



B25061750_Schwartzwalder Mine

3 messages

Stacie M. Helms <SHelms@energylab.com>

Tue, Jul 15, 2025 at 3:54 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>

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Please rate your experience or report an issue by clicking [HERE](#) or scanning this QR code below.



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

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2 attachments

 **B25061750-EDD-ELICSV-WITH-HEADER-1.CSV**
9K

 **B25061750-FINAL REPORT-1.PDF**
2072K

Chris Prosper <chris.prosper@linkan.com>
To: "Hays - DNR, Peter" <peter.hays@state.co.us>
Cc: Adam Billin <Adam.Billin@linkan.com>

Tue, Jul 15, 2025 at 4:07 PM

Hello Peter,

Just wanted to highlight that this sample was the Denver Water sample.

Thanks,

Chris Prosper

Engineer



Office: 775-777-8003

Cell: 719-247-0564

400 Corporate Circle • Suite H

Golden, Colorado 80401

An Employee-Owned Company

linkan.com • chris.prosper@linkan.com

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2 attachments

 **B25061750-EDD-ELICSV-WITH-HEADER-1.CSV**
9K

 **B25061750-FINAL REPORT-1.PDF**
2072K

Hays - DNR, Peter <peter.hays@state.co.us>
To: Chris Prosper <chris.prosper@linkan.com>
Cc: Adam Billin <Adam.Billin@linkan.com>

Wed, Jul 16, 2025 at 10:18 AM

Got it. Thank you.

Peter Hays
Project Manager
Inactive Mine Reclamation Program



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

I am working remotely and can be reached at 720.786.0024.

C 720.786.0024 | P 303.866.3567 Ext. 8124 | F 303.832.8106
Physical - 1313 Sherman St., Room 215, Denver, CO 80203
Mailing - 1001 E 62nd Ave., Denver, CO 80216
peter.hays@state.co.us | <https://drms.colorado.gov>

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ANALYTICAL SUMMARY REPORT

July 15, 2025

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

Work Order: B25061750 Quote ID: B17287

Project Name: Schwartzwalder Mine

Energy Laboratories Inc Billings MT received the following 1 sample for Linkan Engineering on 6/19/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25061750-001	DW Sample	06/17/25 09:50	06/19/25	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Cyanide, Weak Acid Dissociable Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite Metals Digestion by E200.2 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, 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: B25061750

Report Date: 07/15/25

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: B25061750-001
Client Sample ID: DW Sample

