



B25081110_Schwartzwalder Mine

1 message

Stacie M. Helms <SHelms@energylab.com>

Mon, Sep 8, 2025 at 4:55 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

 **B25081110-EDD-ELICSV-WITH-HEADER-1.CSV**
9K



B25081110-FINAL REPORT-1.PDF

2384K



ANALYTICAL SUMMARY REPORT

September 08, 2025

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

Work Order: B25081110 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
B25081110-001	Outfall 001A	08/12/25 14:00	08/13/25	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: B25081110

Report Date: 09/08/25

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: B25081110-001
Client Sample ID: Outfall 001A

Report Date: 09/08/25
Collection Date: 08/12/25 14:00
Date Received: 08/13/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	1	mg/L		1		E300.0	08/14/25 00:01 / caa
Sulfate	8	mg/L		1		E300.0	08/14/25 00:01 / caa
Fluoride	0.02	mg/L	J	0.1		E300.0	08/14/25 00:01 / caa
Cyanide, Weak Acid Dissociable	ND	ug/L		1		Kelada-01	08/15/25 11:36 / fap
Sulfide	ND	mg/L		0.04		A4500-S D	08/14/25 10:39 / pmw
METALS, DISSOLVED							
Chromium, Hexavalent	ND	ug/L		10		A3500-Cr B	08/13/25 13:12 / jks
Iron	10	ug/L	J	20		E200.8	08/15/25 03:48 / jks
Manganese	1	ug/L	J	1		E200.8	08/15/25 03:48 / jks
METALS, POTENTIALLY DISSOLVED							
Cadmium	ND	ug/L		1		E200.8	08/16/25 09:19 / aem
Copper	0.2	ug/L	JL	0.5		E200.8	08/16/25 09:19 / aem
Nickel	ND	ug/L		5		E200.8	08/16/25 09:19 / aem
Selenium	ND	ug/L		1		E200.8	08/18/25 19:25 / aem
Silver	ND	ug/L	L	0.04		E200.8	08/16/25 09:19 / aem
Zinc	1	ug/L	J	10		E200.8	08/16/25 09:19 / aem
METALS, TOTAL RECOVERABLE							
Arsenic	6	ug/L		1		E200.8	08/16/25 21:03 / aem
Chromium	ND	ug/L		5		E200.8	08/16/25 21:03 / aem
Chromium, Trivalent	ND	ug/L		10		Calculation	08/21/25 10:07 / bap
Iron	20	ug/L	J	20		E200.8	08/16/25 21:03 / aem
Uranium	15.1	ug/L		0.3		E200.8	08/16/25 21:03 / aem
METALS, TOTAL							
Antimony	ND	ug/L		1		E200.8	08/18/25 19:19 / aem
Boron	200	ug/L		50		E200.7	08/14/25 20:14 / jaw
Mercury	ND	ug/L		0.1		E245.1	08/15/25 14:02 / nrb
Thallium	ND	ug/L		0.5		E200.8	08/16/25 21:03 / aem
RADIONUCLIDES - DISSOLVED							
Radium 226	0.09	pCi/L	U			E903.0	08/25/25 11:57 / eli-ca
Radium 226 precision (±)	0.2	pCi/L				E903.0	08/25/25 11:57 / eli-ca
Radium 226 MDC	0.3	pCi/L				E903.0	08/25/25 11:57 / eli-ca
RADIONUCLIDES - TOTAL							
Radium 226	0.1	pCi/L	U			E903.0	09/05/25 13:06 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	09/05/25 13:06 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	09/05/25 13:06 / eli-ca
Radium 228	0.3	pCi/L	U			RA-05	08/28/25 13:04 / eli-ca
Radium 228 precision (±)	0.7	pCi/L				RA-05	08/28/25 13:04 / eli-ca
Radium 228 MDC	1.1	pCi/L				RA-05	08/28/25 13:04 / eli-ca
Radium 226 + Radium 228	0.7	pCi/L	U			A7500-RA	09/08/25 10:34 / 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: B25081110-001
Client Sample ID: Outfall 001A

Report Date: 09/08/25
Collection Date: 08/12/25 14:00
Date Received: 08/13/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 226 + Radium 228 precision ($\pm$)	0.7	pCi/L				A7500-RA	09/08/25 10:34 / eli-ca
Radium 226 + Radium 228 MDC	1.1	pCi/L				A7500-RA	09/08/25 10:34 / 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: B25081110

