



LEADVILLE MILL

SURFACE WATER SAMPLING FIELD DATA FORM

Leadville Mill		LOCATION: Leadville, Colorado		
SAMPLE ID: AR1 (Upstream of CG confluence)		ARKANSAS RIVER SEGMENT: 2b		
Date Sampled: 10/11/2024				
Time Sampled: 9:25				
Sampled By: RDS				
Weather During Sampling: Partly Cloudy, $\approx 45^{\circ}$ F				
Approximate upstream distance from confluence: 30 Feet				
Sample Collection Location: <u>Thalweg</u> / Bank (Circle One)				
Field Measurements:	pH (pH)	Temperature (C $^{\circ}$)	Conductivity (μ S/cm)	D.O. (mg/L)
	8.24	4.7	234.4	9.14
Color of Surface Water	Clear			
Surface Water Odor	None			
Surface Water Appearance	Clean			
NOTES: Sulfide Resample Sample field filtered with 0.45 micron filter				



LEADVILLE MILL

SURFACE WATER SAMPLING FIELD DATA FORM

Leadville Mill		LOCATION: Leadville, Colorado		
SAMPLE ID: AR2 (Downstream of CG confluence) ARKANSAS RIVER SEGMENT: 2b				
Date Sampled: 10/11/2024				
Time Sampled: 9:30				
Sampled By: RDS				
Weather During Sampling: Partly Cloudy, $\approx 45^{\circ}$ F				
Approximate downstream distance from confluence: 30 Feet				
Sample Collection Location: <u>Thalweg</u> / Bank (Circle One)				
Field Measurements:	pH (pH)	Temperature (C $^{\circ}$)	Conductivity (μ S/cm)	D.O. (mg/L)
	8.17	6.6	434.7	9.01
Color of Surface Water	Clear			
Surface Water Odor	None			
Surface Water Appearance	Clean			
NOTES: Sulfide Resample Sample field filtered with 0.45 micron filter				



LEADVILLE MILL

SURFACE WATER SAMPLING FIELD DATA FORM

Leadville Mill		LOCATION: Leadville, Colorado		
SAMPLE ID: CG1 (Upstream of Mill)		ARKANSAS RIVER SEGMENT: 6		
Date Sampled: 10/11/2024				
Time Sampled: 8:50				
Sampled By: RDS/DS				
Weather During Sampling: Partly Cloudy, $\approx 40^{\circ}$ F				
Approximate upstream distance from confluence: 2.2 Miles				
Sample Collection Location: <u>Thalweg</u> Bank (Circle One)				
Field Measurements:	pH (pH)	Temperature (C $^{\circ}$)	Conductivity (μ S/cm)	D.O. (mg/L)
	8.17	5.6	1300	8.86
Color of Surface Water	Slight White Hue			
Surface Water Odor	None			
Surface Water Appearance	Light Silt			
NOTES: Sulfide Resample Sample field filtered with 0.45 micron filter				



LEADVILLE MILL

SURFACE WATER SAMPLING FIELD DATA FORM

Leadville Mill		LOCATION: Leadville, Colorado		
SAMPLE ID: CG2 (Downstream of Mill)		ARKANSAS RIVER SEGMENT: 6		
Date Sampled: 10/11/2024				
Time Sampled: 9:05				
Sampled By: RDS/DS				
Weather During Sampling: Partly Cloudy, $\approx 40^{\circ}$ F				
Approximate upstream distance from confluence: 100 Feet				
Sample Collection Location: <u>Thalweg</u> Bank (Circle One)				
Field Measurements:	pH (pH)	Temperature (C $^{\circ}$)	Conductivity (μ S/cm)	D.O. (mg/L)
	8.26	5.9	1228	9.1
Color of Surface Water	Clear			
Surface Water Odor	None			
Surface Water Appearance	Clean			
NOTES: Sulfide Resample Sample field filtered with 0.45 micron filter				



LEADVILLE MILL

SURFACE WATER SAMPLING FIELD DATA FORM

Leadville Mill		LOCATION: Leadville, Colorado		
SAMPLE ID: AR1 (Upstream of CG confluence)		ARKANSAS RIVER SEGMENT: 2b		
Date Sampled: 9/30/2024				
Time Sampled: 15:45				
Sampled By: RDS				
Weather During Sampling: Clear, ~ 60° F				
Approximate upstream distance from confluence: 30 Feet				
Sample Collection Location: <u>Thalweg</u> / Bank (Circle One)				
Field Measurements:	pH (pH)	Temperature (C°)	Conductivity (µs/cm)	D.O. (mg/L)
	8.17	14.14	214	6.43
Color of Surface Water	Clear			
Surface Water Odor	None			
Surface Water Appearance	Clean			
NOTES:				



LEADVILLE MILL

SURFACE WATER SAMPLING FIELD DATA FORM

Leadville Mill		LOCATION: Leadville, Colorado		
SAMPLE ID: AR2 (Downstream of CG confluence) ARKANSAS RIVER SEGMENT: 2b				
Date Sampled: 9/30/2024				
Time Sampled: 16:00				
Sampled By: RDS				
Weather During Sampling: Clear, ~ 60° F				
Approximate downstream distance from confluence: 30 Feet				
Sample Collection Location: <u>Thalweg</u> / Bank (Circle One)				
Field Measurements:	pH (pH)	Temperature (C°)	Conductivity (µs/cm)	D.O. (mg/L)
	8.35	13.85	924	6.37
Color of Surface Water	Clear			
Surface Water Odor	None			
Surface Water Appearance	Clean			
NOTES:				



LEADVILLE MILL

SURFACE WATER SAMPLING FIELD DATA FORM

Leadville Mill		LOCATION: Leadville, Colorado		
SAMPLE ID: CG1 (Upstream of Mill)		ARKANSAS RIVER SEGMENT: 6		
Date Sampled: 9/30/2024				
Time Sampled: 16:30				
Sampled By: RDS				
Weather During Sampling: Clear, ~ 55° F				
Approximate upstream distance from confluence: 2.2 Miles				
Sample Collection Location: <u>Thalweg</u> Bank (Circle One)				
Field Measurements:	pH (pH)	Temperature (C°)	Conductivity (µs/cm)	D.O. (mg/L)
	8.07	12.74	1203	5.61
Color of Surface Water	Slight White Hue			
Surface Water Odor	None			
Surface Water Appearance	Light Silt			
NOTES:				



LEADVILLE MILL

SURFACE WATER SAMPLING FIELD DATA FORM

Leadville Mill		LOCATION: Leadville, Colorado		
SAMPLE ID: CG2 (Downstream of Mill)		ARKANSAS RIVER SEGMENT: 6		
Date Sampled: 9/30/2024				
Time Sampled: 15:30				
Sampled By: RDS				
Weather During Sampling: Clear, $\approx 60^{\circ}$ F				
Approximate upstream distance from confluence: 50 Feet				
Sample Collection Location: <u>Thalweg</u> Bank (Circle One)				
Field Measurements:	pH (pH)	Temperature (C $^{\circ}$)	Conductivity (μ S/cm)	D.O. (mg/L)
	7.96	13.53	1115	6.02
Color of Surface Water	Slight White			
Surface Water Odor	Farm Smell			
Surface Water Appearance	Murkish			
NOTES:				

ANALYTICAL REPORT

PREPARED FOR

Attn: Nick Michael
Union Milling Company
PO BOX 620490
Littleton, Colorado 80162
Generated 10/29/2024 2:48:37 PM

JOB DESCRIPTION

Leadville Mill, CO

JOB NUMBER

280-197338-1

Eurofins Denver

Job Notes

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Authorization



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Definitions/Glossary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Union Milling Company
Project: Leadville Mill, CO

Job ID: 280-197338-1

Job ID: 280-197338-1

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Job Narrative 280-197338-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/1/2024 10:01 AM and 10/12/2024 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4°C, 0.4°C, 0.7°C and 1.6°C.

Receipt Exceptions

The sample collection times were not recorded on the sample containers received for the following samples: CG-2 (280-197338-1) and AR-2 (280-197338-3). Logged per the COC.

Method 6010D - Metals (ICP)

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Metals (ICP). The samples were prepared on 10/2/2024 and analyzed on 10/3/2024.

Method 6010D - Metals (ICP) - Dissolved

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Metals (ICP) - Dissolved. The samples were prepared on 10/3/2024 and analyzed on 10/4/2024 and 10/8/2024.

Method 6020B - Metals (ICP/MS)

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Metals (ICP/MS). The samples were prepared on 10/2/2024 and 10/3/2024 and analyzed on 10/3/2024, 10/4/2024 and 10/7/2024.

Method 6020B - Metals (ICP/MS) - Dissolved

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared on 10/3/2024 and 10/11/2024 and analyzed on 10/8/2024 and 10/12/2024.

Method 7470A - Mercury (CVAA)

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Mercury (CVAA). The samples were prepared and analyzed on 10/7/2024.

Method OIA-1677 - Cyanide, Free (Flow Injection)

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Cyanide, Free (Flow Injection). The samples were analyzed on 10/7/2024.

The following sample was found to contain residual chlorine: CG-1 (280-197338-4).

The following sample was found to contain residual chlorine: CG-2 (280-197338-1).

Method SM 2540C - Solids, Total Dissolved (TDS)

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Solids, Total Dissolved (TDS). The samples were prepared on 10/3/2024 and analyzed on 10/2/2024, 10/4/2024 and 10/7/2024.

Method 300.0 - Anions, Ion Chromatography - Dissolved

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Anions, Ion Chromatography - Dissolved. The samples were analyzed on 10/1/2024, 10/4/2024 and 10/5/2024.

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Case Narrative

Client: Union Milling Company
Project: Leadville Mill, CO

Job ID: 280-197338-1

Job ID: 280-197338-1 (Continued)

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The concentration of sulfate in the matrix spike and matrix spike duplicate (MS/MSD) parent sample is higher than the highest point of the calibration range. The recoveries for the MS/MSD are still within the recovery limits of 80-120%. (280-197338-L-3-D MS) and (280-197338-L-3-E MSD)

The matrix spike (MS) recoveries for preparation batch 280-669859 and analytical batch 280-669803 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated Matrix Spike Duplicate is also within acceptance limits. The associated samples are: CG-1 (280-197338-4) and (280-197338-L-4-D MS).

Method 300.0 - Anions, Ion Chromatography

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 10/1/2024.

Method 350.1 - Nitrogen, Ammonia

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Nitrogen, Ammonia. The samples were prepared on 10/3/2024 and analyzed on 10/4/2024, 10/5/2024 and 10/7/2024.

Method 365.1 - Phosphorus, Total - Dissolved

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Phosphorus, Total - Dissolved. The samples were prepared on 10/8/2024 and analyzed on 10/9/2024.