Report Date: 07/15/25
Collection Date: 06/17/25 09:50
Date Received: 06/19/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Suspended TSS @ 105 C	0.8	mg/L	J	2		A2540 D	06/20/25 10:01 / pjw
Solids, Total Dissolved TDS @ 180 C	337	mg/L		20		A2540 C	06/19/25 16:13 / etv
INORGANICS							
Sulfate	93	mg/L		1		E300.0	06/21/25 05:07 / caa
Fluoride	0.33	mg/L		0.01		E300.0	06/21/25 05:07 / caa
Cyanide, Weak Acid Dissociable	ND	mg/L		0.001		Kelada-01	06/20/25 12:32 / fap
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.17	mg/L		0.01		E353.2	06/27/25 13:17 / rs4
Phosphorus, Orthophosphate as P	0.004	mg/L	H	0.002		E365.1	06/19/25 16:56 / taz
Phosphorus, Total as P	0.003	mg/L		0.002		E365.1	07/03/25 15:04 / taz
METALS, DISSOLVED							
Copper	0.0010	mg/L		0.0005		E200.8	06/23/25 22:01 / aem
Molybdenum	0.0233	mg/L		0.0001		E200.8	06/21/25 15:09 / aem
Silver	ND	mg/L	L	0.00004		E200.8	06/21/25 15:09 / aem
Uranium	0.354	mg/L		0.00002		E200.8	06/21/25 15:09 / aem
Zinc	0.004	mg/L		0.002		E200.8	06/21/25 15:09 / aem
METALS, TOTAL RECOVERABLE							
Antimony	0.0004	mg/L		0.0001		E200.8	06/25/25 16:48 / aem
Chromium	ND	mg/L		0.0005		E200.8	06/24/25 18:04 / aem
Thallium	ND	mg/L	L	0.0002		E200.8	06/24/25 18:04 / aem
METALS, TOTAL							
Arsenic	0.0002	mg/L		0.0001		E200.8	06/24/25 18:04 / aem
Boron	0.03	mg/L		0.01		E200.7	06/25/25 16:40 / enb
Molybdenum	0.0304	mg/L		0.0001		E200.8	06/25/25 16:48 / aem
Uranium	0.454	mg/L		0.00002		E200.8	06/24/25 18:04 / aem
RADIONUCLIDES - TOTAL							
Gross Alpha	259	pCi/L				E900.0	07/03/25 02:17 / eli-ca
Gross Alpha precision (±)	56.5	pCi/L				E900.0	07/03/25 02:17 / eli-ca
Gross Alpha MDC	2.3	pCi/L				E900.0	07/03/25 02:17 / eli-ca
Gross Beta	64.8	pCi/L				E900.0	07/03/25 02:17 / eli-ca
Gross Beta precision (±)	4.7	pCi/L				E900.0	07/03/25 02:17 / eli-ca
Gross Beta MDC	2.6	pCi/L				E900.0	07/03/25 02:17 / eli-ca
Radium 226	1	pCi/L				E903.0	07/14/25 12:11 / eli-ca
Radium 226 precision (±)	0.2	pCi/L				E903.0	07/14/25 12:11 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	07/14/25 12:11 / eli-ca
Radium 228	1.3	pCi/L				RA-05	07/07/25 15:56 / eli-ca
Radium 228 precision (±)	0.9	pCi/L				RA-05	07/07/25 15:56 / eli-ca
Radium 228 MDC	1.2	pCi/L				RA-05	07/07/25 15:56 / eli-ca
Radium 226 + Radium 228	2.3	pCi/L				A7500-RA	07/15/25 10:19 / eli-ca

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)

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: B25061750-001
Client Sample ID: DW Sample

