



B25071973_Schwartzwalder Mine

1 message

Stacie M. Helms <SHelms@energylab.com>

Fri, Aug 8, 2025 at 5:02 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

 **B25071973-EDD-ELICSV-WITH-HEADER-1.CSV**
9K



B25071973-FINAL REPORT-1.PDF

2268K



ANALYTICAL SUMMARY REPORT

August 08, 2025

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

Work Order: B25071973 Quote ID: B17287

Project Name: Schwartzwalder Mine

Energy Laboratories Inc Billings MT received the following 1 sample for Linkan Engineering on 7/23/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25071973-001	Outfall 001A	07/22/25 14:20	07/23/25	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.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25071973-001
Client Sample ID: Outfall 001A

Report Date: 08/08/25
Collection Date: 07/22/25 14:20
Date Received: 07/23/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	2	mg/L		1		E300.0	07/23/25 22:27 / caa
Sulfate	12	mg/L		1		E300.0	07/23/25 22:27 / caa
Fluoride	0.02	mg/L	J	0.1		E300.0	07/23/25 22:27 / caa
Cyanide, Weak Acid Dissociable	ND	ug/L		1		Kelada-01	07/24/25 15:06 / fap
Sulfide	ND	mg/L		0.04		A4500-S D	07/24/25 11:23 / pmw
METALS, DISSOLVED							
Chromium, Hexavalent	ND	ug/L		10		A3500-Cr B	07/23/25 11:45 / aem
Iron	20	ug/L	J	20		E200.8	07/25/25 23:21 / jks
Manganese	1	ug/L		1		E200.7	07/24/25 16:30 / enb
METALS, POTENTIALLY DISSOLVED							
Cadmium	ND	ug/L		1		E200.8	07/25/25 23:42 / jks
Copper	0.3	ug/L	JL	0.5		E200.8	07/31/25 22:36 / jks
Nickel	0.1	ug/L	J	5		E200.8	07/25/25 23:42 / jks
Selenium	ND	ug/L		1		E200.8	07/25/25 23:42 / jks
Silver	ND	ug/L	L	0.04		E200.8	07/27/25 12:32 / jks
Zinc	ND	ug/L		10		E200.8	07/25/25 23:42 / jks
METALS, TOTAL RECOVERABLE							
Arsenic	4	ug/L		1		E200.8	07/26/25 12:43 / jks
Chromium	ND	ug/L		5		E200.8	07/26/25 12:43 / jks
Chromium, Trivalent	ND	ug/L		10		Calculation	08/01/25 09:17 / jbm
Iron	30	ug/L		20		E200.8	08/01/25 14:30 / aem
Uranium	10.5	ug/L		0.3		E200.8	07/26/25 12:43 / jks
METALS, TOTAL							
Antimony	ND	ug/L		1		E200.8	07/26/25 12:43 / jks
Boron	180	ug/L		50		E200.7	07/25/25 17:07 / enb
Mercury	ND	ug/L		0.1		E245.1	07/24/25 10:24 / mjb
Thallium	ND	ug/L		0.5		E200.8	07/26/25 12:43 / jks
RADIONUCLIDES - DISSOLVED							
Radium 226	0.3	pCi/L				E903.0	08/07/25 15:40 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	08/07/25 15:40 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	08/07/25 15:40 / eli-ca
RADIONUCLIDES - TOTAL							
Radium 226	0.2	pCi/L				E903.0	08/07/25 13:15 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	08/07/25 13:15 / eli-ca
Radium 226 MDC	0.1	pCi/L				E903.0	08/07/25 13:15 / eli-ca
Radium 228	0.6	pCi/L	U			RA-05	07/31/25 13:53 / eli-ca
Radium 228 precision (±)	0.5	pCi/L				RA-05	07/31/25 13:53 / eli-ca
Radium 228 MDC	0.8	pCi/L				RA-05	07/31/25 13:53 / eli-ca
Radium 226 + Radium 228	0.6	pCi/L	U			A7500-RA	08/08/25 10:59 / 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: B25071973-001
Client Sample ID: Outfall 001A