Report Date: 08/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Analytical Run: SPEC3_250813B		
Lab ID: CCV	Continuing Calibration Verification Standard			08/13/25 13:12						
Chromium, Hexavalent		0.102	mg/L	0.010	102	90	110			
Method: A3500-Cr B								Batch: R447449		
Lab ID: MBLK	Method Blank			08/13/25 10:31						
Chromium, Hexavalent		ND	mg/L	0.003			Run: SPEC3_250813B			
Lab ID: LCS	Laboratory Control Sample			08/13/25 10:31						
Chromium, Hexavalent		0.101	mg/L	0.010	101	90	110			
Lab ID: B25081023-001JMS	Sample Matrix Spike			08/13/25 10:31						
Chromium, Hexavalent		0.104	mg/L	0.010	104	80	120			
Lab ID: B25081023-001JMSD	Sample Matrix Spike Duplicate			08/13/25 10:31						
Chromium, Hexavalent		0.102	mg/L	0.010	102	80	120	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: B25081110

Report Date: 08/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-S D										Batch: R447532
Lab ID: MBLK		Method Blank					Run: SPEC3_250814A			08/14/25 10:39
Sulfide		ND	mg/L	0.007						
Lab ID: LCS										08/14/25 10:39
Sulfide		0.182	mg/L	0.040	92	85	115			
Lab ID: B25081272-001DMS										08/14/25 10:39
Sulfide		0.360	mg/L	0.040	91	70	130			
Lab ID: B25081272-001DMSD										08/14/25 10:39
Sulfide		0.358	mg/L	0.040	91	70	130	0.7	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: B25081110

Report Date: 08/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.7							Analytical Run: ICP205-B_250814B		
Lab ID:	ICV	Continuing Calibration Verification Standard							08/14/25 15:58	
Boron		2.57	mg/L	0.10	103	95	105			
Lab ID:	CCV	Continuing Calibration Verification Standard							08/14/25 20:09	
Boron		2.61	mg/L	0.10	105	90	110			
Method:	E200.7							Batch: 202394		
Lab ID:	MB-202394	Method Blank			Run: ICP205-B_250814B			08/14/25 20:01		
Boron		ND	mg/L	0.008						
Lab ID:	LCS3-202394	Laboratory Control Sample			Run: ICP205-B_250814B			08/14/25 20:02		
Boron		1.09	mg/L	0.050	109	85	115			
Lab ID:	B25080895-001AMS3	Sample Matrix Spike			Run: ICP205-B_250814B			08/14/25 20:07		
Boron		1.82	mg/L	0.050	113	70	130			
Lab ID:	B25080895-001AMSD3	Sample Matrix Spike Duplicate			Run: ICP205-B_250814B			08/14/25 20:08		
Boron		1.80	mg/L	0.050	111	70	130	1.2	20	

Qualifiers:

RL - Analyte Reporting Limit

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081110

Report Date: 08/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS208-B_250815A				
Lab ID: QCS	5	Initial Calibration Verification Standard							08/16/25 06:09	
Cadmium		0.0200	mg/L	0.0010	100	90	110			
Copper		0.0372	mg/L	0.010	93	90	110			
Nickel		0.0382	mg/L	0.0050	96	90	110			
Silver		0.0197	mg/L	0.0050	99	90	110			
Zinc		0.0380	mg/L	0.0050	95	90	110			
Lab ID: CCV	5	Continuing Calibration Verification Standard							08/16/25 09:01	
Cadmium		0.0490	mg/L	0.0010	98	90	110			
Copper		0.0480	mg/L	0.010	96	90	110			
Nickel		0.0491	mg/L	0.0050	98	90	110			
Silver		0.0193	mg/L	0.0050	96	90	110			
Zinc		0.0488	mg/L	0.0050	98	90	110			
Method: E200.8						Batch: R447658				
Lab ID: LRB	5	Method Blank				Run: ICPMS208-B_250815A		08/15/25 13:50		
Cadmium		ND	mg/L	0.00002						
Copper		ND	mg/L	0.00007						
Nickel		ND	mg/L	0.0008						
Silver		ND	mg/L	5E-6						
Zinc		ND	mg/L	0.0008						
Lab ID: LFB	5	Laboratory Fortified Blank				Run: ICPMS208-B_250815A		08/15/25 13:56		
Cadmium		0.0507	mg/L	0.0010	101	85	115			
Copper		0.0451	mg/L	0.010	90	85	115			
Nickel		0.0458	mg/L	0.0050	92	85	115			
Silver		0.0200	mg/L	0.0050	100	85	115			
Zinc		0.0463	mg/L	0.0050	93	85	115			
Lab ID: MB-202392	5	Method Blank				Run: ICPMS208-B_250815A		08/16/25 08:43		
Cadmium		ND	mg/L	0.00002						
Copper		0.0005	mg/L	0.00007						
Nickel		ND	mg/L	0.0008						
Silver		ND	mg/L	5E-6						
Zinc		0.001	mg/L	0.0008						
Lab ID: B25081115-004DMS	5	Sample Matrix Spike				Run: ICPMS208-B_250815A		08/16/25 09:31		
Cadmium		0.0993	mg/L	0.0010	99	70	130			
Copper		0.0931	mg/L	0.0050	93	70	130			
Nickel		0.108	mg/L	0.0050	96	70	130			
Silver		0.0391	mg/L	0.0010	98	70	130			
Zinc		0.0961	mg/L	0.010	94	70	130			
Lab ID: B25081115-004DMSD	5	Sample Matrix Spike Duplicate				Run: ICPMS208-B_250815A		08/16/25 09:37		
Cadmium		0.102	mg/L	0.0010	102	70	130	2.6	20	
Copper		0.0877	mg/L	0.0050	87	70	130	5.9	20	
Nickel		0.101	mg/L	0.0050	89	70	130	6.8	20	
Silver		0.0401	mg/L	0.0010	100	70	130	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: B25081110

Report Date: 08/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R447658
Lab ID: B25081115-004DMSD	5	Sample Matrix Spike Duplicate				Run: ICPMS208-B_250815A				08/16/25 09:37
Zinc		0.0911	mg/L	0.010	89	70	130	5.3	20	
Method: E200.8										Analytical Run: ICPMS208-B_250818A
Lab ID: QCS	2	Initial Calibration Verification Standard								08/18/25 15:39
Antimony		0.0402	mg/L	0.0050	100	90	110			
Selenium		0.0377	mg/L	0.0050	94	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard								08/18/25 18:43
Antimony		0.0497	mg/L	0.0050	99	90	110			
Selenium		0.0482	mg/L	0.0050	96	90	110			
Method: E200.8										Batch: 202394
Lab ID: MB-202394		Method Blank				Run: ICPMS208-B_250818A				08/18/25 18:55
Antimony		ND	mg/L	0.0004						
Method: E200.8										Batch: R447733
Lab ID: LRB		Method Blank				Run: ICPMS208-B_250818A				08/18/25 11:28
Selenium		ND	mg/L	0.00004						
Lab ID: LFB		Laboratory Fortified Blank				Run: ICPMS208-B_250818A				08/18/25 11:46
Selenium		0.0469	mg/L	0.0050	94	85	115			
Lab ID: B25081374-006AMS		Sample Matrix Spike				Run: ICPMS208-B_250818A				08/18/25 17:44
Selenium		0.0497	mg/L	0.0010	99	70	130			
Lab ID: B25081374-006AMSD		Sample Matrix Spike Duplicate				Run: ICPMS208-B_250818A				08/18/25 17:49
Selenium		0.0506	mg/L	0.0010	101	70	130	1.7	20	
Lab ID: MB-202392		Method Blank				Run: ICPMS208-B_250818A				08/18/25 18:37
Selenium		ND	mg/L	0.00004						