The matrix spike duplicate (MSD) recovery for preparation batch 280-670148 and 280-670149 and analytical batch 280-670368 was outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 7196A - Chromium, Hexavalent - Dissolved

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Chromium, Hexavalent - Dissolved. The samples were analyzed on 10/1/2024.

Method 7196A - Chromium, Trivalent (Colorimetric)

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Chromium, Trivalent (Colorimetric). The samples were analyzed on 10/2/2024.

Method 7196A - Chromium, Trivalent (Colorimetric) - Dissolved

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Chromium, Trivalent (Colorimetric) - Dissolved. The samples were analyzed on 10/2/2024 and 10/7/2024.

Method SM 4500 S2 D - Sulfide, Total - Dissolved

Samples AR-1 (280-198016-1), AR-2 (280-198016-2), CG-1 (280-198016-3) and CG-2 (280-198016-4) were analyzed for Sulfide, Total - Dissolved. The samples were analyzed on 10/14/2024.

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Detection Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Client Sample ID: CG-2

Lab Sample ID: 280-197338-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	620		100	9.1	ug/L	1		6010D	Total/NA
Boron	56	J	100	1.5	ug/L	1		6010D	Dissolved
Iron	11	J	100	9.1	ug/L	1		6010D	Dissolved
Arsenic	1.2	J	5.0	0.50	ug/L	1		6020B	Total/NA
Molybdenum	0.90	J	2.0	0.37	ug/L	1		6020B	Total/NA
Cadmium	1.8		1.0	0.19	ug/L	1		6020B	Dissolved
Copper	1.8	J	2.0	0.71	ug/L	1		6020B	Dissolved
Manganese	320		3.0	0.51	ug/L	1		6020B	Dissolved
Nickel	1.3	J	3.0	0.83	ug/L	1		6020B	Dissolved
Lead	0.38	J	1.0	0.23	ug/L	1		6020B	Dissolved
Uranium	3.5		1.0	0.030	ug/L	1		6020B	Dissolved
Zinc	370		10	2.0	ug/L	1		6020B	Dissolved
Nitrate as N	1.1		0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids (TDS)	930		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	15		3.0	1.0	mg/L	1		300.0	Dissolved
Sulfate	540		25	5.2	mg/L	5		300.0	Dissolved
Phosphorus, Total	0.27	F1	0.050	0.025	mg/L	1		365.1	Dissolved

Client Sample ID: AR-1

Lab Sample ID: 280-197338-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	200		100	9.1	ug/L	1		6010D	Total/NA
Boron	7.5	J	100	1.5	ug/L	1		6010D	Dissolved
Iron	54	J	100	9.1	ug/L	1		6010D	Dissolved
Molybdenum	2.6		2.0	0.37	ug/L	1		6020B	Total/NA
Manganese	26		3.0	0.51	ug/L	1		6020B	Dissolved
Uranium	2.4		1.0	0.030	ug/L	1		6020B	Dissolved
Zinc	22		10	2.0	ug/L	1		6020B	Dissolved
Total Dissolved Solids (TDS)	140		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.5		3.0	1.0	mg/L	1		300.0	Dissolved
Sulfate	33		5.0	1.0	mg/L	1		300.0	Dissolved

Client Sample ID: AR-2

Lab Sample ID: 280-197338-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	550		100	9.1	ug/L	1		6010D	Total/NA
Boron	30	J	100	1.5	ug/L	1		6010D	Dissolved
Iron	26	J	100	9.1	ug/L	1		6010D	Dissolved
Arsenic	1.2	J	5.0	0.50	ug/L	1		6020B	Total/NA
Molybdenum	1.0	J	2.0	0.37	ug/L	1		6020B	Total/NA
Cadmium	1.3		1.0	0.19	ug/L	1		6020B	Dissolved
Copper	1.2	J	2.0	0.71	ug/L	1		6020B	Dissolved
Manganese	240		3.0	0.51	ug/L	1		6020B	Dissolved
Nickel	0.97	J	3.0	0.83	ug/L	1		6020B	Dissolved
Uranium	3.1		1.0	0.030	ug/L	1		6020B	Dissolved
Zinc	270		10	2.0	ug/L	1		6020B	Dissolved
Nitrate as N	0.86		0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids (TDS)	790		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	12		3.0	1.0	mg/L	1		300.0	Dissolved
Sulfate	370		25	5.2	mg/L	5		300.0	Dissolved
Phosphorus, Total	0.20		0.050	0.025	mg/L	1		365.1	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Client Sample ID: CG-1

Lab Sample ID: 280-197338-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	340		100	9.1	ug/L	1			6010D	Total/NA
Boron	16	J	100	1.5	ug/L	1			6010D	Dissolved
Iron	13	J	100	9.1	ug/L	1			6010D	Dissolved
Molybdenum	0.54	J	2.0	0.37	ug/L	1			6020B	Total/NA
Cadmium	2.6		1.0	0.19	ug/L	1			6020B	Dissolved
Copper	0.74	J	2.0	0.71	ug/L	1			6020B	Dissolved
Manganese	530		3.0	0.51	ug/L	1			6020B	Dissolved
Nickel	1.6	J	3.0	0.83	ug/L	1			6020B	Dissolved
Uranium	4.4		1.0	0.030	ug/L	1			6020B	Dissolved
Zinc	560		10	2.0	ug/L	1			6020B	Dissolved
Nitrate as N	0.53		0.50	0.090	mg/L	1			300.0	Total/NA
Ammonia as N	0.68		0.10	0.029	mg/L	1			350.1	Total/NA
Total Dissolved Solids (TDS)	1100		20	9.4	mg/L	1			SM 2540C	Total/NA
Chloride	7.8		3.0	1.0	mg/L	1			300.0	Dissolved
Sulfate	710		25	5.2	mg/L	5			300.0	Dissolved

Client Sample ID: AR-1

Lab Sample ID: 280-198016-1

No Detections.

Client Sample ID: AR-2

Lab Sample ID: 280-198016-2

No Detections.

Client Sample ID: CG-1

Lab Sample ID: 280-198016-3

No Detections.

Client Sample ID: CG-2

Lab Sample ID: 280-198016-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET DEN
6020B	Metals (ICP/MS)	SW846	EET DEN
7470A	Mercury (CVAA)	SW846	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
365.1	Phosphorus, Total	EPA	EET DEN
7196A	Chromium, Hexavalent	SW846	EET DEN
7196A	Chromium, Trivalent (Colorimetric)	SW846	EET DEN
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET DEN
3010A	Preparation, Total Metals	SW846	EET DEN
3020A	Preparation, Total Metals	SW846	EET DEN
365.2/365.3/365	Phosphorus, Total	EPA	EET DEN
7470A	Preparation, Mercury	SW846	EET DEN
FILTRATION	Sample Filtration	None	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

OI CORP = OI Corporation Instrument Manual.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-197338-1	CG-2	Water	09/30/24 15:30	10/01/24 10:01
280-197338-2	AR-1	Water	09/30/24 15:45	10/01/24 10:01
280-197338-3	AR-2	Water	09/30/24 16:00	10/01/24 10:01
280-197338-4	CG-1	Water	09/30/24 16:30	10/01/24 10:01
280-198016-1	AR-1	Water	10/11/24 09:25	10/12/24 10:05
280-198016-2	AR-2	Water	10/11/24 09:30	10/12/24 10:05
280-198016-3	CG-1	Water	10/11/24 08:50	10/12/24 10:05
280-198016-4	CG-2	Water	10/11/24 09:05	10/12/24 10:05

Client Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: SW846 6010D - Metals (ICP)

Client Sample ID: CG-2
Date Collected: 09/30/24 15:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	620		100	9.1	ug/L		10/02/24 14:50	10/03/24 19:52	1

Client Sample ID: AR-1
Date Collected: 09/30/24 15:45
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	200		100	9.1	ug/L		10/02/24 14:50	10/03/24 20:11	1

Client Sample ID: AR-2
Date Collected: 09/30/24 16:00
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	550		100	9.1	ug/L		10/02/24 14:50	10/03/24 20:15	1

Client Sample ID: CG-1
Date Collected: 09/30/24 16:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	340		100	9.1	ug/L		10/02/24 14:50	10/03/24 20:18	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Client Sample ID: CG-2
Date Collected: 09/30/24 15:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	56	J	100	1.5	ug/L		10/03/24 14:55	10/04/24 20:07	1
Iron	11	J	100	9.1	ug/L		10/03/24 14:55	10/04/24 20:07	1

Client Sample ID: AR-1
Date Collected: 09/30/24 15:45
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.5	J	100	1.5	ug/L		10/03/24 14:55	10/04/24 20:39	1
Iron	54	J	100	9.1	ug/L		10/03/24 14:55	10/04/24 20:39	1

Client Sample ID: AR-2
Date Collected: 09/30/24 16:00
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	30	J	100	1.5	ug/L		10/03/24 14:55	10/04/24 20:43	1
Iron	26	J	100	9.1	ug/L		10/03/24 14:55	10/04/24 20:43	1

Client Sample ID: CG-1
Date Collected: 09/30/24 16:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	16	J	100	1.5	ug/L		10/03/24 14:55	10/04/24 20:47	1
Iron	13	J	100	9.1	ug/L		10/03/24 14:55	10/04/24 20:47	1

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Client Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: SW846 6020B - Metals (ICP/MS)

Client Sample ID: CG-2
Date Collected: 09/30/24 15:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	J	5.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:06	1
Molybdenum	0.90	J	2.0	0.37	ug/L		10/02/24 14:50	10/03/24 11:06	1
Chromium	ND		3.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:06	1

Client Sample ID: AR-1
Date Collected: 09/30/24 15:45
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:08	1
Molybdenum	2.6		2.0	0.37	ug/L		10/02/24 14:50	10/03/24 11:08	1
Chromium	ND		3.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:08	1

Client Sample ID: AR-2
Date Collected: 09/30/24 16:00
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	J	5.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:10	1
Molybdenum	1.0	J	2.0	0.37	ug/L		10/02/24 14:50	10/03/24 11:10	1
Chromium	ND		3.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:10	1

