



B25061751_Schwartzwalder Mine

1 message

Stacie M. Helms <SHelms@energylab.com>

Tue, Jul 1, 2025 at 9:23 AM

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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Sincerely,

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Stacie Helms | Administrative Assistant | Billings, MT

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B25061751-PRELIMINARY REPORT-B25061751-1.PDF

40K



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25061751-001
Client Sample ID: SWA-001

Report Date: 07/01/25
Collection Date: 06/18/25 11:55
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	0.6	mg/L	J	10		A2540 D	06/20/25 10:01 / pjw
Solids, Total Dissolved TDS @ 180 C	176	mg/L		20		A2540 C	06/19/25 16:13 / etv
INORGANICS							
Alkalinity, Total as CaCO ₃	62	mg/L		4		A2320 B	06/20/25 11:47 / spb
Bicarbonate as CaCO ₃	62	mg/L		3		A2320 B	06/20/25 11:47 / spb
Carbonate as CaCO ₃	ND	mg/L		7		A2320 B	06/20/25 11:47 / spb
Chloride	45	mg/L		1		E300.0	06/21/25 05:24 / caa
Sulfate	10	mg/L		1		E300.0	06/21/25 05:24 / caa
Fluoride	0.3	mg/L		0.1		E300.0	06/21/25 05:24 / caa
Hydroxide as CaCO ₃	ND	mg/L		10		A2320 B	06/20/25 11:47 / spb
Cyanide, Weak Acid Dissociable	ND	mg/L		0.005		Kelada-01	06/23/25 11:49 / fap
Oxygen, Dissolved	8.5	mg/L	H	0.1		A4500-O G	06/19/25 16:41 / mbs
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	06/27/25 13:18 / rs4
Phosphorus, Orthophosphate as P	0.007	mg/L		0.002		E365.1	06/19/25 17:12 / taz
Phosphorus, Total as P	0.005	mg/L		0.002		E365.1	06/30/25 12:29 / taz
- The Orthophosphate result is greater than the Total Phosphorus result. Both results have been confirmed by re-analysis.							
METALS, DISSOLVED							
Aluminum	0.002	mg/L	J	0.03		E200.8	06/21/25 15:15 / aem
Antimony	ND	mg/L		0.001		E200.8	06/21/25 15:15 / aem
Arsenic	ND	mg/L		0.001		E200.8	06/21/25 15:15 / aem
Boron	0.02	mg/L	J	0.05		E200.7	06/20/25 13:57 / enb
Calcium	26	mg/L		1		E200.7	06/20/25 13:57 / enb
Chromium	ND	mg/L		0.005		E200.8	06/21/25 15:15 / aem
Copper	0.0007	mg/L	J	0.005		E200.8	06/21/25 15:15 / aem
Iron	0.03	mg/L		0.02		E200.8	06/21/25 15:15 / aem
Lead	ND	mg/L		0.001		E200.8	06/21/25 15:15 / aem
Magnesium	8	mg/L		1		E200.7	06/20/25 13:57 / enb
Manganese	0.021	mg/L		0.001		E200.7	06/20/25 13:57 / enb
Mercury	ND	mg/L		0.0001		E245.1	06/24/25 13:55 / mjb
Molybdenum	0.001	mg/L	J	0.001		E200.8	06/21/25 15:15 / aem
Potassium	2	mg/L		1		E200.7	06/20/25 13:57 / enb
Silver	ND	mg/L		0.001		E200.8	06/21/25 15:15 / aem
Sodium	16	mg/L		1		E200.7	06/20/25 13:57 / enb
Thallium	ND	mg/L		0.0005		E200.8	06/21/25 15:15 / aem
Uranium	0.0022	mg/L		0.0003		E200.8	06/21/25 15:15 / aem
Zinc	ND	mg/L		0.01		E200.7	06/20/25 13:57 / enb
METALS, TOTAL							
Aluminum	0.02	mg/L	J	0.03		E200.8	06/24/25 18:09 / aem
Antimony	0.00006	mg/L	J	0.001		E200.8	06/24/25 18:09 / aem

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

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

PRELIMINARY



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

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Project: Schwartzwalder Mine
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Client Sample ID: SWA-001

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Date Received: 06/19/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	0.00008	mg/L	J	0.001		E200.8	06/24/25 18:09 / aem
Boron	0.02	mg/L	J	0.05		E200.7	06/25/25 16:41 / enb
Chromium	ND	mg/L		0.005		E200.8	06/24/25 18:09 / aem
Copper	0.0009	mg/L	J	0.005		E200.8	06/24/25 18:09 / aem
Iron	0.08	mg/L		0.01		E200.8	06/24/25 18:09 / aem
Lead	0.00004	mg/L	J	0.001		E200.8	06/24/25 18:09 / aem
Manganese	0.021	mg/L		0.001		E200.8	06/24/25 18:09 / aem
Mercury	ND	mg/L		0.0001		E245.1	06/24/25 13:57 / mjb
Molybdenum	0.001	mg/L	J	0.001		E200.8	06/25/25 16:54 / aem
Silver	ND	mg/L		0.001		E200.8	06/25/25 16:54 / aem
Thallium	ND	mg/L		0.0005		E200.8	06/24/25 18:09 / aem
Zinc	ND	mg/L		0.01		E200.8	06/24/25 18:09 / aem

**Report
Definitions:**

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