Report Date: 07/15/25
Collection Date: 06/17/25 09:50
Date Received: 06/19/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 226 + Radium 228 precision ($\pm$)	0.9	pCi/L				A7500-RA	07/15/25 10:19 / eli-ca
Radium 226 + Radium 228 MDC	1.2	pCi/L				A7500-RA	07/15/25 10:19 / 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: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: TDS20250619D
Lab ID: MBLK_20250619-6		Method Blank					Run: Bal #30_250619B			06/19/25 16:10
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	20						
Lab ID: LCS_20250619-5		Laboratory Control Sample					Run: Bal #30_250619B			06/19/25 16:10
Solids, Total Dissolved TDS @ 180 C		929	mg/L	25	93	90	110			
Lab ID: B25061763-001ADUP		Sample Duplicate					Run: Bal #30_250619B			06/19/25 16:14
Solids, Total Dissolved TDS @ 180 C		292	mg/L	25				0.3	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: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: TSS20250620A		
Lab ID: MBLK_20250620-5	Method Blank					Run: BAL #30_250620D		06/20/25 09:59		
Solids, Total Suspended TSS @ 105 C		ND	mg/L	0.6						
Lab ID: LCS_20250620-3	Laboratory Control Sample					Run: BAL #30_250620D		06/20/25 09:59		
Solids, Total Suspended TSS @ 105 C		106	mg/L	25	106	80	120			
Lab ID: B25061772-001BDUP	Sample Duplicate					Run: BAL #30_250620D		06/20/25 10:01		
Solids, Total Suspended TSS @ 105 C		14.3	mg/L	10				2.3	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: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.7							Analytical Run: ICP205-B_250625B		
Lab ID:	ICV	Continuing Calibration Verification Standard							06/25/25 13:49	
Boron		2.55	mg/L	0.10	102	95	105			
Lab ID:	CCV	Continuing Calibration Verification Standard							06/25/25 16:33	
Boron		2.53	mg/L	0.10	101	90	110			
Method:	E200.7							Batch: 200863		
Lab ID:	MB-200863	Method Blank			Run: ICP205-B_250625B			06/25/25 16:30		
Boron		ND	mg/L	0.008						
Lab ID:	LCS3-200863	Laboratory Control Sample			Run: ICP205-B_250625B			06/25/25 16:31		
Boron		1.06	mg/L	0.10	106	85	115			
Lab ID:	B25061765-002CMS3	Sample Matrix Spike			Run: ICP205-B_250625B			06/25/25 16:50		
Boron		1.07	mg/L	0.050	106	70	130			
Lab ID:	B25061765-002CMSD3	Sample Matrix Spike Duplicate			Run: ICP205-B_250625B			06/25/25 16:51		
Boron		1.08	mg/L	0.050	106	70	130	0.2	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: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS207-B_250625A		
Lab ID: QCS	2	Initial Calibration Verification Standard							06/25/25 13:06	
Antimony		0.0406	mg/L	0.0050	102	90	110			
Molybdenum		0.0406	mg/L	0.0050	101	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard							06/25/25 16:13	
Antimony		0.0514	mg/L	0.0050	103	90	110			
Molybdenum		0.0524	mg/L	0.0050	105	90	110			
Method: E200.8										
Lab ID: MB-200863	2	Method Blank				Run: ICPMS207-B_250625A			06/25/25 16:43	
Antimony		ND	mg/L	0.00008						
Molybdenum		ND	mg/L	0.00009						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS208-B_250620A				
Lab ID: QCS	4	Initial Calibration Verification Standard								06/21/25 12:22
Molybdenum		0.0430	mg/L	0.0050	108	90	110			
Silver		0.0206	mg/L	0.0050	103	90	110			
Uranium		0.0378	mg/L	0.00030	95	90	110			
Zinc		0.0386	mg/L	0.0050	96	90	110			
Lab ID: CCV	4	Continuing Calibration Verification Standard								06/21/25 14:57
Molybdenum		0.0528	mg/L	0.0050	106	90	110			
Silver		0.0201	mg/L	0.0050	101	90	110			
Uranium		0.0466	mg/L	0.00030	93	90	110			
Zinc		0.0457	mg/L	0.0050	91	90	110			
Method: E200.8						Batch: R444549				
Lab ID: LRB	4	Method Blank								Run: ICPMS208-B_250620A 06/20/25 17:50
Molybdenum		ND	mg/L	0.00005						
Silver		ND	mg/L	5E-6						
Uranium		ND	mg/L	0.00002						
Zinc		ND	mg/L	0.0008						
Lab ID: LFB	4	Laboratory Fortified Blank								Run: ICPMS208-B_250620A 06/20/25 18:08
Molybdenum		0.0488	mg/L	0.0050	98	85	115			
Silver		0.0185	mg/L	0.0050	92	85	115			
Uranium		0.0509	mg/L	0.00030	102	85	115			
Zinc		0.0451	mg/L	0.0050	90	85	115			