Report Date: 08/08/25
Collection Date: 07/22/25 14:20
DateReceived: 07/23/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 226 + Radium 228 precision ($\pm$)	0.5	pCi/L				A7500-RA	08/08/25 10:59 / eli-ca
Radium 226 + Radium 228 MDC	0.8	pCi/L				A7500-RA	08/08/25 10:59 / 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 Casper, WY Branch

Work Order: B25071973

Report Date: 08/08/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-11760
Lab ID: LCS-RA226-11760	3	Laboratory Control Sample				Run: TENNELEC-3_250728A				08/07/25 13:18
Radium 226		8.8	pCi/L	88		70	130			
Radium 226 precision (±)		1.4	pCi/L							
Radium 226 MDC		0.19	pCi/L							
Lab ID: MB-RA226-11760	3	Method Blank				Run: TENNELEC-3_250728A				08/07/25 13:18
Radium 226		-0.01	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25070854-002DDUP	3	Sample Duplicate				Run: TENNELEC-3_250728A				08/07/25 15:40
Radium 226		0.033	pCi/L					26	30	U
Radium 226 precision (±)		0.099	pCi/L							
Radium 226 MDC		0.16	pCi/L							
- The RER result is 0.06.										
Method: E903.0										Batch: RA226-11763
Lab ID: LCS-RA226-11763	3	Laboratory Control Sample				Run: TENNELEC-4_250725H				08/07/25 10:20
Radium 226		10	pCi/L	100		70	130			
Radium 226 precision (±)		1.6	pCi/L							
Radium 226 MDC		0.13	pCi/L							
Lab ID: MB-RA226-11763	3	Method Blank				Run: TENNELEC-4_250725H				08/07/25 10:20
Radium 226		0.05	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Lab ID: C25070615-004ADUP	3	Sample Duplicate				Run: TENNELEC-4_250725H				08/07/25 13:15
Radium 226		2.3	pCi/L					2.4	30	
Radium 226 precision (±)		0.43	pCi/L							
Radium 226 MDC		0.15	pCi/L							
- The RER result is 0.09.										

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: B25071973

Report Date: 08/08/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7724
Lab ID: LCS-228-RA226-11763	3	Laboratory Control Sample				Run: TENNELEC-4_250725E				07/31/25 13:53
Radium 228		8.2	pCi/L	89		70	130			
Radium 228 precision (±)		2.2	pCi/L							
Radium 228 MDC		0.86	pCi/L							
Lab ID: MB-RA226-11763	3	Method Blank				Run: TENNELEC-4_250725E				07/31/25 13:53
Radium 228		0.3	pCi/L							U
Radium 228 precision (±)		0.5	pCi/L							
Radium 228 MDC		0.8	pCi/L							
Lab ID: C25070615-004ADUP	3	Sample Duplicate				Run: TENNELEC-4_250725E				07/31/25 13:53
Radium 228		2.5	pCi/L					1.4	30	
Radium 228 precision (±)		0.93	pCi/L							
Radium 228 MDC		0.89	pCi/L							
- The RER result is 0.03.										

Qualifiers:

RL - Analyte Reporting Limit
U - Not detected

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 08/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B										
Analytical Run: SPEC3_250723B										
Lab ID: CCV	Continuing Calibration Verification Standard									
Chromium, Hexavalent		0.0984	mg/L	0.010	98	90	110			07/23/25 11:45
Method: A3500-Cr B										
Batch: R446279										
Lab ID: MBLK	Method Blank									
Chromium, Hexavalent		ND	mg/L	0.003						Run: SPEC3_250723B 07/23/25 11:45
Lab ID: LCS	Laboratory Control Sample									
Chromium, Hexavalent		0.102	mg/L	0.010	102	90	110			Run: SPEC3_250723B 07/23/25 11:45
Lab ID: B25071973-001AMS	Sample Matrix Spike									
Chromium, Hexavalent		0.0999	mg/L	0.010	100	80	120			Run: SPEC3_250723B 07/23/25 11:45
Lab ID: B25071973-001AMSD	Sample Matrix Spike Duplicate									
Chromium, Hexavalent		0.0999	mg/L	0.010	100	80	120	0.0	20	Run: SPEC3_250723B 07/23/25 11:45