Client Sample ID: CG-1
Date Collected: 09/30/24 16:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:13	1
Molybdenum	0.54	J	2.0	0.37	ug/L		10/02/24 14:50	10/03/24 11:13	1
Chromium	ND		3.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:13	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: CG-2
Date Collected: 09/30/24 15:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.045	ug/L		10/03/24 14:55	10/08/24 17:23	1
Arsenic	ND		5.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:23	1
Cadmium	1.8		1.0	0.19	ug/L		10/03/24 14:55	10/08/24 17:23	1
Chromium	ND		3.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:23	1
Copper	1.8	J	2.0	0.71	ug/L		10/03/24 14:55	10/08/24 17:23	1
Manganese	320		3.0	0.51	ug/L		10/03/24 14:55	10/08/24 17:23	1
Nickel	1.3	J	3.0	0.83	ug/L		10/11/24 08:18	10/12/24 10:16	1
Lead	0.38	J	1.0	0.23	ug/L		10/03/24 14:55	10/08/24 17:23	1
Selenium	ND		5.0	1.0	ug/L		10/03/24 14:55	10/08/24 17:23	1
Uranium	3.5		1.0	0.030	ug/L		10/03/24 14:55	10/08/24 17:23	1
Vanadium	ND		5.0	1.1	ug/L		10/03/24 14:55	10/08/24 17:23	1
Zinc	370		10	2.0	ug/L		10/11/24 08:18	10/12/24 10:16	1

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Client Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: AR-1
Date Collected: 09/30/24 15:45
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.045	ug/L		10/03/24 14:55	10/08/24 17:40	1
Arsenic	ND		5.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:40	1
Cadmium	ND		1.0	0.19	ug/L		10/03/24 14:55	10/08/24 17:40	1
Chromium	ND		3.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:40	1
Copper	ND		2.0	0.71	ug/L		10/03/24 14:55	10/08/24 17:40	1
Manganese	26		3.0	0.51	ug/L		10/03/24 14:55	10/08/24 17:40	1
Nickel	ND		3.0	0.83	ug/L		10/11/24 08:18	10/12/24 10:18	1
Lead	ND		1.0	0.23	ug/L		10/03/24 14:55	10/08/24 17:40	1
Selenium	ND		5.0	1.0	ug/L		10/03/24 14:55	10/08/24 17:40	1
Uranium	2.4		1.0	0.030	ug/L		10/03/24 14:55	10/08/24 17:40	1
Vanadium	ND		5.0	1.1	ug/L		10/03/24 14:55	10/08/24 17:40	1
Zinc	22		10	2.0	ug/L		10/11/24 08:18	10/12/24 10:18	1

Client Sample ID: AR-2
Date Collected: 09/30/24 16:00
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.045	ug/L		10/03/24 14:55	10/08/24 17:54	1
Arsenic	ND		5.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:54	1
Cadmium	1.3		1.0	0.19	ug/L		10/03/24 14:55	10/08/24 17:54	1
Chromium	ND		3.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:54	1
Copper	1.2	J	2.0	0.71	ug/L		10/03/24 14:55	10/08/24 17:54	1
Manganese	240		3.0	0.51	ug/L		10/03/24 14:55	10/08/24 17:54	1
Nickel	0.97	J	3.0	0.83	ug/L		10/11/24 08:18	10/12/24 10:34	1
Lead	ND		1.0	0.23	ug/L		10/03/24 14:55	10/08/24 17:54	1
Selenium	ND		5.0	1.0	ug/L		10/03/24 14:55	10/08/24 17:54	1
Uranium	3.1		1.0	0.030	ug/L		10/03/24 14:55	10/08/24 17:54	1
Vanadium	ND		5.0	1.1	ug/L		10/03/24 14:55	10/08/24 17:54	1
Zinc	270		10	2.0	ug/L		10/11/24 08:18	10/12/24 10:34	1

Client Sample ID: CG-1
Date Collected: 09/30/24 16:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.045	ug/L		10/03/24 14:55	10/08/24 17:56	1
Arsenic	ND		5.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:56	1
Cadmium	2.6		1.0	0.19	ug/L		10/03/24 14:55	10/08/24 17:56	1
Chromium	ND		3.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:56	1
Copper	0.74	J	2.0	0.71	ug/L		10/03/24 14:55	10/08/24 17:56	1
Manganese	530		3.0	0.51	ug/L		10/03/24 14:55	10/08/24 17:56	1
Nickel	1.6	J	3.0	0.83	ug/L		10/11/24 08:18	10/12/24 10:37	1
Lead	ND		1.0	0.23	ug/L		10/03/24 14:55	10/08/24 17:56	1
Selenium	ND		5.0	1.0	ug/L		10/03/24 14:55	10/08/24 17:56	1
Uranium	4.4		1.0	0.030	ug/L		10/03/24 14:55	10/08/24 17:56	1
Vanadium	ND		5.0	1.1	ug/L		10/03/24 14:55	10/08/24 17:56	1
Zinc	560		10	2.0	ug/L		10/11/24 08:18	10/12/24 10:37	1

Eurofins Denver

Client Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: SW846 7470A - Mercury (CVAA)

Client Sample ID: CG-2
Date Collected: 09/30/24 15:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/07/24 10:47	10/07/24 17:13	1

Client Sample ID: AR-1
Date Collected: 09/30/24 15:45
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/07/24 10:47	10/07/24 17:15	1

Client Sample ID: AR-2
Date Collected: 09/30/24 16:00
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/07/24 10:47	10/07/24 17:18	1

Client Sample ID: CG-1
Date Collected: 09/30/24 16:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/07/24 10:47	10/07/24 17:20	1

General Chemistry

Client Sample ID: CG-2
Date Collected: 09/30/24 15:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	1.1		0.50	0.090	mg/L			10/01/24 18:18	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			10/01/24 18:18	1
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			10/05/24 10:43	1
Chromium, trivalent (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Chromium (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Chromium, hexavalent (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			10/07/24 17:51	1
Total Dissolved Solids (TDS) (SM 2540C)	930		10	4.7	mg/L			10/02/24 08:48	1

Client Sample ID: AR-1
Date Collected: 09/30/24 15:45
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			10/01/24 18:29	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			10/01/24 18:29	1
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			10/05/24 10:45	1
Chromium, trivalent (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Chromium (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Chromium, hexavalent (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			10/07/24 17:59	1
Total Dissolved Solids (TDS) (SM 2540C)	140		10	4.7	mg/L			10/02/24 08:48	1

Eurofins Denver

Client Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

General Chemistry

Client Sample ID: AR-2
Date Collected: 09/30/24 16:00
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.86		0.50	0.090	mg/L			10/01/24 19:02	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			10/01/24 19:02	1
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			10/05/24 10:47	1
Chromium, trivalent (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Chromium (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Chromium, hexavalent (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			10/07/24 18:06	1
Total Dissolved Solids (TDS) (SM 2540C)	790		10	4.7	mg/L			10/02/24 08:48	1

Client Sample ID: CG-1
Date Collected: 09/30/24 16:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.53		0.50	0.090	mg/L			10/01/24 19:46	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			10/01/24 19:46	1
Ammonia as N (EPA 350.1)	0.68		0.10	0.029	mg/L			10/05/24 11:09	1
Chromium, trivalent (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Chromium (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Chromium, hexavalent (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			10/07/24 18:09	1
Total Dissolved Solids (TDS) (SM 2540C)	1100		20	9.4	mg/L			10/02/24 08:48	1

General Chemistry - Dissolved

Client Sample ID: CG-2
Date Collected: 09/30/24 15:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	15		3.0	1.0	mg/L			10/01/24 18:18	1
Sulfate (EPA 300.0)	540		25	5.2	mg/L			10/04/24 23:40	5
Phosphorus, Total (EPA 365.1)	0.27	F1	0.050	0.025	mg/L		10/08/24 11:23	10/09/24 14:31	1
Chromium, hexavalent (SW846 7196A)	ND		0.020	0.0040	mg/L			10/01/24 11:51	1
Cr (III) (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Cr (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Cr (VI) (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1

Client Sample ID: AR-1
Date Collected: 09/30/24 15:45
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.5		3.0	1.0	mg/L			10/01/24 18:29	1
Sulfate (EPA 300.0)	33		5.0	1.0	mg/L			10/01/24 18:29	1
Phosphorus, Total (EPA 365.1)	ND		0.050	0.025	mg/L		10/08/24 11:23	10/09/24 14:31	1
Chromium, hexavalent (SW846 7196A)	ND		0.020	0.0040	mg/L			10/01/24 11:52	1
Cr (III) (SW846 7196A)	ND		20	20	ug/L			10/07/24 21:09	1
Cr (SW846 7196A)	ND		20	20	ug/L			10/07/24 21:09	1

Eurofins Denver

Client Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

General Chemistry - Dissolved (Continued)

Client Sample ID: AR-1
Date Collected: 09/30/24 15:45
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		20	20	ug/L			10/07/24 21:09	1

Client Sample ID: AR-2
Date Collected: 09/30/24 16:00
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	12		3.0	1.0	mg/L			10/01/24 19:02	1
Sulfate (EPA 300.0)	370		25	5.2	mg/L			10/05/24 01:08	5
Phosphorus, Total (EPA 365.1)	0.20		0.050	0.025	mg/L		10/08/24 11:23	10/09/24 14:31	1
Chromium, hexavalent (SW846 7196A)	ND		0.020	0.0040	mg/L			10/01/24 11:53	1
Cr (III) (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Cr (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1
Cr (VI) (SW846 7196A)	ND		20	20	ug/L			10/02/24 02:14	1

Client Sample ID: CG-1
Date Collected: 09/30/24 16:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	7.8		3.0	1.0	mg/L			10/01/24 19:46	1
Sulfate (EPA 300.0)	710		25	5.2	mg/L			10/05/24 00:13	5
Phosphorus, Total (EPA 365.1)	ND		0.050	0.025	mg/L		10/08/24 11:23	10/09/24 14:31	1
Chromium, hexavalent (SW846 7196A)	ND		0.020	0.0040	mg/L			10/01/24 11:53	1
Cr (III) (SW846 7196A)	ND		20	20	ug/L			10/07/24 21:09	1
Cr (SW846 7196A)	ND		20	20	ug/L			10/07/24 21:09	1
Cr (VI) (SW846 7196A)	ND		20	20	ug/L			10/07/24 21:09	1

Client Sample ID: AR-1
Date Collected: 10/11/24 09:25
Date Received: 10/12/24 10:05

Lab Sample ID: 280-198016-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Dissolved (SM 4500 S2 D)	ND		0.050	0.022	mg/L			10/14/24 15:19	1

Client Sample ID: AR-2
Date Collected: 10/11/24 09:30
Date Received: 10/12/24 10:05

Lab Sample ID: 280-198016-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Dissolved (SM 4500 S2 D)	ND		0.050	0.022	mg/L			10/14/24 15:21	1

Client Sample ID: CG-1
Date Collected: 10/11/24 08:50
Date Received: 10/12/24 10:05

Lab Sample ID: 280-198016-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Dissolved (SM 4500 S2 D)	ND		0.050	0.022	mg/L			10/14/24 15:21	1

Client Sample ID: CG-2
Date Collected: 10/11/24 09:05
Date Received: 10/12/24 10:05