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081110

Report Date: 08/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS209-B_250813A				
Lab ID: QCS	2	Initial Calibration Verification Standard								08/14/25 23:09
Iron		0.193	mg/L	0.020	96	90	110			
Manganese		0.188	mg/L	0.0050	94	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard								08/15/25 03:31
Iron		1.25	mg/L	0.020	96	90	110			
Manganese		0.0485	mg/L	0.0050	97	90	110			
Method: E200.8						Batch: R447487				
Lab ID: LRB	2	Method Blank								Run: ICPMS209-B_250813A 08/13/25 14:06
Iron		ND	mg/L	0.001						
Manganese		ND	mg/L	0.00007						
Lab ID: LFB	2	Laboratory Fortified Blank								Run: ICPMS209-B_250813A 08/13/25 14:22
Iron		4.86	mg/L	0.020	97	85	115			
Manganese		0.0471	mg/L	0.0050	94	85	115			
Lab ID: MB-202268	2	Method Blank								Run: ICPMS209-B_250813A 08/14/25 09:20
Iron		0.002	mg/L	0.001						
Manganese		ND	mg/L	0.00007						
Lab ID: B25080766-001BMS	2	Sample Matrix Spike								Run: ICPMS209-B_250813A 08/15/25 03:59
Iron		4.97	mg/L	0.020	99	70	130			
Manganese		0.0505	mg/L	0.0010	101	70	130			
Lab ID: B25080766-001BMSD	2	Sample Matrix Spike Duplicate								Run: ICPMS209-B_250813A 08/15/25 04:05
Iron		4.80	mg/L	0.020	96	70	130	3.5	20	
Manganese		0.0490	mg/L	0.0010	98	70	130	3.0	20	

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081110

Report Date: 08/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS209-B_250815A				
Lab ID: QCS	5	Initial Calibration Verification Standard							08/16/25 15:47	
Arsenic		0.0378	mg/L	0.0050	95	90	110			
Chromium		0.0378	mg/L	0.010	95	90	110			
Iron		0.195	mg/L	0.020	97	90	110			
Thallium		0.0406	mg/L	0.0050	102	90	110			
Uranium		0.0377	mg/L	0.00030	94	90	110			
Lab ID: CCV	5	Continuing Calibration Verification Standard							08/16/25 20:36	
Arsenic		0.0488	mg/L	0.0050	98	90	110			
Chromium		0.0487	mg/L	0.010	97	90	110			
Iron		1.26	mg/L	0.020	97	90	110			
Thallium		0.0492	mg/L	0.0050	98	90	110			
Uranium		0.0496	mg/L	0.00030	99	90	110			
Method: E200.8						Batch: 202394				
Lab ID: MB-202394	6	Method Blank							Run: ICPMS209-B_250815A 08/16/25 16:26	
Antimony		ND	mg/L	0.00002						
Arsenic		ND	mg/L	0.00003						
Chromium		ND	mg/L	0.0003						
Iron		ND	mg/L	0.004						
Thallium		ND	mg/L	0.00008						
Uranium		ND	mg/L	0.00001						
Lab ID: LCS4-202394	6	Laboratory Control Sample							Run: ICPMS209-B_250815A 08/16/25 16:31	
Antimony		0.0993	mg/L	0.0050	99	85	115			
Arsenic		0.0966	mg/L	0.0010	97	85	115			
Chromium		0.0951	mg/L	0.0010	95	85	115			
Iron		0.491	mg/L	0.010	98	85	115			
Thallium		0.102	mg/L	0.0010	102	85	115			
Uranium		0.101	mg/L	0.00030	101	85	115			
Lab ID: B25081110-001CMS4	6	Sample Matrix Spike							Run: ICPMS209-B_250815A 08/16/25 21:09	
Antimony		0.101	mg/L	0.0010	101	70	130			
Arsenic		0.103	mg/L	0.0010	98	70	130			
Chromium		0.0968	mg/L	0.0050	97	70	130			
Iron		0.511	mg/L	0.020	99	70	130			
Thallium		0.102	mg/L	0.00050	102	70	130			
Uranium		0.117	mg/L	0.00030	102	70	130			
Lab ID: B25081110-001CMSD4	6	Sample Matrix Spike Duplicate							Run: ICPMS209-B_250815A 08/16/25 21:14	
Antimony		0.104	mg/L	0.0010	104	70	130	2.8	20	
Arsenic		0.103	mg/L	0.0010	98	70	130	0.1	20	
Chromium		0.0962	mg/L	0.0050	96	70	130	0.7	20	
Iron		0.511	mg/L	0.020	99	70	130	0.0	20	
Thallium		0.107	mg/L	0.00050	107	70	130	5.1	20	
Uranium		0.120	mg/L	0.00030	105	70	130	3.0	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: B25081110