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 08/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7 Analytical Run: ICP205-B_250724B										
Lab ID: ICV	Continuing Calibration Verification Standard									
Manganese		2.43	mg/L	0.010	97	95	105			07/24/25 14:44
Lab ID: CCV	Continuing Calibration Verification Standard									
Manganese		2.38	mg/L	0.010	95	90	110			07/24/25 16:16
Method: E200.7 Batch: R446447										
Lab ID: MB-5900DIS250724A	Method Blank									
Manganese		ND	mg/L	0.0004						07/24/25 14:59
Lab ID: LFB-5900DIS250724A	Laboratory Fortified Blank									
Manganese		5.41	mg/L	0.010	108	85	115			07/24/25 15:00
Lab ID: B25071970-018BMS2	Sample Matrix Spike									
Manganese		5.07	mg/L	0.0010	100	70	130			07/24/25 16:22
Lab ID: B25071970-018BMSD2	Sample Matrix Spike Duplicate									
Manganese		5.04	mg/L	0.0010	99	70	130	0.5	20	07/24/25 16:24
Method: E200.7 Analytical Run: ICP205-B_250725A										
Lab ID: ICV	Continuing Calibration Verification Standard									
Boron		2.53	mg/L	0.10	101	95	105			07/25/25 14:52
Lab ID: CCV	Continuing Calibration Verification Standard									
Boron		2.46	mg/L	0.10	99	90	110			07/25/25 16:53
Method: E200.7 Batch: 201819										
Lab ID: MB-201819	Method Blank									
Boron		ND	mg/L	0.008						07/25/25 16:52
Lab ID: LCS3-201819	Laboratory Control Sample									
Boron		1.04	mg/L	0.10	104	85	115			07/25/25 16:56
Lab ID: B25071949-001CMS3	Sample Matrix Spike									
Boron		1.06	mg/L	0.050	104	70	130			07/25/25 17:01
Lab ID: B25071949-001CMSD3	Sample Matrix Spike Duplicate									
Boron		1.08	mg/L	0.050	105	70	130	1.4	20	07/25/25 17:02

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 08/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Analytical Run: ICPMS207-B_250801A
Lab ID: QCS	Initial Calibration Verification Standard									08/01/25 11:59
Iron		0.197	mg/L	0.020	98	90	110			
Lab ID: CCV										Continuing Calibration Verification Standard
Iron		1.28	mg/L	0.020	99	90	110			08/01/25 13:26
Method: E200.8										Batch: 201819
Lab ID: MB-201819	Method Blank									Run: ICPMS207-B_250801A
Iron		ND	mg/L	0.004						08/01/25 14:25
Method: E200.8										Analytical Run: ICPMS208-B_250731A
Lab ID: QCS	Initial Calibration Verification Standard									07/31/25 21:13
Copper		0.0378	mg/L	0.010	95	90	110			
Lab ID: CCV										Continuing Calibration Verification Standard
Copper		0.0481	mg/L	0.010	96	90	110			07/31/25 21:19
Method: E200.8										Batch: R446795
Lab ID: LRB	Method Blank									Run: ICPMS208-B_250731A
Copper		ND	mg/L	0.00007						07/31/25 12:12
Lab ID: LFB										Laboratory Fortified Blank
Copper		0.0454	mg/L	0.010	91	85	115			07/31/25 12:30
Lab ID: MB-202012										Method Blank
Copper		0.0001	mg/L	0.00007						Run: ICPMS208-B_250731A
Lab ID: B25072338-001AMS										Sample Matrix Spike
Copper		0.0612	mg/L	0.0050	94	70	130			Run: ICPMS208-B_250731A
Lab ID: B25072338-001AMSD										Sample Matrix Spike Duplicate
Copper		0.0646	mg/L	0.0050	101	70	130	5.4	20	Run: ICPMS208-B_250731A

