

M-1977-410 4th Quarter 2022 Report February 28, 2023

FOUTH QUARTER 2022

GROUNDWATER, MINE EFFLUENT, SURFACE WATER AND TREATMENT PLANT EFFLUENT QUALITY REPORT COMPLIANT WITH THE TERMS OF TECHNICAL REVISION #10 (TR-10)

Prepared by Grand Island Resources

February 28, 2023



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1. Introduction

On April 28, 2022, the Division of Reclamation, Mining and Safety (Division) approved the Technical Revision application (TR-10) filed with the Division on February 28, 2022, addressing the following: *Modify the water management and treatment program and provide a surface water and groundwater monitoring program (in accordance with corrective action #1 of the Board Order issued for Violation No. MV-2021-017)*.

The terms of TR-10 approved by the Division were thereby incorporated into Permit No. M-1977-410. All other conditions and requirements of Permit No. M-1977-410 remain in full force and effect. Grand Island Resources (The Operator) will need to provide five consecutive quarters of groundwater monitoring data that include all sampling parameters and standards required by *WQCC's "Interim Narrative Standard"*. Water effluent from the mines is currently managed via the Treatment System into Coon Track Creek under CDPHE Water Quality Control Division (WQCD) National Pollutant Discharge Elimination System NPDES permit CO-0032751.

Technical Revision 10 (TR10) terms require The Operator to submit to DRMS Quarterly Water Monitoring Reports not later than 30 days from the end of the quarter. The Operator and GIR agreed to provide the reports on specific dates. Due to unforeseen data delivery issues with the December 2022 sampling event, GIR requested from the Division an extension for the delivery of this 4th Quarter 2022 Report. The Division granted a 30-day extension from the originally scheduled February 1, 2023.

The quarterly reports must include:

- 1.1. Analytical results for the 7 sampling locations described in Technical Revision #10 (TR10) and shown on Figure 6,
- 1.2. Monthly Potentiometric Surface (water table) maps constructed from water table measurements taken during the sampling events Figures 6, 7 and 8 for the months of October, November and December, respectively,
- 1.3. Water Quality analytical results summary tables highlighting exceedances of select parameters from Regulation 41, Tables 1-4 water quality standards,
- 1.4. Laboratory data packages,
- 1.5. Chain of Custody sheets,
- 1.6. Field sheets for the sampling event(s).



2. Ground Water Monitoring

Three groundwater monitoring locations corresponding to existing ground water wells, namely, Cabin Well (Compliance), Cross Well and Caribou Well were selected by DRMS for the program. All 3 wells have permanent pumping system installations and water level dataloggers. Water samples for water quality determination are collected via the existing permanent pumping systems.

2.1. Water Quality Analytical Results

Test results from water samples collected from the three monitoring wells are presented on the tables 2.1, 2.2 and 2.3 for the months of October, November, and December, respectively. In accordance with TR-10 requirements, the test results are compared with the most stringent concentrations (Standard) based on DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT Water Quality Control Commission REGULATION NO. 41 -THE BASIC STANDARDS FOR GROUNDWATER 5 CCR 1002-41. The complete Water Quality Analytical Results from the Laboratories are provided in the appendices.



Table 2.1.1 Groundwater Quality Test Results – October 2022

Sample Collected on:	October 27, 2022					
Parameter	Standard 🚽	Cross Well	Caribou Well	Cabin Well (Compliance) 🛛 👻	Unit	Comments
2-Chlorophenol	0.0002	ND	ND	ND	mg/l	Total - Std in mg/l; results in ug/l
Aluminum (Al)	5	ND	0.003	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	mg/l	Dissolved
Asbestos	7,000,000	ND	ND	ND	fibers/liter	Total
Barium (Ba)	2	0.0275	0.0057	0.0382	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<3	<2.8	<3	mrem/year	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0002	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	3.15	0.41	2.86	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	0.0002	0.0003	0.0002	mg/l	Dissolved
Coliform (Max Total)	23	ND	ND	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml
Coliform 30-day avg. Total	2.2	ND	ND	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml
Color	15	ND	ND	ND	color units	
Copper (Cu)	0.2	0.0070	0.4407	ND	mg/l	Dissolved
Corrosivity	Non Corrosive	-2.33	-3.52	-2.04	Langelier Units	
Cyanide [Free] (Cn)	0.2	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	mg/l	Dissolved
Foaming Agents	0.5	ND	ND	ND	mg/l	Total
Gross Alpha Particle Activity	15	<0.1	0.3	0.2	pCi/l	
Iron (Fe)	0.3	ND	ND	0.005	mg/l	Dissolved
Lead (Pb)	0.05	0.0006	0.0004	0.0002	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	mg/l	Dissolved
Manganese <mark>(</mark> Mn)	0.05	0.0010	ND	0.0092	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0006	ND	0.0042	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.25	0.12	0.30	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.25	0.12	0.30	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	mg/l as N	Dissolved
Odor	3	ND	ND	ND	threshold odor numbers	
pH (field)	6.5 - 8.5	7.3	7	7.3	pH units	
Phenol	0.3	ND	ND	ND	mg/l	Total - Std in mg/l; Lab reports in ug/l
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	mg/l	Dissolved
Silver Total		ND	ND	ND	mg/l	Total
Sulfate (SO4)	250	9.29	2.66	9.27	mg/l	Dissolved
TDS	400	88	41	79	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	ND	ND	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	1.25	0.005	0.080	mg/l	Dissolved



Table 2.1.2 Groundwater Quality Test Results – November 2022

Sample Collected on:	November 29, 2022					
Parameter 👻	Standard ~	Cross Well	Caribou Well	Cabin Well (Compliance)	Unit	Comments
2-Chlorophenol	0.0002	ND	ND	ND	mg/l	Total - Std in mg/l; results
Aluminum (Al)	5	ND	0.002	0.001	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	mg/l	Dissolved
Asbestos	7,000,000	ND	ND	ND	fibers/liter	Total
Barium (Ba)	2	0.0281	0.0061	0.0407	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<2.9	<3.0	<2.7	mrem/year	Std is in mrem/year; Lab r
Boron (B)	0.75	ND	0.03	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0002	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	2.86	0.43	2.92	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	mg/l	Dissolved
Coliform (Max Total)	23	ND	ND	ND	org/100 ml	Total - Std in org/100 ml;
Coliform 30-day avg. Total	2.2	ND	ND	ND	org/100 ml	Total - Std in org/100 ml;
Color	15	ND	ND	ND	color units	
Copper (Cu)	0.2	0.0038	0.1797	ND	mg/l	Dissolved
Corrosivity	Non Corrosive	-2.1	-3.96	-2.02	Langelier Units	
Cyanide [Free] (Cn)	0.2	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	mg/l	Dissolved
Foaming Agents	0.5	ND	ND	ND	mg/l	Total
Gross Alpha Particle Activity	15	0.8	0.7	0.8	pCi/l	
Iron (Fe)	0.3	ND	ND	0.007	mg/l	Dissolved
Lead (Pb)	0.05	0.0005	0.0002	0.0001	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	ND	ND	0.0091	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0006	ND	0.0042	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.19	0.08	0.27	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.19	0.08	0.27	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	mg/l as N	Dissolved
Odor	3	ND	ND	ND	threshold odor numbers	
pH (field)	6.5 - 8.5	7.5	6.7	7.2	pH units	
Phenol	0.3	ND	ND	ND	mg/l	Total - Std in mg/l; Lab re
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	mg/l	Dissolved
Silver Total		ND	ND	ND	mg/l	Total
Sulfate (SO4)	250	8.89	2.59	9.6	mg/l	Dissolved
TDS	400	80	87	26	mg/l	Total
Thallium (TI)	0.002	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	ND	ND	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.859	0.002	0.084	mg/l	Dissolved



Table 2.1.2 Groundwater Quality Test Posults - December 202		
-1 aute 2.1.3 VII UUUUW atel VUauty Test Nesults = Deteniuel 202	r Quality Test Results – December 2022	Table 2.1.3 Groundwater

Sample Collected on:	December 20, 2022					
Parameter	Standard	Cross Well	Caribou Well	Cabin Well (Compliance)	Unit	Comments
2-Chlorophenol	0.0002	ND	ND	ND	mg/l	Total - Std in mg/l; results
Aluminum (Al)	5	ND	0.011	0.001	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	mg/l	Dissolved
Asbestos	7,000,000	ND	ND	ND	fibers/liter	Total
Barium (Ba)	2	0.0313	0.0059	0.0421	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<2.9	<2.8	<2.8	mrem/year	Std is in mrem/year; Lab r
Boron (B)	0.75	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0002	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	2.81	0.41	3.18	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	mg/l	Dissolved
Coliform (Max Total)	23	ND	ND	ND	org/100 ml	Total - Std in org/100 ml;
Coliform 30-day avg. Total	2.2	ND	ND	ND	org/100 ml	Total - Std in org/100 ml;
Color	15	ND	ND	ND	color units	
Copper (Cu)	0.2	0.045	0.0841	ND	mg/l	Dissolved
Corrosivity	Non Corrosive	-1.9	-3.38	-1.93	Langelier Units	
Cyanide [Free] (Cn)	0.2	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	mg/l	Dissolved
Foaming Agents	0.5	ND	ND	ND	mg/l	Total
Gross Alpha Particle Activity	15	<0.1	0.5	0.9	pCi/l	
Iron (Fe)	0.3	ND	0.007	0.005	mg/l	Dissolved
Lead (Pb)	0.05	0.0005	0.0002	0.0001	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	ND	ND	0.0086	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0005	ND	0.0045	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	ND	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	0.23	0.11	0.31	mg/I as N	Dissolved
Nitrite (NO2)	1	ND	ND	ND	mg/I as N	Dissolved
Odor	3	ND	ND	ND	threshold odor numbers	
pH (field)	6.5 - 8.5	6.7	6.7	6.6	pH units	
Phenol	0.3	ND	ND	ND	mg/l	Total - Std in mg/l; Lab re
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	mg/I	Dissolved
Silver Total		ND	ND	ND	mg/I	lotal
Suifate (SO4)	250	8.88	2.63	9.85	mg/I	Dissolved
	400	109	96	34	mg/I	IOTAL
Inallium (II)	0.002	ND	ND	ND	mg/I	Dissolved
Uranium (U)	0.0168 -0.03	ND	ND	ND	mg/I	Dissolved
vanadium (V)	0.1	ND	ND	ND 0.007	mg/l	Dissolved
	2	0.59	0.004	0.087	mg/i	Dissolved



2.2. Groundwater Levels and Potentiometric Water Surface

Potentiometric Figures were developed based on recorded (automated dataloggers) groundwater levels at each of the three monitoring wells at the time the water quality samples were collected. The Cross Winze water levels are also included.

Tables 2.2.1, 2.2.2, and 2.2.3 for the months of October, November and December 2022, respectively, provide sampling date and groundwater elevations taken at the time of water sample collection. The groundwater elevations were used to develop the potentiometric water surfaces depicted on Figures 6, 7, and 8 for the month of October, November, and December, respectively.

Groundwater Elevation - October					
	COLLAR ELEV. 10/27/202				
VVELL	Ft. AMSL				
Caribou	9,744.25	9,714.87			
Cabin (Compliance)	9,677.35	9,625.78			
Cross	<mark>9,692.8</mark> 5	9,664.74			
Winze	9,697.48	9,617.81			

Table 2.2.1 Wells Groundwater Elevation – October 2022

 Table 2.2.2 Wells Groundwater Elevation – November 2022

Groundwater Elevation - November					
	COLLAR ELEV.	11/29/2022			
VVELL	Ft. AMSL				
Caribou	9,744.25	9,713.73			
Cabin (Compliance)	9,677.35	9 <mark>,</mark> 637.96			
Cross	9,692.85	9,660.92			
Winze	9,697.48	9,608.58			

 Table 2.2.3 Wells Groundwater Elevation – December 2022

Groundwater Elevation - December					
	COLLAR ELEV.	12/20/2022			
VVELL	Ft. AMSL				
Caribou	9,744.25	9,706.16			
Cabin (Compliance)	9,677.35	9,637.44			
Cross	9,692.85	9,659.22			
Winze	9,697.48	9,604.66			









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Figure 7 Potentiometric Water Surface – November 2022



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Figure 8 Potentiometric Water Surface – December 2022



3. Mine Effluent Monitoring

Two mine effluent monitoring locations corresponding to points of interest within the GIR site were selected by DRMS as part of the program. One station is located in the Cross Mine and one station is located in the Idaho Tunnel/Caribou Mine, namely Cross Portal and Caribou Portal, respectively. Water Quality Analytical Results are summarized on Tables 3.1., 3.2., and 3.3 for the months of October, November, and December 2022, respectively. The complete Water Quality Analytical Results from the Laboratories are provided in Appendix A.

Mine effluent reports to the Water Treatment Plant and it is discharges via the NPDES permit CO-0032751 Outfall 001.



Table 3.1 Mine Effluent Test Results – October 2022

Sample Collected on:	October 27, 2022				
Parameter	Standard 👻	Cross Portal	Caribou Portal	Unit	
2-Chlorophenol	0.0002	ND	ND	mg/l	
Aluminum (Al)	5	0.004	0.004	mg/l	
Antimony (Sb)	0.006	ND	ND	mg/l	
Arsenic (As)	0.01	ND	0.0007	mg/l	
Asbestos	7,000,000	ND	ND	fibers/liter	
Barium (Ba)	2	0.0702	0.0529	mg/l	
Beryllium (Be)	0.004	ND	ND	mg/l	
Beta and Photon Emitters	4	<3	<2.9	mrem/year	
Boron (B)	0.75	0.02	ND	mg/l	
Cadmium (Cd)	0.005	0.0011	ND	mg/l	
Chloride (Cl)	250	0.41	0.49	mg/l	
Chromium (Cr)	0.1	ND	ND	mg/l	
Cobalt (Co)	0.05	ND	ND	mg/l	
Coliform (Max Total)	23	ND	ND	org/100 ml	
Coliform 30-day avg. Total	2.2	ND	ND	org/100 ml	
Color	15	ND	ND	color units	
Copper (Cu)	0.2	0.0026	ND	mg/l	
Corrosivity	Non Corrosive	-1.16	-0.61	Langelier Units	
Cyanide [Free] (Cn)	0.2	ND	ND	mg/l	
Fluoride (F)	2	ND	ND	mg/l	
Foaming Agents	0.5	ND	ND	mg/l	
Gross Alpha Particle Activity	y 15 1.6 4		4	pCi/l	
Iron (Fe)	0.3	0.028	0.028 0.069 mg/l		
Lead (Pb)	0.05	0.0025	5 0.0018 mg/l		
Lithium (Li)	2.5	ND	ND	mg/l	
Manganese (Mn)	0.05	0.0149	0.0020	mg/l	
Mercury (inorganic) (Hg)	0.002	ND	ND	mg/l	
Molybdenum (Mo)	0.21	0.0073	0.0067	mg/l	
Nickel (Ni)	0.1	ND	ND	mg/l	
Nitrate (NO3)	10	0.14	0.20	mg/l as N	
Nitrate-NitriteTotal	10	0.14	0.20	mg/l as N	
Nitrite (NO2)	1	ND	ND	mg/l as N	
Odor	3	ND	ND	threshold odor numbers	
pH (field)	6.5 - 8.5	7.9	8.3	pH units	
Phenol	0.3	ND	ND	mg/l	
Selenium (Se)	0.02	ND	ND	mg/l	
Silver (Ag)	0.05	ND	ND	mg/l	
Silver Total		ND	ND	mg/l	
Sulfate (SO4)	250	10.81	10.58	mg/l	
TDS	400	105	135	mg/l	
Thallium (Tl)	0.002	ND	ND	mg/l	
Uranium (U)	0.0168 -0.03	0.0009	0.0059	mg/l	
Vanadium (V)	0.1	ND	ND	mg/l	
Zinc (Zn)	2	0.217	0.010	mg/l	
The highlighted cells Indicate	Test Results Higher th	han the Reference Va	alues from Reg. 5 CCR 1	002-41	



Table 3.2 Mine Effluent Test Results – November 2022

Sample Collected on:	November 29, 2022			
Parameter	Standard	Cross Portal	Caribou Portal	Unit
	•	*	~	•
2-Chlorophenol	0.0002	ND	ND	mg/l
Aluminum (Al)	5	0.002	0.002	mg/l
Antimony (Sb)	0.006	ND	ND	mg/l
Arsenic (As)	0.01	ND	0.0007	mg/l
Asbestos	7,000,000	ND	ND	fibers/liter
Barium (Ba)	2	0.0711	0.054	mg/l
Beryllium (Be)	0.004	ND	ND	mg/l
Beta and Photon Emitters	4	<2.9	<2.7	mrem/year
Boron (B)	0.75	ND	ND	mg/l
Cadmium (Cd)	0.005	0.0009	ND	mg/l
Chloride (Cl)	250	0.38	0.54	mg/l
Chromium (Cr)	0.1	ND	ND	mg/l
Cobalt (Co)	0.05	ND	ND	mg/l
Coliform (Max Total)	23	ND	ND	org/100 ml
Coliform 30-day avg. Total	2.2	ND	ND	org/100 ml
Color	15	ND	ND	color units
Copper (Cu)	0.2	0.0019	ND	mg/l
Corrosivity	Non Corrosive	-1.11	-0.31	Langelier Units
Cyanide [Free] (Cn)	0.2	ND	ND	mg/l
Fluoride (F)	2	ND	ND	mg/l
Foaming Agents	0.5	ND	ND	mg/l
Gross Alpha Particle Activity	15	1.6	4	pCi/l
Iron (Fe)	0.3	0.007	0.005	mg/l
Lead (Pb)	0.05	0.0009	0.0002	mg/l
Lithium (Li)	2.5	ND	ND	mg/l
Manganese (Mn)	0.05	0.0129	0.0031	mg/l
Mercury (inorganic) (Hg)	0.002	ND	ND	mg/l
Molybdenum (Mo)	0.21	0.0073	0.0057	mg/l
Nickel (Ni)	0.1	ND	ND	mg/l
Nitrate (NO3)	10	0.07	0.12	mg/l as N
Nitrate-NitriteTotal	10	0.07	0.12	mg/l as N
Nitrite (NO2)	1	ND	ND	mg/l as N
Odor	3	ND	ND	threshold odor numbers
pH (field)	<mark>6.5</mark> - 8.5	8.2	8.6	pH units
Phenol	0.3	ND	ND	mg/l
Selenium (Se)	0.02	ND	ND	mg/l
Silver (Ag)	0.05	ND	ND	mg/l
Silver Total		ND	ND	mg/l
Sulfate (SO4)	250	10.97	10.51	mg/l
TDS	400	143	136	mg/l
Thallium (Tl)	0.002	ND	ND	mg/l
Uranium (U)	0.0168 -0.03	0.0009	0.0059	mg/l
Vanadium (V)	0.1	ND	ND	mg/l
Zinc (Zn)	2	0.206	0.008	mg/l
The highlighted cells Indicate	Test Results Higher tha	an the Reference Valu	ues from Reg. 5 CCR 100	2-41



Table 3.3 Mine Effluent Test Results – December 2022

Sample Collected on:	December 20, 2022			
Parameter	Standard	Cross Portal	Caribou Portal	Unit
· · · · · · · · · · · · · · · · · · ·	•	•	•	•
2-Chlorophenol	0.0002	ND	ND	mg/l
Aluminum (Al)	5	0.001	ND	mg/l
Antimony (Sb)	0.006	ND	ND	mg/l
Arsenic (As)	0.01	ND	ND	mg/l
Asbestos	7,000,000	ND	ND	fibers/liter
Barium (Ba)	2	0.073	0.06	mg/l
Beryllium (Be)	0.004	ND	ND	mg/l
Beta and Photon Emitters	4	<2.8	2.8	mrem/year
Boron (B)	0.75	ND	ND	mg/l
Cadmium (Cd)	0.005	0.001	ND	mg/I
Chloride (Cl)	250	0.33	0.49	mg/l
Chromium (Cr)	0.1	ND	ND	mg/l
Cobalt (Co)	0.05	ND	ND	mg/l
Coliform (Max Total)	23	ND	ND	org/100 ml
Coliform 30-day avg. Total	avg. Total 2.2 ND ND		org/100 ml	
Color	15 ND ND		ND	color units
Copper (Cu)	a) 0.2 0.0017 ND		ND	mg/I
	Non Corrosive	-0.12	-0.61	Langelier Units
Cyanide [Free] (Cn)	0.2	ND	ND	mg/l
	2	ND		mg/I
Foaming Agents	0.5	ND	ND	mg/l
Gross Alpha Particle Activity	15	1	3.7	
Iron (Fe)	0.3	0.005	0.006	mg/l
Lithium (Li)	0.05	0.0006	0.0004	mg/l
	Ithium (Li) 2.5 ND Ass ass (Max) 2.05 0.01		0.0014	mg/l
Margunese (IVIII)	Inganese (Mn) 0.05 0.0115		0.0014	mg/l
Melvhdonum (Ma)	0.002	0.0082	0.0067	mg/l
Nickol (Ni)	num (No) 0.21 0.082 0.0067		0.0007	mg/l
Nitrate (NO3)	10	ND	ND	mg/Las N
Nitrate-NitriteTotal	10	0.08	0.14	mg/Las N
Nitrite (NO2)	10	ND	ND	mg/Las N
Odor	3	ND	ND	threshold odor numbers
pH (field)	65-85	8	86	nH units
Phenol	0.3	ND	ND	mg/l
Selenium (Se)	0.02	ND	ND	mg/l
Silver (Ag)	0.05	ND	ND	mg/l
Silver Total	0.03	ND	ND	mg/l
Sulfate (SO4)	250	10.99	10,38	mg/l
TDS	400	80	141	mg/l
Thallium (Tl)	0.002	ND	ND	mg/l
Uranium (U)	0.0168 -0.03	0.001	0.0072	mg/l
Vanadium (V)	0.1	ND	ND	mg/l
Zinc (Zn)	2	0.202	0.034	mg/l
		0.202		



4. Surface Water Monitoring

Two surface water monitoring stations were considered by DRMS to be sufficient and adequate to characterize surface water within the basin of interest. Station 2022-01 is located upstream of The Operator's facility and Station 2022-02 is located downstream of The Operator's facility.

4.1. Water Quality Analytical Results

Tables 4.1.1, 4.1.2, and 4.1.3 for the months of October, November, and December, respectively, summarize Surface Water Analytical Results for the 4th quarter 2022.



GRAND ISLAND RESOURCES

Sample Collected on:	October 26, 2	2022	
Parameter	Sta. 2022-01	Sta. 2022-02	Unit
Arsenic Potentially Dissolved		ND	ug/L
Arsenic Total Recoverable		ND	ug/L
Cadmium Potentially Dissolved		ND	ug/L
Cadmium Total Recoverable		ND	ug/L
Chromium Potentially Dissolved		ND	ug/L
Chromium Total Recoverable		ND	ug/L
Chromium, hexavalent Dissolved		ND	mg/L
Chromium, hexavalent Total		ND	mg/L
Chromium, trivalent Potentially Dissolved		ND	mg/L
Chromium, trivalent Total Recoverable		ND	mg/L
Copper Potentially Dissolved		1	ug/L
Copper Total Recoverable		1.4	ug/L
Field pH		8.3	SU
Field Water Temperature		5	Degrees C
Iron Total Recoverable	L BLE	49	ug/L
Lead Potentially Dissolved	W	0.89	ug/L
Lead Total Recoverable	IS C	0.86	ug/L
Manganese Potentially Dissolved	Ž	3.5	ug/L
Mercury	G	ND	ng/L
Mercury Total	∠ B	2.8	ug/L
Nickel Potentially Dissolved	DR	ND	ug/L
pH adj. to 25 deg C		8.1	SU
Selenium Potentially Dissolved		ND	ug/L
Silver Potentially Dissolved		ND	ug/L
Specific Conductance		23	umhos/cm
Specific Conductance Total		23	umhos/cm
Sulfide Total		ND	mg/L
Sulfide Total		ND	mg/L
Temperature		22.2	Degrees C
Total Suspended Solids		7.2	mg/L
Un-ionized Hydrogen Sulfide Total		ND	mg/L
Zinc Total Recoverable		5.2	ug/L
Zinc Potentially Dissolved		14	ug/L
Field Ambient Temperature		1.1	Degrees C
Field Specific Conductivity		0.3	uS/cm

Table 4.1.1 Surface Water Analytical Results – October 2022



Grand Island RESOURCES



Sample Collected on:	November 28	3, 2022	
Parameter	Sta. 2022-01	Sta. 2022-02	Unit
Arsenic Potentially Dissolved		ND	ug/L
Arsenic Total Recoverable		ND	ug/L
Cadmium Potentially Dissolved		ND	ug/L
Cadmium Total Recoverable		0.13	ug/L
Chromium Potentially Dissolved		ND	ug/L
Chromium Total Recoverable		ND	ug/L
Chromium, hexavalent Dissolved		ND	mg/L
Chromium, hexavalent Total		ND	mg/L
Chromium, trivalent Potentially Dissolved		ND	mg/L
Chromium, trivalent Total Recoverable		ND	mg/L
Copper Potentially Dissolved		ND	ug/L
Copper Total Recoverable		0.78	ug/L
Field pH		8.5	SU
Field Water Temperature		2.6	Degrees C
Iron Total Recoverable	JE JE	37	ug/L
Lead Potentially Dissolved	MI	0.63	ug/L
Lead Total Recoverable	/S C	0.95	ug/L
Manganese Potentially Dissolved	й <u>1.6</u> Д ND	1.6	ug/L
Mercury		ND	ng/L
Mercury Total	Y BI	1.8	ug/L
Nickel Potentially Dissolved	DR	ND	ug/L
pH adj. to 25 deg C		8.2	SU
Selenium Potentially Dissolved		ND	ug/L
Silver Potentially Dissolved		ND	ug/L
Specific Conductance		230	umhos/cm
Specific Conductance Total		230	umhos/cm
Sulfide Total		0.036	mg/L
Sulfide Total		ND	mg/L
Temperature		23.4	Degrees C
Total Suspended Solids		ND	mg/L
Un-ionized Hydrogen Sulfide Total		ND	mg/L
Zinc Total Recoverable		5.5	ug/L
Zinc Potentially Dissolved		8.9	ug/L
Field Ambient Temperature		-2	Degrees C
Field Specific Conductivity		0.3	uS/cm

Table 4.1.2 Surface Water Analytical Results – November 2022

M-1977-410 4th Quarter 2022 Report February 28, 2023



Sample Collected on:	December 19), 2022	
Parameter	Sta. 2022-01	Sta. 2022-02	Unit
Arsenic Potentially Dissolved			ug/L
Arsenic Total Recoverable			ug/L
Cadmium Potentially Dissolved			ug/L
Cadmium Total Recoverable			ug/L
Chromium Potentially Dissolved			ug/L
Chromium Total Recoverable			ug/L
Chromium, hexavalent Dissolved			mg/L
Chromium, hexavalent Total			mg/L
Chromium, trivalent Potentially Dissolved			mg/L
Chromium, trivalent Total Recoverable			mg/L
Copper Potentially Dissolved			ug/L
Copper Total Recoverable			ug/L
Field pH			SU
Field Water Temperature			Degrees C
Iron Total Recoverable	JE J	ЪГЕ	ug/L
Lead Potentially Dissolved	IW	IW	ug/L
Lead Total Recoverable	/S C	2 S /	ug/L
Manganese Potentially Dissolved	ž ž	ug/L	
Mercury	ġ	ġ	ng/L
Mercury Total	ΥB	ΥB	ug/L
Nickel Potentially Dissolved	DR	DR	ug/L
pH adj. to 25 deg C			SU
Selenium Potentially Dissolved			ug/L
Silver Potentially Dissolved			ug/L
Specific Conductance			umhos/cm
Specific Conductance Total			umhos/cm
Sulfide Total			mg/L
Sulfide Total			mg/L
Temperature			Degrees C
Total Suspended Solids			mg/L
Un-ionized Hydrogen Sulfide Total			mg/L
Zinc Total Recoverable			ug/L
Zinc Potentially Dissolved			ug/L
Field Ambient Temperature			Degrees C
Field Specific Conductivity			uS/cm

Table 4.1.3 Surface Water Analytical Results – December 2022



4.2. Surface Water Flows

Flow measurements were taken at the Surface Water Sampling Stations 2022-01 and 2022-02 utilizing the stopwatch method. Estimated flows are shown on Tables 4.2.1 Month of July; 4.2.2 Month of August and 4.2.3 Month of September.