Lab Sample ID: 280-198016-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Dissolved (SM 4500 S2 D)	ND		0.050	0.022	mg/L			10/14/24 15:22	1

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QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-669344/1-A
Matrix: Water
Analysis Batch: 669773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 669344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		10/02/24 14:50	10/03/24 19:44	1

Lab Sample ID: LCS 280-669344/2-A
Matrix: Water
Analysis Batch: 669773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 669344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10100		ug/L		101	89 - 115

Lab Sample ID: MB 280-669398/1-B
Matrix: Water
Analysis Batch: 669920

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 669449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		100	1.5	ug/L		10/03/24 14:55	10/04/24 19:47	1
Iron	38.4	J	100	9.1	ug/L		10/03/24 14:55	10/04/24 19:47	1

Lab Sample ID: LCS 280-669398/2-B
Matrix: Water
Analysis Batch: 669920

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 669449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2000	1990		ug/L		100	86 - 110
Iron	10000	9990		ug/L		100	89 - 115

Lab Sample ID: 280-197338-1 MS
Matrix: Water
Analysis Batch: 669920

Client Sample ID: CG-2
Prep Type: Dissolved
Prep Batch: 669449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	56	J	2000	1930		ug/L		94	87 - 113
Iron	11	J	10000	9370		ug/L		94	75 - 125

Lab Sample ID: 280-197338-1 MSD
Matrix: Water
Analysis Batch: 669920

Client Sample ID: CG-2
Prep Type: Dissolved
Prep Batch: 669449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	56	J	2000	2000		ug/L		97	87 - 113	3	20
Iron	11	J	10000	9410		ug/L		94	75 - 125	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 280-669344/1-A
Matrix: Water
Analysis Batch: 669712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 669344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:01	1
Molybdenum	ND		2.0	0.37	ug/L		10/02/24 14:50	10/03/24 11:01	1

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QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-669344/1-A
Matrix: Water
Analysis Batch: 669712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 669344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		3.0	0.50	ug/L		10/02/24 14:50	10/03/24 11:01	1

Lab Sample ID: LCS 280-669344/24-A
Matrix: Water
Analysis Batch: 669712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 669344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.3		ug/L		103	85 - 117
Molybdenum	40.0	38.3		ug/L		96	85 - 119
Chromium	40.0	39.6		ug/L		99	84 - 121

Lab Sample ID: MB 280-669398/1-B
Matrix: Water
Analysis Batch: 670248

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 669449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.045	ug/L		10/03/24 14:55	10/08/24 17:16	1
Arsenic	ND		5.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:16	1
Cadmium	ND		1.0	0.19	ug/L		10/03/24 14:55	10/08/24 17:16	1
Copper	ND		2.0	0.71	ug/L		10/03/24 14:55	10/08/24 17:16	1
Manganese	ND		3.0	0.51	ug/L		10/03/24 14:55	10/08/24 17:16	1
Lead	ND		1.0	0.23	ug/L		10/03/24 14:55	10/08/24 17:16	1
Selenium	ND		5.0	1.0	ug/L		10/03/24 14:55	10/08/24 17:16	1
Uranium	ND		1.0	0.030	ug/L		10/03/24 14:55	10/08/24 17:16	1
Vanadium	ND		5.0	1.1	ug/L		10/03/24 14:55	10/08/24 17:16	1
Chromium	ND		3.0	0.50	ug/L		10/03/24 14:55	10/08/24 17:16	1

Lab Sample ID: MB 280-669398/1-B
Matrix: Water
Analysis Batch: 670362

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 669449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	4.91	J	10	2.0	ug/L		10/03/24 14:55	10/09/24 13:37	1

Lab Sample ID: LCS 280-669398/2-C
Matrix: Water
Analysis Batch: 670248

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 669449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	40.0	42.0		ug/L		105	85 - 115
Arsenic	40.0	43.1		ug/L		108	85 - 117
Cadmium	40.0	43.0		ug/L		108	85 - 115
Copper	40.0	41.5		ug/L		104	85 - 119
Manganese	40.0	41.6		ug/L		104	85 - 117
Lead	40.0	41.0		ug/L		102	85 - 118
Selenium	40.0	40.3		ug/L		101	77 - 122
Uranium	40.0	39.7		ug/L		99	85 - 119
Vanadium	40.0	43.9		ug/L		110	85 - 120
Chromium	40.0	41.6		ug/L		104	84 - 121

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QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-197338-1 MS

Matrix: Water

Analysis Batch: 670248

Client Sample ID: CG-2

Prep Type: Dissolved

Prep Batch: 669449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		40.0	41.8		ug/L		105	93 - 118
Arsenic	ND		40.0	41.8		ug/L		104	92 - 112
Cadmium	1.8		40.0	44.1		ug/L		106	91 - 114
Copper	1.8	J	40.0	42.0		ug/L		101	89 - 116
Manganese	320		40.0	356	4	ug/L		81	89 - 119
Lead	0.38	J	40.0	41.2		ug/L		102	95 - 116
Selenium	ND		40.0	41.5		ug/L		104	90 - 115
Uranium	3.5		40.0	44.1		ug/L		101	91 - 116
Vanadium	ND		40.0	42.8		ug/L		107	91 - 114
Chromium	ND		40.0	40.8		ug/L		102	91 - 114

Lab Sample ID: 280-197338-1 MSD

Matrix: Water

Analysis Batch: 670248

Client Sample ID: CG-2

Prep Type: Dissolved

Prep Batch: 669449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		40.0	41.4		ug/L		104	93 - 118	1	20
Arsenic	ND		40.0	41.1		ug/L		103	92 - 112	2	20
Cadmium	1.8		40.0	43.4		ug/L		104	91 - 114	2	20
Copper	1.8	J	40.0	41.0		ug/L		98	89 - 116	2	20
Manganese	320		40.0	348	4	ug/L		60	89 - 119	2	20
Lead	0.38	J	40.0	40.7		ug/L		101	95 - 116	1	20
Selenium	ND		40.0	40.1		ug/L		100	90 - 115	3	20
Uranium	3.5		40.0	43.3		ug/L		99	91 - 116	2	20
Vanadium	ND		40.0	41.3		ug/L		103	91 - 114	4	20
Chromium	ND		40.0	39.2		ug/L		98	91 - 114	4	20

Lab Sample ID: MB 280-670379/1-B

Matrix: Water

Analysis Batch: 670816

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 670389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		3.0	0.83	ug/L		10/11/24 08:18	10/12/24 10:11	1
Zinc	ND		10	2.0	ug/L		10/11/24 08:18	10/12/24 10:11	1

Lab Sample ID: LCS 280-670379/2-B

Matrix: Water

Analysis Batch: 670816

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 670389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	40.0	40.5		ug/L		101	85 - 119
Zinc	40.0	42.5		ug/L		106	83 - 122

Lab Sample ID: 280-197338-2 MS

Matrix: Water

Analysis Batch: 670816

Client Sample ID: AR-1

Prep Type: Dissolved

Prep Batch: 670389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	ND		40.0	41.8		ug/L		104	92 - 116

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QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-197338-2 MS

Matrix: Water

Analysis Batch: 670816

Client Sample ID: AR-1

Prep Type: Dissolved

Prep Batch: 670389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	22		40.0	62.5		ug/L		101	86 - 120

Lab Sample ID: 280-197338-2 MSD

Matrix: Water

Analysis Batch: 670816

Client Sample ID: AR-1

Prep Type: Dissolved

Prep Batch: 670389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	ND		40.0	41.0		ug/L		102	92 - 116	2	20
Zinc	22		40.0	59.2		ug/L		93	86 - 120	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-669954/1-A

Matrix: Water

Analysis Batch: 670142

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/07/24 10:47	10/07/24 16:28	1

Lab Sample ID: LCS 280-669954/2-A

Matrix: Water

Analysis Batch: 670142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.85		ug/L		97	84 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-669329/6

Matrix: Water

Analysis Batch: 669329

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			10/01/24 13:09	1
Nitrite as N	ND		0.50	0.049	mg/L			10/01/24 13:09	1

Lab Sample ID: LCS 280-669329/4

Matrix: Water

Analysis Batch: 669329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	5.01		mg/L		100	90 - 110
Nitrite as N	5.00	5.13		mg/L		103	90 - 110

Lab Sample ID: LCSD 280-669329/5

Matrix: Water

Analysis Batch: 669329

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	5.03		mg/L		101	90 - 110	0	10
Nitrite as N	5.00	5.14		mg/L		103	90 - 110	0	10

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QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 280-669329/3

Matrix: Water

Analysis Batch: 669329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.492	J	mg/L		98	50 - 150
Nitrite as N	0.500	0.490	J	mg/L		98	50 - 150

Lab Sample ID: 280-197338-3 MS

Matrix: Water

Analysis Batch: 669329

Client Sample ID: AR-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.86		5.00	6.08		mg/L		104	80 - 120
Nitrite as N	ND		5.00	5.10		mg/L		102	80 - 120

Lab Sample ID: 280-197338-3 MSD

Matrix: Water

Analysis Batch: 669329

Client Sample ID: AR-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.86		5.00	6.07		mg/L		104	80 - 120	0	20
Nitrite as N	ND		5.00	5.11		mg/L		102	80 - 120	0	20

Lab Sample ID: 280-197338-3 DU

Matrix: Water

Analysis Batch: 669329

Client Sample ID: AR-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.86		0.865		mg/L		0.9	15
Nitrite as N	ND		ND		mg/L		NC	15

Lab Sample ID: MB 280-669330/6

Matrix: Water

Analysis Batch: 669330

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			10/01/24 13:09	1
Sulfate	ND		5.0	1.0	mg/L			10/01/24 13:09	1

Lab Sample ID: LCS 280-669330/4

Matrix: Water

Analysis Batch: 669330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	99.8		mg/L		100	90 - 110
Sulfate	100	101		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-669330/5

Matrix: Water

Analysis Batch: 669330

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100		mg/L		100	90 - 110	0	10
Sulfate	100	101		mg/L		101	90 - 110	0	10

Eurofins Denver

QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 280-669330/3

Matrix: Water

Analysis Batch: 669330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.99		mg/L		100	50 - 150
Sulfate	5.00	4.77	J	mg/L		95	50 - 150

Lab Sample ID: MRL 280-669803/3

Matrix: Water

Analysis Batch: 669803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.59	J	mg/L		92	50 - 150

Lab Sample ID: 280-197338-3 MS

Matrix: Water

Analysis Batch: 669330

Client Sample ID: AR-2

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12		50.0	64.5		mg/L		105	80 - 120

Lab Sample ID: 280-197338-3 MSD

Matrix: Water

Analysis Batch: 669330

Client Sample ID: AR-2

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12		50.0	64.6		mg/L		105	80 - 120	0	20