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 08/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS209-B_250725A								
Lab ID: QCS	11 Initial Calibration Verification Standard									07/25/25 20:27
Antimony		0.0404	mg/L	0.0050	101	90	110			
Arsenic		0.0377	mg/L	0.0050	94	90	110			
Cadmium		0.0211	mg/L	0.0010	105	90	110			
Chromium		0.0378	mg/L	0.010	95	90	110			
Iron		0.213	mg/L	0.020	107	90	110			
Nickel		0.0377	mg/L	0.0050	94	90	110			
Selenium		0.0377	mg/L	0.0050	94	90	110			
Silver		0.0208	mg/L	0.0050	104	90	110			
Thallium		0.0428	mg/L	0.0050	107	90	110			
Uranium		0.0419	mg/L	0.00030	105	90	110			
Zinc		0.0368	mg/L	0.0050	92	90	110			
Lab ID: CCV	11 Continuing Calibration Verification Standard									07/25/25 23:04
Antimony		0.0477	mg/L	0.0050	95	90	110			
Arsenic		0.0474	mg/L	0.0050	95	90	110			
Cadmium		0.0485	mg/L	0.0010	97	90	110			
Chromium		0.0477	mg/L	0.010	95	90	110			
Iron		1.36	mg/L	0.020	104	90	110			
Nickel		0.0466	mg/L	0.0050	93	90	110			
Selenium		0.0475	mg/L	0.0050	95	90	110			
Silver		0.0194	mg/L	0.0050	97	90	110			
Thallium		0.0494	mg/L	0.0050	99	90	110			
Uranium		0.0504	mg/L	0.00030	101	90	110			
Zinc		0.0456	mg/L	0.0050	91	90	110			
Lab ID: QCS	11 Initial Calibration Verification Standard									07/26/25 09:32
Antimony		0.0419	mg/L	0.0050	105	90	110			
Arsenic		0.0380	mg/L	0.0050	95	90	110			
Cadmium		0.0197	mg/L	0.0010	98	90	110			
Chromium		0.0381	mg/L	0.010	95	90	110			
Iron		0.202	mg/L	0.020	101	90	110			
Nickel		0.0382	mg/L	0.0050	96	90	110			
Selenium		0.0382	mg/L	0.0050	95	90	110			
Silver		0.0196	mg/L	0.0050	98	90	110			
Thallium		0.0402	mg/L	0.0050	100	90	110			
Uranium		0.0386	mg/L	0.00030	96	90	110			
Zinc		0.0379	mg/L	0.0050	95	90	110			
Lab ID: CCV	11 Continuing Calibration Verification Standard									07/26/25 12:32
Antimony		0.0536	mg/L	0.0050	107	90	110			
Arsenic		0.0473	mg/L	0.0050	95	90	110			
Cadmium		0.0497	mg/L	0.0010	99	90	110			
Chromium		0.0474	mg/L	0.010	95	90	110			
Iron		1.25	mg/L	0.020	96	90	110			
Nickel		0.0474	mg/L	0.0050	95	90	110			
Selenium		0.0468	mg/L	0.0050	94	90	110			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 08/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS209-B_250725A		
Lab ID: CCV	11	Continuing Calibration Verification Standard							07/26/25 12:32	
Silver		0.0199	mg/L	0.0050	99	90	110			
Thallium		0.0500	mg/L	0.0050	100	90	110			
Uranium		0.0503	mg/L	0.00030	101	90	110			
Zinc		0.0464	mg/L	0.0050	93	90	110			
Lab ID: QCS	11	Initial Calibration Verification Standard							07/27/25 10:05	
Antimony		0.0386	mg/L	0.0050	97	90	110			
Arsenic		0.0377	mg/L	0.0050	94	90	110			
Cadmium		0.0195	mg/L	0.0010	97	90	110			
Chromium		0.0381	mg/L	0.010	95	90	110			
Iron		0.198	mg/L	0.020	99	90	110			
Nickel		0.0384	mg/L	0.0050	96	90	110			
Selenium		0.0376	mg/L	0.0050	94	90	110			
Silver		0.0191	mg/L	0.0050	96	90	110			
Thallium		0.0405	mg/L	0.0050	101	90	110			
Uranium		0.0383	mg/L	0.00030	96	90	110			
Zinc		0.0369	mg/L	0.0050	92	90	110			
Lab ID: CCV	11	Continuing Calibration Verification Standard							07/27/25 11:27	
Antimony		0.0472	mg/L	0.0050	94	90	110			