Lab ID: B25061762-001BMS	4	Sample Matrix Spike								Run: ICPMS208-B_250620A 06/21/25 15:44
Molybdenum		0.0538	mg/L	0.0010	104	70	130			
Silver		0.0183	mg/L	0.0010	92	70	130			
Uranium		0.0935	mg/L	0.00030	99	70	130			
Zinc		0.0436	mg/L	0.010	85	70	130			
Lab ID: B25061762-001BMSD	4	Sample Matrix Spike Duplicate								Run: ICPMS208-B_250620A 06/21/25 15:50
Molybdenum		0.0561	mg/L	0.0010	108	70	130	4.2	20	
Silver		0.0191	mg/L	0.0010	95	70	130	3.9	20	
Uranium		0.0950	mg/L	0.00030	102	70	130	1.6	20	
Zinc		0.0441	mg/L	0.010	86	70	130	1.2	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: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Analytical Run: ICPMS209-B_250623A
Lab ID: QCS	5	Initial Calibration Verification Standard								06/23/25 20:02
Arsenic		0.0390	mg/L	0.0050	98	90	110			
Chromium		0.0389	mg/L	0.010	97	90	110			
Copper		0.0385	mg/L	0.010	96	90	110			
Thallium		0.0415	mg/L	0.0050	104	90	110			
Uranium		0.0406	mg/L	0.00030	102	90	110			
Lab ID: CCV	5	Continuing Calibration Verification Standard								06/23/25 21:40
Arsenic		0.0489	mg/L	0.0050	98	90	110			
Chromium		0.0490	mg/L	0.010	98	90	110			
Copper		0.0482	mg/L	0.010	96	90	110			
Thallium		0.0485	mg/L	0.0050	97	90	110			
Uranium		0.0497	mg/L	0.00030	99	90	110			
Lab ID: QCS	5	Initial Calibration Verification Standard								06/24/25 15:41
Arsenic		0.0392	mg/L	0.0050	98	90	110			
Chromium		0.0395	mg/L	0.010	99	90	110			
Copper		0.0386	mg/L	0.010	96	90	110			
Thallium		0.0417	mg/L	0.0050	104	90	110			
Uranium		0.0396	mg/L	0.00030	99	90	110			
Lab ID: CCV	5	Continuing Calibration Verification Standard								06/24/25 17:42
Arsenic		0.0488	mg/L	0.0050	98	90	110			
Chromium		0.0486	mg/L	0.010	97	90	110			
Copper		0.0479	mg/L	0.010	96	90	110			
Thallium		0.0488	mg/L	0.0050	98	90	110			
Uranium		0.0486	mg/L	0.00030	97	90	110			
Method: E200.8										Batch: 200863
Lab ID: MB-200863	6	Method Blank							Run: ICPMS209-B_250623A	06/24/25 16:47
Antimony		0.0001	mg/L	0.00002						
Arsenic		ND	mg/L	0.00003						
Chromium		ND	mg/L	0.0003						
Molybdenum		ND	mg/L	0.0001						
Thallium		ND	mg/L	0.00008						
Uranium		ND	mg/L	0.00001						
Lab ID: LCS4-200863	6	Laboratory Control Sample							Run: ICPMS209-B_250623A	06/24/25 16:53
Antimony		0.0991	mg/L	0.0050	99	85	115			
Arsenic		0.0956	mg/L	0.0010	96	85	115			
Chromium		0.0945	mg/L	0.0010	94	85	115			
Molybdenum		0.0949	mg/L	0.0050	95	85	115			
Thallium		0.103	mg/L	0.0010	103	85	115			
Uranium		0.101	mg/L	0.00030	101	85	115			
Lab ID: B25061749-001EMS4	6	Sample Matrix Spike							Run: ICPMS209-B_250623A	06/24/25 17:36
Antimony		0.0944	mg/L	0.0010	94	70	130			
Arsenic		0.0964	mg/L	0.0010	96	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: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 200863
Lab ID: B25061749-001EMS4	6	Sample Matrix Spike				Run: ICPMS209-B_250623A				06/24/25 17:36
Chromium		0.0949	mg/L	0.0050	94	70	130			
Molybdenum		0.0926	mg/L	0.0010	92	70	130			
Thallium		0.101	mg/L	0.00050	101	70	130			
Uranium		0.109	mg/L	0.00030	100	70	130			
Lab ID: B25061749-001EMSD4	6	Sample Matrix Spike Duplicate				Run: ICPMS209-B_250623A				06/24/25 17:53
Antimony		0.0954	mg/L	0.0010	95	70	130	1.1	20	
Arsenic		0.0953	mg/L	0.0010	95	70	130	1.1	20	
Chromium		0.0934	mg/L	0.0050	93	70	130	1.7	20	
Molybdenum		0.0928	mg/L	0.0010	92	70	130	0.2	20	
Thallium		0.104	mg/L	0.00050	104	70	130	2.3	20	
Uranium		0.110	mg/L	0.00030	102	70	130	1.1	20	
Method: E200.8										Batch: R444636
Lab ID: LRB		Method Blank				Run: ICPMS209-B_250623A				06/23/25 11:40
Copper		ND	mg/L	0.00005						
Lab ID: LFB		Laboratory Fortified Blank				Run: ICPMS209-B_250623A				06/23/25 20:29
Copper		0.0439	mg/L	0.010	88	85	115			
Lab ID: B25061756-001BMS		Sample Matrix Spike				Run: ICPMS209-B_250623A				06/23/25 22:12
Copper		0.0665	mg/L	0.0050	66	70	130			S
Lab ID: B25061756-001BMSD		Sample Matrix Spike Duplicate				Run: ICPMS209-B_250623A				06/23/25 22:50
Copper		0.0669	mg/L	0.0050	67	70	130	0.7	20	S