Surface Water Flow Estimate - October					
Station	Velocity fps	Depth ft	Width ft	Flow cfs	
2022-01	Dry Bed				
2022-02	4.22	0.37	0.60	420	

Table 4.2.1 Surface Water Flow Estimates – October 2022

Table 4.2.2 Surface Water Flow Estimates – November 2022

Surface Water Flow Estimate - November					
Station Velocity Depth Width Flow fps ft ft cfs					
2022-01	Dry Bed				
2022-02	0.53	0.35	2.08	176	

Table 4.2.3 Surface Water Flow Estimates – December 2022

Surface Water Flow Estimate - December					
StationVelocityDepthWidthFlofpsftftgp					
2022-01	Dry Bed				
2022-02	Dry Bed				



5. Quality Management (Quality Control & Quality Assurance)

Grand Island Resources (GIR) is committed to meeting expectations pertaining to the TR10 water quality data collection including proper water sample collection and testing via a Quality Management Program which is founded on Quality Assurance aimed to prevent errors. The program incorporates, among others, Standard Operating Procedures, Sample Collection Protocols, Chains of Custody and the selection of State Credited Testing Laboratories which have internal Quality Control and Quality Assurance Methods and Standards. Quality Control aimed to identify errors is implemented via testing of one or more of the following field or laboratory: Duplicates, Field Blanks and Matrix Spikes.

5.1. Groundwater

Quality Control Samples were collected from the Cabin Well (Compliance) and consisted of a Field Blank. Duplicate and Matrix Spike tests were performed for select parameters which are incorporated in the QC section of the Laboratory Report. No Rinsate samples were collected because water samples were collected from permanently installed equipment at each well.

Tables 5.1.1, 5.1.2 and 5.1.3 present Groundwater Quality Control results for the months of October, November, and December 2022, respectively.

5.2. Mine Effluent

Quality Control Samples were collected from the Caribou Portal and consisted of a Field Blank. Duplicate tests were performed for select parameters which are incorporated in the QC section of the Laboratory Report. No Rinsate samples were collected because disposable samplers was used.

Tables 5.2.1, and 5.2.2 present Effluent Quality Control results for the months of November and December 2022, respectively.

5.3. Surface Water

Quality Control Samples were collected from surface water Station 2022-02 and consisted of Field Duplicate, Field Blank and Matrix Spike. No Rinsate samples were collected because disposable samplers were used.

Tables 5.3.1, and 5.3.2 present Surface Quality Control results for the months of October and November 2022, respectively.

No samples were collected during the month of December 2022 given that the stream on both sampling stations were dry.



Table 5.1.1 Groundwater Quality Control Results – October 2022

Sample Collected on:	October 27, 2022			
Parameter	Standard 👻	Field Blank -Cabin Well (Compliance) 👻	Unit	Comments
2-Chlorophenol	0.0002	ND	mg/l	Total - Std in mg/l; results in ug/l
Aluminum (Al)	5	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	mg/l	Dissolved
Asbestos	7,000,000	ND	fibers/liter	Total
Barium (Ba)	2	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<2.9	mrem/year	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	ND	mg/l	Dissolved
Chloride (Cl)	250	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	mg/l	Dissolved
Coliform (Max Total)	23	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml
Coliform 30-day avg. Total	2.2	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml
Color	15	ND	color units	
Copper (Cu)	0.2	ND	mg/l	Dissolved
Corrosivity	Non Corrosive	-7.09	Langelier Units	
Cyanide [Free] (Cn)	0.2	ND	mg/l	Total
Fluoride (F)	2	ND	mg/l	Dissolved
Foaming Agents	0.5	ND	mg/l	Total
Gross Alpha Particle Activity	15	0.4	pCi/l	
Iron (Fe)	0.3	ND	mg/l	Dissolved
Lead (Pb)	0.05	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	mg/l	Dissolved
Manganese (Mn)	0.05	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	ND	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	mg/l as N	Dissolved
Odor	3	ND	threshold odor numbers	
pH (field)	6.5 - 8.5		pH units	
Phenol	0.3	ND	mg/l	Total - Std in mg/l; Lab reports in ug/l
Selenium (Se)	0.02	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	mg/l	Dissolved
Silver Total		ND	mg/l	Total
Sulfate (SO4)	250	ND	mg/l	Dissolved
TDS	400	ND	mg/l	Total
Thallium (TI)	0.002	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	mg/l	Dissolved
Zinc (Zn)	2	ND	mg/l	Dissolved



Table 5.1.2 Groundwater Quality Control Results – November 2022

Sample Collected on:	November 29, 2022			
Parameter	Standard 👻	Field Blank Cabin Well (Compliance)	Unit	Comments
2-Chlorophenol	0.0002	ND	mg/l	Total - Std in mg/l; results in ug/l
Aluminum (Al)	5	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	mg/l	Dissolved
Asbestos	7,000,000	ND	fibers/liter	Total
Barium (Ba)	2	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<2.8	mrem/year	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	ND	mg/l	Dissolved
Chloride (Cl)	250	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	mg/l	Dissolved
Coliform (Max Total)	23	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml
Coliform 30-day avg. Total	2.2	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml
Color	15	ND	color units	
Copper (Cu)	0.2	ND	mg/l	Dissolved
Corrosivity	Non Corrosive	-7.64	Langelier Units	
Cyanide [Free] (Cn)	0.2	ND	mg/l	Total
Fluoride (F)	2	ND	mg/l	Dissolved
Foaming Agents	0.5	ND	mg/l	Total
Gross Alpha Particle Activity	15	0.3	pCi/l	
lron (Fe)	0.3	ND	mg/l	Dissolved
Lead (Pb)	0.05	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	mg/l	Dissolved
Manganese (Mn)	0.05	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	ND	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	mg/l as N	Dissolved
Odor	3	ND	threshold odor numbers	
pH (field)	6.5 - 8.5		pH units	
Phenol	0.3	ND	mg/l	Total - Std in mg/l; Lab reports in ug/l
Selenium (Se)	0.02	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	mg/l	Dissolved
Silver Total		ND	mg/l	Total
Sulfate (SO4)	250	ND	mg/l	Dissolved
TDS	400	ND	mg/l	Total
Thallium (Tl)	0.002	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	mg/l	Dissolved
Zinc (Zn)	2	ND	mg/l	Dissolved



Table 5.1.3 Groundwater Quality Control Results – December 2022

Sample Collected on:	December 20, 2022				
Parameter	Standard 👻	Field Blank Cabin Well (Compliance)	Unit	Comments	•
2-Chlorophenol	0.0002	ND	mg/l	Total - Std in mg/l; results in ug/l	
Aluminum (Al)	5	ND	mg/l	Dissolved	
Antimony (Sb)	0.006	ND	mg/l	Dissolved	
Arsenic (As)	0.01	ND	mg/l	Dissolved	
Asbestos	7,000,000	ND	fibers/liter	Total	
Barium (Ba)	2	ND	mg/l	Dissolved	
Beryllium (Be)	0.004	ND	mg/l	Dissolved	
Beta and Photon Emitters	4	<2.9	mrem/year	Std is in mrem/year; Lab reports pCi/l	
Boron (B)	0.75	ND	mg/l	Dissolved	
Cadmium (Cd)	0.005	ND	mg/l	Dissolved	
Chloride (Cl)	250	ND	mg/l	Dissolved	
Chromium (Cr)	0.1	ND	mg/l	Dissolved	
Cobalt (Co)	0.05	ND	mg/l	Dissolved	
Coliform (Max Total)	23	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml	1
Coliform 30-day avg. Total	2.2	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml	<u> </u>
Color	15	ND	color units		_
Copper (Cu)	0.2	ND	mg/l	Dissolved	
Corrosivity	Non Corrosive	-7.22	Langelier Units		
Cyanide [Free] (Cn)	0.2	ND	mg/l	Total	
Fluoride (F)	2	ND	mg/l	Dissolved	
Foaming Agents	0.5	ND	mg/l	Total	
Gross Alpha Particle Activity	15	0.2	pCi/l		
Iron (Fe)	0.3	ND	mg/l	Dissolved	
Lead (Pb)	0.05	ND	mg/l	Dissolved	_
Lithium (Li)	2.5	ND	mg/l	Dissolved	
Manganese (Mn)	0.05	ND	mg/l	Dissolved	_
Mercury (inorganic) (Hg)	0.002	ND	mg/l	Dissolved	
Molybdenum (Mo)	0.21	ND	mg/l	Dissolved	_
Nickel (Ni)	0.1	ND	mg/l	Dissolved	
Nitrate (NO3)	10	ND	mg/l as N	Dissolved	_
Nitrate-NitriteTotal	10	ND	mg/I as N	Dissolved	
Nitrite (NO2)	1	ND	mg/l as N	Dissolved	_
Odor	3	ND	threshold odor numbers		
pH (field)	6.5 - 8.5		pH units		_
Phenol	0.3	ND	mg/l	Total - Std in mg/l; Lab reports in ug/l	_
Selenium (Se)	0.02	ND	mg/l	Dissolved	_
Silver (Ag)	0.05	ND	mg/l	Dissolved	
Silver Total		ND	mg/l	lotal	_
Sulfate (SO4)	250	ND	mg/l	Dissolved	
TDS	400	ND	mg/I	lotal	_
Thallium (TI)	0.002	ND	mg/I	Dissolved	
Uranium (U)	0.0168 -0.03	ND	mg/I	Dissolved	_
Vanadium (V)	0.1	ND	mg/I	Dissolved	
Zinc (Zn)	2	ND	mg/I	Dissolved	



Table 5.2.1 Mine Effluent Quality Control Results – November 2022

Sample Collected on:	November 29, 2022				
Parameter	Standard	Field Blank	Unit	Commonte	
Falametei	Januaru	Caribou Portal 🔻	viiit ₹	⊂oninients ▼	
2-Chlorophenol	0.0002	ND	mg/l	Total - Std in mg/l; results in ug/l	
Aluminum (Al)	5	ND	mg/l	Dissolved	
Antimony (Sb)	0.006	ND	mg/l	Dissolved	
Arsenic (As)	0.01	ND	mg/l	Dissolved	
Asbestos	7,000,000	ND	fibers/liter	Total	
Barium (Ba)	2	ND	mg/l	Dissolved	
Beryllium (Be)	0.004	ND	mg/l	Dissolved	
Beta and Photon Emitters	4	<3.0	mrem/year	Std is in mrem/year; Lab reports pCi/l	
Boron (B)	0.75	ND	mg/l	Dissolved	
Cadmium (Cd)	0.005	ND	mg/l	Dissolved	
Chloride (Cl)	250	ND	mg/l	Dissolved	
Chromium (Cr)	0.1	ND	mg/l	Dissolved	
Cobalt (Co)	0.05	ND	mg/l	Dissolved	
Coliform (Max Total)	23	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml	
Coliform 30-day avg. Total	2.2	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml	
Color	15	ND	color units		
Copper (Cu)	0.2	ND	mg/l	Dissolved	
Corrosivity	Non Corrosive	-6.09	Langelier Units		
Cyanide [Free] (Cn)	0.2	ND	mg/l	Total	
Fluoride (F)	2	ND	mg/l	Dissolved	
Foaming Agents	0.5	ND	mg/l	Total	
Gross Alpha Particle Activity	15	0.6	pCi/l		
Iron (Fe)	0.3	ND	mg/l	Dissolved	
Lead (Pb)	0.05	ND	mg/l	Dissolved	
Lithium (Li)	2.5	ND	mg/l	Dissolved	
Manganese (Mn)	0.05	ND	mg/l	Dissolved	
Mercury (inorganic) (Hg)	0.002	ND	mg/l	Dissolved	
Molybdenum (Mo)	0.21	ND	mg/l	Dissolved	
Nickel (Ni)	0.1	ND	mg/l	Dissolved	
Nitrate (NO3)	10	ND	mg/I as N	Dissolved	
Nitrate-NitriteTotal	10	ND	mg/I as N	Dissolved	
Nitrite (NO2)	1	ND	mg/I as N	Dissolved	
Odor	3	ND	threshold odor numbers		
pH (field)	6.5 - 8.5		pH units		
Phenol	0.3	ND	mg/l	Total - Std in mg/l; Lab reports in ug/l	
Selenium (Se)	0.02	ND	mg/l	Dissolved	
Silver (Ag)	0.05	ND	mg/l	Dissolved	
Silver I Otal	250	ND	mg/l	Disselved	
Suifate (SO4)	250	ND	mg/i		
Thallium (TI)	400	ND	mg/i	Dissolved	
Inallium (II)	0.002	ND	mg/i	Dissolved	
Vanadium (V)	0.0168 -0.03	ND	mg/l	Dissolved	
vanadium (V)	0.1	ND	mg/l	Dissolved	
Zinc (Zn)	2	ND	mg/i	Dissoivea	



Table 5.2.2 Mine Effluent Quality Control Results – December 2022

Sample Collected on:	December 20, 2022			
Parameter	Standard -	Field Blank Caribou Porta ^I	Unit	Comments
2-Chlorophenol	0.0002	ND	mg/l	Total - Std in mg/l; results in ug/l
Aluminum (Al)	5	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	mg/l	Dissolved
Asbestos	7,000,000	ND	fibers/liter	Total
Barium (Ba)	2	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	mg/l	Dissolved
Beta and Photon Emitters	4	<3.0	mrem/year	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	ND	mg/l	Dissolved
Chloride (Cl)	250	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	mg/l	Dissolved
Coliform (Max Total)	23	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml
Coliform 30-day avg. Total	2.2	ND	org/100 ml	Total - Std in org/100 ml; Lab reports mpn/100ml
Color	15	ND	color units	
Copper (Cu)	0.2	ND	mg/l	Dissolved
Corrosivity	Non Corrosive	-5.26	Langelier Units	
Cyanide [Free] (Cn)	0.2	ND	mg/l	Total
Fluoride (F)	2	ND	mg/l	Dissolved
Foaming Agents	0.5	ND	mg/l	Total
Gross Alpha Particle Activity	15	0.2	pCi/l	
Iron (Fe)	0.3	ND	mg/l	Dissolved
Lead (Pb)	0.05	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	mg/l	Dissolved
Manganese (Mn)	0.05	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	ND	mg/l as N	Dissolved
Nitrite (NO2)	1	ND	mg/l as N	Dissolved
Odor	3	ND	threshold odor numbers	
pH (field)	6.5 - 8.5		pH units	
Phenol	0.3	ND	mg/l	Total - Std in mg/l; Lab reports in ug/l
Selenium (Se)	0.02	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	mg/l	Dissolved
Silver Total		ND	mg/l	Total
Sulfate (SO4)	250	ND	mg/l	Dissolved
TDS	400	ND	mg/l	Total
Thallium (TI)	0.002	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	mg/l	Dissolved
Zinc (Zn)	2	ND	mg/l	Dissolved



Table 5.3.1 Surface Water Quality Control Results – October 2022

Sample Collected on:	n: October 26, 2022				
Parameter	Field Duplicate Sta. 2022-02	Field Blank Sta. 2022-02	Matrix Spike Sta. 2022-02	Unit	
Arsenic Potentially Dissolved	ND	ND	40.4	ug/L	
Arsenic Total Recoverable	ND	ND	39.2	ug/L	
Cadmium Potentially Dissolved	ND	ND	42	ug/L	
Cadmium Total Recoverable	ND	ND	38	ug/L	
Chromium Potentially Dissolved	ND	ND	39.7	ug/L	
Chromium Total Recoverable	ND	ND	38	ug/L	
Chromium, hexavalent Dissolved	ND	ND	0.097	mg/L	
Chromium, hexavalent Total	ND	ND	0.0991	mg/L	
Chromium, trivalent Potentially Dissolved	ND	ND		mg/L	
Chromium, trivalent Total Recoverable	ND	ND		mg/L	
Copper Potentially Dissolved	0.75	ND	40.2	ug/L	
Copper Total Recoverable	0.84	ND	38.8	ug/L	
Field pH	8.3			SU	
Field Water Temperature	5			Degrees C	
Iron Total Recoverable	53	22	10,200	ug/L	
Lead Potentially Dissolved	0.9	ND	41.1	ug/L	
Lead Total Recoverable	0.83	ND	41.2	ug/L	
Manganese Potentially Dissolved	5.3	ND	42.9	ug/L	
Mercury	NA	ND	4.93	ng/L	
Mercury Total	2.7	ND	8.09	ug/L	
Nickel Potentially Dissolved	ND	ND	39.6	ug/L	
pH adj. to 25 deg C	8.3	8.9		SU	
Selenium Potentially Dissolved	ND	ND	38.8	ug/L	
Silver Potentially Dissolved	ND	ND	40.7	ug/L	
Specific Conductance	220	4.2		umhos/cm	
Specific Conductance Total	220	4.2		umhos/cm	
Sulfide Total	ND	ND	0.473	mg/L	
Sulfide Total	ND	ND		mg/L	
Temperature	23	22.6		Degrees C	
Total Suspended Solids	1.6	ND		mg/L	
Un-ionized Hydrogen Sulfide Total	ND	ND		mg/L	
Zinc Total Recoverable	5.3	ND	42	ug/L	
Zinc Potentially Dissolved	16	34	63.4	ug/L	
Field Ambient Temperature	1.1			Degrees C	
Field Specific Conductivity	0.3			uS/cm	



Table 5.3.2 Surface Water Quality Control Results – November 2022

Sample Collected on:	on: November 28, 2022				
	Field Duplicate	Field Blank	Matrix Spike		
Parameter	Sta. 2022-02	Sta. 2022-02	Sta. 2022-02	Unit	
Arsenic Potentially Dissolved	ND	ND	40.1	ug/L	
Arsenic Total Recoverable	ND	ND	42.4	ug/L	
Cadmium Potentially Dissolved	ND	ND	38.7	ug/L	
Cadmium Total Recoverable	ND	ND	40.6	ug/L	
Chromium Potentially Dissolved	ND	ND	39.5	ug/L	
Chromium Total Recoverable	ND	ND	40.8	ug/L	
Chromium, hexavalent Dissolved	ND	ND	0.105	mg/L	
Chromium, hexavalent Total	ND	ND	0.119	mg/L	
Chromium, trivalent Potentially					
Dissolved	ND	ND		mg/L	
Chromium, trivalent Total Recoverable	ND	ND		mg/L	
Copper Potentially Dissolved	ND	ND	40.4	ug/L	
Copper Total Recoverable	ND	ND	41.3	ug/L	
Field pH	8.3			SU	
Field Water Temperature	2.6			Degrees C	
Iron Total Recoverable	39	ND	10,300	ug/L	
Lead Potentially Dissolved	0.62	ND	40.9	ug/L	
Lead Total Recoverable	1.7	ND	41.5	ug/L	
Manganese Potentially Dissolved	5.3	ND	41.1	ug/L	
Mercury	ND	ND	4.94	ng/L	
Mercury Total	1.9	ND	6.19	ug/L	
Nickel Potentially Dissolved	ND	ND	39	ug/L	
pH adj. to 25 deg C	8.3	6.4		SU	
Selenium Potentially Dissolved	ND	ND	40.5	ug/L	
Silver Potentially Dissolved	ND	ND	38.8	ug/L	
Specific Conductance	230	ND		umhos/cm	
Specific Conductance Total	230	ND		umhos/cm	
Sulfide Total	0.032	ND	0.456	mg/L	
Sulfide Total	ND	ND		mg/L	
Temperature	23.4	23.9		Degrees C	
Total Suspended Solids	ND	ND		mg/L	
Un-ionized Hydrogen Sulfide Total	ND	ND		mg/L	
Zinc Total Recoverable	3.9	ND	46.7	ug/L	
Zinc Potentially Dissolved	8.6	4.5	46.7	ug/L	
Field Ambient Temperature	-2			Degrees C	
Field Specific Conductivity	0.3			uS/cm	



6. NPDES permit CO-0032751 Outfall 001

Effluent from the Cross Mine and Idaho Tunnel/Caribou Mine is collected in sumps and ponds and it is pumped to the Water Treatment Plant (subject of TR-10). Treated water is released to Coon Track Creek via pipeline to Outfall-001 in accordance with CDPHE NPDES permit.

Tables 6.1 Month of October, 6.2 Month of November and 6.3 Month of December present the monthly DMRs filed by The Operator with CDPHE for the 4th quarter 2022.



Table 6.1 DMR October 2022

Permit																					
Permit	#: 0	CO0032	751				Permit	tee:			Grand Isla	and Resou	Irces LLC			Fa	acility:	CROSS AND CA	RIBOU	MINES	
Major:	١	No					Permit	tee Ad	dress:		12567 W Lakewood	Cedar Dr I, CO 802	28			F	acility Location:	CROSS AND CA	RIBOU	MINES 0 80466	
Permit	ted Feature: 0	001 External	Outfall				Discha	irge:			001-A Treated N	line Wate	to Coon	Track Cr	eek						
Report	Dates & Status						'														
Monito Consid	ring Period: Form Completion	From 10	/01/22 to 10/3	1/22			DMR D	ue Da	te:		11/28/22					S	tatus:	NetDMR Validate	d		
Oil and Princir	grease - see I.A.2, pg 3. 30 day	average	e is the highest	monthi	ly average	during pe	riod repo	rted.													
First N	ame:						Title:									Т	elephone:				
Last N	ame:																				
No Dat	a Indicator (NODI)						'														
Form M	IODI: -	-																			
Code	Parameter Name		Monitoring Location	Season #	Param. NODI		Qualifier	Value (Quantity Qualifier	y or Loading Value 2	Units	Qualifier	Value 1	Qualifier	Quality or Value 2	Qualifie	ntion r Value 3	Unit	s Ex.	Frequency of Analysis	Sample T
						Sample			-					=	6.66	=	16.8	04 - d	eg 🛛	99/99 - Continuous	RC - Record
00010	Temperature water deg. cention	rade 1	- Effluent	0		Permit									Reg Mon MX WK AV		Reg Mon DAILY MX	04 - d	^{eg} 0	99/99 - Continuous	RC - Record
	remperature, water deg. centigr	ade 6	Gross	•		Req. Value												c	-		(auto)
						Sample						=	6.8			=	8.8	12 - S	U	02/30 - Twice Per Month	GR - GRAB
00400	oH	1	- Effluent	0		Permit						>=	6.5			<=	9.0 MAXIMUM	12 - S	U 0	02/30 - Twice Per	GR - GRAB
00400	.	G	Gross			Value							MINIMUM							Month	
						Sample								<	4.0	<	4.0	19 - m	g/L	01/30 - Monthly	GR - GRAB
00530	Solids, total suspended	1	- Effluent Gross	0	-	Permit Req. Value								<=	30.0 30DA AVG	<=	45.0 DAILY MX	19 - m	9 ^{/L} 0	01/30 - Monthly	GR - GRAB
		_				NODI Sample								<	5.0			28 - u	a/L	01/30 - Monthly	GR - GRAB
00978	Arsenic, total recoverable	1	- Effluent	0		Permit Req.									Reg Mon 30DA AVG			28 - u	9/L 0	01/30 - Monthly	GR - GRAB
			31055			Value NODI															
						Sample								<	100.0			28 - u	g/L	01/30 - Monthly	GR - GRAB
08600	Iron, total recoverable	1	- Effluent Gross	0		Req. Value									Reg Mon 30DA AVG			28 - u	9/L 0	01/30 - Monthly	GR - GRAB
						NODI Sample								<	10.0	<	10.0	28 - u	p/L	01/30 - Monthly	GR - GRAB
01094	Zinc. total recoverable	1	- Effluent	0		Permit								<=	750.0 30DA AVG	<=	1500.0 DAILY MX	28 - u	9/L 0	01/30 - Monthly	GR - GRAB
01004	Line, total recoverable	G	Gross	Ŭ	-	Value NODI													Ŭ		
						Sample								<	1.0	<	1.0	28 - u	g/L	01/30 - Monthly	GR - GRAB
01113	Cadmium, total recoverable	1	- Effluent Gross	0		Permit Req.								<=	50.0 30DA AVG	<=	300.0 DAILY MX	28 - u	9/L 0	01/30 - Monthly	GR - GRAB
						Value NODI															
						Sample								<	1.0	<	1.0	28 - u	g/L	02/30 - Twice Per Month	GR - GRAB
01114	Lead, total recoverable	1	- Effluent Gross	0		Permit Req.								<=	300.0 30DA AVG	<=	600.0 DAILY MX	28 - u	9/L 0	02/30 - Twice Per Month	GR - GRAB
						Value NODI															
						Sample								<	2.0	<	2.0	28 - u	g/L	02/30 - Twice Per Month	GR - GRAB
01119	Copper, total recoverable	1	- Effluent	0		Permit								<=	150.0 30DA AVG	<=	300.0 DAILY MX	28 - u	9/L 0	02/30 - Twice Per Month	GR - GRAB
		G	51055			Value														w/UTU1	
						Sample								<	20.0	<	20.0	28 - 11	ı/L	01/30 - Monthly	GR - GRAB
01220	Chromium, hexavalent dissolve	d (as 1	- Effluent	0		Permit Reg.									Reg Mon 30DA AVG		Reg Mon DAILY MX	28 - u	9/L 0	01/30 - Monthly	GR - GRAE
- 1 million						and the second s															