Lab Sample ID: 280-197338-3 DU

Matrix: Water

Analysis Batch: 669330

Client Sample ID: AR-2

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	12		12.2		mg/L		0.4	15

Lab Sample ID: 280-197338-4 MS

Matrix: Water

Analysis Batch: 669803

Client Sample ID: CG-1

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	710		250	879	F1	mg/L		67	80 - 120

Lab Sample ID: 280-197338-4 MSD

Matrix: Water

Analysis Batch: 669803

Client Sample ID: CG-1

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	710		250	938		mg/L		90	80 - 120	6	20

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QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-197338-4 DU
Matrix: Water
Analysis Batch: 669803

Client Sample ID: CG-1
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	710		699		mg/L		2	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-669927/18
Matrix: Water
Analysis Batch: 669927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.10	0.029	mg/L			10/05/24 10:19	1

Lab Sample ID: LCS 280-669927/19
Matrix: Water
Analysis Batch: 669927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.51	2.48		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 280-670148/3-B
Matrix: Water
Analysis Batch: 670368

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 670149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	ND		0.050	0.025	mg/L		10/08/24 11:22	10/09/24 14:30	1

Lab Sample ID: LCS 280-670148/1-B
Matrix: Water
Analysis Batch: 670368

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 670149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	0.500	0.484		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-670148/2-B
Matrix: Water
Analysis Batch: 670368

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 670149

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus, Total	0.500	0.505		mg/L		101	90 - 110	4	10

Lab Sample ID: 280-197338-1 MS
Matrix: Water
Analysis Batch: 670368

Client Sample ID: CG-2
Prep Type: Dissolved
Prep Batch: 670149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	0.27	F1	0.500	0.718		mg/L		90	90 - 110

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QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 280-197338-1 MSD
Matrix: Water
Analysis Batch: 670368

Client Sample ID: CG-2
Prep Type: Dissolved
Prep Batch: 670149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus, Total	0.27	F1	0.500	0.702	F1	mg/L		86	90 - 110	2	10

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 280-669328/3-A
Matrix: Water
Analysis Batch: 669361

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			10/01/24 11:50	1

Lab Sample ID: LCS 280-669328/1-A
Matrix: Water
Analysis Batch: 669361

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.0982		mg/L		98	85 - 115

Lab Sample ID: LCSD 280-669328/2-A
Matrix: Water
Analysis Batch: 669361

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.0936		mg/L		94	85 - 115	5	20

Lab Sample ID: 280-197338-1 MS
Matrix: Water
Analysis Batch: 669361

Client Sample ID: CG-2
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.100	0.0902		mg/L		90	85 - 115

Lab Sample ID: 280-197338-1 MSD
Matrix: Water
Analysis Batch: 669361

Client Sample ID: CG-2
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.0929		mg/L		93	85 - 115	3	20

Lab Sample ID: 280-197338-1 DU
Matrix: Water
Analysis Batch: 669361

Client Sample ID: CG-2
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

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QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-560613/33

Matrix: Water

Analysis Batch: 560613

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		0.0060	0.0050	mg/L			10/07/24 17:49	1

Lab Sample ID: LCS 410-560613/32

Matrix: Water

Analysis Batch: 560613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0623		mg/L		125	82 - 132

Lab Sample ID: 280-197338-1 MS

Matrix: Water

Analysis Batch: 560613

Client Sample ID: CG-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	ND		0.0500	0.0523		mg/L		105	82 - 130

Lab Sample ID: 280-197338-1 MSD

Matrix: Water

Analysis Batch: 560613

Client Sample ID: CG-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	ND		0.0500	0.0539		mg/L		108	82 - 130	3	11

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-669427/1

Matrix: Water

Analysis Batch: 669427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			10/02/24 08:48	1

Lab Sample ID: LCS 280-669427/2

Matrix: Water

Analysis Batch: 669427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids (TDS)	501	489		mg/L		98	88 - 114

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-670955/11

Matrix: Water

Analysis Batch: 670955

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Dissolved	ND		0.050	0.022	mg/L			10/14/24 15:05	1

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QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: LCS 280-670955/9

Matrix: Water

Analysis Batch: 670955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Dissolved	0.501	0.525		mg/L		105	81 - 122

Lab Sample ID: LCSD 280-670955/10

Matrix: Water

Analysis Batch: 670955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Dissolved	0.501	0.511		mg/L		102	81 - 122	3	10

Lab Sample ID: 280-198016-1 MS

Matrix: Water

Analysis Batch: 670955

Client Sample ID: AR-1

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Dissolved	ND		0.501	0.493		mg/L		98	81 - 122

Lab Sample ID: 280-198016-1 MSD

Matrix: Water

Analysis Batch: 670955

Client Sample ID: AR-1

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Dissolved	ND		0.501	0.486		mg/L		97	81 - 122	1	10

QC Association Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Metals

Prep Batch: 669344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	3020A	
280-197338-2	AR-1	Total/NA	Water	3020A	
280-197338-3	AR-2	Total/NA	Water	3020A	
280-197338-4	CG-1	Total/NA	Water	3020A	
MB 280-669344/1-A	Method Blank	Total/NA	Water	3020A	
LCS 280-669344/24-A	Lab Control Sample	Total/NA	Water	3020A	
LCS 280-669344/2-A	Lab Control Sample	Total/NA	Water	3020A	

Filtration Batch: 669398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	Filtration	
280-197338-2	AR-1	Dissolved	Water	Filtration	
280-197338-3	AR-2	Dissolved	Water	Filtration	
280-197338-4	CG-1	Dissolved	Water	Filtration	
MB 280-669398/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 280-669398/2-B	Lab Control Sample	Dissolved	Water	Filtration	
LCS 280-669398/2-C	Lab Control Sample	Dissolved	Water	Filtration	
280-197338-1 MS	CG-2	Dissolved	Water	Filtration	
280-197338-1 MSD	CG-2	Dissolved	Water	Filtration	

Prep Batch: 669449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	3005A	669398
280-197338-1	CG-2	Dissolved	Water	3005A	669398
280-197338-2	AR-1	Dissolved	Water	3005A	669398
280-197338-3	AR-2	Dissolved	Water	3005A	669398
280-197338-4	CG-1	Dissolved	Water	3005A	669398
MB 280-669398/1-B	Method Blank	Dissolved	Water	3005A	669398
LCS 280-669398/2-B	Lab Control Sample	Dissolved	Water	3005A	669398
LCS 280-669398/2-C	Lab Control Sample	Dissolved	Water	3005A	669398
280-197338-1 MS	CG-2	Dissolved	Water	3005A	669398
280-197338-1 MS	CG-2	Dissolved	Water	3005A	669398
280-197338-1 MSD	CG-2	Dissolved	Water	3005A	669398
280-197338-1 MSD	CG-2	Dissolved	Water	3005A	669398

Analysis Batch: 669712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	6020B	669344
280-197338-2	AR-1	Total/NA	Water	6020B	669344
280-197338-3	AR-2	Total/NA	Water	6020B	669344
280-197338-4	CG-1	Total/NA	Water	6020B	669344
MB 280-669344/1-A	Method Blank	Total/NA	Water	6020B	669344
LCS 280-669344/24-A	Lab Control Sample	Total/NA	Water	6020B	669344

Analysis Batch: 669773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	6010D	669344
280-197338-2	AR-1	Total/NA	Water	6010D	669344
280-197338-3	AR-2	Total/NA	Water	6010D	669344
280-197338-4	CG-1	Total/NA	Water	6010D	669344
MB 280-669344/1-A	Method Blank	Total/NA	Water	6010D	669344

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QC Association Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Metals (Continued)

Analysis Batch: 669773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-669344/2-A	Lab Control Sample	Total/NA	Water	6010D	669344

Analysis Batch: 669920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	6010D	669449
280-197338-2	AR-1	Dissolved	Water	6010D	669449
280-197338-3	AR-2	Dissolved	Water	6010D	669449
280-197338-4	CG-1	Dissolved	Water	6010D	669449
MB 280-669398/1-B	Method Blank	Dissolved	Water	6010D	669449
LCS 280-669398/2-B	Lab Control Sample	Dissolved	Water	6010D	669449
280-197338-1 MS	CG-2	Dissolved	Water	6010D	669449
280-197338-1 MSD	CG-2	Dissolved	Water	6010D	669449

Prep Batch: 669954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	7470A	
280-197338-2	AR-1	Total/NA	Water	7470A	
280-197338-3	AR-2	Total/NA	Water	7470A	
280-197338-4	CG-1	Total/NA	Water	7470A	
MB 280-669954/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-669954/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 670142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	7470A	669954
280-197338-2	AR-1	Total/NA	Water	7470A	669954
280-197338-3	AR-2	Total/NA	Water	7470A	669954
280-197338-4	CG-1	Total/NA	Water	7470A	669954
MB 280-669954/1-A	Method Blank	Total/NA	Water	7470A	669954
LCS 280-669954/2-A	Lab Control Sample	Total/NA	Water	7470A	669954

Analysis Batch: 670248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	6020B	669449
280-197338-2	AR-1	Dissolved	Water	6020B	669449
280-197338-3	AR-2	Dissolved	Water	6020B	669449
280-197338-4	CG-1	Dissolved	Water	6020B	669449
MB 280-669398/1-B	Method Blank	Dissolved	Water	6020B	669449
LCS 280-669398/2-C	Lab Control Sample	Dissolved	Water	6020B	669449
280-197338-1 MS	CG-2	Dissolved	Water	6020B	669449
280-197338-1 MSD	CG-2	Dissolved	Water	6020B	669449

Analysis Batch: 670362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-669398/1-B	Method Blank	Dissolved	Water	6020B	669449

Filtration Batch: 670379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	FILTRATION	
280-197338-2	AR-1	Dissolved	Water	FILTRATION	
280-197338-3	AR-2	Dissolved	Water	FILTRATION	

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QC Association Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Metals (Continued)

Filtration Batch: 670379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-4	CG-1	Dissolved	Water	FILTRATION	
MB 280-670379/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 280-670379/2-B	Lab Control Sample	Dissolved	Water	Filtration	
280-197338-2 MS	AR-1	Dissolved	Water	FILTRATION	
280-197338-2 MSD	AR-1	Dissolved	Water	FILTRATION	

Prep Batch: 670389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	3005A	670379
280-197338-2	AR-1	Dissolved	Water	3005A	670379
280-197338-3	AR-2	Dissolved	Water	3005A	670379
280-197338-4	CG-1	Dissolved	Water	3005A	670379
MB 280-670379/1-B	Method Blank	Dissolved	Water	3005A	670379
LCS 280-670379/2-B	Lab Control Sample	Dissolved	Water	3005A	670379
280-197338-2 MS	AR-1	Dissolved	Water	3005A	670379
280-197338-2 MSD	AR-1	Dissolved	Water	3005A	670379