Arsenic		0.0468	mg/L	0.0050	94	90	110			
Cadmium		0.0466	mg/L	0.0010	93	90	110			
Chromium		0.0465	mg/L	0.010	93	90	110			
Iron		1.24	mg/L	0.020	96	90	110			
Nickel		0.0464	mg/L	0.0050	93	90	110			
Selenium		0.0467	mg/L	0.0050	93	90	110			
Silver		0.0185	mg/L	0.0050	92	90	110			
Thallium		0.0468	mg/L	0.0050	94	90	110			
Uranium		0.0479	mg/L	0.00030	96	90	110			
Zinc		0.0449	mg/L	0.0050	90	90	110			
Method: E200.8								Batch: 201819		
Lab ID: MB-201819	6	Method Blank				Run: ICPMS209-B_250725A			07/26/25 11:48	
Antimony		ND	mg/L	0.00002						
Arsenic		ND	mg/L	0.00003						
Chromium		ND	mg/L	0.0003						
Iron		0.02	mg/L	0.004						
Thallium		ND	mg/L	0.00008						
Uranium		ND	mg/L	0.00001						
Lab ID: LCS4-201819	6	Laboratory Control Sample				Run: ICPMS209-B_250725A			07/26/25 11:53	
Antimony		0.114	mg/L	0.0050	114	85	115			
Arsenic		0.0983	mg/L	0.0010	98	85	115			
Chromium		0.0973	mg/L	0.0010	97	85	115			
Iron		0.513	mg/L	0.010	103	85	115			
Thallium		0.107	mg/L	0.0010	107	85	115			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 08/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 201819
Lab ID: LCS4-201819	6	Laboratory Control Sample				Run: ICPMS209-B_250725A				07/26/25 11:53
Uranium		0.106	mg/L	0.00030	106	85	115			
Lab ID: B25071950-001DMS4	6	Sample Matrix Spike				Run: ICPMS209-B_250725A				07/26/25 12:10
Antimony		0.107	mg/L	0.0010	107	70	130			
Arsenic		0.101	mg/L	0.0010	95	70	130			
Chromium		0.0943	mg/L	0.0050	94	70	130			
Iron		3.04	mg/L	0.020		70	130			A
Thallium		0.101	mg/L	0.00050	101	70	130			
Uranium		0.103	mg/L	0.00030	102	70	130			
Lab ID: B25071950-001DMSD4	6	Sample Matrix Spike Duplicate				Run: ICPMS209-B_250725A				07/26/25 12:16
Antimony		0.106	mg/L	0.0010	106	70	130	0.6	20	
Arsenic		0.103	mg/L	0.0010	97	70	130	2.2	20	
Chromium		0.0959	mg/L	0.0050	96	70	130	1.7	20	
Iron		3.10	mg/L	0.020		70	130	2.0	20	A
Thallium		0.102	mg/L	0.00050	102	70	130	1.0	20	
Uranium		0.103	mg/L	0.00030	103	70	130	0.5	20	
Lab ID: B25072005-001CMS4	6	Sample Matrix Spike				Run: ICPMS209-B_250725A				07/26/25 13:26
Antimony		0.116	mg/L	0.0010	111	70	130			
Arsenic		0.125	mg/L	0.0010	99	70	130			
Chromium		0.100	mg/L	0.0050	97	70	130			
Iron		3.08	mg/L	0.020		70	130			A
Thallium		0.107	mg/L	0.00050	106	70	130			
Uranium		0.110	mg/L	0.00030	109	70	130			
Lab ID: B25072005-001CMSD4	6	Sample Matrix Spike Duplicate				Run: ICPMS209-B_250725A				07/26/25 13:32
Antimony		0.110	mg/L	0.0010	105	70	130	5.1	20	
Arsenic		0.121	mg/L	0.0010	95	70	130	2.8	20	
Chromium		0.0984	mg/L	0.0050	95	70	130	1.7	20	
Iron		3.05	mg/L	0.020		70	130	0.9	20	A
Thallium		0.102	mg/L	0.00050	102	70	130	4.7	20	
Uranium		0.103	mg/L	0.00030	102	70	130	6.7	20	
Method: E200.8										Batch: R446475
Lab ID: LRB	6	Method Blank				Run: ICPMS209-B_250725A				07/25/25 14:00
Cadmium		ND	mg/L	9E-6						
Iron		ND	mg/L	0.001						
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_250725A				07/25/25 14:16
Cadmium		0.0517	mg/L	0.0010	103	85	115			
Iron		5.28	mg/L	0.020	106	85	115			
Nickel		0.0487	mg/L	0.0050	97	85	115			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

A - Analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 08/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R446475
Lab ID: LFB	6	Laboratory Fortified Blank			Run: ICPMS209-B_250725A			07/25/25 14:16		
Selenium		0.0461	mg/L	0.0050	92	85	115			
Silver		0.0208	mg/L	0.0050	104	85	115			
Zinc		0.0475	mg/L	0.0050	95	85	115			
Lab ID: B25071970-019BMS	6	Sample Matrix Spike			Run: ICPMS209-B_250725A			07/25/25 22:32		
Cadmium		0.105	mg/L	0.0010	104	70	130			
Iron		10.2	mg/L	0.020	102	70	130			
Nickel		0.107	mg/L	0.0050	88	70	130			
Selenium		0.0939	mg/L	0.0010	90	70	130			
Silver		0.0414	mg/L	0.0010	103	70	130			
Zinc		0.0897	mg/L	0.010	88	70	130			
Lab ID: B25071970-019BMSD	6	Sample Matrix Spike Duplicate			Run: ICPMS209-B_250725A			07/25/25 22:37		
Cadmium		0.104	mg/L	0.0010	103	70	130	0.9	20	
Iron		10.4	mg/L	0.020	104	70	130	2.1	20	
Nickel		0.108	mg/L	0.0050	89	70	130	0.5	20	
Selenium		0.0950	mg/L	0.0010	92	70	130	1.2	20	
Silver		0.0411	mg/L	0.0010	103	70	130	0.5	20	
Zinc		0.0920	mg/L	0.010	90	70	130	2.5	20	
Lab ID: MB-201846	6	Method Blank			Run: ICPMS209-B_250725A			07/25/25 23:32		
Cadmium		ND	mg/L	7E-6						
Iron		ND	mg/L	0.001						
Nickel		ND	mg/L	0.00006						
Selenium		ND	mg/L	0.00002						
Silver		ND	mg/L	5E-6						
Zinc		ND	mg/L	0.001						
Lab ID: B25071970-019BMS	6	Sample Matrix Spike			Run: ICPMS209-B_250725A			07/27/25 11:38		
Cadmium		0.0956	mg/L	0.0010	95	70	130			
Iron		9.29	mg/L	0.020	93	70	130			
Nickel		0.107	mg/L	0.0050	89	70	130			
Selenium		0.0889	mg/L	0.0010	86	70	130			
Silver		0.0380	mg/L	0.0010	95	70	130			
Zinc		0.0874	mg/L	0.010	87	70	130			
Lab ID: B25071970-019BMSD	6	Sample Matrix Spike Duplicate			Run: ICPMS209-B_250725A			07/27/25 11:43		
Cadmium		0.0955	mg/L	0.0010	95	70	130	0.2	20	
Iron		9.57	mg/L	0.020	96	70	130	3.0	20	
Nickel		0.110	mg/L	0.0050	91	70	130	2.0	20	
Selenium		0.0908	mg/L	0.0010	87	70	130	2.1	20	
Silver		0.0383	mg/L	0.0010	96	70	130	0.8	20	
Zinc		0.0884	mg/L	0.010	88	70	130	1.0	20	
Lab ID: MB-201846	6	Method Blank			Run: ICPMS209-B_250725A			07/27/25 12:21		
Cadmium		ND	mg/L	7E-6						
Iron		ND	mg/L	0.001						