Qualifiers:

RL - Analyte Reporting 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: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0						Analytical Run: IC METROHM 1_250619A				
Lab ID: ICV	2	Initial Calibration Verification Standard								06/19/25 11:38
Sulfate		104	mg/L	1.0	104	90	110			
Fluoride		1.23	mg/L	0.10	99	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard								06/21/25 02:55
Sulfate		102	mg/L	1.0	102	90	110			
Fluoride		1.24	mg/L	0.10	99	90	110			
Method: E300.0						Batch: R444488				
Lab ID: ICB	2	Method Blank								Run: IC METROHM 1_250619A 06/19/25 11:55
Sulfate		ND	mg/L	0.5						
Fluoride		ND	mg/L	0.01						
Lab ID: LFB	2	Laboratory Fortified Blank								Run: IC METROHM 1_250619A 06/19/25 12:11
Sulfate		103	mg/L	1.1	103	90	110			
Fluoride		1.28	mg/L	0.10	102	90	110			
Lab ID: B25061665-010AMS	2	Sample Matrix Spike								Run: IC METROHM 1_250619A 06/21/25 03:45
Sulfate		9250	mg/L	21	94	90	110			
Fluoride		25.5	mg/L	0.26	101	90	110			
Lab ID: B25061665-010AMSD	2	Sample Matrix Spike Duplicate								Run: IC METROHM 1_250619A 06/21/25 04:01
Sulfate		9130	mg/L	21	88	90	110	1.3	20	S
Fluoride		25.0	mg/L	0.26	99	90	110	2.1	20	

Qualifiers:

RL - Analyte Reporting 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: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Analytical Run: FIA203-B_250627A		
Lab ID: ICV	Initial Calibration Verification Standard		06/27/25 10:50							
Nitrogen, Nitrate+Nitrite as N	0.550	mg/L	0.010	97	90	110				
Lab ID: CCV_20250627-8	Continuing Calibration Verification Standard		06/27/25 13:04							
Nitrogen, Nitrate+Nitrite as N	1.01	mg/L	0.010	101	90	110				
Method: E353.2								Batch: R444974		
Lab ID: FilterMBLK	Method Blank		Run: FIA203-B_250627A				06/27/25 10:51			
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.009							
Lab ID: MBLK_20250627-3	Method Blank		Run: FIA203-B_250627A				06/27/25 10:52			
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.009							
Lab ID: FilterLFB	Laboratory Fortified Blank		Run: FIA203-B_250627A				06/27/25 10:53			
Nitrogen, Nitrate+Nitrite as N	0.969	mg/L	0.010	97	90	110				
Lab ID: LFB_20250627-1	Laboratory Fortified Blank		Run: FIA203-B_250627A				06/27/25 10:54			
Nitrogen, Nitrate+Nitrite as N	0.999	mg/L	0.010	100	90	110				
Lab ID: B25061763-001CMS	Sample Matrix Spike		Run: FIA203-B_250627A				06/27/25 13:22			
Nitrogen, Nitrate+Nitrite as N	1.10	mg/L	0.010	103	90	110				
Lab ID: B25061763-001CMSD	Sample Matrix Spike Duplicate		Run: FIA203-B_250627A				06/27/25 13:24			
Nitrogen, Nitrate+Nitrite as N	1.14	mg/L	0.010	107	90	110	3.4	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: B25061750