Table 6.1 DMR October 2022 (continued)

	Cr]	Gross			Value										
			-	-	NODI			_			12.0			02/30 - Twice Per	
		1 - Effluent			Permit			=	6.0	=	12.0	28 - ug/L		Month 02/30 - Twice Per	GR - GRAB
01303	Zinc, potentially dissolved	Gross	10		Req.			<=	262.0 30DA AVG	<=	291.0 DAILY MX	28 - ug/L	0	Month	GR - GRAB
					NODI										
					Sample Permit			~	0 17 3004 AVG	~		28 . 1101		02/30 - Twice Per	
01304	Silver, potentially dissolved	1 - Effluent Gross	10		Req.				P. Balan Datastian Limithia		4.5 URLT MA	20-09/1		Month	GR - GRAD
					NODI				B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection				
					Sample			<	2.0	<	2.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAE
01306	Copper, potentially dissolved	1 - Effluent	10		Permit			<=	19.0 30DA AVG	c =	28.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAE
		Gross			Value										
					Sample					<	5.0	28 - ug/L		01/30 - Monthly	GR - GRAE
01309	Arsenic, potentially dissolved	1 - Effluent	0		Permit Reg.						Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAE
	·····, ····	Gross			Value										
				-	Sample			-		<	19	28 - un/L		02/30 - Twice Per	GR - GRA
		1 - Effuent			Permit				0 80 300 4 41/2	-		28		Month 02/30 - Twice Per	CR. CRA
01313	Cadmium, potentially dissolvd	Gross	10		Req.			~~	D. Balan Data dian Limitika		3.0 DRILT MA	20-09/1	0	Month	GR - GRA
					NODI				B - Below Detection Limit/No Detection						
					Sample		 	<	20.0			28 - ug/L		01/30 - Monthly	GR - GRA
01314	Chromium, trivalent, potentially dissolved	1 - Effluent Gross	0		Req.				Reg Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRA
		0.033			Value NODI										
					Sample			<	1.0	<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRA
01318	Lead, potentially dissolvd	1 - Effluent	10		Permit			<=	5.4 30DA AVG	-	135.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per	GR - GRA
		Gross			Value									Month	
					NODI Sample			<	2.0	<	2.0	28 - ug/L		01/30 - Monthly	GR - GRA
01310	Mangapasa, potentially dissolut	1 - Effluent	0		Permit				Reg Mon 30DA AVG		Reg Mon DAILY MX	28 - ug/L		01/30 - Monthly	GR - GRA
01010	manganese, potentiany dissorra	Gross	Ŭ	-	Value										
				-	Sample			<	2.0	<	2.0	28 - ug/L		01/30 - Monthly	GR - GRA
01322	Nickel, potentially dissolvd	1 - Effluent	0		Permit Reg.				Reg Mon 30DA AVG		Reg Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRA
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Gross			Value										
					Sample			<	5.0	<	5.0	28 - ug/L		01/30 - Monthly	GR - GRA
01323	Selenium, potentially dissolvd	1 - Effluent	0		Permit Reg.				Req Mon 30DA AVG		Reg Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRA
		Gross			Value										
				-	Sample										
03582	Oil and grease	1 - Effluent	0	-	Permit Req.					<=	10.0 INST MAX	19 - mg/L		77/77 - Contingent	GR - GRA
00001	on and grease	Gross	Ŭ.		Value						9 - Conditional Monitoring - Not Required This				
			_		Samole					<	20.0	28 - unit		01/30 - Monthly	GR - GRA
	Chromium, trivalent total	1 - Effluent			Permit						Reg Mon DAILY MX	28 - ug/L		01/30 - Monthly	GR - GRA
04262	recoverable	Gross	0	-	Value								0		
				-	NODI			_				03 -		00000 00 7	RC - Reco
	Flow, in conduit or thru treatment	1 - Effuent			Sample			=	0.1014	-	U.144	MGD		99/99 - Continuous	(auto) RC - Reco
50050	plant	Gross	10		Req.			<=	0.103 30DA AVG		Req Mon DAILY MX	MGD	0	99/99 - Continuous	(auto)
					NODI										
					Sample			<	1.0			19 - mg/L		01/30 - Monthly	GR - GRA
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	-	Req.				Req Mon 30DA AVG			19 - mg/L	0	01/30 - Monthly	GR - GRA
					NODI										
					Sample			<	0.2	<	0.2	28 - ug/L		01/30 - Monthly	GR - GRA



Table 6.1 DMR October 2022 (continued)

71900	Mercury, total [as Hg]	1 - Effluent Gross	0		Permit Req.						c=	1.0 30DA AVG	<=	2.0 DAILY MX		28 -
					Value NODI											
					Sample	=	0.0	AB - abst=0;prst=1								
84066	Oil and grease visual	1 - Effluent	0		Permit		Req Mon INST	AB -								
	-	Gross			Value NODI		MAA	abst-0,prst-1								
Submis	sion Note															
lf a para	ameter row does not contain any value	es for the Sample	e nor Ef	fluent Trad	ing, then none of	the following	ng fields will be sut	bmitted for that r	ow: Units, N	Number	of Excu	rsions, Frequency of Analysis, and	i Sample	туре.		
Edit Ch	eck Errors															
No erro	rs.															
Comme	ents															
Attachr	ments															
						N	ame								Туре	
2022_10	CrossCaribouMine_Results_1.pdf													pdf		9480
2022_10	CrossCaribouMine_Results_2.pdf													pdf		8719
2022_10	_CrossCaribouMine_CoverLetter.pdf													pdf		1899
Report	Last Saved By															
Grand I	Island Resources LLC															
User:			P	delaney@a	alexcoresource.co	m										
Name:			P	atrick De	laney											
E-Mail:			P	delaney@t	blackfoxmining.co	m										
Date/Tir	me:		2	022-11-28	18:16 (Time Zo	ne: -07:00)										
Report	Last Signed By															
User:			P	delaney@a	alexcoresource.co	m										
Name:			P	atrick De	laney											
E-Mail:			P	delaney@t	blackfoxmining.co	m										
Date/Tir	me:		2	022-11-28	18:17 (Time Zo	ne: -07:00)										

- ug/L	0	01/30 - Monthly	GR - GRAB
	0	02/30 - Twice Per Month 02/30 - Twice Per Month	VI - VISUAL VI - VISUAL
		Size	
60.0			
31.0			
75.0			



Table 6.2 DMR November 2022

Permit Permit #: Major: Permitted	C																					
Permit #: Major: Permitted	C																					
Permit #. Major: Permitted		00033754					Bormitte				Grand Jela	nd Reco	Irces LLC			E	allitu	CROSS AND	CARIBO		s	
Permitted	N	00032751					Permitte	ie: Addr			12567 W (Pedar Dr	IICES LLC			Fa Ea	icility:	CROSS AND			9 9	
Permitteo	14	5					Permitte	e Addi	ress:		Lakewood	, CO 802	28			Fa	conty Location:	BOULDER CO	OUNTY,	CO 8046	36	
	d Feature: 00 Ex)1 xternal Outfall					Dischar	ge:			001-A Treated M	ine Wate	r to Coon	Track Cr	sek							
Report Da	ates & Status																					
Monitorin	ng Period: Fr	rom 11/01/22 to	11/30/2	22			DMR Du	e Date:	:		12/28/22					St	atus:	NetDMR Valie	lated			
Consider	rations for Form Completion																					
Dil and gro	rease - see I.A.2, pg 3. 30 day a	verage is the hi	phest m	nonthly	/ average	during per	riod report	ed.														
Principal	Executive Officer																					
First Nam	ne:						Title:									Te	lephone:					
Last Nam	ne:																					
No Data I	Indicator (NODI)																					
Form NO	DI:																					
Out	Parameter	Monitorin	g S	eason	Param.		Our life of	alua C	Quantity	or Loading	11-21-	0	Maharad	0	Quality or	Concentra	tion		L Inches	#of F	Frequency of	Sample Type
Code	Name	Location			NODI		Qualifier V	alue Qu 1	alifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3		Units	EX.	Analysis	
						Sample								-	4.14	-	11.6	0	- deg	99/99	9 - Continuous	RC - Recorder
	·	1 - Effluent				Permit									Des Mar My My AV		Des Mar DAILY MY	0	l - deg		0	(auto) RC - Recorder
00010 16	emperature, water deg. centigra	Gross				Req.									Keq Mon MX WK AV		Red Won DAILY MX	c		0 99/95	9 - Continuous	(auto)
						Value NODI																
						Sample						-	7.5			-	8.0	1	2 - SU	99/99	9 - Continuous	RC - Recorder
00400		1 - Effluent				Permit							6.5							02/30	0 - Twice Per	(auto)
00400 pł	H	Gross	0	0		Req.						>=	MINIMUM			<=	9.0 MAXIMUM	1	2-80	Mont	th	GR - GRAB
						Value NODI																
						Sample								<	4.0	<	4.0	1) - mg/L	01/3	0 - Monthly	GR - GRAB
00530 \$	olids, total suspended	1 - Effluent	0	0		Permit Reg.								<#	30.0 30DA AVG	<=	45.0 DAILY MX	1) - mg/L	0 01/30	0 - Monthly	GR - GRAB
		Gross				Value																
			_			NODI Sample		-						<	5.0			2	3 - ua/L	01/3	0 - Monthly	GR - GRAB
		1 - Effluent				Permit									Reg Mon 30DA AVG			2	- un/l	01/3	0 - Monthly	GR - GRAB
00978 A	Arsenic, total recoverable	Gross	C	0		Req. Value												F	, ugra	0		Cit - Cit L
						NODI																
						Sample								<	100.0			2	3 - ug/L	01/3	0 - Monthly	GR - GRAB
00980 Ir	ron, total recoverable	1 - Effluent	0	0		Req.									Req Mon 30DA AVG			2	3 - ug/L	0 01/30	0 - Monthly	GR - GRAB
		Gross				Value																
						Sample			-					<	10.0	<	10.0	2	3 - ug/L	01/30	0 - Monthly	GR - GRAB
01004 -		1 - Effluent				Permit								<	750.0 30DA AVG	<	1500.0 DAILY MX	2	3 - ug/L	01/3	0 - Monthly	GR - GRAB
01094 Zi	linc, total recoverable	Gross	C	0		Value													5-	0	-,	
						NODI																
						Sample								<	1.0	<	1.0	2	8 - ug/L	01/3	0 - Monthly	GR - GRAB
01113 C	admium, total recoverable	1 - Effluent Gross	C	D		Req.								<#	50.0 30DA AVG	C.	300.0 DAILY MX	2	3 - ug/L	0 01/30	0 - Monthly	GR - GRAB
						Value NODI																
						Sample								<	10	<	10	2	a uci	02/3	0 - Twice Per	GR - GRAB
		1 - Effluent				Permit												2	- agre	Mont 02/20	h D - Twice Per	UN - UND
01114 Le	ead, total recoverable	Gross	0	0		Req.								<#	300.0 30DA AVG	<=	600.0 DAILY MX	2	8 - ug/L	0 Mont	h	GR - GRAB
						Value NODI																
						Sample								<	2.0	<	2.0	2	- ue/l	02/3	0 - Twice Per	GR - GRAB
		1 - Effluent				Permit										-		2	gric	Mont 02/3/	h D - Twice Per	
01119 C	Copper, total recoverable	Gross	C	D		Req.								<.	150.0 30DA AVG	<.	300.0 DAILY MX	2	8 - ug/L	0 Mont	h	GR - GRAB
						Value NODI																
						Sample								<	20.0	<	20.0	2	3 - ug/L	01/3	0 - Monthly	GR - GRAB
	bromium boxavalant discolured	las 1 - Effluent				Permit									Reg Mon 30DA AVG		Req Mon DAILY MX	2	3 - ug/L	01/30	0 - Monthly	GR - GRAB



Table 6.2 DMR November 2022 (continued)

	Cr]	Gross		Value							
				Sample			-	7.0	-	14.0	28
01303	Zinc, potentially dissolved	1 - Effluent Gross	11	 Permit Reg.			<=	202.0 30DA AVG	<#	232.0 DAILY MX	28
				Value NODI							
				Sample							
01304	Silver, potentially dissolved	1 - Effluent	11	 Req.			<=	0.13 30DA AVG	<=	3.6 DAILY MX	28
		Gross		Value NODI				B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection	
				Sample			<	2.0	<	2.0	28
01306	Copper, potentially dissolved	1 - Effluent	11	 Permit Reg.			<=	14.0 30DA AVG	<	22.0 DAILY MX	28
		01035		Value							
				Sample					<	5.0	28
1309	Arsenic, potentially dissolved	1 - Effluent	0	 Permit Req.						Req Mon DAILY MX	28
		Gross		Value NODI							
				Sample					<	1.0	28
1313	Cadmium, potentially dissolve	1 - Effluent	11	 Permit Reg.			<.	0.69 30DA AVG	<	2.8 DAILY MX	28
	odaman, potendary aboorta	Gross		Value NODI				B - Below Detection Limit/No Detection			
				Sample			<	20.0			28
01314	Chromium, trivalent, potentially	1 - Effluent Gross	0	 Permit Req.				Req Mon 30DA AVG			28
	000000	0.000		Value NODI							
				Sample			<	1.0	<	1.0	28
1318	Lead, potentially dissolvd	1 - Effluent Gross	11	 Permit			<.	4.2 30DA AVG	<	108.0 DAILY MX	28
		0.000		Value							
				Sample			<	2.0	<	2.0	21
1319	Manganese, potentially dissolvd	1 - Effluent	0	 Permit Req.				Req Mon 30DA AVG		Req Mon DAILY MX	28
		01088		Value NODI							
				Sample			<	2.0	<	2.0	28
1322	Nickel, potentially dissolvd	1 - Effluent Gross	0	 Req.				Req Mon 30DA AVG		Reg Mon DAILY MX	28
		0.000		Value NODI							
				Sample			<	5.0	<	5.0	28
1323	Selenium, potentially dissolvd	1 - Effluent Gross	0	 Req.				Req Mon 30DA AVG		Req Mon DAILY MX	28
				NODI							
				Sample							
3582	Oil and grease	1 - Effluent Gross	0	 Req.					<#	10.0 INST MAX	19
				Value NODI						9 - Conditional Monitoring - Not Required This Period	
				Sample					<	20.0	28
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	 Req.						Req Mon DAILY MX	28
				NODI							
				Sample			-	0.101	-	0.154	03 M
0050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	11	 Permit Req.			<=	0.103 30DA AVG		Req Mon DAILY MX	03 M
				Value NODI							
				Sample			<	1.0			19
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	 Req.				Req Mon 30DA AVG			19
				Value NODI							
				Sample			<	0.2	<	0.2	28

28 - ug/L		02/30 - Twice Per Month	GR - GRAB
28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
28 - ug/L		02/30 - Twice Per Month	GR - GRAB
28 - ug/L		02/30 - Twice Per	GR - GRAB
28 - ug/L	0	02/30 - Twice Per	GR - GRAB
		Monun	
28 - ua/l		01/30 - Monthly	GR - GRAB
28 - ug/L		01/30 - Monthly	GR - GRAB
Lo - agric	0	c	
	_	00/00 Turing Day	
28 - ug/L		Month	GR - GRAB
28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
28 - ug/L		01/30 - Monthly	GR - GRAB
28 - ug/L	0	01/30 - Monthly	GR - GRAB
	-		
28 - ug/L		02/30 - Twice Per Month	GR - GRAB
28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
28 - ua/L		01/30 - Monthly	GR - GRAB
28 - ug/L	0	01/30 - Monthly	GR - GRAB
	Ŭ		
28 - ug/L		01/30 - Monthly	GR - GRAB
28 - ug/L	0	01/30 - Monthly	GR - GRAB
	č		
28 - ua/l		01/30 - Monthly	GR - GRAB
28 - ug/L		01/30 - Monthly	GR - GRAB
	0		
19 - mg/L		77/77 - Contingent	GR - GRAB
28		01/30 - Monthly	CR - CRAP
28 - ug/L		01/30 - Monthly	GR - GRAB
- age	0		
03 -		00/00 - Continuous	RC - Recorder
MGD		99/99 - Continuous	(auto) RC - Recorder
MGD	0	99/99 - Continuous	(auto)
19 - mg/L		01/30 - Monthly	GR - GRAB
19 - mg/L	0	01/30 - Monthly	GR - GRAB
28 - ug/L		01/30 - Monthly	GR - GRAB



Table 6.2 DMR November 2022 (continued)

71900	Mercury, total [as Hg]	1 - Effluent Gross	0		Permit Req.								CH .	1.0 30DA AVG	CH .	2.0 DAILY MX		28 - uç
					Value NODI													
					Sample			-	0.0	AB - abst=0;prst=1								
84066	Oil and grease visual	1 - Effluent Gross	0		Permit Req.				Req Mon INST MAX	AB - abst=0;prst=1								
					Value NODI													
Submis	ssion Note																	
If a para	ameter row does not contain any value	es for the Sampl	le nor Ef	ffluent Tradi	ing, then i	none of t	he foll	lowing	fields will be sub	mitted for that	row: Unit	s, Numbe	r of Excu	rsions, Frequency of Analysis, an	d Sample	е Туре.		
Edit Ch	eck Errors																	
No erro	rs.																	
Comm	ents																	
Attachi	ments																	
								Name								Туре		
2022_11	CrossCaribouMine_Results_1.pdf															pdf	10693	33.0
2022_11	CrossCaribouMine_Results_2.pdf															pdf	10032	97.0
2022_11	CrossCaribouMine_CoverLetter.pdf															pdf	19106	i 4. 0
Report	Last Saved By																	
Grand	Island Resources LLC																	
User:			p	delaney@a	lexcores	ource.cor	n											
Name:			F	Patrick De	laney													
E-Mail:			p	delaney@b	lackfoxm	ining.con	n											
Date/Ti	me:		2	022-12-28	09:23 (1	Time Zon	ie: -07	(00:										
Report	Last Signed By																	
User:			P	delaney@a	lexcores	ource.cor	n											
Name:			F	Patrick De	laney													
E-Mail:			p	delaney@b	lackfoxm	ining.con	n											
Date/Ti	me:		2	022-12-28	09:24 (1	Time Zon	ie: -07	(00:										

ıg/L	0	01/30 - Monthly	GR - GRAB
	0	02/30 - Twice Per Month 02/30 - Twice Per Month	VI - VISUAL VI - VISUAL
		Size	



Table 6.3 DMR December 2022

DMR Copy of Record																			
Permit																			
Permit #:	C0003	32751				Permitte			Grand Isla	and Reso	urces LLC	;		Fa	cility:	CROSS AND CARIB		INES	
Major:	No					Permittee	Address		12567 W Lakewood	Cedar Dr I, CO 802	228			Fa	cility Location:	CROSS AND CARIB BOULDER COUNTY	OU N , CO	/INES 80466	
Permitted Feature:	001 Extern	al Outfall				Discharg	e:		001-A Treated M	line Wate	er to Coon	Track Cr	eek	-					
Report Dates & Status																			
Monitoring Period:	From	12/01/22 to 12/3	31/22			DMR Due	Date:		01/28/23					St	atus:	NetDMR Validated			
Considerations for Form Com	oletion																		
Oil and grease - see I.A.2, pg 3.3 Principal Executive Officer	30 day avera	age is the highes	t month	ly averag	ge during pe	eriod reporte	d.												
First Name:						Title:								т	elephone:				
Last Name:														•					
No Data Indicator (NODI)						•													
Form NODI:																			
Code Parameter Name		Monitoring Location	Season #	NODI		Qualifier Va	Quar lue Qualifie	tity or Loading Value 2	Units	Qualifier	Value 1	Qualifier	Quality or Value 2	Qualifier	tion Value 3	Units	# of Ex.	Frequency of Analysis	Sample
					Sample							=	3.24	=	7.8	04 - deg		99/99 - Continuous	RC - Rec
00010 Temperature water deg	centiorade	1 - Effluent	0		Permit								Reg Mon MX WK AV		Reg Mon DAILY MX	04 - deg	0	99/99 - Continuous	RC - Rec
temperature, water deg.	centigrade	Gross	ľ	-	Req. Value											С	Ŭ		(auto)
					Sample					=	7.4			=	7.7	12 - SU		02/30 - Twice Per Month	GR - GR/
00400 pH		1 - Effluent	0		Permit					>=	6.5			<=		12 - SU	0	02/30 - Twice Per	GR - GR
		Gross	Ū		Req. Value NODI						MINIMUM					12.00	Ŭ	Month	
					Sample							<	4.0	<	4.0	19 - mg/L		01/30 - Monthly	GR - GR/
00530 Solids, total suspended		1 - Effluent Gross	0		Permit Req. Value		_					<=	30.0 30DA AVG	<=	45.0 DAILY MX	19 - mg/L	0	01/30 - Monthly	GR - GR
			_	_	NODI		_					-	5.0			28 - 110/		01/30 - Monthly	GR - GR
		1 - Effluent			Permit								Reg Mon 30DA AVG			28 - ug/L		01/30 - Monthly	GR - GR
00978 Arsenic, total recoverable	Ð	Gross	0	-	Req. Value NODI												0		
					Sample							<	100.0			28 - ug/L		01/30 - Monthly	GR - GRA
00980 Iron, total recoverable		1 - Effluent Gross	0		Permit Req. Value		_						Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GR/
					NODI		_						10.0		10.0	22		04/00 Martha	00.00
		1 - Effluent			Permit							«	10.0 750.0.20DA AVG	«	1500 0 DAILY MY	28 - ug/L		01/30 - Monthly	GR - GRA
01094 Zinc, total recoverable		Gross	0	-	Req. Value							~-	750.0 50DA AVG	~-	1300.0 DALLY MA	20 - Ug/L	0	01/30 - Monully	GR - GR
					Sample							<	1.0	<	1.0	28 - ug/L		01/30 - Monthly	GR - GR
01113 Cadmium, total recoveral	ble	1 - Effluent	0		Permit Req.							<=	50.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRA
		01055			Value NODI														
					Sample							<	1.0	<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRA
01114 Lead, total recoverable		1 - Effluent Gross	0		Permit Req.							<=	300.0 30DA AVG	<=	600.0 DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - GRA
					Value NODI													00/20 Tuine Dec	
					Sample							<	2.0	<	2.0	28 - ug/L		02/30 - Twice Per Month	GR - GRA
01119 Copper, total recoverable	•	1 - Effluent Gross	0		Permit Req.							<=	150.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRA
					NODI														
					Sample							<	20.0	<	20.0	28 - ug/L		01/30 - Monthly	GR - GRA
01220 Chromium, hexavalent di	ssolved [as	1 - Effluent	0		Permit Reg.								Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		01/30 - Monthly	GR - GRA


Table 6.3 DMR December 2022 (continued)

		0.000			NODI									
					Sample			<	10.0	<	10.0	28 - ug/L	02/30 - Twice Per Month	GR - GI
01303	Zinc, potentially dissolved	1 - Effluent Gross	12		Permit Reg.			<=	186.0 30DA AVG	<=	182.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per Month	GR - G
					Value									
					Sample									
04204	Cilium notestially disastered	1 - Effluent	10		Permit Req.			<=	0.12 30DA AVG	<=	2.8 DAILY MX	28 - ug/L	02/30 - Twice Per Month	GR - G
01304	Silver, potentially dissolved	Gross	12	-	Value NODI				B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
					Sample			<	2.0	<	2.0	28 - ug/L	02/30 - Twice Per Month	GR - G
01306	Copper, potentially dissolved	1 - Effluent	12		Permit			<=	13.0 30DA AVG	<=	18.0 DAILY MX	28 - ug/L 0	02/30 - Twice Per	GR - G
	, , , , , , , , , , , , , , , , , , , ,	Gross	-		Value					_			Month	_
			_		NODI			_		<	50	28 - ug/l	01/30 - Monthly	GR - G
		1 - Effluent			Permit					-	Reg Mon DAILY MX	28 - ug/L	01/30 - Monthly	GR - G
01309	Arsenic, potentially dissolved	Gross	0	-	Req. Value							0		
				_	NODI			_						_
		1.50			Permit			<=	0.63 30DA AVG	<=	2.2 DAILY MX	28 - ua/L	02/30 - Twice Per	GR - G
01313	Cadmium, potentially dissolvd	Gross	12		Req.			_	R - Relow Detection Limit/Ma				Month	
					NODI				Detection		B - Below Detection Limit/No Detection			
					Sample			<	20.0			28 - ug/L	01/30 - Monthly	GR - G
01314	Chromium, trivalent, potentially	1 - Effluent	0		Permit Req.				Req Mon 30DA AVG			^{28 - ug/L} 0	01/30 - Monthly	GR - G
	ussolvu	Giuss			Value NODI									
					Sample			<	1.0	<	1.0	28 - ug/L	02/30 - Twice Per	GR - G
01318	Load notantially discolud	1 - Effluent	12		Permit			<=	3.8.30DA AVG	<=	85.0 DAILY MX	28 - 110/1 0	02/30 - Twice Per	GR - C
01310	Lead, potentially dissolve	Gross	12		Req. Value	 		-	0.000077770	-		Lo dgr. U	Month	
			_		NODI								04/20 14 14	
		1 - Effluent			Permit			<	2.0 Reg Mon 30DA AV/G	<	2.0 Reg Map DAILY MY	28 - ug/L	01/30 - Monthly	GR-G
01319	Manganese, potentially dissolvd	Gross	0		Req. Value				Neg Mon SUDA AVG			20 - ugrc 0	o noo - Monally	OIX-C
			_		NODI									
		1 - Effluent			Permit			<	2.0 Reg Map 20DA AV/G	<	2.0 Reg Map DAILX MX	28 - ug/L	01/30 - Monthly	GR - G
01322	Nickel, potentially dissolvd	Gross	0		Req.			_	Req Mon SODA AVG	_		20-09/2 0	01/30 - Monally	GR-G
					NODI			_						
		1 Effluent			Sample Permit			<	5.0 Bas Mas 2004 AVC	<	5.0	28 - ug/L	01/30 - Monthly	GR - G
01323	Selenium, potentially dissolvd	Gross	0		Req.				Red Mon 30DA AVG		Red won DAILT MA	28 - Ug/L 0	01/30 - Monthly	GR - G
			_		NODI			_						
					Sample	 		_				10	7707 0	00.0
03582	Oil and grease	1 - Effluent Gross	0		Req.	 		_		<=	TUU INST MAX	19 - mg/L	//// - Contingent	GR - G
					Value NODI						9 - Conditional Monitoring - Not Required This Period			
					Sample					<	20.0	28 - ug/L	01/30 - Monthly	GR - G
04262	Chromium, trivalent total	1 - Effluent	0		Permit Req.						Req Mon DAILY MX	28 - ug/L 0	01/30 - Monthly	GR - G
	recoverable	Gross			Value							-		
					Sample			=	0.08912	=	0.13061	03 -	99/99 - Continuous	RC - R
FORFE	Flow, in conduit or thru treatment	1 - Effluent	40		Permit	 			0.402.2004.41/0			MGD 03 -		(auto) RC - R
50050	plant	Gross	12		Req.			<=	0.103 30DA AVG		Red won DAILY MX	MGD 0	99/99 - Continuous	(auto)
					NODI									
					Sample			<	1.0			19 - mg/L	01/30 - Monthly	GR - G
51202	Suffide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0		Req.				Req Mon 30DA AVG			^{19 - mg/L} 0	01/30 - Monthly	GR - G
					NODI									
					Sample			-	0.2	<	0.2	28 - 110/	01/30 - Monthly	GR - G