Report Date: 08/21/25

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 13:55
Mercury		0.00243	mg/L	0.00010	97	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: B25081108-001DMS		Sample Matrix Spike								Run: HGCV205-B_250815A 08/15/25 13:59
Mercury		0.00198	mg/L	0.00010	99	70	130			
Lab ID: B25081108-001DMSD		Sample Matrix Spike Duplicate								Run: HGCV205-B_250815A 08/15/25 14:00
Mercury		0.00197	mg/L	0.00010	98	70	130	0.5	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: B25081110

Report Date: 08/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0						Analytical Run: IC METROHM 2_250813A				
Lab ID: ICV	3	Initial Calibration Verification Standard								08/13/25 16:59
Chloride		26.2	mg/L	1.0	105	90	110			
Sulfate		104	mg/L	1.0	104	90	110			
Fluoride		1.28	mg/L	0.10	103	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								08/13/25 21:46
Chloride		26.7	mg/L	1.0	107	90	110			
Sulfate		106	mg/L	1.0	106	90	110			
Fluoride		1.27	mg/L	0.10	102	90	110			
Method: E300.0						Batch: R447516				
Lab ID: ICB	3	Method Blank								Run: IC METROHM 2_250813A 08/13/25 17:16
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_250813A 08/13/25 17:32
Chloride		25.9	mg/L	1.0	103	90	110			
Sulfate		104	mg/L	1.1	104	90	110			
Fluoride		1.35	mg/L	0.10	108	90	110			
Lab ID: B25081109-004BMS	3	Sample Matrix Spike								Run: IC METROHM 2_250813A 08/13/25 22:19
Chloride		75.1	mg/L	1.0	105	90	110			
Sulfate		164	mg/L	1.1	103	90	110			
Fluoride		1.52	mg/L	0.10	101	90	110			
Lab ID: B25081109-004BMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 2_250813A 08/13/25 22:36
Chloride		75.3	mg/L	1.0	106	90	110	0.3	20	
Sulfate		165	mg/L	1.1	104	90	110	0.5	20	
Fluoride		1.54	mg/L	0.10	102	90	110	0.7	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: B25081110

Report Date: 08/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada-01								Analytical Run: SFA-202-B_250815A		
Lab ID: ICV	Initial Calibration Verification Standard								08/15/25	11:16
Cyanide, Weak Acid Dissociable		0.00952	mg/L	0.0010	95	90	110			
Method: Kelada-01								Batch: R447634		
Lab ID: ICB	Method Blank					Run: SFA-202-B_250815A			08/15/25	11:17
Cyanide, Weak Acid Dissociable		ND	mg/L	0.0009						
Lab ID: LFB	Laboratory Fortified Blank					Run: SFA-202-B_250815A			08/15/25	11:19
Cyanide, Weak Acid Dissociable		0.00993	mg/L	0.0010	99	90	110			
Lab ID: LCS1-ZnCN	Laboratory Control Sample					Run: SFA-202-B_250815A			08/15/25	11:21
Cyanide, Weak Acid Dissociable		0.00923	mg/L	0.0010	92	90	110			
Lab ID: B25081110-001EMS	Sample Matrix Spike					Run: SFA-202-B_250815A			08/15/25	11:39
Cyanide, Weak Acid Dissociable		0.0102	mg/L	0.0010	102	80	120			
Lab ID: B25081110-001EMSD	Sample Matrix Spike Duplicate					Run: SFA-202-B_250815A			08/15/25	11:43
Cyanide, Weak Acid Dissociable		0.0100	mg/L	0.0010	100	80	120	1.6	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: B25081110

Report Date: 09/08/25

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: B25081110-001GDUP	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: RA226-11802
Lab ID: LCS-RA226-11802	3	Laboratory Control Sample				Run: TENNELEC-4_250825E				09/05/25 13:06
Radium 226		9.6	pCi/L	96		70	130			
Radium 226 precision (±)		1.5	pCi/L							
Radium 226 MDC		0.19	pCi/L							
Lab ID: MB-RA226-11802	3	Method Blank				Run: TENNELEC-4_250825E				09/05/25 13:06
Radium 226		-0.03	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: B25081110-001HDUP	3	Sample Duplicate				Run: TENNELEC-4_250825E				09/05/25 13:06
Radium 226		0.092	pCi/L					11	30	U
Radium 226 precision (±)		0.14	pCi/L							
Radium 226 MDC		0.22	pCi/L							
- The RER result is 0.05.										