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada-01								Analytical Run: SFA-202-B_250620A		
Lab ID: ICV	Initial Calibration Verification Standard			06/20/25 11:54						
Cyanide, Weak Acid Dissociable	0.00966	mg/L	0.0010	97	90	110				
Method: Kelada-01								Batch: R444536		
Lab ID: ICB	Method Blank			Run: SFA-202-B_250620A						
Cyanide, Weak Acid Dissociable	ND	mg/L	0.0007	06/20/25 11:56						
Lab ID: LCS1-ZnCN	Laboratory Control Sample			Run: SFA-202-B_250620A						
Cyanide, Weak Acid Dissociable	0.0107	mg/L	0.0010	107	90	110	06/20/25 12:00			
Lab ID: B25061579-001GMS	Sample Matrix Spike			Run: SFA-202-B_250620A						
Cyanide, Weak Acid Dissociable	0.0104	mg/L	0.0010	104	80	120	06/20/25 12:18			
Lab ID: B25061579-001GMSD	Sample Matrix Spike Duplicate			Run: SFA-202-B_250620A						
Cyanide, Weak Acid Dissociable	0.0109	mg/L	0.0010	109	80	120	4.2	10	06/20/25 12:22	
Lab ID: LFB	Laboratory Fortified Blank			Run: SFA-202-B_250620A						
Cyanide, Weak Acid Dissociable	0.0110	mg/L	0.0010	110	90	110	06/20/25 12:44			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061750

Report Date: 07/08/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E365.1										Analytical Run: FIA204-B_250619A
Lab ID: CCV		Continuing Calibration Verification Standard								06/19/25 16:23
Phosphorus, Orthophosphate as P		0.498	mg/L	0.0050	100	90	110			
Lab ID: ICV		Initial Calibration Verification Standard								06/19/25 16:49
Phosphorus, Orthophosphate as P		0.251	mg/L	0.0050	100	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								06/19/25 17:08
Phosphorus, Orthophosphate as P		0.490	mg/L	0.0050	98	90	110			
Method: E365.1										Batch: R444469
Lab ID: ICB		Method Blank								06/19/25 16:52
Phosphorus, Orthophosphate as P		ND	mg/L	0.001						
Lab ID: LFB		Laboratory Fortified Blank								06/19/25 16:53
Phosphorus, Orthophosphate as P		0.256	mg/L	0.0050	102	90	110			
Lab ID: B25061751-001AMS		Sample Matrix Spike								06/19/25 16:58
Phosphorus, Orthophosphate as P		0.251	mg/L	0.0020	98	90	110			
Lab ID: B25061751-001AMSD		Sample Matrix Spike Duplicate								06/19/25 16:59
Phosphorus, Orthophosphate as P		0.257	mg/L	0.0020	100	90	110	2.4	10	
Method: E365.1										Analytical Run: SEAL201-B_250703A
Lab ID: ICV-198785		Initial Calibration Verification Standard								07/03/25 13:55
Phosphorus, Total as P		0.506	mg/L	0.0050	101	90	110			
Lab ID: CCV-198785		Continuing Calibration Verification Standard								07/03/25 14:59
Phosphorus, Total as P		0.510	mg/L	0.0050	102	90	110			
Method: E365.1										Batch: 201120
Lab ID: MB-201120		Method Blank								07/03/25 15:02
Phosphorus, Total as P		ND	mg/L	0.002						
Lab ID: LCS-201120		Laboratory Control Sample								07/03/25 15:03
Phosphorus, Total as P		0.185	mg/L	0.0020	92	90	110			
Lab ID: B25070078-002CMS		Sample Matrix Spike								07/03/25 15:08
Phosphorus, Total as P		1.46	mg/L	0.010	100	90	110			
Lab ID: B25070078-002CMSD		Sample Matrix Spike Duplicate								07/03/25 15:09
Phosphorus, Total as P		1.45	mg/L	0.010	99	90	110	0.6	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: B25061750