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Table 6.3 DMR December 2022 (continued)

71000	Manager and the line	1 Effluent	0		Dec					k-	1 0 20DA AVG	k-	2 0 DAILY MY	29 unit 0	01/20 Monthly	
/ 1900	Mercury, total [as Hg]	Gross	0		Value					~-	1.0 SODA AVG	~-	2.0 DAILT MA	28 - úg/L 0	01/30 - Monuly	GR - GRAD
		-			NODI											
					Sample	=	0.0	AB - abst=0;prst=1							02/30 - Twice Per Month	VI - VISUAL
84066	Oil and grease visual	1 - Effluent	0		Permit		Req Mon INST	AB -						0	02/30 - Twice Per	VI - VISUAL
		Gross	-		Req.		MAX	abst=0;prst=1							Month	
					NODI											
Submis	sion Note															
f a para	meter row does not contain any value	ues for the Samp	ole nor Et	fluent Trad	ing, then none o	of the followin	g fields will be su	mitted for that	row: Units, Numb	er of Exc	ursions, Frequency of Ana	lysis, and Samp	le Type.			
Edit Ch	eck Errors															
No erroi	'S.															
Comme	nts															
Attachn	nents															
						Nom							Tuna		Pizz	
0000 40	Crease Casilian Missa Dassella di adf					Main	e						rype	4470474.0	0120	
2022_12	_CrossCaribouMine_Results_1.pdf												par	14/91/4.0		
2022_12	_CrossCaribouMine_Results_2.pdf												pdr	995519.0		
2022_12	_CrossCaribouMine_CoverLetter.pdf												pdf	190940.0		
Report	Last Saved By															
Grand I	sland Resources LLC															
User:			p	delaney@a	alexcoresource.	com										
Name:			F	atrick De	laney											
E-Mail:			P	delaney@t	blackfoxmining.c	com										
Date/Tir	ne:		2	023-01-27	17:23 (Time Z	Zone: -07:00)										
Report	Last Signed By															
User:			p	delaney@a	alexcoresource.	com										
Name:			F	atrick De	laney											
				delen eu Ol												
E-Mail:				delaneya	plackfoxmining.c	com										

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Appendices

APPENDIX A GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

APPENDIX A.1 OCTOBER 2022 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS



Built Environment Reservoirs

October 28, 2022

Subcontractor Number: Laboratory Report: Project #/P.O. #: Project Description:

RES 541058-1 221027123 Grand Island Resources

Jessi Lupfer Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City CO 80640

Dear Jessi,

Eurofins Reservoirs is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA LAP, LLC), Lab ID 101533 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Eurofins Reservoirs has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 541058-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Eurofins Reservoirs will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed, as received by the customer. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Eurofins Reservoirs Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

place by Alejandro Mejia

Jeanne Spencer President



EUROFINS RESERVOIRS ENVIRONMENTAL, INC

NVLAP Lab Code 101896-0 AIHA LAP, LLC. LAB ID 101533

TABLE: I ANALYSIS: TEM WATER SAMPLE ANALYTICAL RESULTS

RES Job Number:	RES 541058-1
Client:	Colorado Analytical Laboratories, Inc.
Client Project/P.O.:	221027123
Client Project Description:	Grand Island Resources
Date Samples Received:	October 28, 2022
Analysis Type:	REI TEM SOP / USEPA 100.2-M
Turnaround:	Standard 10
Date Samples Analyzed:	October 28, 2022

NA = Not Analyzed NR = Not Received ND = None Detected TR = Trace; <1 % Visual Estimate Trem-Act = Tremolite-Actinolite

Laboratory	Sample ID	Aliquot Deposited on Filter	Dilution Factor	Total Number of Asbestos Structures	Greater than 10 Micron Length Asbestos Structures	Analytical Sensitivity	Total Asbestos Concentration	Greater than 10 Micron Length Asbestos Concentration
	Client ID Number	(ml)		Detected	Detected	(million struct/L)	(million struct/L)	(million struct/L)
541058 -	221027123-01G Cross Portal	20	1	ND	ND	0.17	BAS	BAS
541058 -	221027123-02H Compliance Well	20	1	ND	ND	0.17	BAS	BAS
541058 -	221027123-03H Cross Well	20	1	ND	ND	0.17	BAS	BAS
541058 -	221027123-04G Caribou Portal	20	1	ND	ND	0.17	BAS	BAS
541058 -	221027123-05H Caribou Well	20	1	ND	ND	0.17	BAS	BAS
541058 -	221027123-06G Compliance Well - FB	20	1	ND	ND	0.17	BAS	BAS

Filter Material = Mixed Cellulose Ester

Filter Diameter = 25mm

Effective Filter Area = 0mm²

Average Grid Opening = 0.010mm²

Alejandro Mejia

Analyst



Built Environment Reservoirs

RES Job #: 541058

SUBMITTED BY		INVOICE TO	CONTACT INFORMATION	SERIES
Company: Colorado Analytical Labo	ratories, Inc.	Company: Colorado Analytical Laboratories, Inc.	Contact: Jessi Lupfer	-1 TEM Standard 10
Address: 10411 Heinz Way		Address: 10411 Heinz Way	Phone: (303) 659-2313	
			Fax:	
Commerce City, CO 80640)	Commerce City, CO 80640	Cell:	
Project Number and/or P.O. #:	221027123		Final Data Deliverable Email Address:	
Project Description/Location:	Grand Island Resources		jessilupfer@coloradolab.com (+ 6 ADDNL. CONTACTS)	

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm		REQUESTED ANALYSIS VALID MATRIX CODES						LAB NOTES					
PLM / PCM / TEM DTL RUSH PRIORITY STANDARD								Air =	A		Bulk = I	3	
				ġ, Ś	ria, Plate sr, +/-			Dust	= D	<u>.</u>	Food =	F	
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm				t,602 Liqui	Liste obic Wate			Paint	= P		Soil = S	5	
Dust RUSH PRIORITY STANDARD				7303 Non-	1-2), I, Ael Iking ID),			Surface	= SU		Swab = S	W	
*PRIOR NOTICE REQUIRED FOR SAME DAY TAT				etals i lid or an	ale or & Mc P-Drin			Таре	= T		Wipe = \	N	
Metals RUSH PRIORITY STANDARD				llti Me (Liqu s Sca	turak (east 'o/ID				Drinki	ng Wa	ter = DW		
), Mu), pH Metal	n (Cul Nater Nater P. NF				Wast	e Wate	er = WW		
Organics* SAME DAY RUSH PRIORITY STANDARD	32			Ware 25G Full I	aure aure ving \ di Cou	a opt	**	ASTM E	1792 a	prove	d wipe medi	a only**	
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm	3B4;			Food Can,	almo Brink robia	040	מומנם	()					
Viable Analysis** PRIORITY STANDARD	t, CAI			SHA SHA DSHA DSHA SHA SHA	Plater, Struck, Struck		airio	ar Alic					
**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH	eport	7		te Wa are, C g Fui	acill acill ate V /iable	3	- 1	Pa De					
Medical Device Analysis RUSH STANDARD	ng R	/HSC	e	Was odwa /eldin	cter, I colifo Colifo - (Sta vcid, V	, LAL		or An					
Mold Analysis RUSH PRIORITY STANDARD	port, Lc Water	400B,	espirat	/te(s) 2, 7420 ater, Fc Scan, V	Pyloba E.coli/(s/E.coli/ /- or Ou	burden		Width					
**Turnaround times establish a laboratory priority, subject to laboratory volume and are not	ort Re	0A, 7	tal, R	Anal) (7082 ste W 8A 8 8A 8	7:H7, forms (4 ion),	- Bio		(i)			σ	σ	
guaranteed. Additional fees apply for afterhours, weekends and holidays.**	Drir	- 740	- To	-UNAS Nas RCF	Coli Coli	CAL		Alion	e	ners	ecte 1/yy	ecte M	
Special Instructions:	PLM.	PCM	LSNO	META Lead (200.8, TCLP,	VIABL VIABL E.coli Count Quant	MEDI		oth(or.	rix Cod	Contai	ate Coll mm/dc	me Col hh:m	Laboratory Analysis Instructions
Client Sample ID Number (Sample ID's must be unique)	ASBEST	os	CI	IEMISTRY	MICROB	OLOGY	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Mai	# of	<u> </u>	F	
1 221027123-01G Cross Portal	X						1	L	W	1	10/27/22	11:30	
2 221027123-02H Compliance Well	X					III	1	L	W	1	10/27/22	12:30	
3 221027123-03H Cross Well	X						1	L	W	1	10/27/22	12:00	
4 221027123-04G Caribou Portal	X						1	L	W	1	10/27/22	13:00	
5 221027123-05H Caribou Well	X						1	L	W	1	10/27/22	14:00	
6 221027123-06G Compliance Well - FB	X						1	L	W	1	10/27/22	12:30	

EREI establishes a unique Lab Sample ID, for each sample, by preceding each unique Client Sample ID with the laboratory RES Job Number.

EREI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall consitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	0.98	Jessi Lupfer	Date/Time: 10/28/2022 9:13:08	Sample Condition: Acceptable
Received By:	A	Jessica Shapiro	Date/Time: 10/28/2022 10:45:17	Carrier: Fed-Ex
(303) 964-1986			5801 Logan St. Suite 100 Denver, CO 80216	www.reilat

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	AME
Primary Scope	JEM-100CX II	Sample Type	Water	Analysis Date	10/28/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	541058-1	Date Received	10/28/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221027123-01G Cross Portal	Method	EPA 100.2	Scope Align	10/28/2022
Suspension		Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
Α	F4-1	ND									
	F4-4	ND									
	G4-1	ND									
	G4-4	ND									
	H4-1	ND									
В	G4-3	ND									
	G4-6	ND									
	H4-3	ND									
	H4-6	ND									
	K4-3	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	AME
Primary Scope	JEM-100CX II	Sample Type	Water	Analysis Date	10/28/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	541058-1	Date Received	10/28/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221027123-02H Compliance Well	Method	EPA 100.2	Scope Align	10/28/2022
Suspension		Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
В	C6-1	ND									
	C6-4	ND									
	E6-1	ND									
	E6-4	ND									
	F6-1	ND									
	F6-4	ND									
	G6-1	ND									
Α	F3-3	ND									
	E3-3	ND									
	E3-6	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	AME
Primary Scope	JEM-100CX II	Sample Type	Water	Analysis Date	10/28/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	541058-1	Date Received	10/28/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221027123-03H Cross Well	Method	EPA 100.2	Scope Align	10/28/2022
Suspension		Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
A	F5-4	ND									
	G5-1	ND									
	G5-4	ND									
	H5-1	ND									
	H5-4	ND									
В	B3-1	ND									
	B3-4	ND									
	C3-1	ND									
	C3-4	ND									
	E3-1	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	AME
Primary Scope	JEM-100CX II	Sample Type	Water	Analysis Date	10/28/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	541058-1	Date Received	10/28/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221027123-04G Caribou Portal	Method	EPA 100.2	Scope Align	10/28/2022
Suspension		Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
В	C4-6	ND									
	E4-3	ND									
	E4-6	ND									
	F4-3	ND									
	F4-6	ND									
А	C4-1	ND									
	B4-4	ND									
	B4-1	ND									
	A4-4	ND									
	A4-1	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	AME
Primary Scope	JEM-100CX II	Sample Type	Water	Analysis Date	10/28/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	541058-1	Date Received	10/28/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221027123-05H Caribou Well	Method	EPA 100.2	Scope Align	10/28/2022
Suspension		Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
A	C3-1	ND									
	C3-4	ND									
	E3-1	ND									
	E3-4	ND									
	F3-1	ND									
В	G5-1	ND									
	G5-4	ND									
	H5-1	ND									
	H5-4	ND									
	K5-1	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	AME
Primary Scope	JEM-100CX II	Sample Type	Water	Analysis Date	10/28/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	541058-1	Date Received	10/28/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221027123-06G Compliance Well - FB	Method	EPA 100.2	Scope Align	10/28/2022
Suspension		Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
В	C4-4	ND									
	E4-1	ND									
	E4-4	ND									
	F4-1	ND									
	F4-4	ND									
А	E4-3	ND									
	E4-6	ND									
	F4-3	ND									
	F4-6	ND									
	G4-3	ND									



Analytical Results

TASK NO: 221027123

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Cross Portal Sample Date/Time: 10/27/22

11:30 AM

Lab Number: 221027123-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	97.3 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Calcium as CaCO3	60.4 mg/L	EPA 200.7	0.1 mg/L	10/31/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Langelier Index	-1.16 units	SM 2330-B	units	11/7/22	-	SAN
pН	6.85 units	SM 4500-H-B	0.01 units	10/27/22	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	10/27/22	-	AKF
Total Alkalinity	97.3 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/1/22	QC60709	TAB
Total Dissolved Solids	105 mg/L	SM 2540-C	5 mg/L	11/3/22	QC60734	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 11



Analytical Results

TASK NO: 221027123

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 10/27/22 12:30 PM Lab Number: 221027123-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	60.0 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Calcium as CaCO3	38.6 mg/L	EPA 200.7	0.1 mg/L	10/31/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Langelier Index	-2.04 units	SM 2330-B	units	11/7/22	-	SAN
рН	6.31 units	SM 4500-H-B	0.01 units	10/27/22	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	10/27/22	-	AKF
Total Alkalinity	60.0 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/1/22	QC60709	TAB
Total Dissolved Solids	79 mg/L	SM 2540-C	5 mg/L	11/3/22	QC60734	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 11



Analytical Results

TASK NO: 221027123

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample IDCross WellSample Date/Time:10/27/22

le Date/Time: 10/27/22 12:00 PM Lab Number: 221027123-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	62.0 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Calcium as CaCO3	40.4 mg/L	EPA 200.7	0.1 mg/L	10/31/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Langelier Index	-2.33 units	SM 2330-B	units	11/7/22	-	SAN
рН	5.98 units	SM 4500-H-B	0.01 units	10/27/22	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	10/27/22	-	AKF
Total Alkalinity	62.0 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/1/22	QC60709	TAB
Total Dissolved Solids	88 mg/L	SM 2540-C	5 mg/L	11/3/22	QC60734	DEK

Abbreviations/ References:

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 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

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Analytical Results

TASK NO: 221027123

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Caribou Portal Sample Date/Time: 10/27/22

De Date/Time: 10/27/22 1:00 PM **Lab Number:** 221027123-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	120.0 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Calcium as CaCO3	67.0 mg/L	EPA 200.7	0.1 mg/L	10/31/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Langelier Index	-0.61 units	SM 2330-B	units	11/7/22	-	SAN
рН	7.26 units	SM 4500-H-B	0.01 units	10/27/22	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	10/27/22	-	AKF
Total Alkalinity	120.0 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/1/22	QC60709	TAB
Total Dissolved Solids	135 mg/L	SM 2540-C	5 mg/L	11/3/22	QC60734	DEK

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 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

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Analytical Results

TASK NO: 221027123

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

 Customer Sample ID
 Caribou Well

 Sample Date/Time:
 10/27/22

 Die Date/Time:
 10/27/22
 2:00 PM

 Lab Number:
 221027123-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	19.2 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Calcium as CaCO3	9.6 mg/L	EPA 200.7	0.1 mg/L	10/31/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Langelier Index	-3.52 units	SM 2330-B	units	11/7/22	-	SAN
рН	5.92 units	SM 4500-H-B	0.01 units	10/27/22	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	10/27/22	-	AKF
Total Alkalinity	19.2 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/1/22	QC60709	TAB
Total Dissolved Solids	41 mg/L	SM 2540-C	5 mg/L	11/3/22	QC60734	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

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Analytical Results

TASK NO: 221027123

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Compliance Well - FB Sample Date/Time: 10/27/22 12:30 P

le Date/Time: 10/27/22 12:30 PM Lab Number: 221027123-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Calcium as CaCO3	0.2 mg/L	EPA 200.7	0.1 mg/L	10/31/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/1/22	-	TAB
Langelier Index	-7.09 units	SM 2330-B	units	11/7/22	-	SAN
pН	4.99 units	SM 4500-H-B	0.01 units	10/27/22	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	10/27/22	-	AKF
Total Alkalinity	ND	SM 2320-B	4.0 mg/L as CaCO3	11/1/22	QC60709	TAB
Total Dissolved Solids	ND	SM 2540-C	5 mg/L	11/3/22	QC60734	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 6 of 11



Analytical QC Summary

TASK NO: 221027123

Report To: Patrick Delaney **Company:** Grand Island Resources LLC Receive Date: 10/27/22 Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	
Total Alkalinity	QC60709	Blank	ND		SM 2320-B	
Total Dissolved Solids	QC60734	Blank	ND		SM 2540-C	
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Total Alkalinity	QC60709	Duplicate	0 - 20	-	0.8	SM 2320-B
		LCS	90 - 110	100.2	-	
		LCS-2	90 - 110	105.6	-	
Total Dissolved Solids	QC60734	Duplicate	0 - 20	-	0.3	SM 2540-C
		LCS	85 - 115	102.6	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 7 of 11

Chain of Custody Form

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Report To Information		Bill To Info	mation (If different f	om repo	ort to)	and a second	Projec	et Nar	ne / N	iumbo	er	a-sta D-stas					LABOR	ATORIES	S, INC
Company Name: Grand	Island Resource	🗲 Company N	ame: <u>Credit C</u>	ard				. <u></u>				[Com	marce	. City	/ I ah	
Contact Name: BCOOKe	Moran	_ Contact Nar	Contact Name:						·			_			<u>com</u> 1041 Com	1 Hein merco	nz Wa Dity	ay Ay CO:	80640
Address: 12567 W, Cedar	Dr	Address:	Address: T.				Task I (Lab U	Numb Jse Oi	oer nly)				Lakewood Service Center						
citylakewood state	0 zip80228	City	City State Zip				CAL Task					12860 W. Cedar Dr, Suite 100A Lakewood CO 80228							
Phone: 303-506-16	18	Phone:						22	2102	2712	3]	Phon	ie: 303	3-659	-2313	
Email: bmolsonme	g-emporia.edu	Email:	<u>. </u>					-			ł	ł		2	www	.color	adoli	ab.com	m
Sample Collector: Brook	e Moran								JMI	-				-					_
Sample Collector Phone: 30	3-506-1618	PO No.:	<u> </u>																
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Date Time	Sai	nple ID		ÿ.o.	Gra												<u> </u>		
10/27/2211:30 CR	OSS PORTA	AL		8	6				-						$ \rightarrow$		+	- +	
10/27/22 12:30 CO	MPLIANC	E WE		8	6					_					$ \rightarrow $				
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10/7/213:00 CA	RIBOU PR	DRITAL	·	8	6				_										
10/27/2214:00 CA	RIBOU W	EL_		8	6			_											
10/27/2212:30 CON	1PLIANCE	WELL-	-FB	8	G														
	<u> </u>	- <u></u>												_	_				
									_										
Instructions: FIELD FI	LTERED THE N	TRIC PRE	SERVED C/S Info:	 \			, !				Sea	ls Pre	sent Ye	s 🗆 N	lo 🗌				
CARIBOU WELL AL	LOTHER BOTTLES	ARE UNF	LTERED Deliver V	ia: -+{{)			C	/S [°] Cha	rge 🗋	Ter	np.	<u>5 °c/</u>	IceV	<u>e></u>	Sample	<u>Pres.</u> Y		io 🔲
Relinquished By: Da	te/Time: Received 27/27 1/D	By:	Date/Time:	Relinqu	uished	By:		Da	te/Ti	me:	R	eceiv	ved By	y:			Date	:/Time	:
- 40	T. II pro	<u> </u>	Le ci c' Page	<u>8 of 11</u>													L		

CAL Task	ĸ				
221027102	10-1-	. 1			
221021123		ado	Quotation for	Analytical Se	ervices
JML		ical	Quote ID:	OBO22050014	L
		ICQL			
		20, INC.			
Prepared	For: Grand Island	Resources LLC	Quote Date: V	Vednesday, Ma	y 4, 2022
	12567 W Cec	lar Dr	Tum Around Time: 1	0 Working Day	S
	Suite 250				
	Lakewood, Co	O 80228			
	Attn: Brooke Mols	on-Moran			
Distant				ŧ	
i iojeta.					
Monthly	Groundwater				
Matrix	Description	U criteri		Price - eac	h Total
	Coordipueli	meuros	-	eco 00	00 0003
Water - Ground	Langelier Index	N/A	5	\$60.00	9000.00
Water - Ground	Alkalinity	SM 2320-B	5	inci.	inci.
Water - Ground	Ca as CaCO3	EPA 200.7	5	inci.	Inci
Water - Ground	Carb/ Bicarb	SM 2320-B	о 5	inci.	Incl
Water - Ground	Lang Index	SM 2330-B	5	inci.	Incl
Water - Ground	pH/ Temp	SM 4500-H-B	5 £	inci	Incl
water - Ground	IDS	SM 2540-C	5 5	\$0.00	\$0.00
Water - Groundri	Nitrate/ Nitrite Nitroge		5	\$13.00	\$65.00
Water - Ground	B - UIS	EPA 200.7	5	\$13.00	\$65.00
Weter Ground		EPA 200.7	5	\$13.00	\$65.00
Water - Ground	Ca - Dis	EPA 200.7	5	\$13.00	\$65.00
Water - Ground	Fe - Dis Ao - Dis	EPA 200.1	5	\$16.00	\$80.00
Water - Ground	Ag - Dis	EPA 200.8	5	\$16.00	\$80.00
Motor - Ground	Al - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Al - Total	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	As - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Ba - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Be - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Cd - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Co - Dis	EPA 200.8	5	\$16.00	\$80.00
Water Ground	- Co - Total	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Cr - Dis	EPA 200.8	5	\$16.00	\$80.00
Weter - Ground	- Cu-Dis Yes test	EPA 200.8	5	\$16.00	\$80.00
Water-Ground	-Cu-Total	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Mn - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Mo - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	NI - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Pb - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Sb - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Se - Dis	EPA 200.8	5	\$16.00	\$80.00

Page 1 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

CAL Task					
221027123					
	(0)				
JML)	Quotation for	Analytical Se	vices
	HOOLUtical		Quote ID:	QBO22050014	
	· · · · · · · · · · · · · · · · · · ·				
	LABORATORIES, INC.				
Water - Ground	-Se - Total	FPA 700 B		A 46.60	A
Water - Ground	TI - Dis	EPA 200.0	5	\$15.00	\$80.00
Water - Ground	V - Dis	EDA 200.0	5	\$16.00	\$80.00
Water Ground			5	\$16.00	\$80.00
Water - Ground	Zn - Dis	EPA 200.0	5	\$16.00	\$80.00
Water - Ground		EFA 200.0	5	\$16.00	\$80.00
Water - Ground	Chloride	EPA 200.0	5	\$16.00	\$80.00
Water - Ground	Fluoride	EFA 300.0	5	\$18.00	\$90.00
Water - Ground	Nitrate Nitropen 15cs	EFA 300.0	5	\$18.00	\$90.00
Water - Ground	Nitrite Nitrogen	EPA 300.0	5	\$18.00	\$90.00 \$00.00
Water - Ground	Sulfate	EPA 300.0	0 F	\$10.00 \$40.00	\$90.00 \$90.00
Water - Ground		EFA 300.0	5	\$10.00	490.00 #115.00
Water - Ground	Ha Nuch Ty to OOM	ALEPA 200.0	. 5	\$23.GU #27.00	\$110.00 \$425.00
Water - Ground	Total Coliform	NEE A 240.1	0 F	\$27.00	\$ 130.00 \$495 00
Water - Ground	Cvanide - Free	4 JW 3221-0	5	927.00 \$10.00	\$100.00
Water - Ground	Phenois	FDA 4204-10	J 5	940.00 855.00	\$200.00 \$275 0/1
Water - Ground	Metals (Sub)	EPA 2007 EPA 200 7/EPA 200 8	5	\$67.20	\$336.00
Water - Ground	Gmss Alnha/Beta (Suh)	SM 7110.R	5	\$68.40	\$342.00
Water - Ground	Asbestos (Sub)	TFM	5	\$120.00	\$600.00
Water - Ground	625 SOCs	EPA 625	5	\$225.00	\$1,125,00
Shipping	Sample Shipment to Outside Lab	UPS	2	\$30.00	\$60.00
Shipping	Ext. Sample Shipment to Outside Lab	UPS or FedEx	1	\$50.00	\$50.00

Metals (sub) for dissolved lithium. Hg - dissolved. Quote revised 10/26 per customer's request.

\$6,383.00

"Samples should be shipped or hand delivered the same day they are collected."

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and collform bacteria.

Sub-Contract analysis pricing subject to change. Sub-Contract radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix. Due to time, distance and other constraints outside of the control of CAL shipments to sub labs are not guranteed. All shipment charges will be billed to the client regardless of shipment outcome.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-859-2313 or visit us at www.coloradolab.com

Page 2 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

Jessi Lupfer

To: Subject: Jennifer Kanmore RE: GIR Quote

From: Brooke Molson Moran <<u>bmolsonm@g.emporia.edu</u>> Sent: Monday, October 31, 2022 1:41 PM To: Jennifer Kanmore <<u>jenniferkanmore@coloradolab.com</u>> Subject: Re: GIR Quote

Hello Jennifer,

One request for the quote- may we please keep TR for silver (in addition to dissolved) and include it for last week's samples? With respect to our required duplicate and matrix spikes, can we please have those included for the Compliance Well and the Caribou Portal samples?

Also, I will continue to be the contact for our Monthly Groundwater Project, can we please add myself (<u>bmolsonm@g.emporia.edu</u>) and Sergio Rivera (<u>sergio.rivera@novametallix.com</u>) as the recipients of the analytical report? We will need the pdf and excel files, if available.

Happy Halloween!

Brooke Moran Grand Island Resources

On Fri, Oct 28, 2022 at 2:58 PM Jennifer Kanmore <<u>jenniferkanmore@coloradolab.com</u>> wrote:

Sounds good! Have a great weekend as well!