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: B25081110

Report Date: 09/08/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7751
Lab ID: LCS-228-RA226-11802	3	Laboratory Control Sample			Run: TENNELEC-4_250825A			08/28/25 13:04		
Radium 228		9.7	pCi/L	107		70	130			
Radium 228 precision (±)		2.6	pCi/L							
Radium 228 MDC		1.1	pCi/L							
Lab ID: MB-RA226-11802	3	Method Blank			Run: TENNELEC-4_250825A			08/28/25 13:04		
Radium 228		0.3	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1	pCi/L							
Lab ID: B25081110-001HDUP	3	Sample Duplicate			Run: TENNELEC-4_250825A			08/28/25 13:04		
Radium 228		0.93	pCi/L					91	30	UR
Radium 228 precision (±)		0.74	pCi/L							
Radium 228 MDC		1.2	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 0.58.

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected



Work Order Receipt Checklist

Linkan Engineering

B25081110

Login completed by: Crystal M. Jones

Date Received: 8/13/2025

Reviewed by: darcy

Received by: CMJ

Reviewed Date: 8/14/2025

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:	6.0°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

B25081110

pH < 2. CMJ 08/13/25

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



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	Receive Report		
Purchase Order	25-0152		☐ Hard Copy	☒ Email	Bottle Order
			H17287		
			196586		

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/JEDT (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.schwibert@linkan.com
 peter.hays@state.co.us

Project Information

Project Name, PWSID, Permit, etc. Schwartzwalder Mine	
Sampler Name <i>Patrick Delaney</i>	Sampler Phone <i>315-414-6486</i>
Sample Origin State <i>Colorado</i>	EPA/State Compliance ☒ Yes ☐ No
URANIUM MINING CLIENTS MUST indicate sample type	
☐ Unprocessed Ore ☐ Processed Ore (Ground or Refined) *CALL BEFORE SENDING ☒ 1102 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)	

Matrix Codes	
A - Air	
W - Water	
S - Soils/ Solids	
V - Vegetation	
B - Bioassay	
O - Oil	
DW - Drinking Water	

[illegible]

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		Number of Containers	Matrix (See Codes Above)
			Date	Time		
1	Outfall 001A		8/12/25	14:00	8	W
2						
3						
4						
5						
6						
7						
8						
9						

Relinquished by (print)	Date/Time	Signature

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)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	LABORATORY USE ONLY		
				Temp Blank	On Ice	
				Y N	Y N	
				Receipt Temp		
				°C		
				Payment Type		
				CC	Cash	
				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 196586



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

Order Created by: Yvonna E. Smith

Shipped From: Billings, MT

Ship Date: 7/28/2025

VIA: Ground

Quote Used: 17287

Bottle Size/Type	Bottles Per Samp	Method	Tests	Critical Hold Time	Preservative	Notes	Num of Samp
Outfall 001A Weekly COD (5 Sets)							
500 mL Plastic	1	E410.4	Chemical Oxygen Demand		H2SO4		1
		HACH 8000	Preparation for COD testing HACH 8000				
Outfall 001A 3 Times Weekly TSS (15 Sets)							
1 Liter Plastic Wide Mouth	1	A2540-D	Solids, Total Suspended			Fill to the neck of the container.	1
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#: 196586

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

1 Liter Plastic	1 A2540 C	Solids, Total Dissolved		1
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Table 1.1 (2 Sets)

120 mL Plastic	1 E365.1	Low Level Phosphorus, Orthophosphate as P	48.00 hrs	Filter Sample	1
1 Liter Plastic	1 E300.0 A2540 C	Anions by Ion Chromatography Solids, Total Dissolved			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	Metals by ICP/ICPMS, Dissolved		Filter before preservation	1
250 mL Plastic	1 E200.7_8 E200.2	Metals by ICP/ICPMS, Total Metals Digestion by E200.2	HNO3 HNO3		1
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 A7500-RA E903.0 RA-05	Radium 226 + Radium 228 Radium 226, Total Radium 228, Total	HNO3	This now only requires one (1) 15mL nitric acid vial for preservation.	1

BO#: 196586

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.						