Report Date: 07/15/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: GrAB-3434
Lab ID: Th230-GrAB-3434	3	Laboratory Control Sample				Run: TENNELEC-4_250627C				07/03/25 02:17
Gross Alpha		84	pCi/L		84	70	130			
Gross Alpha precision (±)		19	pCi/L							
Gross Alpha MDC		1.6	pCi/L							
Lab ID: Sr90-GrAB-3434	3	Laboratory Control Sample				Run: TENNELEC-4_250627C				07/03/25 02:17
Gross Beta		170	pCi/L		93	70	130			
Gross Beta precision (±)		12	pCi/L							
Gross Beta MDC		2.3	pCi/L							
Lab ID: MB-GrAB-3434	6	Method Blank				Run: TENNELEC-4_250627C				07/03/25 02:17
Gross Alpha		-0.9	pCi/L							U
Gross Alpha precision (±)		1	pCi/L							
Gross Alpha MDC		2	pCi/L							
Gross Beta		0.6	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		2	pCi/L							
Lab ID: C25060565-001DMS	3	Sample Matrix Spike				Run: TENNELEC-4_250627C				07/03/25 02:17
Gross Alpha		660	pCi/L		112	70	130			
Gross Alpha precision (±)		140	pCi/L							
Gross Alpha MDC		2.0	pCi/L							
Lab ID: C25060565-001DMSD	3	Sample Matrix Spike Duplicate				Run: TENNELEC-4_250627C				07/03/25 02:17
Gross Alpha		700	pCi/L		143	70	130	4.6	30	S
Gross Alpha precision (±)		150	pCi/L							
Gross Alpha MDC		2.1	pCi/L							
- The RER result is 0.15.										
Lab ID: C25060565-004DMS1	3	Sample Matrix Spike				Run: TENNELEC-4_250627C				07/03/25 02:17
Gross Beta		170	pCi/L		95	70	130			
Gross Beta precision (±)		12	pCi/L							
Gross Beta MDC		2.3	pCi/L							
Lab ID: C25060565-004DMSD1	3	Sample Matrix Spike Duplicate				Run: TENNELEC-4_250627C				07/03/25 02:17
Gross Beta		170	pCi/L		95	70	130	0.3	30	
Gross Beta precision (±)		12	pCi/L							
Gross Beta MDC		2.5	pCi/L							
- The RER result is 0.03.										

Qualifiers:

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits

ND - Not detected at the Reporting Limit (RL)

U - Not detected



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25061750

Report Date: 07/15/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-11722
Lab ID: LCS-RA226-11722	3	Laboratory Control Sample				Run: TENNELEC-4_250630G				07/14/25 10:03
Radium 226		9.9	pCi/L	99		70	130			
Radium 226 precision (±)		1.6	pCi/L							
Radium 226 MDC		0.14	pCi/L							
Lab ID: MB-RA226-11722	3	Method Blank				Run: TENNELEC-4_250630G				07/14/25 10:03
Radium 226		-0.01	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Lab ID: C25060659-001HDUP	3	Sample Duplicate				Run: TENNELEC-4_250630G				07/14/25 10:03
Radium 226		0.38	pCi/L					27	30	
Radium 226 precision (±)		0.16	pCi/L							
Radium 226 MDC		0.19	pCi/L							
- The RER result is 0.53.										