Thanks,

Jennifer Kanmore

Project Manager

Colorado Analytical Laboratories

10411 Heinz Way

Commerce City, CO 80640

P: 303-659-2313 Ext. 607



ANALYTICAL SUMMARY REPORT

November 15, 2022

Colorado Analytical Laboratories Inc

PO Box 507 Brighton, CO 80601-0507

Work Order: C22110023 Quote ID: C15681

Project Name: 221027123 Monthly Groundwater

Energy Laboratories, Inc. Casper WY received the following 6 samples for Colorado Analytical Laboratories Inc on 11/1/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C22110023-001	221027123-01F - Cross Portal	10/27/22 11:30) 11/01/22	Groundwater	Metals by ICP/ICPMS, Dissolved Sample Filtering, Metals
C22110023-002	221027123-02G - Compliance Well	10/27/22 12:30	0 11/01/22	Groundwater	Same As Above
C22110023-003	221027123-03G - Cross Well	10/27/22 12:00	0 11/01/22	Groundwater	Same As Above
C22110023-004	221027123-04F - Caribou Portal	10/27/22 13:00	0 11/01/22	Groundwater	Same As Above
C22110023-005	221027123-05G - Caribou Well	10/27/22 14:00	0 11/01/22	Groundwater	Same As Above
C22110023-006	221027123-06F - Compliance Well - FB	10/27/22 12:30	0 11/01/22	Groundwater	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:

FNFRGY	Tru
LABORATORIES	WW

C22110023

CLIENT:

Project:

Work Order:

Colorado Analytical Laboratories Inc

221027123 Monthly Groundwater

Report Date: 11/15/22

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



Prepared by Casper, WY Branch

Colorado Analytical Laboratories Inc	Report Date:	11/15/22
221027123 Monthly Groundwater	Collection Date:	10/27/22 11:30
C22110023-001	DateReceived:	11/01/22
221027123-01F - Cross Portal	Matrix:	Groundwater
	Colorado Analytical Laboratories Inc 221027123 Monthly Groundwater C22110023-001 221027123-01F - Cross Portal	Colorado Analytical Laboratories IncReport Date:221027123 Monthly GroundwaterCollection Date:C22110023-001DateReceived:221027123-01F - Cross PortalMatrix:

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND	mg/L	L	0.05		E200.7	11/04/22 17:45 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	11/15/22
Project:	221027123 Monthly Groundwater	Collection Date:	10/27/22 12:30
Lab ID:	C22110023-002	DateReceived:	11/01/22
Client Sample ID:	221027123-02G - Compliance Well	Matrix:	Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND	mg/L	L	0.05		E200.7	11/04/22 17:58 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Colorado Analytical Laboratories Inc	Report Date:	11/15/22
221027123 Monthly Groundwater	Collection Date:	10/27/22 12:00
C22110023-003	DateReceived:	11/01/22
221027123-03G - Cross Well	Matrix:	Groundwater
	Colorado Analytical Laboratories Inc 221027123 Monthly Groundwater C22110023-003 221027123-03G - Cross Well	Colorado Analytical Laboratories IncReport Date:221027123 Monthly GroundwaterCollection Date:C22110023-003DateReceived:221027123-03G - Cross WellMatrix:

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND	mg/L	L	0.05		E200.7	11/04/22 18:11 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	11/15/22
Project:	221027123 Monthly Groundwater	Collection Date:	10/27/22 13:00
Lab ID:	C22110023-004	DateReceived:	11/01/22
Client Sample ID:	221027123-04F - Caribou Portal	Matrix:	Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.05	E200.7	11/04/22 18:15 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Colorado Analytical Laboratories Inc	Report Date:	11/15/22
221027123 Monthly Groundwater	Collection Date:	10/27/22 14:00
C22110023-005	DateReceived:	11/01/22
221027123-05G - Caribou Well	Matrix:	Groundwater
	Colorado Analytical Laboratories Inc 221027123 Monthly Groundwater C22110023-005 221027123-05G - Caribou Well	Colorado Analytical Laboratories IncReport Date:221027123 Monthly GroundwaterCollection Date:C22110023-005DateReceived:221027123-05G - Caribou WellMatrix:

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND	mg/L	L	0.05		E200.7	11/04/22 18:19 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	11/15/22
Project:	221027123 Monthly Groundwater	Collection Date:	10/27/22 12:30
Lab ID:	C22110023-006	DateReceived:	11/01/22
Client Sample ID:	221027123-06F - Compliance Well - FB	Matrix:	Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.05	E200.7	11/04/22 18:24 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	Colorado Analytical L	aborator	ies Inc		Work Order:	C2211	10023	Repo	ort Date:	11/09/22	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.7							Anal	ytical Ru	n: ICP203-B_	_221104A
Lab ID:	ICV	Co	ntinuing Cal	ibration V	erification Standa	rd				11/04/	/22 11:32
Lithium			1.25	mg/L	0.10	100	95	105			
Lab ID:	CCV	Co	ntinuing Cal	ibration V	erification Standa	rd				11/04	/22 16:42
Lithium			1.29	mg/L	0.10	103	90	110			
Lab ID:	CCV	Co	ntinuing Cal	ibration V	erification Standa	rd				11/04	/22 17:50
Lithium			1.30	mg/L	0.10	104	90	110			
Method:	E200.7									Batch:	R390833
Lab ID:	MB-6500DIS221104A	Me	thod Blank				Run: ICP20	3-B_221104A		11/04	/22 11:56
Lithium			ND	mg/L	0.01						
Lab ID:	LFB-6500DIS221104	A Lat	ooratory For	tified Blan	ık		Run: ICP20)3-B_221104A		11/04	/22 12:00
Lithium			0.995	mg/L	0.10	99	85	115			
Lab ID:	MB-172196	Me	thod Blank				Run: ICP20)3-B_221104A		11/04	/22 17:36
Lithium			ND	mg/L	0.01						
Lab ID:	C22110023-002AMS2	2 Sa	mple Matrix	Spike			Run: ICP20)3-B_221104A		11/04	/22 18:02
Lithium			1.02	mg/L	0.10	102	70	130			
Lab ID:	C22110023-002AMSI	D Sa	mple Matrix	Spike Du	plicate		Run: ICP20)3-B_221104A		11/04	/22 18:07
Lithium			1.04	mg/L	0.10	104	70	130	1.5	20	



C22110023

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

Login completed by: Kirsten L. Smith		Date Received: 11/1/2022					
Reviewed by: cjohnson		Received by: cch					
Reviewed Date: 11/2/2022		Carrier name: FedEx					
Shipping container/cooler in good condition?		Yes 🗹	No 🗌	Not Present			
Custody seals intact on all shipping container(s)/cooler(s)?		Yes	No 🗌	Not Present 🗹			
Custody seals intact on all sample bottles?		Yes	No 🗌	Not Present 🗹			
Chain of custody present?		Yes 🗹	No 🗌				
Chain of custody signed when relinquished and received?		Yes 🗹	No 🗌				
Chain of custody agrees with sample labels?		Yes 🗹	No 🗌				
Samples in proper container/	'bottle?	Yes 🗹	No 🗌				
Sample containers intact?		Yes 🗹	No 🗌				
Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌				
All samples received within h (Exclude analyses that are consuch as pH, DO, Res Cl, Su	olding time? onsidered field parameters lfite, Ferrous Iron, etc.)	Yes 🗸	No 🗌				
Temp Blank received in all sl	nipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable			
Container/Temp Blank tempe	erature:	2.6°C On Ice					
Containers requiring zero hea bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted			
Water - pH acceptable upon	receipt?	Yes	No 🗹	Not Applicable			

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

Dissolved Metals/Hardness were filtered and preserved to pH <2 with 2 mL of nitric acid per 250 mL in the laboratory. According to 40CFR136, samples for Dissolved Metals should be filtered and preserved within 15 minutes of collection. 11/1/2022-KS

,	Ship
	To:
	Energy
	Labs




Hazen Research, Inc. 4601 Indiana Street Golden, CO 80403 USA Tel: (303) 279-4501 Fax: (303) 278-1528

Customer ID: 20040H Account ID: Z01034 Lab Control ID: 22M03070 Received: Oct 31, 2022 Reported: Nov 23, 2022 Purchase Order No. None Received

Stuart Nielson Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City, CO 80640

ANALYTICAL REPORT

Report may only be copied in its entirety. Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

. Iwa By: Nan

Roxanne Sullivan Analytical Laboratories Director



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03070-001					
Customer Sample II			221027123-0	1E - Month	ly Ground V	Vater - Cross Portal		
			sampled on 10/27/22 @ 1130					
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	1.6	1.3	0.1	SM 7110 B	11/18/22 @ 0833	RG
Gross Beta	pCi/L	Т	<3.0	2.2	3.0	SM 7110 B	11/18/22 @ 0833	RG

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03070-002					
Customer Sample II			221027123-0	D2F - Month	ly Ground V	Vater - Compliance Well		
				sampled on 10/27/22 @ 1230				
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.2	0.7	0.1	SM 7110 B	11/18/22 @ 0835	RG
Gross Beta	pCi/L	Т	<3.0	2.3	3.0	SM 7110 B	11/18/22 @ 0835	RG

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	nple ID	22M03070-003						
Customer Sample ID 221027123-03F - Monthly Ground Water - Cross Well									
				sampled on 10/27/22 @ 1200					
				Precision*	Detection		Analysis		
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	<0.1	0.8	0.1	SM 7110 B	11/18/22 @ 0837	RG	
Gross Beta	pCi/L	Т	<3.0	2.3	3.0	SM 7110 B	11/18/22 @ 0837	RG	

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03070-004					
Customer Sample II			221027123-0	04E - Month	ly Ground V	Vater - Caribou Portal		
				sampled on 10/27/22 @ 1300				
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	4.0	1.9	0.1	SM 7110 B	11/18/22 @ 0839	RG
Gross Beta	pCi/L	Т	<2.9	2.4	2.9	SM 7110 B	11/18/22 @ 0839	RG

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03070-005					
Customer Sample II			221027123-0	5F - Monthl	y Ground V	Vater - Caribou Well		
				sampled on 10/27/22 @ 1400				
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.3	0.8	0.1	SM 7110 B	11/18/22 @ 0841	RG
Gross Beta	pCi/L	Т	<2.8	2.1	2.8	SM 7110 B	11/18/22 @ 0841	RG

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03070-006					
Customer Sample II			221027123-0	6E - Month	ly Ground V	Vater - Compliance Well -	FB	
			sampled on 10/27/22 @ 1230					
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.4	0.8	0.1	SM 7110 B	11/18/22 @ 0843	RG
Gross Beta	pCi/L	Т	<2.9	2.0	2.9	SM 7110 B	11/18/22 @ 0843	RG

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

Date: 11/18/2022

Batch QC Summary Form

Analyte: Gross Alpha				
Control Standard/LFB:	ID: C-11a_002	pCi/mL:	57.4	(use 1 diluted)
Spike Solution:	ID: C-11a_002	pCi/mL:	57.4	(use 1 mL)
Spike Recovery Calculation:	Sample: T	ap*		

Calculation:	(45.7)	(1.000)	-	(0.2)	(0.200)	x 100 =	80%
			57.4				

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	X		
Spike Recovery	70 - 130 %	X		
Blank	< or = 3 x Uncertainty	X		
Duplicate 1	95% confidence interval overlap	X		
Duplicate 2 *	95% confidence interval overlap	X		

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M03067	
22M03068	
22M03072	
22M03070	
22M03080	Evaluator:
22M03106	
22M03107	Minholle Chaines
22M03108	muchale Stringer
	V
	 11/22/2022

Date

HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

Date: 11/18/2022

Batch QC Summary Form

Analyte:	Gross Beta							
Control S	Standard/LFB:	ID: (C-11a_002	pCi/mL:	44	(use 1 diluted)		
<u>Spike So</u>	lution:	ID: (C-11a_002	pCi/mL:	44	(use 1 mL)		
<u>Spike Re</u>	covery Calculation	<u>ı:</u>	Sample: T	ap*				
	Calculation:	(38.7)	(1.000)	-	(0.0)	(0.200)	x 100 =	88%

44

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap	Х		

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M03067	
22M03068	
22M03072	
22M03070	
22M03080	 <u>Evaluator:</u>
22M03106	
22M03107	 Minhalla Chainean
22M03108	 muchace Stringer
	 V
	 11/22/2022
	Date

Colorado Analytical	WING CONTRACTOR AND
C.	

LABORATORIES, INC.			Date I lessiveu. N/H	
Report To Information	Bill To Information (If different from report to)		Project Name	
Company Name: <u>Colorado Analytical Laboratory</u> Report To: <u>Stuart Nielson</u>			Monthly Groundwater	
E-Mail: stuartnielson@coloradolab.com				
Address:	Address:	CAL TASK	Compliance Samples: Yes No 🗸	
10411 Heinz Way		221027123	Submit Data to CDPHE: Yes No 🗸	
Commerce City, CO 80640		JML		
Phone: <u>303-659-2313</u>				
		Tests Red	uested	

				Alpha/Beta (S			
Sample Da	tte/Time	Sample ID	Matrix	ub)			 Container Type
10/27/22	11:30 AN	M 221027123-01E - Cross Portal	Water - Ground				 1L - Unpreserved
10/27/22	12:30 PN	<pre>d 221027123-02F - Complaince Well</pre>	Water - Ground				 1L - Unpreserved
10/27/22	12:00 PN	M 221027123-03F - Cross Well	Water - Ground				 1L - Unpreserved
10/27/22	1:00 PN	M 221027123-04E - Caribou Portal	Water - Ground				 1L - Unpreserved
10/27/22	2:00 PN	M 221027123-05F - Caribou Well	Water - Ground	×		 	 1L - Unpreserved
10/27/22	12:30 PN	vi 221027123-06E - Complaince Well - FB	Water - Ground	X			1L - Unpreserved
Comment:				-			

Gross





TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID Cross Portal

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Sample Date/Time:	10/27/22 11:30 AM					
Lab Number:	221027123-01					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.41 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60646	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	10/28/22	QC60657	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	10/27/22	QC60647	MLT
Nitrate Nitrogen	0.14 mg/L	EPA 300.0	0.05 mg/L	10/27/22	QC60648	MLT
Nitrate/ Nitrite Nitrogen	0.14 mg/L	Calculation	0.05 mg/L	10/28/22	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	10/27/22	QC60649	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	11/4/22	QC60817	DPL
Sulfate	10.81 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60650	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	10/28/22	-	AKF
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg/L	11/1/22	QC60689	MLT
Aluminum	0.004 mg/L	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/1/22	QC60700	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/1/22	QC60700	MBN
Barium	0.0702 mg/L	EPA 200.8	0.0007 mg/L	11/1/22	QC60700	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Cadmium	0.0011 mg/L	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/1/22	QC60700	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Copper	0.0026 mg/L	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Lead	0.0025 mg/L	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Manganese	0.0149 mg/L	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Molybdenum	0.0073 mg/L	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 19



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Cross Portal Sample Date/Time: 10/27/22 11:30 AM

Lab Number: 221027123-01

	21027120 01					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Nickel	ND	EPA 200.8	0.0009 mg/L	11/1/22	QC60700	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Uranium	0.0009 mg/L	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Zinc	0.217 mg/L	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Boron	0.02 mg/L	EPA 200.7	0.01 mg/L	10/31/22	QC60678	MAT
Calcium	24.2 mg/L	EPA 200.7	0.1 mg/L	10/31/22	QC60678	MAT
Iron	0.028 mg/L	EPA 200.7	0.005 mg/L	10/31/22	QC60678	MAT
Total Recoverable						
Silver	ND	EPA 200.8	0.0005 mg/L	11/2/22	QC60745	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID Compliance Well Sample Date/Time: 10/27/22

12:30 PM

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Lab Number: 221027123-02					
Test Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride 2.86 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60646	MLT
Cyanide-Free ND	ASTM D4282-15	0.005 mg/L	10/28/22	QC60657	DPL
Fluoride ND	EPA 300.0	0.10 mg/L	10/27/22	QC60647	MLT
Nitrate Nitrogen 0.30 mg/L	EPA 300.0	0.05 mg/L	10/27/22	QC60648	MLT
Nitrate/ Nitrite Nitrogen 0.30 mg/L	Calculation	0.05 mg/L	10/28/22	-	AMJ
Nitrite Nitrogen ND	EPA 300.0	0.03 mg/L	10/27/22	QC60649	MLT
Phenols - Total ND	EPA 420.4	15.0 ug/L	11/4/22	QC60817	DPL
Sulfate 9.27 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60650	MLT
Total Coliform ND	SM 9221-B	1 mpn/100ml	10/28/22	-	AKF
Dissolved					
Mercury ND	EPA 245.7	0.0002 mg/L	11/1/22	QC60689	MLT
Aluminum ND	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Antimony ND	EPA 200.8	0.0012 mg/L	11/1/22	QC60700	MBN
Arsenic ND	EPA 200.8	0.0006 mg/L	11/1/22	QC60700	MBN
Barium 0.0382 mg/L	EPA 200.8	0.0007 mg/L	11/1/22	QC60700	MBN
Beryllium ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Cadmium ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Chromium ND	EPA 200.8	0.0015 mg/L	11/1/22	QC60700	MBN
Cobalt 0.0002 mg/L	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Copper ND	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Lead 0.0002 mg/L	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Manganese 0.0092 mg/L	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Molybdenum 0.0042 mg/L	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 3 of 19



QC Batch ID

QC60700

QC60700

Analyzed By

MBN

MBN

TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater

Customer Sample ID Compliance Well

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Date Analyzed

11/1/22

11/1/22

10/27/22 12:30 PM 221027123-02		
Result	Method	RL
ND	EPA 200.8	0.0009 mg/L
ND	EPA 200.8	0.0008 mg/L
ND	EPA 200.8	0.0005 mg/L
ND	EPA 200.8	0.0002 mg/L
	10/27/22 12:30 PM 221027123-02 Result ND ND ND ND	10/27/22 12:30 PM 221027123-02 Result Method ND EPA 200.8 ND EPA 200.8 ND EPA 200.8 ND EPA 200.8 ND EPA 200.8

				-			
Silver	ND	EPA 200.8	0.0005	mg/L	11/1/22	QC60700	MBN
Thallium	ND	EPA 200.8	0.0002	mg/L	11/1/22	QC60700	MBN
Uranium	ND	EPA 200.8	0.0002	mg/L	11/1/22	QC60700	MBN
Vanadium	ND	EPA 200.8	0.001	mg/L	11/1/22	QC60700	MBN
Zinc	0.080 mg/L	EPA 200.8	0.001	mg/L	11/1/22	QC60700	MBN
Boron	ND	EPA 200.7	0.01	mg/L	10/31/22	QC60678	MAT
Calcium	15.6 mg/L	EPA 200.7	0.1	mg/L	10/31/22	QC60678	MAT
Iron	0.005 mg/L	EPA 200.7	0.005	mg/L	10/31/22	QC60678	MAT
Total Recoverable							
Silver	ND	EPA 200.8	0.0005	ma/L	11/2/22	QC60745	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID Cross Well

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Sample Date/Time:	10/27/22 12:00 PM					
Lab Number:	221027123-03					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	3.15 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60646	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	10/28/22	QC60657	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	10/27/22	QC60647	MLT
Nitrate Nitrogen	0.25 mg/L	EPA 300.0	0.05 mg/L	10/27/22	QC60648	MLT
Nitrate/ Nitrite Nitrogen	0.25 mg/L	Calculation	0.05 mg/L	10/28/22	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	10/27/22	QC60649	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	11/4/22	QC60817	DPL
Sulfate	9.29 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60650	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	10/28/22	-	AKF
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg/L	11/1/22	QC60689	MLT
Aluminum	ND	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/1/22	QC60700	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/1/22	QC60700	MBN
Barium	0.0275 mg/L	EPA 200.8	0.0007 mg/L	11/1/22	QC60700	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/1/22	QC60700	MBN
Cobalt	0.0002 mg/L	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Copper	0.0070 mg/L	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Lead	0.0006 mg/L	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Manganese	0.0010 mg/L	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Molybdenum	0.0006 mg/L	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 5 of 19



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater

Customer Sample ID Cross Well Sample Date/Time: 10/27/22

12:00 PM

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Lab Number:	221027123-03						
Test	Result	Method	RL		Date Analyzed	QC Batch ID	Analyzed
<u>Dissolved</u>							
Nickel	ND	EPA 200.8	0.0009	mg/L	11/1/22	QC60700	MBN
Selenium	ND	EPA 200.8	0.0008	mg/L	11/1/22	QC60700	MBN
Silver	ND	EPA 200.8	0.0005	mg/L	11/1/22	QC60700	MBN
Thallium	ND	EPA 200.8	0.0002	mg/L	11/1/22	QC60700	MBN
Uranium	ND	EPA 200.8	0.0002	mg/L	11/1/22	QC60700	MBN
Vanadium	ND	EPA 200.8	0.001	mg/L	11/1/22	QC60700	MBN
Zinc	1.25 mg/L	EPA 200.8	0.001	mg/L	11/1/22	QC60700	MBN
Boron	ND	EPA 200.7	0.01	mg/L	10/31/22	QC60678	MAT
Calcium	16.2 mg/L	EPA 200.7	0.1	mg/L	10/31/22	QC60678	MAT
Iron	ND	EPA 200.7	0.005	mg/L	10/31/22	QC60678	MAT
Total Recoverable							
Silver	ND	EPA 200.8	0.0005	mg/L	11/2/22	QC60745	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

Ву



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID Caribou Portal

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Sample Date/Time: 2	10/27/22 1:00 PM 221027123-04					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
			·			
Chloride	0.49 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60646	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	10/28/22	QC60657	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	10/27/22	QC60647	MLT
Nitrate Nitrogen	0.20 mg/L	EPA 300.0	0.05 mg/L	10/27/22	QC60648	MLT
Nitrate/ Nitrite Nitrogen	0.20 mg/L	Calculation	0.05 mg/L	10/28/22	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	10/27/22	QC60649	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	11/4/22	QC60817	DPL
Sulfate	10.58 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60650	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	10/28/22	-	AKF
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/L	11/1/22	QC60689	MLT
Aluminum	0.004 mg/L	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/1/22	QC60700	MBN
Arsenic	0.0007 mg/L	EPA 200.8	0.0006 mg/L	11/1/22	QC60700	MBN
Barium	0.0529 mg/L	EPA 200.8	0.0007 mg/L	11/1/22	QC60700	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/1/22	QC60700	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Lead	0.0018 mg/L	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Manganese	0.0020 mg/L	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Molybdenum	0.0067 mg/L	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 7 of 19



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Caribou Portal Sample Date/Time: 10/27/22 1:00 PM

Eab Number. 2	21021120 04					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Nickel	ND	EPA 200.8	0.0009 mg/L	11/1/22	QC60700	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Uranium	0.0059 mg/L	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Zinc	0.010 mg/L	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Boron	ND	EPA 200.7	0.01 mg/L	10/31/22	QC60678	MAT
Calcium	26.8 mg/L	EPA 200.7	0.1 mg/L	10/31/22	QC60678	MAT
Iron	0.069 mg/L	EPA 200.7	0.005 mg/L	10/31/22	QC60678	MAT
Total Recoverable						
Silver	ND	EPA 200.8	0.0005 mg/L	11/2/22	QC60745	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID Caribou Well

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Sample Date/Time:	10/27/22 2:00 PM					
Lab Number:	221027123-05					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.41 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60646	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	10/28/22	QC60657	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	10/27/22	QC60647	MLT
Nitrate Nitrogen	0.12 mg/L	EPA 300.0	0.05 mg/L	10/27/22	QC60648	MLT
Nitrate/ Nitrite Nitrogen	0.12 mg/L	Calculation	0.05 mg/L	10/28/22	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	10/27/22	QC60649	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	11/4/22	QC60817	DPL
Sulfate	2.66 mg/L	EPA 300.0	0.01 mg/L	10/27/22	QC60650	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	10/28/22	-	AKF
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg/L	11/1/22	QC60689	MLT
Aluminum	0.003 mg/L	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/1/22	QC60700	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/1/22	QC60700	MBN
Barium	0.0057 mg/L	EPA 200.8	0.0007 mg/L	11/1/22	QC60700	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/1/22	QC60700	MBN
Cobalt	0.0003 mg/L	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Copper	0.4407 mg/L	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Lead	0.0004 mg/L	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 9 of 19



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Caribou Well
Sample Date/Time: 10/27/22 2:00 PM
Lab Number: 221027123-05

	21021120 00					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Nickel	ND	EPA 200.8	0.0009 mg/L	11/1/22	QC60700	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Zinc	0.005 mg/L	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Boron	ND	EPA 200.7	0.01 mg/L	10/31/22	QC60678	MAT
Calcium	3.9 mg/L	EPA 200.7	0.1 mg/L	10/31/22	QC60678	MAT
Iron	ND	EPA 200.7	0.005 mg/L	10/31/22	QC60678	MAT
Total Recoverable						
Silver	ND	EPA 200.8	0.0005 mg/L	11/2/22	QC60745	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID Compliance Well - FB

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Sample Date/Time:	10/27/22 12:30 PM					
Lab Number:	221027123-06					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	ND	EPA 300.0	0.01 mg/L	10/28/22	QC60646	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	10/28/22	QC60657	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	10/28/22	QC60647	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.05 mg/L	10/28/22	QC60648	MLT
Nitrate/ Nitrite Nitrogen	ND	Calculation	0.05 mg/L	10/28/22	-	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	10/28/22	QC60649	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	11/4/22	QC60817	DPL
Sulfate	ND	EPA 300.0	0.01 mg/L	10/28/22	QC60650	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	10/28/22	-	AKF
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/L	11/1/22	QC60689	MLT
Aluminum	ND	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/1/22	QC60700	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/1/22	QC60700	MBN
Barium	ND	EPA 200.8	0.0007 mg/L	11/1/22	QC60700	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/1/22	QC60700	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Lead	ND	EPA 200.8	0.0001 mg/L	11/1/22	QC60700	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

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TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID	Compliance Well - FB				
Sample Date/Time:	10/27/22	12:30 PM			

Lab Number: 221027123-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Nickel	ND	EPA 200.8	0.0009 mg/L	11/1/22	QC60700	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	11/1/22	QC60700	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	11/1/22	QC60700	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	11/1/22	QC60700	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Zinc	ND	EPA 200.8	0.001 mg/L	11/1/22	QC60700	MBN
Boron	ND	EPA 200.7	0.01 mg/L	10/31/22	QC60678	MAT
Calcium	ND	EPA 200.7	0.1 mg/L	10/31/22	QC60678	MAT
Iron	ND	EPA 200.7	0.005 mg/L	10/31/22	QC60678	MAT
Total Recoverable						
Silver	ND	EPA 200.8	0.0005 mg/L	11/2/22	QC60745	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.