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 08/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R446475	
Lab ID: MB-201846		6 Method Blank			Run: ICPMS209-B_250725A				07/27/25 12:21	
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:

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ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 08/04/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1 Analytical Run: HGCV203-B_250724A										
Lab ID: ICV-201773		Initial Calibration Verification Standard 07/24/25 09:55								
Mercury		0.00213	mg/L	0.00010	106	90	110			
Lab ID: CCV1		Continuing Calibration Verification Standard 07/24/25 09:56								
Mercury		0.00253	mg/L	0.00010	101	95	105			
Lab ID: CCV		Continuing Calibration Verification Standard 07/24/25 10:16								
Mercury		0.00246	mg/L	0.00010	98	90	110			
Method: E245.1 Batch: 201773										
Lab ID: MB-201773		Method Blank Run: HGCV203-B_250724A 07/24/25 09:59								
Mercury		ND	mg/L	0.00006						
Lab ID: LCS-201773		Laboratory Control Sample Run: HGCV203-B_250724A 07/24/25 10:00								
Mercury		0.00205	mg/L	0.00010	102	85	115			
Lab ID: B25071941-001BMS		Sample Matrix Spike Run: HGCV203-B_250724A 07/24/25 10:22								
Mercury		0.00203	mg/L	0.00010	102	70	130			
Lab ID: B25071941-001BMDS		Sample Matrix Spike Duplicate Run: HGCV203-B_250724A 07/24/25 10:23								
Mercury		0.00202	mg/L	0.00010	101	70	130	0.7	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: B25071973

Report Date: 07/31/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-S D										Batch: R446375
Lab ID: MBLK		Method Blank					Run: SPEC3_250724A			07/24/25 11:23
Sulfide		ND	mg/L	0.01						
Lab ID: LCS										07/24/25 11:23
Sulfide		Laboratory Control Sample					Run: SPEC3_250724A			
		0.204	mg/L	0.040	93	85	115			
Lab ID: B25071975-001DMS										07/24/25 11:23
Sulfide		Sample Matrix Spike					Run: SPEC3_250724A			
		0.414	mg/L	0.040	94	70	130			
Lab ID: B25071975-001DMSD										07/24/25 11:23
Sulfide		Sample Matrix Spike Duplicate					Run: SPEC3_250724A			
		0.412	mg/L	0.040	94	70	130	0.5	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: B25071973

Report Date: 07/31/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0						Analytical Run: IC METROHM 2_250723A				
Lab ID: ICV	3	Initial Calibration Verification Standard								07/23/25 15:08
Chloride		26.0	mg/L	1.0	104	90	110			
Sulfate		104	mg/L	1.0	104	90	110			
Fluoride		1.32	mg/L	0.10	105	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								07/23/25 19:55
Chloride		26.1	mg/L	1.0	104	90	110			
Sulfate		104	mg/L	1.0	104	90	110			
Fluoride		1.24	mg/L	0.10	99	90	110			
Method: E300.0						Batch: R446367				
Lab ID: ICB	3	Method Blank								Run: IC METROHM 2_250723A 07/23/25 15:25
Chloride		ND	mg/L	0.1						
Sulfate		ND	mg/L	0.7						
Fluoride		ND	mg/L	0.009						
Lab ID: LFB	3	Laboratory Fortified Blank								Run: IC METROHM 2_250723A 07/23/25 15:41
Chloride		24.6	mg/L	1.0	99	90	110			
Sulfate		99.2	mg/L	1.0	99	90	110			
Fluoride		1.28	mg/L	0.10	102	90	110			
Lab ID: B25071948-001AMS	3	Sample Matrix Spike								Run: IC METROHM 2_250723A 07/23/25 20:28
Chloride		29.8	mg/L	1.0	107	90	110			
Sulfate		137	mg/L	1.1	106	90	110			
Fluoride		1.53	mg/L	0.10	103	90	110			
Lab ID: B25071948-001AMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 2_250723A 07/23/25 20:45
Chloride		29.9	mg/L	1.0	107	90	110	0.4	20	
Sulfate		138	mg/L	1.1	106	90	110	0.4	20	
Fluoride		1.54	mg/L	0.10	104	90	110	0.5	20	
Lab ID: B25071958-002AMS	3	Sample Matrix Spike								Run: IC METROHM 2_250723A 07/24/25 00:25
Chloride		426	mg/L	2.6	107	90	110			
Sulfate		1590	mg/L	11	106	90	110			
Fluoride		13.9	mg/L	0.13	103	90	110			
Lab ID: B25071958-002AMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 2_250723A 07/24/25 00:42
Chloride		426	mg/L	2.6	107	90	110	0.1	20	
Sulfate		1590	mg/L	11	106	90	110	0.2	20	
Fluoride		13.9	mg/L	0.13	103	90	110	0.1	20	