Analysis Batch: 670816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	6020B	670389
280-197338-2	AR-1	Dissolved	Water	6020B	670389
280-197338-3	AR-2	Dissolved	Water	6020B	670389
280-197338-4	CG-1	Dissolved	Water	6020B	670389
MB 280-670379/1-B	Method Blank	Dissolved	Water	6020B	670389
LCS 280-670379/2-B	Lab Control Sample	Dissolved	Water	6020B	670389
280-197338-2 MS	AR-1	Dissolved	Water	6020B	670389
280-197338-2 MSD	AR-1	Dissolved	Water	6020B	670389

General Chemistry

Analysis Batch: 560613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	OIA-1677	
280-197338-2	AR-1	Total/NA	Water	OIA-1677	
280-197338-3	AR-2	Total/NA	Water	OIA-1677	
280-197338-4	CG-1	Total/NA	Water	OIA-1677	
MB 410-560613/33	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-560613/32	Lab Control Sample	Total/NA	Water	OIA-1677	
280-197338-1 MS	CG-2	Total/NA	Water	OIA-1677	
280-197338-1 MSD	CG-2	Total/NA	Water	OIA-1677	

Filtration Batch: 669328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	FILTRATION	
280-197338-2	AR-1	Dissolved	Water	FILTRATION	
280-197338-3	AR-2	Dissolved	Water	FILTRATION	
280-197338-4	CG-1	Dissolved	Water	FILTRATION	
MB 280-669328/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-669328/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-669328/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-197338-1 MS	CG-2	Dissolved	Water	FILTRATION	

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QC Association Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

General Chemistry (Continued)

Filtration Batch: 669328 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1 MSD	CG-2	Dissolved	Water	FILTRATION	
280-197338-1 DU	CG-2	Dissolved	Water	FILTRATION	

Analysis Batch: 669329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	300.0	
280-197338-2	AR-1	Total/NA	Water	300.0	
280-197338-3	AR-2	Total/NA	Water	300.0	
280-197338-4	CG-1	Total/NA	Water	300.0	
MB 280-669329/6	Method Blank	Total/NA	Water	300.0	
LCS 280-669329/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-669329/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-669329/3	Lab Control Sample	Total/NA	Water	300.0	
280-197338-3 MS	AR-2	Total/NA	Water	300.0	
280-197338-3 MSD	AR-2	Total/NA	Water	300.0	
280-197338-3 DU	AR-2	Total/NA	Water	300.0	

Analysis Batch: 669330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	300.0	669859
280-197338-2	AR-1	Dissolved	Water	300.0	669859
280-197338-3	AR-2	Dissolved	Water	300.0	669859
280-197338-4	CG-1	Dissolved	Water	300.0	669859
MB 280-669330/6	Method Blank	Total/NA	Water	300.0	
LCS 280-669330/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-669330/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-669330/3	Lab Control Sample	Total/NA	Water	300.0	
280-197338-3 MS	AR-2	Dissolved	Water	300.0	669859
280-197338-3 MSD	AR-2	Dissolved	Water	300.0	669859
280-197338-3 DU	AR-2	Dissolved	Water	300.0	669859

Analysis Batch: 669361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	7196A	669328
280-197338-2	AR-1	Dissolved	Water	7196A	669328
280-197338-3	AR-2	Dissolved	Water	7196A	669328
280-197338-4	CG-1	Dissolved	Water	7196A	669328
MB 280-669328/3-A	Method Blank	Dissolved	Water	7196A	669328
LCS 280-669328/1-A	Lab Control Sample	Dissolved	Water	7196A	669328
LCSD 280-669328/2-A	Lab Control Sample Dup	Dissolved	Water	7196A	669328
280-197338-1 MS	CG-2	Dissolved	Water	7196A	669328
280-197338-1 MSD	CG-2	Dissolved	Water	7196A	669328
280-197338-1 DU	CG-2	Dissolved	Water	7196A	669328

Filtration Batch: 669398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	FILTRATION	
280-197338-2	AR-1	Dissolved	Water	FILTRATION	
280-197338-3	AR-2	Dissolved	Water	FILTRATION	
280-197338-4	CG-1	Dissolved	Water	FILTRATION	

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QC Association Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

General Chemistry

Analysis Batch: 669402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	7196A	669398
280-197338-1	CG-2	Total/NA	Water	7196A	
280-197338-2	AR-1	Dissolved	Water	7196A	669398
280-197338-2	AR-1	Total/NA	Water	7196A	
280-197338-3	AR-2	Dissolved	Water	7196A	669398
280-197338-3	AR-2	Total/NA	Water	7196A	
280-197338-4	CG-1	Dissolved	Water	7196A	669398
280-197338-4	CG-1	Total/NA	Water	7196A	

Analysis Batch: 669427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	SM 2540C	
280-197338-2	AR-1	Total/NA	Water	SM 2540C	
280-197338-3	AR-2	Total/NA	Water	SM 2540C	
280-197338-4	CG-1	Total/NA	Water	SM 2540C	
MB 280-669427/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-669427/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 669803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	300.0	669859
280-197338-3	AR-2	Dissolved	Water	300.0	669859
280-197338-4	CG-1	Dissolved	Water	300.0	669859
MRL 280-669803/3	Lab Control Sample	Total/NA	Water	300.0	
280-197338-4 MS	CG-1	Dissolved	Water	300.0	669859
280-197338-4 MSD	CG-1	Dissolved	Water	300.0	669859
280-197338-4 DU	CG-1	Dissolved	Water	300.0	669859

Filtration Batch: 669859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	FILTRATION	
280-197338-2	AR-1	Dissolved	Water	FILTRATION	
280-197338-3	AR-2	Dissolved	Water	FILTRATION	
280-197338-4	CG-1	Dissolved	Water	FILTRATION	
280-197338-3 MS	AR-2	Dissolved	Water	FILTRATION	
280-197338-3 MSD	AR-2	Dissolved	Water	FILTRATION	
280-197338-4 MS	CG-1	Dissolved	Water	FILTRATION	
280-197338-4 MSD	CG-1	Dissolved	Water	FILTRATION	
280-197338-3 DU	AR-2	Dissolved	Water	FILTRATION	
280-197338-4 DU	CG-1	Dissolved	Water	FILTRATION	

Analysis Batch: 669927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	350.1	
280-197338-2	AR-1	Total/NA	Water	350.1	
280-197338-3	AR-2	Total/NA	Water	350.1	
280-197338-4	CG-1	Total/NA	Water	350.1	
MB 280-669927/18	Method Blank	Total/NA	Water	350.1	
LCS 280-669927/19	Lab Control Sample	Total/NA	Water	350.1	

QC Association Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

General Chemistry

Filtration Batch: 670148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	FILTRATION	
280-197338-2	AR-1	Dissolved	Water	FILTRATION	
280-197338-3	AR-2	Dissolved	Water	FILTRATION	
280-197338-4	CG-1	Dissolved	Water	FILTRATION	
MB 280-670148/3-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-670148/1-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-670148/2-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-197338-1 MS	CG-2	Dissolved	Water	FILTRATION	
280-197338-1 MSD	CG-2	Dissolved	Water	FILTRATION	

Prep Batch: 670149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	365.2/365.3/365	670148
280-197338-2	AR-1	Dissolved	Water	365.2/365.3/365	670148
280-197338-3	AR-2	Dissolved	Water	365.2/365.3/365	670148
280-197338-4	CG-1	Dissolved	Water	365.2/365.3/365	670148
MB 280-670148/3-B	Method Blank	Dissolved	Water	365.2/365.3/365	670148
LCS 280-670148/1-B	Lab Control Sample	Dissolved	Water	365.2/365.3/365	670148
LCSD 280-670148/2-B	Lab Control Sample Dup	Dissolved	Water	365.2/365.3/365	670148
280-197338-1 MS	CG-2	Dissolved	Water	365.2/365.3/365	670148
280-197338-1 MSD	CG-2	Dissolved	Water	365.2/365.3/365	670148

Analysis Batch: 670368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Dissolved	Water	365.1	670149
280-197338-2	AR-1	Dissolved	Water	365.1	670149
280-197338-3	AR-2	Dissolved	Water	365.1	670149
280-197338-4	CG-1	Dissolved	Water	365.1	670149
MB 280-670148/3-B	Method Blank	Dissolved	Water	365.1	670149
LCS 280-670148/1-B	Lab Control Sample	Dissolved	Water	365.1	670149
LCSD 280-670148/2-B	Lab Control Sample Dup	Dissolved	Water	365.1	670149
280-197338-1 MS	CG-2	Dissolved	Water	365.1	670149
280-197338-1 MSD	CG-2	Dissolved	Water	365.1	670149

Analysis Batch: 670955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-198016-1	AR-1	Dissolved	Water	SM 4500 S2 D	
280-198016-2	AR-2	Dissolved	Water	SM 4500 S2 D	
280-198016-3	CG-1	Dissolved	Water	SM 4500 S2 D	
280-198016-4	CG-2	Dissolved	Water	SM 4500 S2 D	
MB 280-670955/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-670955/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-670955/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-198016-1 MS	AR-1	Dissolved	Water	SM 4500 S2 D	
280-198016-1 MSD	AR-1	Dissolved	Water	SM 4500 S2 D	

Lab Chronicle

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Client Sample ID: CG-2

Date Collected: 09/30/24 15:30

Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	669449	10/03/24 14:55	SLH	EET DEN
Dissolved	Analysis	6010D		1			669920	10/04/24 20:07	NKC	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	669344	10/02/24 14:50	SLH	EET DEN
Total/NA	Analysis	6010D		1			669773	10/03/24 19:52	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	669449	10/03/24 14:55	SLH	EET DEN
Dissolved	Analysis	6020B		1			670248	10/08/24 17:23	LMT	EET DEN
Dissolved	Filtration	FILTRATION			50 mL	50 mL	670379	10/09/24 15:19	KLG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	670389	10/11/24 08:18	KLG	EET DEN
Dissolved	Analysis	6020B		1			670816	10/12/24 10:16	LMT	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	669344	10/02/24 14:50	SLH	EET DEN
Total/NA	Analysis	6020B		1			669712	10/03/24 11:06	LMT	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	669954	10/07/24 10:47	AES	EET DEN
Total/NA	Analysis	7470A		1			670142	10/07/24 17:13	AES	EET DEN
Dissolved	Analysis	300.0		1	10 mL	10 mL	669330	10/01/24 18:18	IRC	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	669859	10/04/24 13:20	IRC	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	669859	10/04/24 13:20	IRC	EET DEN
Dissolved	Analysis	300.0		5	10 mL	10 mL	669803	10/04/24 23:40	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669329	10/01/24 18:18	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	669927	10/05/24 10:43	LBR	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	670148	10/08/24 11:17	ABW	EET DEN
Dissolved	Prep	365.2/365.3/365			50 mL	50 mL	670149	10/08/24 11:23	ABW	EET DEN
Dissolved	Analysis	365.1		1	2 mL	2 mL	670368	10/09/24 14:31	ABW	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	669328	10/01/24 11:41	CLP	EET DEN
Dissolved	Analysis	7196A		1	2 mL	2 mL	669361	10/01/24 11:51	CLP	EET DEN
Dissolved	Filtration	FILTRATION			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Analysis	7196A		1			669402	10/02/24 02:14	P1C	EET DEN
Total/NA	Analysis	7196A		1			669402	10/02/24 02:14	P1C	EET DEN
Total/NA	Analysis	OIA-1677		1			560613	10/07/24 17:51	UJE2	ELLE
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	669427	10/02/24 08:48	BRD	EET DEN