Company: Grand Island Resources LLC

Report To: Patrick Delaney

LABORATORIES, INC.

Analytical QC Summary

TASK NO: 221027123

Receive Date: 10/27/22 Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	
Chloride	QC60646	Blank	ND		EPA 300.0	
Cyanide-Free	QC60657	Blank	ND	AS	STM D4282-15	
Fluoride	QC60647	Blank	ND		EPA 300.0	
Vercury	QC60689	Method Blank	ND		EPA 245.7	
Aluminum	QC60700	Method Blank	ND		EPA 200.8	
Antimony	QC60700	Method Blank	ND			
Arsenic	QC60700	Method Blank	ND		EPA 200.8	
Barium	QC60700	Method Blank	ND		EPA 200.8	
Beryllium	QC60700	Method Blank	ND		EPA 200.8	
Cadmium	QC60700	Method Blank	ND		EPA 200.8	
Chromium	QC60700	Method Blank	ND		EPA 200.8	
Cobalt	QC60700	Method Blank	ND		EPA 200.8	
Copper	QC60700	Method Blank	ND		EPA 200.8	
.ead	QC60700	Method Blank	ND		EPA 200.8	
Manganese	QC60700	Method Blank	ND		EPA 200.8	
/lolybdenum	QC60700	Method Blank	ND		EPA 200.8	
lickel	QC60700	Method Blank	ND		EPA 200.8	
Selenium	QC60700	Method Blank	ND			
Silver	QC60700	Method Blank	ND		EPA 200.8	
	QC60745	Method Blank	ND		EPA 200.8	
hallium	QC60700	Method Blank	ND		EPA 200.8	
Jranium	QC60700	Method Blank	ND		EPA 200.8	
/anadium	QC60700	Method Blank	ND		EPA 200.8	
linc	QC60700	Method Blank	ND		EPA 200.8	
Boron	QC60678	Method Blank	ND		EPA 200.7	
Calcium	QC60678	Method Blank	ND		EPA 200.7	
ron	QC60678	Method Blank	ND		EPA 200.7	
litrate Nitrogen	QC60648	Blank	ND		EPA 300.0	
Nitrite Nitrogen	QC60649	Blank	ND		EPA 300.0	
Phenols - Total	QC60817	Blank	ND		EPA 420.4	
Sulfate	QC60650	Blank	ND		EPA 300.0	
est	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC60646	Duplicate	0 - 20	-	8.6	EPA 300.0
		LCS	90 - 110	99.6	-	
		MS	75 - 125	93.7	-	
Cyanide-Free	QC60657	Duplicate	0 - 20	-	6.5	ASTM D4282-
		LCS	90 - 110	96.6	-	
		MS	75 - 125	124.5	-	
		MSD	0 - 30	-	1.6	
Fluoride	QC60647	Duplicate	0 - 20	-	0.0	EPA 300.0

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(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

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Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
		MS	75 - 125	91.0		
Mercury	QC60689	Duplicate	0 - 20	-	0.0	EPA 245.7
		LCS	90 - 110	103.8	-	
		MS	80 - 120	98.0	-	
Aluminum	QC60700	LCS	90 - 110	95.0	-	EPA 200.8
		MS	70 - 130	112.8	-	
		MSD	0 - 10	-	7.2	
Antimony	QC60700	LCS	90 - 110	103.5	-	EPA 200.8
		MS	70 - 130	103.8	-	
		MSD	0 - 10	-	0.5	
Arsenic	QC60700	LCS	90 - 110	102.3	-	EPA 200.8
		MS	70 - 130	111.0	-	
		MSD	0 - 10	-	3.0	
Barium	QC60700	LCS	90 - 110	98.9	-	EPA 200.8
		MS	70 - 130	101.5	-	
		MSD	0 - 10	-	0.8	
Beryllium	QC60700	LCS	90 - 110	94.5	-	EPA 200.8
		MS	70 - 130	108.7	-	
		MSD	0 - 10	-	1.0	
Cadmium	QC60700	LCS	90 - 110	97.2	-	EPA 200.8
		MS	70 - 130	102.9	-	
		MSD	0 - 10	-	2.3	
Chromium	QC60700	LCS	90 - 110	102.2	-	EPA 200.8
		MS	70 - 130	103.5	-	
		MSD	0 - 10	-	2.2	
Cobalt	QC60700	LCS	90 - 110	104.8	-	EPA 200.8
		MS	70 - 130	101.6	-	
		MSD	0 - 10	-	2.4	
Copper	QC60700	LCS	90 - 110	104.6	-	EPA 200.8
		MS	70 - 130	101.2	-	
		MSD	0 - 10	-	0.9	
Lead	QC60700	LCS	90 - 110	91.6	-	EPA 200.8
		MS	70 - 130	90.3	-	
		MSD	0 - 10	-	2.0	
Manganese	QC60700	LCS	90 - 110	107.0	-	EPA 200.8
		MS	70 - 130	96.6	-	
		MSD	0 - 10	-	1.6	
Molybdenum	QC60700	LCS	90 - 110	98.9	-	EPA 200.8
		MS	70 - 130	97.1	-	
		MSD	0 - 10	-	1.3	
Nickel	QC60700	LCS	90 - 110	103.4	-	EPA 200.8
		MS	70 - 130	102.3	-	
		MSD	0 - 10	-	3.8	
Selenium	QC60700	LCS	90 - 110	102.1	-	EPA 200.8
		MS	70 - 130	116.8	-	
		MSD	0 - 10	-	1.2	
Silver	QC60745	LCS	90 - 110	90.2	-	EPA 200.8
	QC60700	LCS	90 - 110	93.8	-	
		MS	70 - 130	79.3	-	
	QC60745	MS	70 - 130	91.7	-	
		MSD	0 - 10	-	0.4	

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(d) RPD acceptable due to low duplicate and sample concentrations.

(a) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
	QC60700	MSD	0 - 10	-	2.8	
Thallium	QC60700	LCS	90 - 110	95.5	-	EPA 200.8
		MS	70 - 130	93.0	-	
		MSD	0 - 10	-	1.6	
Uranium	QC60700	LCS	90 - 110	95.8	-	EPA 200.8
		MS	70 - 130	93.3	-	
		MSD	0 - 10	-	1.8	
Vanadium	QC60700	LCS	90 - 110	102.8	-	EPA 200.8
		MS	70 - 130	107.9	-	
		MSD	0 - 10	-	1.6	
Zinc	QC60700	LCS	90 - 110	100.3	-	EPA 200.8
		MS	70 - 130	99.4	-	
		MSD	0 - 10	-	1.2	
Boron	QC60678	Duplicate	0 - 20	-	9.8	EPA 200.7
		LCS	90 - 110	102.5	-	
		MS	75 - 125	107.5	-	
Calcium	QC60678	Duplicate	0 - 20	-	3.6	EPA 200.7
		LCS	90 - 110	97.5	-	
		MS	75 - 125	100.6	-	
Iron	QC60678	Duplicate	0 - 20	-	0.6	EPA 200.7
		LCS	90 - 110	101.1	-	
		MS	75 - 125	104.2	-	
Nitrate Nitrogen	QC60648	Duplicate	0 - 20	-	1.6	EPA 300.0
		LCS	90 - 110	95.3	-	
		MS	75 - 125	86.4	-	
Nitrite Nitrogen	QC60649	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	90.1	-	
		MS	75 - 125	94.4	-	
Phenols - Total	QC60817	Duplicate	0 - 20	-	0.5	EPA 420.4
		LCS	90 - 110	109.0	-	
		MS	75 - 125	99.6	-	
Sulfate	QC60650	Duplicate	0 - 20	-	1.5	EPA 300.0
		LCS	90 - 110	98.5	-	
		MS	75 - 125	94.9	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

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DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

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Chain of Custody Form

	Chain of Custod	y Fo	rm		-					3					oloi	rado Iticol
Report To Information	Bill To Information (If different from	n repc	ort to)		Project	Nam	e / Nu	mber						LAB	ORATOR	NES, INC
Company Name: Brand Island Kosource	S Company Name: <u>Credit Co</u>	ard						<u>.</u>				Co	mma	rca ('ity I e	h
Contact Name: Brooke Moran	Contact Name:	<u> </u>										104 0	411 H mme	einz rce C	Way Wity Cl) 80640
Address: 12567 W, Cedar Dr	Address:				Task N (Lab Us	umbe se Onl	r y)			Lakewood Service Center						
citylakewood stateCO zip80228	City State Z	/ip			CAL Task					Lakewood CO 80228						
Phone: 303-506-1618	Phone:	Phone:			221027123					Phone: 303-659-2313						
Email: bmolsonmeg-emporia.cdu	Email:											ww	w.co	lorad	olab.c	<u>com</u>
Sample Collector: Brooke Maran							JML									
Sample Collector Phone: 303-506-1618	PO No.:															
Please also email results to:	lix com					Hereitan.			T	áctic I	Zeniu	ested		- 400	The star	
Sample Matrix (Select O	ne Only)			~	00		12	7		<u> </u>		V I	4	<u></u>		T
Waste Water Soil		srs		diilo A	A D											
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10/27/211:30 CROSS PORTA	+L	8	6									ļ	 			
10/7/2 12:30 COMPLIANC	E WELL	8	6							_		<u> </u>				
10/7/212:00 CROSS WELL		8	G	·								<u> </u>				
19/7/213:00 CARIBOU PE	RTAL	8	6								_	<u> </u>				
10/2/214:00 CARIBOU W	EL-	8	6													
10/27/22230 COMPLIANCE	WELL-FB	8	G													_
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Instructions: FIELD FILTERED THE NI	TRIC PRESERVED C/S Info:				· I		•l		Seals 1	Present	Yes	No [j		I	~ ' _ ,
CARIBOU WELL ALL OTHER POTTLES	SS WELL & ARS UN FILTERED Deliver Via:	14)			C/S	Charge	e 🖸	Temp.	3	°C/Ice	Ve	> _{Sam}	ple Pre	s. Yes	
Relinquished By: Date/Time: Received	By: Date/Time: R 1/2 77 24	elinqu	iished	By:		Date	e/Tim	e:	Rec	eived	By:	,		D	ate/Ti	me:

CAL Task	ĸ							
221027102	10-1-	. 1						
221021123		200	Quotation for Analytical Services					
JML		ical	Quote ID:	OBO22050014	L			
		ICQL						
		20, INC.						
Prepared	For: Grand Island	Resources LLC	Quote Date: V	Vednesday, Ma	y 4, 2022			
	12567 W Cec	lar Dr	Tum Around Time: 1	0 Working Day	S			
	Suite 250							
	Lakewood, Co	O 80228						
	Attn: Brooke Mols	on-Moran						
Distant				ŧ				
i iojeta.								
Monthly	Groundwater							
Matrix	Description	U criteri		Price - eac	h Total			
	Coordipuelt	meunos	-	eco 00	00 0003			
Water - Ground	Langelier Index	N/A	5	\$60.00	9000.00			
Water - Ground	Alkalinity	SM 2320-B	5	inci.	inci.			
Water - Ground	Ca as CaCO3	EPA 200.7	5	inci.	Inci			
Water - Ground	Carb/ Bicarb	SM 2320-B	о 5	inci.	Incl			
Water - Ground	Lang Index	SM 2330-B	5	inci.	Incl			
Water - Ground	pH/ Temp	SM 4500-H-B	5 £	inci	Incl			
water - Ground	IDS	SM 2540-C	5	\$0.00	\$0.00			
Water - Groundri	Nitrate/ Nitrite Nitroge		5	\$13.00	\$65.00			
Water - Ground	B - UIS	EPA 200.7	5	\$13.00	\$65.00			
Weler Ground		EPA 200.7	5	\$13.00	\$65.00			
Water - Ground	Ca - Dis	EPA 200.7	5	\$13.00	\$65.00			
Water - Ground	Fe - Dis Ao - Dis	EPA 200.1	5	\$16.00	\$80.00			
Water - Ground	Ag - Triat	EPA 200.8	5	\$16.00	\$80.00			
Motor - Ground	Al - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Al - Total	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	As - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Ba - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Be - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Cd - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Co - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water Ground	- Co - Total	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Cr - Dis	EPA 200.8	5	\$16.00	\$80.00			
Weter - Ground	- Cu-Dis Yes test	EPA 200.8	5	\$16.00	\$80.00			
Water-Ground	-Cu-Total	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Mn - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Mo - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	NI - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Pb - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Sb - Dis	EPA 200.8	5	\$16.00	\$80.00			
Water - Ground	Se - Dis	EPA 200.8	5	\$16.00	\$80.00			

Page 1 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

CAL Task					
221027123					
	(0)	•			
JML			Quotation for	Analytical Se	vices
	HOOLUtical		Quote ID:	QBO22050014	
	· · · · · · · · · · · · · · · · · · ·				
	LABORATORIES, INC.				
Water - Ground	-Se - Total	- FPA 700 8		A 46.60	A
Water - Ground	TI - Dis	EPA 200.0	5	\$15.00	\$80.00
Water - Ground	V - Dis	EDA 200.0	5	\$16.00	\$80.00
Water Ground			5	\$16.00	\$80.00
Water - Ground	Zn - Dis	EPA 200,0	5	\$16.00	\$80.00
Water - Ground		EFA 200.0	5	\$16.00	\$80.00
Water - Ground	Chloride	EPA 200.0	5	\$16.00	\$80.00
Water - Ground	Fluoride	EFA 900.0	5	\$18.00	\$90.00
Water - Ground	Nitrate Nitropen 15cs	CFA 300.0	5	\$18.00	\$90.00
Water - Ground	Nitrite Nitrogen	EPA 300.0	5	\$18.00	\$90.00 \$00.00
Water - Ground	Sulfate	EPA 300.0	0 F	\$10.00 \$40.00	\$90.00 \$90.00
Water - Ground		EFA 300.0	5	\$10.00	490.00 #115.00
Water - Ground	Ha Nuch Ty to OOM	ALEPA 200.0	. 5	\$23.GU #27.00	\$110.00 \$435.00
Water - Ground	Total Coliform	ALEA 240.1	0 F	\$27.00	\$ 130.00 \$495 00
Water - Ground	Cvanide - Free	4 SIM 3221-0	5	927.00 \$10.00	\$100.00
Water - Ground	Phenois	FDA 4204-10	J 5	\$40.00 \$55.00	\$200.00 \$275 0/1
Water - Ground	Metals (Sub)	EPA 2007 EPA 200 7/EPA 200 8	5	\$67.20	\$336.00
Water - Ground	Gmss Alnha/Beta (Suh)	SM 7110.R	5	\$68.40	\$342.00
Water - Ground	Asbestos (Sub)	TFM	5	\$120.00	\$600.00
Water - Ground	625 SOCs	EPA 625	5	\$225.00	\$1,125,00
Shipping	Sample Shipment to Outside Lab	UPS	2	\$30.00	\$60.00
Shipping	Ext. Sample Shipment to Outside Lab	UPS or FedEx	1	\$50.00	\$50.00

Metals (sub) for dissolved lithium. Hg - dissolved. Quote revised 10/26 per customer's request.

\$6,383.00

"Samples should be shipped or hand delivered the same day they are collected."

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and collform bacteria.

Sub-Contract analysis pricing subject to change. Sub-Contract radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix. Due to time, distance and other constraints outside of the control of CAL shipments to sub labs are not guranteed. All shipment charges will be billed to the client regardless of shipment outcome.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-859-2313 or visit us at www.coloradolab.com

Page 2 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

Jessi Lupfer

To: Subject: Jennifer Kanmore RE: GIR Quote

From: Brooke Molson Moran <<u>bmolsonm@g.emporia.edu</u>> Sent: Monday, October 31, 2022 1:41 PM To: Jennifer Kanmore <<u>jenniferkanmore@coloradolab.com</u>> Subject: Re: GIR Quote

Hello Jennifer,

One request for the quote- may we please keep TR for silver (in addition to dissolved) and include it for last week's samples? With respect to our required duplicate and matrix spikes, can we please have those included for the Compliance Well and the Caribou Portal samples?

Also, I will continue to be the contact for our Monthly Groundwater Project, can we please add myself (<u>bmolsonm@g.emporia.edu</u>) and Sergio Rivera (<u>sergio.rivera@novametallix.com</u>) as the recipients of the analytical report? We will need the pdf and excel files, if available.

Happy Halloween!

Brooke Moran Grand Island Resources

On Fri, Oct 28, 2022 at 2:58 PM Jennifer Kanmore <<u>jenniferkanmore@coloradolab.com</u>> wrote:

Sounds good! Have a great weekend as well!

Thanks,

Jennifer Kanmore

Project Manager

Colorado Analytical Laboratories

10411 Heinz Way

Commerce City, CO 80640

P: 303-659-2313 Ext. 607



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 10/27/22 11:30 AM Lab Number: 221027123-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	11/2/22	QC60691	MBS
Phenol	ND	EPA 625	10.0 ug/L	11/2/22	QC60691	MBS
Surrogate		PercentRe	covery Accepta	Acceptance Limits		
2,4,6-Tribromopheno	bl	58.4	16 - 1	145		
2-Fluorobiphenyl		85.9	60 -	140		
2-Fluorophenol		83.4	60 -	140		
Nitrobenzene-d5		92.2	15 - 3	314		
Phenol-d5		86.6	8 - 4	-24		
p-Terphenyl-d14		254.3	44 - 1	135		

Surrogate is above QC criteria; 5/6 surrogates meet QC criteria. MBS 11/4/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 10/27/22 12:30 PM

Lab Number: 221027123-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	11/2/22	11/2/22 QC60691	
Phenol	ND	EPA 625	10.0 ug/L	11/2/22	QC60691	MBS
Surrogate		PercentRed	covery Accept	ance Limits		
2,4,6-Tribromopheno	bl	44.7	16 -	145		
2-Fluorobiphenyl		84.2	60 -	140		
2-Fluorophenol		79.4	60 - 140			
Nitrobenzene-d5		92.7	15 - 3	314		
Phenol-d5		81.1	8 - 4	24		
p-Terphenyl-d14		280.5	44 -	135		

Surrogate is above QC criteria; 5/6 surrogates meet QC criteria. MBS 11/4/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 10/27/22 12:00 PM

Lab Number: 221027123-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	11/2/22	11/2/22 QC60691	
Phenol	ND	EPA 625	10.0 ug/L	11/2/22	QC60691	MBS
Surrogate		PercentRe	covery Accepta	Acceptance Limits		
2,4,6-Tribromopheno	bl	40.7	16 - <i>1</i>	145		
2-Fluorobiphenyl		89.0	60 - 7	140		
2-Fluorophenol		84.1	60 - 7	140		
Nitrobenzene-d5		96.4	15 - 3	314		
Phenol-d5		84.4	8 - 4	-24		
p-Terphenyl-d14		299.6	44 - 1	135		

Surrogate is above QC criteria; 5/6 surrogates meet QC criteria. MBS 11/4/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 10/27/22 1:00 PM Lab Number: 221027123-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	11/2/22	QC60691	MBS
Phenol	ND	EPA 625	10.0 ug/L	11/2/22	QC60691	MBS
Surrogate		PercentRee	covery Accept	Acceptance Limits		
2,4,6-Tribromopheno	l	38.8	16 -	145		
2-Fluorobiphenyl		93.5	60 -	140		
2-Fluorophenol		85.1	60 -	140		
Nitrobenzene-d5		99.7	15 - 3	314		
Phenol-d5		81.7	8 - 4	8 - 424		
p-Terphenyl-d14		340.5	44 -	135		

Surrogate is above QC criteria; 5/6 surrogates meet QC criteria. MBS 11/4/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 **Client PO:** Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 10/27/22 2:00 PM Lab Number: 221027123-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	10.0 ug/L 11/2/22		MBS
Phenol	ND	EPA 625	10.0 ug/L	11/2/22	QC60691	MBS
Surrogate		PercentRe	covery Accepta	Acceptance Limits		
2,4,6-Tribromopheno	l	43.5	16 - <i>1</i>	145		
2-Fluorobiphenyl		88.7	60 - 7	140		
2-Fluorophenol		77.2	60 - 7	140		
Nitrobenzene-d5		96.4	15 - 3	314		
Phenol-d5		81.1	8 - 4	24		
p-Terphenyl-d14		348.6	44 - 1	135		

Surrogate is above QC criteria; 5/6 surrogates meet QC criteria. MBS 11/4/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.



TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221027123 Client PO: Client Project: Monthly Groundwater

Date Received: 10/27/22 Date Reported: 11/28/22 Matrix: Water - Ground

Customer Sample ID Compliance Well - FB

Sample Date/Time: 10/27/22 12:30 PM Lab Number: 221027123-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	11/2/22	QC60691	MBS
Phenol	ND	EPA 625	10.0 ug/L	11/2/22	QC60691	MBS
Surrogate		PercentRe	covery Accepta	Acceptance Limits		
2,4,6-Tribromopheno	bl	39.9	16 - 1	145		
2-Fluorobiphenyl		91.1	60 -	140		
2-Fluorophenol		76.6	60 -	140		
Nitrobenzene-d5		99.8	15 - 3	314		
Phenol-d5		82.1	8 - 4	8 - 424		
p-Terphenyl-d14		380.0	44 - 1	135		

Surrogate is above QC criteria; 5/6 surrogates meet QC criteria. MBS 11/4/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.



Analytical QC Summary

TASK NO: 221027123

Report To: Patrick Delaney Company: Grand Island Resources LLC Receive Date: 10/27/22 Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	
2-Chlorophenol	QC60691	Method Blank	ND		EPA 625	
Phenol	QC60691	Method Blank	ND		EPA 625	
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
2-Chlorophenol	QC60691	LCS	55 - 130	89.3	-	EPA 625
		LCS Dup	-	93.0	-	
		MS	23 - 134	91.3	-	
		MSD	0 - 61	-	3.2	
Phenol	QC60691	LCS	48 - 130	81.1	-	EPA 625
		LCS Dup	-	84.3	-	
		MS	5 - 120	83.6	-	
		MSD	0 - 64	-	4.0	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

 ⁽d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.
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Contact Name: BCOOKe	Moran	Qi/ Contact Name:														10411 Heinz Way Commerce City CO 80640			
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Email: bmolsonme	g-emporia.edu	Email:	<u>. </u>					-			ł	ł		2	www	.color	adoli	ab.com	m
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JML		ical	Quote ID:	OBO22050014	L
		ICQL			
		20, INC.			
Prepared	For: Grand Island	Resources LLC	Quote Date: V	Vednesday, Ma	y 4, 2022
	12567 W Cec	lar Dr	Turn Around Time: 1	0 Working Day	S
	Suite 250				
	Lakewood, Co	O 80228			
	Attn: Brooke Mols	on-Moran			
Distant				ŧ	
i iojeta.					
Monthly	Groundwater				
Matrix	Description	U criteri		Price - eac	h Total
	Coordipuelt	meuros	-	eco 00	00 0003
Water - Ground	Langelier Index	N/A	5	\$60.00	9000.00
Water - Ground	Alkalinity	SM 2320-B	5	inci.	inci.
Water - Ground	Ca as CaCO3	EPA 200.7	5	inci.	Inci
Water - Ground	Carb/ Bicarb	SM 2320-B	о 5	inci.	Incl
Water - Ground	Lang Index	SM 2330-B	5	inci.	Incl
Water - Ground	pH/ Temp	SM 4500-H-B	5 £	inci	Incl
water - Ground	IDS	SM 2540-C	5	\$0.00	\$0.00
Water - Groundri	Nitrate/ Nitrite Nitroge		5	\$13.00	\$65.00
Water - Ground	B - UIS	EPA 200.7	5	\$13.00	\$65.00
Weter Ground		EPA 200.7	5	\$13.00	\$65.00
Water - Ground	Ca - Dis	EPA 200.7	5	\$13.00	\$65.00
Water - Ground	Fe - Dis Ao - Dis	EPA 200.1	5	\$16.00	\$80.00
Water - Ground	Ag - Triat	EPA 200.8	5	\$16.00	\$80.00
Motor - Ground	Al - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Al - Total	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	As - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Ba - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Be - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Cd - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Co - Dis	EPA 200.8	5	\$16.00	\$80.00
Water Ground	- Co - Total	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Cr - Dis	EPA 200.8	5	\$16.00	\$80.00
Weter - Ground	- Cu-Dis Yes test	EPA 200.8	5	\$16.00	\$80.00
Water-Ground	-Cu-Total	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Mn - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Mo - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	NI - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Pb - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Sb - Dis	EPA 200.8	5	\$16.00	\$80.00
Water - Ground	Se - Dis	EPA 200.8	5	\$16.00	\$80.00

Page 1 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

CAL Task					
221027123					
	(0)				
JML)	Quotation for	Analytical Se	vices
	HOOLUtical		Quote ID:	QBO22050014	
	· · · · · · · · · · · · · · · · · · ·				
	LABORATORIES, INC.				
Water - Ground	-Se - Total	FPA 700 B		A 46.60	A
Water - Ground	TI - Dis	EPA 200.0	5	\$15.00	\$80.00
Water - Ground	V - Dis	EDA 200.0	5	\$16.00	\$80.00
Water Ground			5	\$16.00	\$80.00
Water - Ground	Zn - Dis	EPA 200.0	5	\$16.00	\$80.00
Water - Ground		EFA 200.0	5	\$16.00	\$80.00
Water - Ground	Chloride	EPA 200.0	5	\$16.00	\$80.00
Water - Ground	Fluoride	EFA 300.0	5	\$18.00	\$90.00
Water - Ground	Nitrate Nitropen 15cs	EFA 300.0	5	\$18.00	\$90.00
Water - Ground	Nitrite Nitrogen	EPA 300.0	5	\$18.00	\$90.00 \$00.00
Water - Ground	Sulfate	EPA 300.0	0 F	\$10.00 \$40.00	\$90.00 \$90.00
Water - Ground		EFA 300.0	5	\$10.00	490.00 #115.00
Water - Ground	Ha Nuch Ty to OOM	ALEPA 200.0	. 5	\$23.GU #27.00	\$110.00 \$435.00
Water - Ground	Total Coliform	NEE A 240.1	0 F	\$27.00	\$ 130.00 \$495 00
Water - Ground	Cvanide - Free	4 JWI 3221-0	5	927.00 \$10.00	\$100.00
Water - Ground	Phenois	FDA 4204-10	J 5	940.00 855.00	\$200.00 \$275 0/1
Water - Ground	Metals (Sub)	EPA 2007 EPA 200 7/EPA 200 8	5	\$67.20	\$336.00
Water - Ground	Gmss Alnha/Beta (Suh)	SM 7110.R	5	\$68.40	\$342.00
Water - Ground	Asbestos (Sub)	TFM	5	\$120.00	\$600.00
Water - Ground	625 SOCs	EPA 625	5	\$225.00	\$1,125,00
Shipping	Sample Shipment to Outside Lab	UPS	2	\$30.00	\$60.00
Shipping	Ext. Sample Shipment to Outside Lab	UPS or FedEx	1	\$50.00	\$50.00

Metals (sub) for dissolved lithium. Hg - dissolved. Quote revised 10/26 per customer's request.