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071973

Report Date: 07/31/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada-01								Analytical Run: SFA-202-B_250724A		
Lab ID: ICV	Initial Calibration Verification Standard			07/24/25 14:46						
Cyanide, Weak Acid Dissociable	0.00975	mg/L	0.0010	97	90	110				
Method: Kelada-01								Batch: R446401		
Lab ID: ICB	Method Blank			Run: SFA-202-B_250724A				07/24/25 14:47		
Cyanide, Weak Acid Dissociable	ND	mg/L	0.0007							
Lab ID: LFB	Laboratory Fortified Blank			Run: SFA-202-B_250724A				07/24/25 14:49		
Cyanide, Weak Acid Dissociable	0.00992	mg/L	0.0010	99	90	110				
Lab ID: LCS1-ZnCN	Laboratory Control Sample			Run: SFA-202-B_250724A				07/24/25 14:51		
Cyanide, Weak Acid Dissociable	0.00986	mg/L	0.0010	99	90	110				
Lab ID: B25071973-001EMS	Sample Matrix Spike			Run: SFA-202-B_250724A				07/24/25 15:09		
Cyanide, Weak Acid Dissociable	0.00994	mg/L	0.0010	99	80	120				
Lab ID: B25071973-001EMSD	Sample Matrix Spike Duplicate			Run: SFA-202-B_250724A				07/24/25 15:13		
Cyanide, Weak Acid Dissociable	0.0102	mg/L	0.0010	101	80	120	2.1	10		

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Work Order Receipt Checklist

Linkan Engineering

B25071973

Login completed by: Crystal M. Jones

Date Received: 7/23/2025

Reviewed by: dharris

Received by: ET

Reviewed Date: 7/24/2025

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:	3.8°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



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Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Work Order Receipt Checklist - Continued

Linkan Engineering

B25071973

pH < 2. CMJ 07/23/25

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



Chain of Custody & Analytical Request Record

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Account Information (Billing information)

Company/Name Linkan	
Contact	Chris Prosper
Phone	775-777-8003
Mailing Address 2720 Ruby Vista Dr	
City, State, Zip	Elko, NV 89801
Email	AP@linkan.com
Receive Invoice	☐ Hard Copy ☒ Email
Purchase Order	Quote H17287
25-0152	193741

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/Format:	☐ 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	Sampler Phone
Sample Origin State Colorado	EPA/State Compliance ☐ Yes ☐ No
URANIUM MINING CLIENTS MUST indicate sample type	
☐ Unprocessed Ore	
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING	
☐ 11(e) 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	

Analysis Requested

Hexavalent Chromium	Metals, Dissolved	Metals, Potentially Dissolved	Cyanide, WAD	Sulfide, Methylene Blue	Radium 226, Dissolved	Radium 226 + Radium 228	See Attached
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All turnaround times are standard unless marked as RUSH.

Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

Sample Identification (Name, Location, Interval, etc.)

1	Outfall 001A	Collection Date	7/22/15	Time	1530	Matrix (See Codes Above)	W	Number of Containers	8
2									
3									
4									
5									
6									
7									
8									
9									

ELI LAB ID Laboratory Use Only

RUSH TAT	B25071973
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ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used, please attach your preservative information with this COC.

Custody Record MUST be signed	Relinquished by (print) Bryant Acosta	Date/Time 7/22/1530	Signature	Signature					
	Relinquished by (print)	Date/Time	Signature	Signature					
Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice	Payment Type	Amount	Receipt Number (cash/check only)
	Y N C B	Y N	Y N	°C	Y N	Y N	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.



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BOTTLE ORDER 193741



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 Monthly + Weekly

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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Outfall 001A Weekly COD (4 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 (12 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

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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

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.						

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