Client Sample ID: AR-1

Date Collected: 09/30/24 15:45

Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	669449	10/03/24 14:55	SLH	EET DEN
Dissolved	Analysis	6010D		1			669920	10/04/24 20:39	NKC	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	669344	10/02/24 14:50	SLH	EET DEN
Total/NA	Analysis	6010D		1			669773	10/03/24 20:11	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	669449	10/03/24 14:55	SLH	EET DEN
Dissolved	Analysis	6020B		1			670248	10/08/24 17:40	LMT	EET DEN

Eurofins Denver

Lab Chronicle

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Client Sample ID: AR-1

Date Collected: 09/30/24 15:45

Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			50 mL	50 mL	670379	10/09/24 15:19	KLG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	670389	10/11/24 08:18	KLG	EET DEN
Dissolved	Analysis	6020B		1			670816	10/12/24 10:18	LMT	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	669344	10/02/24 14:50	SLH	EET DEN
Total/NA	Analysis	6020B		1			669712	10/03/24 11:08	LMT	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	669954	10/07/24 10:47	AES	EET DEN
Total/NA	Analysis	7470A		1			670142	10/07/24 17:15	AES	EET DEN
Dissolved	Analysis	300.0		1	10 mL	10 mL	669330	10/01/24 18:29	IRC	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	669859	10/04/24 13:20	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669329	10/01/24 18:29	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	669927	10/05/24 10:45	LBR	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	670148	10/08/24 11:17	ABW	EET DEN
Dissolved	Prep	365.2/365.3/365			50 mL	50 mL	670149	10/08/24 11:23	ABW	EET DEN
Dissolved	Analysis	365.1		1	2 mL	2 mL	670368	10/09/24 14:31	ABW	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	669328	10/01/24 11:41	CLP	EET DEN
Dissolved	Analysis	7196A		1	2 mL	2 mL	669361	10/01/24 11:52	CLP	EET DEN
Dissolved	Filtration	FILTRATION			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Analysis	7196A		1			669402	10/07/24 21:09	P1C	EET DEN
Total/NA	Analysis	7196A		1			669402	10/02/24 02:14	P1C	EET DEN
Total/NA	Analysis	OIA-1677		1			560613	10/07/24 17:59	UJE2	ELLE
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	669427	10/02/24 08:48	BRD	EET DEN

Client Sample ID: AR-2

Date Collected: 09/30/24 16:00

Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	669449	10/03/24 14:55	SLH	EET DEN
Dissolved	Analysis	6010D		1			669920	10/04/24 20:43	NKC	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	669344	10/02/24 14:50	SLH	EET DEN
Total/NA	Analysis	6010D		1			669773	10/03/24 20:15	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	669449	10/03/24 14:55	SLH	EET DEN
Dissolved	Analysis	6020B		1			670248	10/08/24 17:54	LMT	EET DEN
Dissolved	Filtration	FILTRATION			50 mL	50 mL	670379	10/09/24 15:19	KLG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	670389	10/11/24 08:18	KLG	EET DEN
Dissolved	Analysis	6020B		1			670816	10/12/24 10:34	LMT	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	669344	10/02/24 14:50	SLH	EET DEN
Total/NA	Analysis	6020B		1			669712	10/03/24 11:10	LMT	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	669954	10/07/24 10:47	AES	EET DEN
Total/NA	Analysis	7470A		1			670142	10/07/24 17:18	AES	EET DEN
Dissolved	Analysis	300.0		1	10 mL	10 mL	669330	10/01/24 19:02	IRC	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	669859	10/04/24 13:20	IRC	EET DEN

Eurofins Denver

Lab Chronicle

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Client Sample ID: AR-2

Lab Sample ID: 280-197338-3

Date Collected: 09/30/24 16:00

Matrix: Water

Date Received: 10/01/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	669859	10/04/24 13:20	IRC	EET DEN
Dissolved	Analysis	300.0		5	10 mL	10 mL	669803	10/05/24 01:08	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669329	10/01/24 19:02	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	669927	10/05/24 10:47	LBR	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	670148	10/08/24 11:17	ABW	EET DEN
Dissolved	Prep	365.2/365.3/365			50 mL	50 mL	670149	10/08/24 11:23	ABW	EET DEN
Dissolved	Analysis	365.1		1	2 mL	2 mL	670368	10/09/24 14:31	ABW	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	669328	10/01/24 11:41	CLP	EET DEN
Dissolved	Analysis	7196A		1	2 mL	2 mL	669361	10/01/24 11:53	CLP	EET DEN
Dissolved	Filtration	FILTRATION			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Analysis	7196A		1			669402	10/02/24 02:14	P1C	EET DEN
Total/NA	Analysis	7196A		1			669402	10/02/24 02:14	P1C	EET DEN
Total/NA	Analysis	OIA-1677		1			560613	10/07/24 18:06	UJE2	ELLE
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	669427	10/02/24 08:48	BRD	EET DEN

Client Sample ID: CG-1

Lab Sample ID: 280-197338-4

Date Collected: 09/30/24 16:30

Matrix: Water

Date Received: 10/01/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	669449	10/03/24 14:55	SLH	EET DEN
Dissolved	Analysis	6010D		1			669920	10/04/24 20:47	NKC	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	669344	10/02/24 14:50	SLH	EET DEN
Total/NA	Analysis	6010D		1			669773	10/03/24 20:18	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	669449	10/03/24 14:55	SLH	EET DEN
Dissolved	Analysis	6020B		1			670248	10/08/24 17:56	LMT	EET DEN
Dissolved	Filtration	FILTRATION			50 mL	50 mL	670379	10/09/24 15:19	KLG	EET DEN
Dissolved	Prep	3005A			50 mL	50 mL	670389	10/11/24 08:18	KLG	EET DEN
Dissolved	Analysis	6020B		1			670816	10/12/24 10:37	LMT	EET DEN
Total/NA	Prep	3020A			50 mL	50 mL	669344	10/02/24 14:50	SLH	EET DEN
Total/NA	Analysis	6020B		1			669712	10/03/24 11:13	LMT	EET DEN
Total/NA	Prep	7470A			30 mL	50 mL	669954	10/07/24 10:47	AES	EET DEN
Total/NA	Analysis	7470A		1			670142	10/07/24 17:20	AES	EET DEN
Dissolved	Analysis	300.0		1	10 mL	10 mL	669330	10/01/24 19:46	IRC	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	669859	10/04/24 13:20	IRC	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	669859	10/04/24 13:20	IRC	EET DEN
Dissolved	Analysis	300.0		5	10 mL	10 mL	669803	10/05/24 00:13	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669329	10/01/24 19:46	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	669927	10/05/24 11:09	LBR	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	670148	10/08/24 11:17	ABW	EET DEN
Dissolved	Prep	365.2/365.3/365			50 mL	50 mL	670149	10/08/24 11:23	ABW	EET DEN
Dissolved	Analysis	365.1		1	2 mL	2 mL	670368	10/09/24 14:31	ABW	EET DEN

Eurofins Denver

Lab Chronicle

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Client Sample ID: CG-1

Date Collected: 09/30/24 16:30

Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			2 mL	2 mL	669328	10/01/24 11:42	CLP	EET DEN
Dissolved	Analysis	7196A		1	2 mL	2 mL	669361	10/01/24 11:53	CLP	EET DEN
Dissolved	Filtration	FILTRATION			50 mL	50 mL	669398	10/01/24 19:45	AMH	EET DEN
Dissolved	Analysis	7196A		1			669402	10/07/24 21:09	P1C	EET DEN
Total/NA	Analysis	7196A		1			669402	10/02/24 02:14	P1C	EET DEN
Total/NA	Analysis	OIA-1677		1			560613	10/07/24 18:09	UJE2	ELLE
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	669427	10/02/24 08:48	BRD	EET DEN

Client Sample ID: AR-1

Date Collected: 10/11/24 09:25

Date Received: 10/12/24 10:05

Lab Sample ID: 280-198016-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 4500 S2 D		1	2 mL	2 mL	670955	10/14/24 15:19	ABW	EET DEN

Client Sample ID: AR-2

Date Collected: 10/11/24 09:30

Date Received: 10/12/24 10:05

Lab Sample ID: 280-198016-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 4500 S2 D		1	2 mL	2 mL	670955	10/14/24 15:21	ABW	EET DEN

Client Sample ID: CG-1

Date Collected: 10/11/24 08:50

Date Received: 10/12/24 10:05

Lab Sample ID: 280-198016-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 4500 S2 D		1	2 mL	2 mL	670955	10/14/24 15:21	ABW	EET DEN

Client Sample ID: CG-2

Date Collected: 10/11/24 09:05

Date Received: 10/12/24 10:05

Lab Sample ID: 280-198016-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 4500 S2 D		1	2 mL	2 mL	670955	10/14/24 15:22	ABW	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Denver

Accreditation/Certification Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	Petroleum Storage Tank Program	4025 (or)	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	10-14-24
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25
Oklahoma	NELAP	8614	08-31-24 *
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	10-23-24
A2LA	ISO/IEC 17025	0001.01	10-23-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Accreditation/Certification Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	10-23-24
Kentucky (WW)	State	KY90088	12-31-24
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-25
Maryland	State	100	10-21-24
Massachusetts	State	M-PA009	06-30-25
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24 *
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-25
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-27-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-25
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	10-23-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

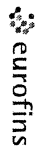
Eurofins Denver

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

[illegible]