\$6,383.00

"Samples should be shipped or hand delivered the same day they are collected."

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and collform bacteria.

Sub-Contract analysis pricing subject to change. Sub-Contract radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix. Due to time, distance and other constraints outside of the control of CAL shipments to sub labs are not guranteed. All shipment charges will be billed to the client regardless of shipment outcome.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-859-2313 or visit us at www.coloradolab.com

Page 2 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

Jessi Lupfer

To: Subject: Jennifer Kanmore RE: GIR Quote

From: Brooke Molson Moran <<u>bmolsonm@g.emporia.edu</u>> Sent: Monday, October 31, 2022 1:41 PM To: Jennifer Kanmore <<u>jenniferkanmore@coloradolab.com</u>> Subject: Re: GIR Quote

Hello Jennifer,

One request for the quote- may we please keep TR for silver (in addition to dissolved) and include it for last week's samples? With respect to our required duplicate and matrix spikes, can we please have those included for the Compliance Well and the Caribou Portal samples?

Also, I will continue to be the contact for our Monthly Groundwater Project, can we please add myself (<u>bmolsonm@g.emporia.edu</u>) and Sergio Rivera (<u>sergio.rivera@novametallix.com</u>) as the recipients of the analytical report? We will need the pdf and excel files, if available.

Happy Halloween!

Brooke Moran Grand Island Resources

On Fri, Oct 28, 2022 at 2:58 PM Jennifer Kanmore <<u>jenniferkanmore@coloradolab.com</u>> wrote:

Sounds good! Have a great weekend as well!

Thanks,

Jennifer Kanmore

Project Manager

Colorado Analytical Laboratories

10411 Heinz Way

Commerce City, CO 80640

P: 303-659-2313 Ext. 607

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 438183

11/14/2022

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Cross Portal Source City: Nederland Source State: CO

Date/Time Received: 10/28/2022 08:58

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed				
Physical Factors														
1905	Apparent Color	2120B	15	CU	3	ND	1	10/27/2022 11:30		10/28/2022 14	1:50			
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	10/27/2022 11:30		10/28/2022 15	5:15			
		ľ	MBAS, calcula	ted as Lii	near Alkylat	te Sulfonate (LAS), mol	wt of 342.4 g/mole						
1920	Odor Threshold	2150B	3	ton	1	ND	1	10/27/2022 11:30		10/28/2022 11	:05			

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 438184

11/14/2022

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Compliance Well Source City: Nederland Source State: CO

Date/Time Received: 10/28/2022 08:58

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed				
Physical Factors														
1905	Apparent Color	2120B	15	CU	3	ND	1	10/27/2022 12:30		10/28/2022 14:50				
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	10/27/2022 12:30		10/28/2022 15:15				
	MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole													
1920	Odor Threshold	2150B	3	ton	1	ND	1	10/27/2022 12:30		10/28/2022 11:05				

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 438185

11/14/2022

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Cross Well Source City: Nederland Source State: CO

Date/Time Received: 10/28/2022 08:58

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed				
Physical Factors														
1905	Apparent Color	2120B	15	CU	3	ND	1	10/27/2022 12:00		10/28/2022 14:50				
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	10/27/2022 12:00		10/28/2022 15:15				
	MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole													
1920	Odor Threshold	2150B	3	ton	1	ND	1	10/27/2022 12:00		10/28/2022 11:05				

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 438186

11/14/2022

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Caribou Portal Source City: Nederland Source State: CO

Date/Time Received: 10/28/2022 08:58

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed				
Physical Factors														
1905	Apparent Color	2120B	15	CU	3	ND	1	10/27/2022 13:00		10/28/2022 14:50				
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	10/27/2022 13:00		10/28/2022 15:15				
	MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole													
1920	Odor Threshold	2150B	3	ton	1	ND	1	10/27/2022 13:00		10/28/2022 11:05				

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 438187

11/14/2022

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Caribou Well Source City: Nederland Source State: CO

Date/Time Received: 10/28/2022 08:58

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed				
Physical Factors														
1905	Apparent Color	2120B	15	CU	3	ND	1	10/27/2022 14:00		10/28/2022 14:50				
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	10/27/2022 14:00		10/28/2022 15:15				
	MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole													
1920	Odor Threshold	2150B	3	ton	1	ND	1	10/27/2022 14:00		10/28/2022 11:05				

Analyst	Tests
SP	2120B,5540C,2150B

Sarah Bucharan

Sarah Buchanan, Project Manager

APPENDIX A.2 NOVEMBER 2022 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID	Cross Portal	
Sample Date/Time:	11/29/22	11:00 AM

Lab Number: 221129086-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By	
Chloride	0.38 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61362	MLT	
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	11/30/22	QC61325	DPL	
Fluoride	ND	EPA 300.0	0.10 mg/L	11/30/22	QC61347	MLT	
Nitrate Nitrogen	0.07 mg/L	EPA 300.0	0.05 mg/L	11/30/22	QC61348	MLT	
Nitrate/ Nitrite Nitrogen	0.07 mg/L	Calculation	0.05 mg/L	12/1/22	-	MLT	
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	11/30/22	QC61349	MLT	
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/6/22	QC61429	DPL	
Sulfate	10.97 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61350	MLT	
Total Coliform	ND	SM 9221-B	1 mpn/100ml	11/23/22	-	NH	
<u>Dissolved</u>							
Mercury	ND	EPA 245.7	0.0002 mg/L	12/6/22	QC61414	MLT	
Aluminum	0.002 mg/L	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN	
Antimony	ND	EPA 200.8	0.0012 mg/L	11/30/22	QC61328	MBN	
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/30/22	QC61328	MBN	
Barium	0.0711 mg/L	EPA 200.8	0.0007 mg/L	11/30/22	QC61328	MBN	
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN	
Cadmium	0.0009 mg/L	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN	
Chromium	ND	EPA 200.8	0.0015 mg/L	11/30/22	QC61328	MBN	
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN	
Copper	0.0019 mg/L	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN	
Lead	0.0009 mg/L	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN	
Manganese	0.0129 mg/L	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN	
Molybdenum	0.0073 mg/L	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN	
Nickel	ND	EPA 200.8	0.0009 mg/L	11/30/22	QC61328	MBN	

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 11/29/22 11:00 AM Lab Number: 221129086-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Selenium	ND	EPA 200.8	0.0008 m	g/L 11/30/22	QC61328	MBN
Silver	ND	EPA 200.8	0.0005 m	g/L 11/30/22	QC61328	MBN
Thallium	ND	EPA 200.8	0.0002 m	g/L 11/30/22	QC61328	MBN
Uranium	0.0009 mg/L	EPA 200.8	0.0002 m	g/L 11/30/22	QC61328	MBN
Vanadium	ND	EPA 200.8	0.001 m	g/L 11/30/22	QC61328	MBN
Zinc	0.206 mg/L	EPA 200.8	0.001 m	g/L 11/30/22	QC61328	MBN
Boron	ND	EPA 200.7	0.01 m	g/L 12/1/22	QC61359	MAT
Calcium	26.7 mg/L	EPA 200.7	0.1 m	g/L 12/1/22	QC61359	MAT
Iron	0.007 mg/L	EPA 200.7	0.005 m	g/L 12/1/22	QC61359	MAT
<u>Total</u>						
Silver	ND	EPA 200.8	0.0005 m	g/L 11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater

Customer Sample ID Cross Well

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Sample Date/Time: 11	1/29/22 11:30 AM					
Lab Number: 22	21129086-02					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
· · · · · · · · · · · · · · · · · · ·						
Chloride	2.86 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61362	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	11/30/22	QC61325	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	11/30/22	QC61347	MLT
Nitrate Nitrogen	0.19 mg/L	EPA 300.0	0.05 mg/L	11/30/22	QC61348	MLT
Nitrate/ Nitrite Nitrogen	0.19 mg/L	Calculation	0.05 mg/L	12/1/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	11/30/22	QC61349	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/6/22	QC61429	DPL
Sulfate	8.89 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61350	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	11/23/22	-	NH
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg/L	12/6/22	QC61414	MLT
Aluminum	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/30/22	QC61328	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/30/22	QC61328	MBN
Barium	0.0281 mg/L	EPA 200.8	0.0007 mg/L	11/30/22	QC61328	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/30/22	QC61328	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Copper	0.0038 mg/L	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Molybdenum	0.0006 mg/L	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	11/30/22	QC61328	MBN
Abbreviations/ References:						

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 3 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID					Cross Well	
•		-		į	44/00/00	

Sample Date/Time: 11/29/22 11:30 AM Lab Number: 221129086-02

	21120000 02					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Selenium	ND	EPA 200.8	0.0008 mg/l	11/30/22	QC61328	MBN
Silver	ND	EPA 200.8	0.0005 mg/l	11/30/22	QC61328	MBN
Thallium	ND	EPA 200.8	0.0002 mg/l	11/30/22	QC61328	MBN
Uranium	ND	EPA 200.8	0.0002 mg/l	11/30/22	QC61328	MBN
Vanadium	ND	EPA 200.8	0.001 mg/l	11/30/22	QC61328	MBN
Zinc	0.859 mg/L	EPA 200.8	0.001 mg/l	11/30/22	QC61328	MBN
Boron	ND	EPA 200.7	0.01 mg/l	12/1/22	QC61359	MAT
Calcium	16.9 mg/L	EPA 200.7	0.1 mg/l	12/1/22	QC61359	MAT
Iron	ND	EPA 200.7	0.005 mg/l	12/1/22	QC61359	MAT
<u>Total</u>						
Silver	ND	EPA 200.8	0.0005 mg/l	11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 4 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater

Customer Sample ID Compliance Well Sample Date/Time: 11/29/22 12:

12:00 PM

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Lab Number: 22	21129086-03					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	2.92 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61362	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	11/30/22	QC61325	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	11/30/22	QC61347	MLT
Nitrate Nitrogen	0.27 mg/L	EPA 300.0	0.05 mg/L	11/30/22	QC61348	MLT
Nitrate/ Nitrite Nitrogen	0.27 mg/L	Calculation	0.05 mg/L	12/1/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	11/30/22	QC61349	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/6/22	QC61429	DPL
Sulfate	9.60 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61350	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	11/23/22	-	NH
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg/L	12/6/22	QC61414	MLT
Aluminum	0.001 mg/L	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/30/22	QC61328	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/30/22	QC61328	MBN
Barium	0.0407 mg/L	EPA 200.8	0.0007 mg/L	11/30/22	QC61328	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/30/22	QC61328	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Lead	0.0001 mg/L	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Manganese	0.0091 mg/L	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Molybdenum	0.0042 mg/L	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 5 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 11/29/22 12:00 PM

Eab Number: 2	21120000 00					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Selenium	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Zinc	0.084 mg/L	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Boron	ND	EPA 200.7	0.01 mg/L	12/1/22	QC61359	MAT
Calcium	16.7 mg/L	EPA 200.7	0.1 mg/L	12/1/22	QC61359	MAT
Iron	0.007 mg/L	EPA 200.7	0.005 mg/L	12/1/22	QC61359	MAT
<u>Total</u>						
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 6 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater

Cus

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

tomer Sample ID	Compliance Well -

Sample Date/Time: 11/29/22 12:00 PM

FB

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	ND	EPA 300.0	0.01 mg/L	11/30/22	QC61362	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	11/30/22	QC61325	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	11/30/22	QC61347	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.05 mg/L	11/30/22	QC61348	MLT
Nitrate/ Nitrite Nitrogen	ND	Calculation	0.05 mg/L	12/1/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	11/30/22	QC61349	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/6/22	QC61429	DPL
Sulfate	ND	EPA 300.0	0.01 mg/L	11/30/22	QC61350	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	11/23/22	-	NH
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/L	12/6/22	QC61414	MLT
Aluminum	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/30/22	QC61328	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/30/22	QC61328	MBN
Barium	ND	EPA 200.8	0.0007 mg/L	11/30/22	QC61328	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/30/22	QC61328	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Lead	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 7 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Compliance Well - FB

Sample Date/Time: 11/29/22 12:00 PM Lab Number: 221129086-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Selenium	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Zinc	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Boron	ND	EPA 200.7	0.01 mg/L	12/1/22	QC61359	MAT
Calcium	ND	EPA 200.7	0.1 mg/L	12/1/22	QC61359	MAT
Iron	ND	EPA 200.7	0.005 mg/L	12/1/22	QC61359	MAT
Total						
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 8 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater

Customer Sample ID Caribou Portal

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Sample Date/Time: 11	/29/22 12:30 PM					
Lab Number: 22	21129086-05	Mathad	DI	Data Analimad	OC Betek ID	An aligned Du
lest	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.54 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61362	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	11/30/22	QC61325	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	11/30/22	QC61347	MLT
Nitrate Nitrogen	0.12 mg/L	EPA 300.0	0.05 mg/L	11/30/22	QC61348	MLT
Nitrate/ Nitrite Nitrogen	0.12 mg/L	Calculation	0.05 mg/L	12/1/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	11/30/22	QC61349	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/6/22	QC61429	DPL
Sulfate	10.51 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61350	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	11/23/22	-	NH
Dissolved						
Mercury	ND	EPA 245.7	0.0002 mg/L	12/6/22	QC61414	MLT
Aluminum	0.002 mg/L	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/30/22	QC61328	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/30/22	QC61328	MBN
Barium	0.0540 mg/L	EPA 200.8	0.0007 mg/L	11/30/22	QC61328	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/30/22	QC61328	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Manganese	0.0031 mg/L	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Molybdenum	0.0057 mg/L	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	11/30/22	QC61328	MBN

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 9 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 11/29/22 12:30 PM Lab Number: 221129086-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Selenium	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Uranium	0.0059 mg/L	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Zinc	0.008 mg/L	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Boron	ND	EPA 200.7	0.01 mg/L	12/1/22	QC61359	MAT
Calcium	27.8 mg/L	EPA 200.7	0.1 mg/L	12/1/22	QC61359	MAT
Iron	0.005 mg/L	EPA 200.7	0.005 mg/L	12/1/22	QC61359	MAT
<u>Total</u>						
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 10 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater

С

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

stomer Sample ID	Caribou Portal - FB
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Sample Date/Time: 11/29/22 12:30 PM

	21120000 00					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	ND	EPA 300.0	0.01 mg/L	11/30/22	QC61362	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	11/30/22	QC61325	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	11/30/22	QC61347	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.05 mg/L	11/30/22	QC61348	MLT
Nitrate/ Nitrite Nitrogen	ND	Calculation	0.05 mg/L	12/1/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	11/30/22	QC61349	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/6/22	QC61429	DPL
Sulfate	ND	EPA 300.0	0.01 mg/L	11/30/22	QC61350	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	11/23/22	-	NH
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/L	12/6/22	QC61414	MLT
Aluminum	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/30/22	QC61328	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/30/22	QC61328	MBN
Barium	ND	EPA 200.8	0.0007 mg/L	11/30/22	QC61328	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/30/22	QC61328	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Lead	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 11 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal - FB

Sample Date/Time: 11/29/22 12:30 PM

Lab Nulliber. 2	21123000-00					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Selenium	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Zinc	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Boron	ND	EPA 200.7	0.01 mg/L	12/1/22	QC61359	MAT
Calcium	ND	EPA 200.7	0.1 mg/L	12/1/22	QC61359	MAT
Iron	ND	EPA 200.7	0.005 mg/L	12/1/22	QC61359	MAT
<u>Total</u>						
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 12 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID Caribou Well

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Sample Date/Time: 1 Lab Number: 2	1/29/22 1:30 PM 21129086-07					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.43 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61362	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	11/30/22	QC61325	DPL
Fluoride	ND	EPA 300.0	0.10 mg/L	11/30/22	QC61347	MLT
Nitrate Nitrogen	0.08 mg/L	EPA 300.0	0.05 mg/L	11/30/22	QC61348	MLT
Nitrate/ Nitrite Nitrogen	0.08 mg/L	Calculation	0.05 mg/L	12/1/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	11/30/22	QC61349	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/6/22	QC61429	DPL
Sulfate	2.59 mg/L	EPA 300.0	0.01 mg/L	11/30/22	QC61350	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	11/23/22	-	NH
<u>Dissolved</u>						
Mercury	ND	EPA 245.7	0.0002 mg/L	12/6/22	QC61414	MLT
Aluminum	0.002 mg/L	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	11/30/22	QC61328	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	11/30/22	QC61328	MBN
Barium	0.0061 mg/L	EPA 200.8	0.0007 mg/L	11/30/22	QC61328	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	11/30/22	QC61328	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Copper	0.1797 mg/L	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	11/30/22	QC61328	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	11/30/22	QC61328	MBN
Abbreviations/ References:						

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 13 of 20



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Caribou Well Sample Date/Time: 11/29/22 1:30 PM

Lab Number: 221129086-07

	21120000 01					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>						
Selenium	ND	EPA 200.8	0.0008 mg/L	11/30/22	QC61328	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	11/30/22	QC61328	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	11/30/22	QC61328	MBN
Boron	0.03 mg/L	EPA 200.7	0.01 mg/L	12/1/22	QC61359	MAT
Calcium	3.8 mg/L	EPA 200.7	0.1 mg/L	12/1/22	QC61359	MAT
Iron	ND	EPA 200.7	0.005 mg/L	12/1/22	QC61359	MAT
<u>Total</u>						
Silver	ND	EPA 200.8	0.0005 mg/L	11/30/22	QC61328	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 14 of 20



Company: Grand Island Resources LLC

Report To: Patrick Delaney

LABORATORIES, INC.

Analytical QC Summary

TASK NO: 221129086

Receive Date: 11/29/22 Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	
Chloride	QC61362	Blank	ND		EPA 300.0	
Cyanide-Free	QC61325	Blank	ND	A	STM D4282-15	
Fluoride	QC61347	Blank	ND		EPA 300.0	
Mercury	QC61414	Method Blank	ND		EPA 245.7	
Aluminum	QC61328	Method Blank	ND		EPA 200.8	
Antimony	QC61328	Method Blank	ND		EPA 200.8	
Arsenic	QC61328	Method Blank	ND		EPA 200.8	
Barium	QC61328	Method Blank	ND		EPA 200.8	
Beryllium	QC61328	Method Blank	ND		EPA 200.8	
Cadmium	QC61328	Method Blank	ND		EPA 200.8	
Chromium	QC61328	Method Blank	ND		EPA 200.8	
Cobalt	QC61328	Method Blank	ND		EPA 200.8	
Copper	QC61328	Method Blank	ND		EPA 200.8	
ead	QC61328	Method Blank	ND		EPA 200.8	
Vanganese	QC61328	Method Blank	ND		EPA 200.8	
Molybdenum	QC61328	Method Blank	ND		EPA 200.8	
Nickel	QC61328	Method Blank	ND		EPA 200.8	
Selenium	QC61328	Method Blank	ND		EPA 200.8	
Silver	QC61328	Method Blank	ND		EPA 200.8	
hallium	QC61328	Method Blank	ND		EPA 200.8	
Jranium	QC61328	Method Blank	ND		EPA 200.8	
/anadium	QC61328	Method Blank	ND		EPA 200.8	
linc	QC61328	Method Blank	ND		EPA 200.8	
Boron	QC61359	Method Blank	ND		EPA 200.7	
Calcium	QC61359	Method Blank	ND		EPA 200.7	
ron	QC61359	Method Blank	ND		EPA 200.7	
litrate Nitrogen	QC61348	Blank	ND		EPA 300.0	
litrite Nitrogen	QC61349	Blank	ND		EPA 300.0	
Phenols - Total	QC61429	Blank	ND		EPA 420.4	
Sulfate	QC61350	Blank	ND		EPA 300.0	
est	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC61362	Duplicate	0 - 20	-	8.8	EPA 300.0
		LCS	90 - 110	101.9	-	
		MS	75 - 125	94.8	-	
Cyanide-Free	QC61325	Duplicate	0 - 20	-	0.0	ASTM D4282-15
		LCS	90 - 110	103.1	-	
		MS	75 - 125	105.5	-	
		MSD	0 - 30	-	0.0	
Fluoride	QC61347	Duplicate	0 - 20	-	1.8	EPA 300.0
		LCS	90 - 110	96.8	-	
		MS	75 - 125	89.6	-	

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

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Date Analyzed = Date Test Completed

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(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 15 of 20

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Mercury	QC61414	Duplicate	0 - 20	-	0.0	EPA 245.7
		LCS	90 - 110	106.4	-	
		MS	80 - 120	108.0	-	
Aluminum	QC61328	LCS	90 - 110	99.5	-	EPA 200.8
		MS	70 - 130	105.6	-	
		MSD	0 - 10	-	5.2	
Antimony	QC61328	LCS	90 - 110	100.5	-	EPA 200.8
		MS	70 - 130	109.0	-	
		MSD	0 - 10	-	0.6	
Arsenic	QC61328	LCS	90 - 110	100.3	-	EPA 200.8
		MS	70 - 130	120.0	-	
		MSD	0 - 10	-	2.8	
Barium	QC61328	LCS	90 - 110	97.3	-	EPA 200.8
		MS	70 - 130	103.0	-	
		MSD	0 - 10	-	1.5	
Beryllium	QC61328	LCS	90 - 110	97.1	-	EPA 200.8
		MS	70 - 130	115.3	-	
		MSD	0 - 10	-	7.5	
Cadmium	QC61328	LCS	90 - 110	99.0	-	EPA 200.8
		MS	70 - 130	107.8	-	
		MSD	0 - 10	-	0.5	
Chromium	QC61328	LCS	90 - 110	102.1	-	EPA 200.8
		MS	70 - 130	110.4	-	
		MSD	0 - 10	-	2.1	
Cobalt	QC61328	LCS	90 - 110	101.9	-	EPA 200.8
		MS	70 - 130	106.5	-	
		MSD	0 - 10	-	3.1	
Copper	QC61328	LCS	90 - 110	98.0	-	EPA 200.8
		MS	70 - 130	108.0	-	
		MSD	0 - 10	-	1.1	
Lead	QC61328	LCS	90 - 110	93.5	-	EPA 200.8
		MS	70 - 130	98.1	-	
		MSD	0 - 10	-	7.8	
Manganese	QC61328	LCS	90 - 110	101.2	-	EPA 200.8
		MS	70 - 130	86.4	-	
		MSD	0 - 10	-	0.1	
Molybdenum	QC61328	LCS	90 - 110	97.2	-	EPA 200.8
		MS	70 - 130	118.9	-	
		MSD	0 - 10	-	1.4	
Nickel	QC61328	LCS	90 - 110	103.3	-	EPA 200.8
		MS	70 - 130	103.9	-	
		MSD	0 - 10	-	2.6	
Selenium	QC61328	LCS	90 - 110	102.2	-	EPA 200.8
		MS	70 - 130	113.3	-	
		MSD	0 - 10	-	5.1	
Silver	QC61328	LCS	90 - 110	103.8	-	EPA 200.8
		MS	70 - 130	87.6	-	
		MSD	0 - 10	-	0.3	
Thallium	QC61328	LCS	90 - 110	97.9	-	EPA 200.8
		MS	70 - 130	98.5	-	
		MSD	0 - 10	-	7.9	

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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 16 of 20

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Uranium	QC61328	LCS	90 - 110	96.9	-	EPA 200.8
		MS	70 - 130	103.0	-	
		MSD	0 - 10	-	9.5	
Vanadium	QC61328	LCS	90 - 110	100.1	-	EPA 200.8
		MS	70 - 130	111.9	-	
		MSD	0 - 10	-	2.8	
Zinc	QC61328	LCS	90 - 110	98.8	-	EPA 200.8
		MS	70 - 130	105.9	-	
		MSD	0 - 10	-	2.5	
Boron	QC61359	Duplicate	0 - 20	-	15.8	EPA 200.7
	Boron Not requested.	SN 12/5/22				
		LCS	90 - 110	100.5	-	
		MS	75 - 125	111.2	-	
Calcium	QC61359	Duplicate	0 - 20	-	6.1	EPA 200.7
		LCS	90 - 110	98.7	-	
		MS	75 - 125	98.9	-	
Iron	QC61359	Duplicate	0 - 20	-	6.2	EPA 200.7
		LCS	90 - 110	101.0	-	
		MS	75 - 125	100.0	-	
Nitrate Nitrogen	QC61348	Duplicate	0 - 20	-	5.5	EPA 300.0
		LCS	90 - 110	101.7	-	
		MS	75 - 125	89.8	-	
Nitrite Nitrogen	QC61349	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	91.5	-	
		MS	75 - 125	93.3	-	
Phenols - Total	QC61429	Duplicate	0 - 20	-	9.4	EPA 420.4
		LCS	90 - 110	97.3	-	
		MS	75 - 125	93.4	-	
Sulfate	QC61350	Duplicate	0 - 20	-	3.1	EPA 300.0
		LCS	90 - 110	100.5	-	
		MS	75 - 125	95.6	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

The

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 17 of 20

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Grand Island Resources	Company Name: Credit Card	
Contact Name: Brooke Morray	Contact Name:	
Address: 12567 W. Cedar Dr.	Address:	Task Number (Lab Use Only)
city Lakewood state CO Zip 80228	City State Zip	
Phone: 303-506-1618	Phone:	CAL Task
Email: bmolsonm@g.emporior.	Email: Sergio.rivera@	221129086
Sample Collector: BM	o porametal inscorp	JML
Sample Collector Phone: 303-506-1618	PO No.:	



<u>Commerce City Lab</u> 10411 Heinz Way Commerce City CO 80640

Lakewood Service Center 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

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Sa	mple Matrix (Select One On	y)		uly)	n											
Waste Water	Soil 📋	Drinking Water 🗌	iners	le O	U	B	0	22	19	9(РŲ	NA				
Ground Water	Sludge		onta	ite O	2 V	PT	>P4<	TEI	\square	1 C)/2	-71	122			
Surface Water			ofC	th Chec	sodu											
Date Time	Sample II	D	Ŷ	C G G	5											
1/29/2211:00 CRO	SS PORTAL		9	G												
1/29/2211:30 CRC	ISS WELL		9	G												
1/29/2212:00 CON	IPLIANCE WI	ELL	9	6												
129/2212:00 CON	IPLIANCE WI	EU-FB	9	8												
1/20/2212:30 CAR	LIBOU PORTAL		9	6												
1/2/212:30 CAR	RIBOU PORTA	L-FB	9	6	_											_
1/29/2213:30 CAF	ZIBOU WELL		9	8												
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Instructions: FIELD Fill GROSS ALTHA.	OTHER BOTLES	ITRICE C'S Info:		、				1	Seals	Present	Yes 🔲	No 🗍				"
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	<u> </u>	6.5							.							-

CAL Task 221129086

JML

Project:

Monthly Groundwater

Colorado Analytical

Quotation for Analytical Services

Quote ID: QBO22050014

LABORATORIES, INC.

