methylene Blue Colorimetric	 ZnAc  NaOH	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

Outfall 001A-Quarterly TDS

1 Liter Plastic	1 A2540 C	Solids, Total Dissolved		1
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Comments

 HNO3 - Nitric Acid	 H2SO4 - Sulfuric Acid	 NaOH - Sodium Hydroxide	We strongly suggest that the samples are shipped the same day as they are collected.
 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.			

BO#: 195243

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