Chain of Custody Record



Environment Testing

Client Information						Sampler:	R05/p5	Lab PM:	Ryan, Nicole C.	COC No.:	280-143229-39287.1
Client Contact:						Phone:	303-726-7185	E-Mail:	Nicole.Ryan@ETI.eurolifinsus.com	State of Origin:	CO
Company:						PW/SID:					
Address:						Due Date Requested:					
City:						TAT Requested (days):					
State, Zip:						Compliance Project: Δ Yes Δ No					
Phone:						PO #:					
Email:						Purchase Order Requested					
Project Name:						WO #:					
Site:						SSOW #:					
Sample Identification						Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Weirater, Solid, O-wastefell, BT-Tissue, A&H)	Field Filtered Sample (Yes or No)	
										Perform MS/MSD (Yes or No)	
										9055A-88D, 9056A-48HR: Chloride, Sulfate, Nitrate, Nitrate	
										SM3310B - TOC	
										6020B - Total Metals	
										8260B - VOCs	
										8011 - Standard 8011 list	
										8270E - SIM MS ID - 1,4-Dioxane	
										2320B - Alkalinity	
										SM 4500-S2-P-Sulfide	
										Total Number of containers	
										Special Instructions/Note:	
										Preservation Codes: N - None S - HSO4 D - HNO3 A - HCl	
										Job #:	
										Page 1 of 1	

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10/29/2024

Login Sample Receipt Checklist

Client: Union Milling Company

Job Number: 280-197338-1

Login Number: 197338

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Union Milling Company

Job Number: 280-197338-1

Login Number: 197338

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

List Creation: 10/03/24 01:56 PM

Creator: Arroyo, Haley

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

Login Sample Receipt Checklist

Client: Union Milling Company

Job Number: 280-197338-1

Login Number: 198016

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Nick Michael
Union Milling Company
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Littleton, Colorado 80162
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JOB DESCRIPTION

Leadville Mill, CO

JOB NUMBER

280-197338-2

Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Nicole Ryan, Project Manager I
Nicole.Ryan@ET.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Union Milling Company
Project: Leadville Mill, CO

Job ID: 280-197338-2

Job ID: 280-197338-2

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Job Narrative 280-197338-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/1/2024 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.4°C, 0.7°C and 1.6°C.

Receipt Exceptions

The sample collection times were not recorded on the sample containers received for the following samples: CG-2 (280-197338-1) and AR-2 (280-197338-3). Logged per the COC.

Method 900.0 - Gross Alpha and Gross Beta Radioactivity

Samples CG-2 (280-197338-1), AR-1 (280-197338-2), AR-2 (280-197338-3) and CG-1 (280-197338-4) were analyzed for Gross Alpha and Gross Beta Radioactivity. The samples were prepared on 10/8/2024 and analyzed on 10/21/2024.

Gross Alpha Beta Batch 682631: The detection goal was not met for the following samples due to a reduction of the sample size attributed to high residual mass: CG-2 (280-197338-1), AR-2 (280-197338-3), CG-1 (280-197338-4), (160-55719-A-1-A) and (160-55719-A-1-D DU). Analytical results are reported with the detection limit achieved.

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Detection Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-2

Client Sample ID: CG-2	Lab Sample ID: 280-197338-1
No Detections.	
Client Sample ID: AR-1	Lab Sample ID: 280-197338-2
No Detections.	
Client Sample ID: AR-2	Lab Sample ID: 280-197338-3
No Detections.	
Client Sample ID: CG-1	Lab Sample ID: 280-197338-4
No Detections.	

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-2

Method	Method Description	Protocol	Laboratory
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	EET SL
Evaporation	Preparation, Evaporation	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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Sample Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-197338-1	CG-2	Water	09/30/24 15:30	10/01/24 10:01
280-197338-2	AR-1	Water	09/30/24 15:45	10/01/24 10:01
280-197338-3	AR-2	Water	09/30/24 16:00	10/01/24 10:01
280-197338-4	CG-1	Water	09/30/24 16:30	10/01/24 10:01

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Client Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-2

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity

Client Sample ID: CG-2
Date Collected: 09/30/24 15:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	4.70	U G	4.89	4.92	3.00	7.90	pCi/L	10/08/24 08:38	10/21/24 16:40	1
Gross Beta	3.57		1.66	1.70	4.00	2.35	pCi/L	10/08/24 08:38	10/21/24 16:40	1

Client Sample ID: AR-1
Date Collected: 09/30/24 15:45
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.744	U	0.936	0.940	3.00	1.55	pCi/L	10/08/24 08:38	10/21/24 16:41	1
Gross Beta	0.493	U	0.562	0.565	4.00	0.910	pCi/L	10/08/24 08:38	10/21/24 16:41	1

Client Sample ID: AR-2
Date Collected: 09/30/24 16:00
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-1.11	U G	2.41	2.41	3.00	5.19	pCi/L	10/08/24 08:38	10/21/24 16:41	1
Gross Beta	4.38		1.57	1.63	4.00	2.14	pCi/L	10/08/24 08:38	10/21/24 16:41	1

Client Sample ID: CG-1
Date Collected: 09/30/24 16:30
Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.895	U G	3.71	3.71	3.00	6.91	pCi/L	10/08/24 08:38	10/21/24 16:41	1
Gross Beta	2.47	U	1.96	1.97	4.00	3.10	pCi/L	10/08/24 08:38	10/21/24 16:41	1

QC Sample Results

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-2

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-682631/1-A
Matrix: Water
Analysis Batch: 684457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 682631

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.2857	U	0.403	0.405	3.00	0.918	pCi/L	10/08/24 08:38	10/21/24 16:40	1
Gross Beta	0.02009	U	0.492	0.492	4.00	0.881	pCi/L	10/08/24 08:38	10/21/24 16:40	1

Lab Sample ID: LCS 160-682631/2-A
Matrix: Water
Analysis Batch: 684457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 682631

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	49.5	54.40		7.85	3.00	1.96	pCi/L	110	75 - 125

Lab Sample ID: LCSB 160-682631/3-A
Matrix: Water
Analysis Batch: 684457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 682631

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	70.8	68.40		7.37	4.00	0.880	pCi/L	97	75 - 125

QC Association Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-2

Rad

Prep Batch: 682631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197338-1	CG-2	Total/NA	Water	Evaporation	
280-197338-2	AR-1	Total/NA	Water	Evaporation	
280-197338-3	AR-2	Total/NA	Water	Evaporation	
280-197338-4	CG-1	Total/NA	Water	Evaporation	
MB 160-682631/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-682631/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-682631/3-A	Lab Control Sample	Total/NA	Water	Evaporation	

Lab Chronicle

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-2

Client Sample ID: CG-2

Date Collected: 09/30/24 15:30

Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Evaporation			84.01 mL	1.0 g	682631	10/08/24 08:38	MEH	EET SL
Total/NA	Analysis	900.0		1			684457	10/21/24 16:40	FLC	EET SL

Client Sample ID: AR-1

Date Collected: 09/30/24 15:45

Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Evaporation			200.00 mL	1.0 g	682631	10/08/24 08:38	MEH	EET SL
Total/NA	Analysis	900.0		1			684457	10/21/24 16:41	FLC	EET SL

Client Sample ID: AR-2

Date Collected: 09/30/24 16:00

Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Evaporation			91.01 mL	1.0 g	682631	10/08/24 08:38	MEH	EET SL
Total/NA	Analysis	900.0		1			684457	10/21/24 16:41	FLC	EET SL

Client Sample ID: CG-1

Date Collected: 09/30/24 16:30

Date Received: 10/01/24 10:01

Lab Sample ID: 280-197338-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Evaporation			69.01 mL	1.0 g	682631	10/08/24 08:38	MEH	EET SL
Total/NA	Analysis	900.0		1			684457	10/21/24 16:41	FLC	EET SL

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Union Milling Company
Project/Site: Leadville Mill, CO

Job ID: 280-197338-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	12-31-24
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	10-24-24
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

Client Information				Lab PM:				Carrier Tracking No(s):				COC No:			
Client Contact: Nick Michael				Ryan, Nicole C				280-143853-38824.1				Page: 1 of 1			
Company: Union Milling Company				E-Mail: Nicole.Ryan@ET.eurofinsus.com				State of Origin:				Job #:			
Address: PO BOX 620490 City: Littleton State, Zip: CO, 80162 Phone:				PWSID:				Analysis Requested				Preservation Codes: N - None D - HNO3 S - H2SO4 B - NaOH			
Due Date Requested:				TAT Requested (days):				Compliance Project: ☐ Yes ☒ No				Other:			
Purchase Order Requested				PO #:				Project #: 28026884				Special Instructions/Note:			
WO #:				Site:				Field Filtered Sample (Yes or No)				Total Number of Containers			
Email: mmichael@unionmilling.com				Sample Date				Sample Time				Sample Type (G=comp, G=grab)			
Project Name: Leadville Mill, CO				Preservation Code:				Matrix (Water, Solid, Overwater, BT-Tissue, A&A)				Perform MS/MSD (Yes or No)			
Site: <u>44</u>				Sample Date				Sample Time				Sample Type (G=comp, G=grab)			
Sample Identification				Sample Date				Sample Time				Sample Type (G=comp, G=grab)			
CG-2				9/30/24				15:30				G			
AR-1				9/30/24				15:45				G			
AR-2				9/30/24				16:00				G			
CG-1				9/30/24				16:30				G			
CG-2				9/30/24				16:30				G			
AR-1				9/30/24				16:30				G			
AR-2				9/30/24				16:30				G			
CG-1				9/30/24				16:30				G			
CG-2				9/30/24				16:30				G			
AR-1				9/30/24				16:30				G			
AR-2				9/30/24				16:30				G			
CG-1				9/30/24				16:30				G			
CG-2				9/30/24				16:30				G			
AR-1				9/30/24				16:30				G			
AR-2				9/30/24				16:30				G			
CG-1				9/30/24				16:30				G			
CG-2				9/30/24				16:30				G			
AR-1				9/30/24				16:30				G			
AR-2				9/30/24				16:30				G			
CG-1				9/30/24				16:30				G			
CG-2				9/30/24				16:30				G			
AR-1				9/30/24				16:30				G			
AR-2				9/30/24				16:30				G			
CG-1				9/30/24				16:30				G			
CG-2				9/30/24				16:30				G			
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CG-2				9/30/24				1							



Phone: 303-736-0100 Fax: 303-431-7171

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Login Sample Receipt Checklist

Client: Union Milling Company

Job Number: 280-197338-2

Login Number: 197338

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Union Milling Company

Job Number: 280-197338-2

Login Number: 197338

List Number: 3

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 10/07/24 01:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																																																																				
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:																																																																				
Empty Kit Relinquished by:		Time: _____																																																																				
Relinquished by: <i>Ben Brubaker</i>		Date/Time: <i>9/31/24 9:00</i>																																																																				
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Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:																																																																				

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Environment Testings

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Chain of Custody Record

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