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: B25061750

Report Date: 07/15/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7689
Lab ID: LCS-228-RA226-11722	3	Laboratory Control Sample				Run: TENNELEC-4_250630D				07/07/25 15:06
Radium 228		10	pCi/L	110		70	130			
Radium 228 precision (±)		2.7	pCi/L							
Radium 228 MDC		1.1	pCi/L							
Lab ID: MB-RA226-11722	3	Method Blank				Run: TENNELEC-4_250630D				07/07/25 15:07
Radium 228		0.2	pCi/L							U
Radium 228 precision (±)		0.7	pCi/L							
Radium 228 MDC		1	pCi/L							
Lab ID: C25060659-001HDUP	3	Sample Duplicate				Run: TENNELEC-4_250630D				07/07/25 15:07
Radium 228		-0.23	pCi/L					1100	30	UR
Radium 228 precision (±)		0.79	pCi/L							
Radium 228 MDC		1.4	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 0.50.

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

B25061750

Login completed by: Darcy Chirrick

Date Received: 6/19/2025

Reviewed by: ysmith

Received by: CMJ

Reviewed Date: 7/1/2025

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:	8.3°C Melted 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:

Orthophosphate was received past the holding time. Proceed with analysis per phone conversation with Chris Prosper on 06/19/25. DEC 06/19/25

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

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 ☐ Hard Copy ☐ Email ☐
 Purchase Order ☐ Quote ☐
25-0152 **17287**

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

Special request Sample

Please email Report and EDD to:
 Chris.Prosper@linkan.com
 adam.Billin@linkan.com
 alex.schwiebert@linkan.com
 peter.hays@state.co.us

Page ____ of ____

Project Information

Project Name, PWSID, Permit, etc. **Schwartzwalder Mine**
 Sampler Name **Chris Prosper** Sampler Phone **714-247-0564**
 Sample Origin State **CO** 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 - Bioassay
- O - Oil
- DW - Drinking Water

Sample Identification (Name, Location, Interval, etc.)	Collection Date	Time	Matrix (See Codes Above)
1 DW sample	6/17/24	09:50	W
2			
3			
4			
5			
6			
7			
8			
9			

Analysis Requested

Arsons (E300.0)	Total Suspended Solids	Metals, Dissolved	Metals, Total	Nitrogen, Nitrate + Nitrite	Cyanide, WAD	Gold, Alpha, Gross Beta, Total	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

RUSH	ELI LAB ID
TAT	628061750

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	Signature <i>Chris Prosper</i>	Date/Time 6/17/24 12:00
	Relinquished by (print)	Signature	Date/Time
Shipped By	Cooler ID(s)	Custody Seals	Intact
	Y N C B	Y N C B	Y N
Receipt Temp °C		Temp Blank	On Ice
Y N		Y N	Y N
LABORATORY USE ONLY		Received by Laboratory (print) Crystal Jure	Signature <i>Crystal Jure</i>
Date/Time 6/19/25 03:30		Date/Time 6/19/25 03:30	Signature <i>Crystal Jure</i>
Amount \$		Payment Type	Receipt Number (cash check only)
CC		Cash	Check

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 193746



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 - Table 1.1

Order Created by: Yvonna E. Smith

Shipped From: Billings, MT

Ship Date: 4/17/2025

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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Table 1.1 (4 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		☒ HNO3	Filter before preservation	1
250 mL Plastic	1	E200.7_8 E200.2	Metals by ICP/ICPMS, Total Metals Digestion by E200.2		☒ 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

BO#: 193746

1 of 2

1 Carbon 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
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Comments

☒ HNO3 - Nitric Acid ☐ H2SO4 - Sulfuric Acid ☒ NaOH - Sodium Hydroxide ☒ ZnAc - Zinc Acetate ☐ HCl - Hydrochloric Acid ☐ H3PO4 - Phosphoric Acid	We strongly suggest that the samples are shipped the same day as they are collected.
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#: 193746

2 of 2