Prepared For:	Grand Island Resources LLC
	12567 W Cedar Dr
	Suite 250
	Lakewood, CO 80228

Attn: Brooke Molson-Moran

Quote Date: Wednesday, May 4, 2022 Turn Around Time: 10 Working Days

			2		
Matrix	Description	Method	Qty.	Price - each	Total
Water - Ground	Langelier Index	N/A	6	\$60.00	\$360.00
Water - Ground	Alkalinity	SM 2320-B	6	Incl.	Inci.
Water - Ground	Ca as CaCO3	EPA 200.7	6	Inci.	Incl.
Water - Ground	Carb/ Bicarb	SM 2320-B	. 6	Incl.	Incl.
Water - Ground	Lang Index	SM 2330-B	6	Inci.	Incl.
Water - Ground	pH/ Temp	SM 4500-H-B	6	Incl.	Inci.
Water - Ground	TDS	SM 2540-C	6	Incl.	incl.
Water - Ground	Nitrate/ Nitrite Nitrogen	Calculation	6	\$0.00	\$0.00
Water - Ground	B - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ca - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Fe - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ag - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ag - Totai	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Al - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	As - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ba - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Be - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cd - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Co - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cr - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cu - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mo - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ni - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Pb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Sb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Se - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	TI - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	V - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Zn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Chloride	EPA 300.0	6	\$18.00	\$108.00

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Page 1 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

CAL Task				
221129086				
	Colorodo		Quotation for /	Analytical Servi
JML	Analytical		Quote ID:	QBO22050014
	LABORATORIES, INC.			
Water - Ground	Fluoride	EPA 300.0	6	\$18.00
Water - Ground	Nitrate Nitrogen	EPA 300.0	6	\$18.00
Water - Ground	Nitrite Nitrogen	EPA 300.0	6	\$18.00
Water - Ground	Sulfate	EPA 300.0	6	\$18.00
Water - Ground	U - Dis	EPA 200.8	6	\$23.00
Water - Ground	Hg	EPA 245.7	6	\$27.00
Water - Ground	Total Coliform	SM 9221-B	6	\$27.00
Water - Ground	Cyanide - Free	ASTM D4282-15	6	\$40.00
Water - Ground	Phenols	EPA 420.4	6	\$55.00

EPA 200.7/EPA 200.8

SM 7110-B

EPA 625

UPS or FedEx

TEM

UPS

Metals (sub) for dissolved lithium. Hg - dissolved. Only 2-Chlorophenol and Phenol

Water - Ground

Water - Ground

Water - Ground

Water - Ground

Shipping

Shipping

Metals (Sub)

625 SOCs

Outside Lab

Lab

Gross Alpha/Beta (Sub)

Sample Shipment to Outside

Ext. Sample Shipment to

needed for 625. Customer field filtering dissolved metals.

Asbestos (Sub)

\$6,983.60

ces

\$67.20

\$68.40

\$120.00

\$225.00

\$30.00

\$50.00

6

6

6

6

2

1

\$108.00 \$108.00 \$108.00 \$108.00 \$138.00 \$162.00 \$162.00 \$240.00 \$330.00

\$403.20

\$410.40

\$720.00

\$60.00

\$50.00

\$1,350.00

Samples should be shipped or hand delivered the same day they are collected. Orders that requrie sub-lab analysis should be delivered to the lab Monday thru Wednesday only.

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and coliform bacteria.

Sub-Lab analysis pricing subject to change. Sub-Lab radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix. Due to time, distance and other constraints outside of the control of CAL shipments to sub labs are not guranteed. All shipment charges will be billed to the client regardless of shipment outcome.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-659-2313 or visit us at www.coloradolab.com

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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

🛟 eurofins

December 04, 2022

Built Environment Testing Reservoirs

Subcontractor Number:Laboratory Report:RES 5437Project #/P.O. #:22112908Project Description:Grand Isl

RES 543731-1 221129086 Grand Island Resources

Jessi Lupfer Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City CO 80640

Dear Jessi,

Eurofins Reservoirs is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA LAP, LLC), Lab ID 101533 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Eurofins Reservoirs has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 543731-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Eurofins Reservoirs will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed, as received by the customer. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Eurofins Reservoirs Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

hence by Norberto Zimbelman

Jeanne Spencer President



EUROFINS RESERVOIRS ENVIRONMENTAL, INC

NVLAP Lab Code 101896-0 AIHA LAP, LLC. LAB ID 101533

TABLE: I ANALYSIS: TEM WATER SAMPLE ANALYTICAL RESULTS

RES Job Number:	RES 543731-1
Client:	Colorado Analytical Laboratories, Inc.
Client Project/P.O.:	221129086
Client Project Description:	Grand Island Resources
Date Samples Received:	November 30, 2022
Analysis Type:	REI TEM SOP / USEPA 100.2-M
Turnaround:	Standard 10
Date Samples Analyzed:	December 01 - December 04, 2022

NA = Not Analyzed NR = Not Received ND = None Detected TR = Trace; <1 % Visual Estimate Trem-Act = Tremolite-Actinolite

Laboratory	Sample ID	Aliquot Deposited on Filter	Dilution Factor	Total Number of Asbestos Structures	Greater than 10 Micron Length Asbestos Structures	Analytical Sensitivity	Total Asbestos Concentration	Greater than 10 Micron Length Asbestos Concentration
	Client ID Number	(ml)		Detected	Detected	(million struct/L)	(million struct/L)	(million struct/L)
543731 -	221129086-01H Cross Portal	20	1	ND	ND	0.17	BAS	BAS
543731 -	221129086-02H Cross Well	20	1	ND	ND	0.17	BAS	BAS
543731 -	221129086-03H Compliance Well	20	1	ND	ND	0.17	BAS	BAS
543731 -	221129086-04H Compliance Well - FB	20	1	ND	ND	0.17	BAS	BAS
543731 -	221129086-05H Caribou Portal	20	1	ND	ND	0.17	BAS	BAS
543731 -	221129086-06H Caribou Portal - FB	20	1	ND	ND	0.17	BAS	BAS
543731 -	221129086-07H Caribou Well	20	1	ND	ND	0.17	BAS	BAS

Filter Material = Mixed Cellulose Ester

Filter Diameter = 25mm

Effective Filter Area = 0mm²

Average Grid Opening = 0.010mm²

Norberto Zimbelman Analyst

Allyman III

Analyst



Built Environment Testing

RES Job #: 543731

SUBMITTED BY	INVOICE TO	CONTACT INFORMATION	SERIES
Company: Colorado Analytical Laboratories, Inc.	Company: Colorado Analytical Laboratories, Inc.	Contact: Jessi Lupfer	-1 TEM Standard 10
Address: 10411 Heinz Way	Address: 10411 Heinz Way	Phone: (303) 659-2313	
		Fax:	
Commerce City, CO 80640	Commerce City, CO 80640	Cell:	
Project Number and/or P.O. #: 221129086		Final Data Deliverable Email Address:	
Project Description/Location: Grand Island Reso	ces	jessilupfer@coloradolab.com (+ 6 ADDNL. CONTACTS)	

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm		REQUESTED ANALYSIS						VALID MATRIX CODES					LAB NOTES		
PLM / PCM / TEM DTL RUSH PRIORITY STANDARD										Air = A			Bulk = E	3	
					کر آت		ria, Plate		C	Dust = [כ	<u> </u>	Food =	F	
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm					,602(-iqui		Liste obic Wate		F	aint = l	Р		Soil = S	5	
Dust RUSH PRIORITY STANDARD					7303 Non-l		1-2), , Aer king D),		Su	face =	SU		Swab = S	W	
	TAT				d or l	-	le or & Mo -Drin or w/l		Г	ape =	Т		Wipe = \	N	
Metals RUSH PRIORITY STANDARD	AI				Liqui		urab aast 8 Non VID c	ы	[C	Drinkin	g Wat	er = DW		
					PH (Cult ls, Ye ater, NP	ificati	[1	Waste	Wate	r = WW		
Organics* SAME DAY RUSH PRIORITY STANDARD		5			vare) 25G),		auret auret Cour Bella (F	dent	**AS	TM E17	792 apj	prove	d wipe medi	a only**	
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm		B43			00 d		almor d, S.3 Drinki obial gione	late I		(tor					
Viable Analysis** PRIORITY STANDARD		CAR	5		SHA SHA	TSS	Is, Sa Plate Micn Micn	articu		Aliqu					
**TAT DEPENDENT ON SPEED OF MICROBIAL GRO	OWTH	port,	100		e Va	nine,	acillums - l ms - l e Wa iable iable	ų P		aper					
Medical Device Analysis RUSH STANDARD		g Re	EPA	SHA	e Naste dwar	netar	er, B blifon (Stat (Stat id, V id, V	kМo		r Are					
		, Lon	iter (B, O	Foo	ampl	obact oli/Cc ooli- tic Ac fic Ac	, Bul	ŋ	dth (o					
Mold Analysis RUSH PRIORITY STANDARD		pode	g Wa	7400	Resp lyte(; 22, 74 Vater Sca	Meth	npylc , E.o. ns/E.o. +/- ol	Trap	/Are	× Wi					
**Turnaround times establish a laboratory priority, subject to laboratory volume and are not		ort R	nkin	00A,	Ana Ana (708 ste V ste V	-S	- Car 7:H7 7:H7 fiforn liforn tion), cus (pore	e (L)	lots)		(0	p.	þe	
guaranteed. Additional fees apply for afterhours, weekends and holidays.**		- Sh	-Dri	I - 74	ALS - T	ANI	LES 015 t, Co tifica 0000	S-Q	olum	Aliqu	ę	iners	d/y	nm nm	
Special Instructions:		PLM	TEM	PCN	DUS MET	ORG	VIAB E.coli Duan Duan	MOL	ple V	ith(or	× Co	Conta	te Co	hh:r	Laboratory Analysis
Client Sample ID Number (Sample ID's must be unique)		ASI	BEST	os	CHEMIST	RY	MICROBIOL	OGY	Sam	Lenç	Matr	# of (Da	μ	manuchons
1 221129086-01H Cross Portal			X						1L		W	1	11/29/22	11:00	
2 221129086-02H Cross Well			X			-			1L	1	W	1	11/29/22	11:30	
3 221129086-03H Compliance Well			X			-			1L	1	W	1	11/29/22	12:00	
4 221129086-04H Compliance Well - FB			X			-			1L	1	W	1	11/29/22	12:00	
5 221129086-05H Caribou Portal			X				•		1L	1	W	1	11/29/22	12:30	
6 221129086-06H Caribou Portal - FB			X						1L	1	W	1	11/29/22	12:30	
7 221129086-07H Caribou Well			X						1L	1	W	1	11/29/22	13:30	

EREI establishes a unique Lab Sample ID, for each sample, by preceding each unique Client Sample ID with the laboratory RES Job Number.

EREI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall consitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	20	Jessi Lupfer	Date/Time: 11/30/2022 10:08:36	Sample Condition: Acceptable	
Received By:	Partor	Jessica Parker	Date/Time: 11/30/2022 13:38:07	Carrier: Fed-Ex	
(303) 964-1986			5801 Logan St. Suite 100, Denver, CO 80216	www.	eilab.com

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	AME
Primary Scope	JEM-100CX II	Sample Type	Water	Analysis Date	12/01/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	543731-1	Date Received	11/30/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221129086-01H Cross Portal	Method	EPA 100.2	Scope Align	12/01/2022
Suspension	1000	Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
В	C3-6	ND									
	E3-3	ND									
	F3-3	ND									
	E3-6	ND									
	F3-6	ND									
Α	C4-4	ND									
	E4-1	ND									
	E4-4	ND									
	F4-1	ND									
	F4-4	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	12/04/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	543731-1	Date Received	11/30/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221129086-02H Cross Well	Method	EPA 100.2	Scope Align	12/04/2022
Suspension	1000	Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
A	G4-1	ND									
	F4-1	ND									
	E4-4	ND									
	C4-1	ND									
	C2-6	ND									
В	H3-6	ND									
	G3-6	ND									
	F3-6	ND									
	E3-6	ND									
	C3-6	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	12/04/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	543731-1	Date Received	11/30/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221129086-03H Compliance Well	Method	EPA 100.2	Scope Align	12/04/2022
Suspension	1000	Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
Α	G4-4	ND								Yes	
	F4-4	ND									
	E4-4	ND									
	C4-4	ND									
	B4-4	ND									
В	G4-6	ND									
	F4-6	ND									
	E4-6	ND									
	E3-3	ND									
	C3-3	ND									
Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ						
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Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	12/04/2022						
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect						
Magnification	20000	Res Number	543731-1	Date Received	11/30/2022						
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01						
Sample ID	221129086-04H Compliance Well - FB	Method	EPA 100.2	Scope Align	12/04/2022						
Suspension	1000	Aliquot	20	Grid Openings	10						

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
В	G4-6	ND									
	F4-6	ND									
	E4-6	ND									
	C4-6	ND									
	B4-6	ND									
Α	L4-3	ND									
	K4-3	ND									
	H4-3	ND									
	G4-3	ND								Yes	
	F4-3	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	12/04/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	543731-1	Date Received	11/30/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221129086-05H Caribou Portal	Method	EPA 100.2	Scope Align	12/04/2022
Suspension	1000	Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
В	H5-1	ND								Yes	
	G5-1	ND								Yes	
	F5-1	ND									
	E5-1	ND									
	C5-1	ND									
	B5-1	ND								Yes	
А	H5-1	ND									
	G5-1	ND									
	F5-1	ND									
	C5-1	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	12/01/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	543731-1	Date Received	11/30/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221129086-06H Caribou Portal - FB	Method	EPA 100.2	Scope Align	12/01/2022
Suspension	1000	Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
A	G4-1	ND									
	F4-4	ND									
	F4-1	ND									
	E4-4	ND									
	E4-1	ND									
	C3-3	ND									
В	H4-4	ND									
	G4-4	ND									
	F4-4	ND									
	E4-4	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	12/04/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	543731-1	Date Received	11/30/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221129086-07H Caribou Well	Method	EPA 100.2	Scope Align	12/04/2022
Suspension	1000	Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
A	G3-6	ND								Yes	
	F3-6	ND									
	E5-4	ND									
	C5-4	ND									
	B5-4	ND									
В	E4-6	ND									
	C4-6	ND									
	B4-6	ND									
	A4-6	ND									
	F4-1	ND									



Analytical Results

TASK NO: 221129086

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Cross Portal Sample Date/Time: 11/29/22

11:00 AM

Lab Number: 221129086-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	95.9 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Calcium as CaCO3	63.2 mg/L	EPA 200.7	0.1 mg/L	12/1/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Langelier Index	-1.11 units	SM 2330-B	units	12/6/22	-	SAN
рН	6.89 units	SM 4500-H-B	0.01 units	11/29/22	-	DEK
Temperature	20 °C	SM 4500-H-B	1 °C	11/29/22	-	DEK
Total Alkalinity	95.9 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/30/22	QC61333	DEK
Total Dissolved Solids	143 mg/L	SM 2540-C	5 mg/L	12/5/22	QC61357	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 11



Analytical Results

TASK NO: 221129086

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID Cross Well

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Sample Date/Time:	11/29/22 11:30 AM					
Lab Number: 2	221129086-02					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	61.0 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Calcium as CaCO3	42.9 mg/L	EPA 200.7	0.1 mg/L	12/1/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Langelier Index	-2.10 units	SM 2330-B	units	12/6/22	-	SAN
рН	6.19 units	SM 4500-H-B	0.01 units	11/29/22	-	DEK
Temperature	20 °C	SM 4500-H-B	1 °C	11/29/22	-	DEK
Total Alkalinity	61.0 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/30/22	QC61333	DEK
Total Dissolved Solids	80 mg/L	SM 2540-C	5 mg/L	12/5/22	QC61357	DEK

Abbreviations/ References:

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(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 11



Analytical Results

TASK NO: 221129086

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 11/29/22 12:00 PM Lab Number: 221129086-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	56.9 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Calcium as CaCO3	42.8 mg/L	EPA 200.7	0.1 mg/L	12/1/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Langelier Index	-2.02 units	SM 2330-B	units	12/6/22	-	SAN
рН	6.30 units	SM 4500-H-B	0.01 units	11/29/22	-	DEK
Temperature	20 °C	SM 4500-H-B	1 °C	11/29/22	-	DEK
Total Alkalinity	56.9 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/30/22	QC61333	DEK
Total Dissolved Solids	87 mg/L	SM 2540-C	5 mg/L	12/5/22	QC61357	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 3 of 11



Analytical Results

TASK NO: 221129086

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Compliance Well - FB

Sample Date/Time: 11/29/22 12:00 PM Lab Number: 221129086-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Calcium as CaCO3	ND	EPA 200.7	0.1 mg/L	12/1/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Langelier Index	-7.64 units	SM 2330-B	units	12/6/22	-	SAN
рН	6.35 units	SM 4500-H-B	0.01 units	11/29/22	-	DEK
Temperature	20 °C	SM 4500-H-B	1 °C	11/29/22	-	DEK
Total Alkalinity	ND	SM 2320-B	4.0 mg/L as CaCO3	11/30/22	QC61333	DEK
Total Dissolved Solids	ND	SM 2540-C	5 mg/L	12/5/22	QC61357	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 4 of 11



Analytical Results

TASK NO: 221129086

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 11/29/22 12:30 PM Lab Number: 221129086-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	113.6 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Calcium as CaCO3	68.0 mg/L	EPA 200.7	0.1 mg/L	12/1/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Langelier Index	-0.31 units	SM 2330-B	units	12/6/22	-	SAN
рН	7.58 units	SM 4500-H-B	0.01 units	11/29/22	-	DEK
Temperature	20 °C	SM 4500-H-B	1 °C	11/29/22	-	DEK
Total Alkalinity	113.6 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/30/22	QC61333	DEK
Total Dissolved Solids	136 mg/L	SM 2540-C	5 mg/L	12/5/22	QC61357	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 5 of 11



Analytical Results

TASK NO: 221129086

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal - FB

Sample Date/Time: 11/29/22 12:30 PM

Lab Number: 221129086-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Calcium as CaCO3	ND	EPA 200.7	0.1 mg/L	12/1/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Langelier Index	-6.09 units	SM 2330-B	units	12/6/22	-	SAN
рН	6.10 units	SM 4500-H-B	0.01 units	11/29/22	-	DEK
Temperature	20 °C	SM 4500-H-B	1 °C	11/29/22	-	DEK
Total Alkalinity	ND	SM 2320-B	4.0 mg/L as CaCO3	11/30/22	QC61333	DEK
Total Dissolved Solids	ND	SM 2540-C	5 mg/L	12/5/22	QC61357	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 6 of 11



Analytical Results

TASK NO: 221129086

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 11/29/22 1:30 PM

Lab Number: 221129086-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	17.9 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Calcium as CaCO3	9.9 mg/L	EPA 200.7	0.1 mg/L	12/1/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	11/30/22	-	DEK
Langelier Index	-3.96 units	SM 2330-B	units	12/6/22	-	SAN
рН	5.50 units	SM 4500-H-B	0.01 units	11/29/22	-	DEK
Temperature	20 °C	SM 4500-H-B	1 °C	11/29/22	-	DEK
Total Alkalinity	17.9 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	11/30/22	QC61333	DEK
Total Dissolved Solids	26 mg/L	SM 2540-C	5 mg/L	12/5/22	QC61357	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 7 of 11



Analytical QC Summary

TASK NO: 221129086

Report To: Patrick Delaney **Company:** Grand Island Resources LLC Receive Date: 11/29/22 Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	
Total Alkalinity	QC61333	Blank	ND		SM 2320-B	
Total Dissolved Solids	QC61357	Blank	ND		SM 2540-C	
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Total Alkalinity	QC61333	Duplicate	0 - 20	-	2.1	SM 2320-B
		LCS	90 - 110	100.2	-	
		LCS-2	90 - 110	105.5	-	
Total Dissolved Solids	QC61357	Duplicate	0 - 20	-	0.5	SM 2540-C
		LCS	85 - 115	100.9	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 8 of 11

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Grand Island Resources	Company Name: Credit Card	
Contact Name: Brooke Morray	Contact Name:	
Address: 12567 W. Cedar Dr.	Address:	Task Number (Lab Use Only)
city Lakewood state CO Zip 80228	City State Zip	
Phone: 303-506-1618	Phone:	CAL Task
Email: bmolsonm@g.emporior.	Email: Sergio.rivera@	221129086
Sample Collector: BM	o porametal inscorp	JML
Sample Collector Phone: 303-506-1618	PO No.:	



<u>Commerce City Lab</u> 10411 Heinz Way Commerce City CO 80640

Lakewood Service Center 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

4

Phone: 303-659-2313

www.coloradolab.com

									1	ests R	leques	sted			
Sa	imple Matrix (Select One On	(y)		nly)	In										
Waste Water	Soil	Drinking Water 🗌	liners	ne O	Q	B	0	24	fΥ	90	PΥ	ΛĦ			
Ground Water X			Conta	ck O	a V	PI	7A	TE	P	1 C)/2	71	'22		
Surface Water			ofC	th Chea	od II										
Date Time	Sample I	D .	Ŷ	or Gra	3										
1/29/2211:00 CRO	SS PORTAL		9	G											
129/22 11:30 CRC	ISS WELL		9	G											
129/2212:00 CON	IPLIANCE WI	ELL	9	6											
129/2212:00 CON	IPLIANCE WI	EU-FB	9	6											
1/20/2212:30 CAR	LIBOU PORTAL		9	6											
1/19/2212:30 CAR	RIBOU PORTA	L-FB	9	6											
1/29/2213:30 CAF	ZIBOU WELL		9	8											
	· · · · · · · · · · · · · · · · · · ·														
		X Pu	WB	rook	e C	B	Sal	NOU	15/	not	4.1	elH	Fi	Here	<u>i</u> cl
Instructions: FIELD Fill GROSS ALTHA.	OTHER BOTLES	ITRICE C/S Info: NOT I	140	`				1	Seals	Present	Yes 🔲				
FILTERED Relinquished By: Dat	te/Time: Received By:	Deliver V	Relingu	ished By	•		<u>C/S°C</u> Dateľ	harge <u>□</u> Fime•	Temp	p. <u> </u>	°C/Ice By:	<u> </u>	Sample I	Pres. Yes Date/Tin	<u>)No 🔲</u>
Reiniguistica By: Dat	29/72 Lisoph	11-29-22	Q of 11	lisiicu Dy	•		Date/			u	D y. ,			Dater	н с.
	T T T	6.5													

CAL Task 221129086

JML

Project:

Monthly Groundwater

Colorado Analytical

Quotation for Analytical Services

Quote ID: QBO22050014

LABORATORIES, INC.

Prepared For:	Grand Island Resources LLC
	12567 W Cedar Dr
	Suite 250
	Lakewood, CO 80228

Attn: Brooke Molson-Moran

Quote Date: Wednesday, May 4, 2022 Turn Around Time: 10 Working Days

			2		
Matrix	Description	Method	Qty.	Price - each	Total
Water - Ground	Langelier Index	N/A	6	\$60.00	\$360.00
Water - Ground	Alkalinity	SM 2320-B	6	Incl.	Inci.
Water - Ground	Ca as CaCO3	EPA 200.7	6	Inci.	Incl.
Water - Ground	Carb/ Bicarb	SM 2320-B	. 6	Incl.	Incl.
Water - Ground	Lang Index	SM 2330-B	6	Inci.	Incl.
Water - Ground	pH/ Temp	SM 4500-H-B	6	Incl.	Inci.
Water - Ground	TDS	SM 2540-C	6	Incl.	incl.
Water - Ground	Nitrate/ Nitrite Nitrogen	Calculation	6	\$0.00	\$0.00
Water - Ground	B - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ca - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Fe - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ag - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ag - Totai	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Al - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	As - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ba - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Be - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cd - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Co - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cr - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cu - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mo - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ni - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Pb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Sb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Se - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	TI - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	V - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Zn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Chloride	EPA 300.0	6	\$18.00	\$108.00

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Page 1 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

CAL Task				
221129086				
JML	Colorado Analytical		Quotation for A Quote ID:	Analytical Service QBO22050014
	LABORATORIES, INC.			
Water - Ground	Fluoride	EPA 300.0	e	\$18.00
Water - Ground	Nitrate Nitrogen	EPA 300.0	6	\$18.00
Water - Ground	Nitrite Nitrogen	EPA 300.0	6	\$18.00
Water - Ground	Sulfate	EPA 300.0	6	\$18.00
Water - Ground	U - Dis	EPA 200.8	e	\$23.00
Water - Ground	Hg	EPA 245.7	6	\$27.00
Water - Ground	Total Coliform	SM 9221-B	6	\$27.00
Water - Ground	Cyanide - Free	ASTM D4282-15	6	\$40.00
Water - Ground	Phenols	EPA 420.4	e	\$55.00
Water - Ground	Metals (Sub)	EPA 200 7/EPA 200 8	6	s \$67.20

SM 7110-B

EPA 625

UPS or FedEx

TEM

UPS

Metals (sub) for dissolved lithium. Hg - dissolved. Only 2-Chlorophenol and Phenol needed for 625, Customer field filtering dissolved metals.

Gross Alpha/Beta (Sub)

Sample Shipment to Outside

Ext. Sample Shipment to

Asbestos (Sub)

625 SOCs

Outside Lab

Lab

Water - Ground

Water - Ground

Water - Ground

Shipping

Shipping

\$6,983.60

\$108.00 \$108.00 \$108.00 \$108.00 \$138.00 \$162.00 \$162.00 \$240.00 \$330.00 \$403.20

\$410.40

\$720.00

\$60.00

\$50.00

\$1,350.00

6

6

6

2

1

\$68.40

\$120.00

\$225.00

\$30.00

\$50.00

Samples should be shipped or hand delivered the same day they are collected. Orders that requrie sub-lab analysis should be delivered to the lab Monday thru Wednesday only.

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and coliform bacteria.

Sub-Lab analysis pricing subject to change. Sub-Lab radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix. Due to time, distance and other constraints outside of the control of CAL shipments to sub labs are not guranteed. All shipment charges will be billed to the client regardless of shipment outcome.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-659-2313 or visit us at www.coloradolab.com

Page 2 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK



ANALYTICAL SUMMARY REPORT

December 14, 2022

Colorado Analytical Laboratories Inc

PO Box 507 Brighton, CO 80601-0507

Work Order: C22120028 Quote ID: C15681

Project Name: 221129086; Monthly Groundwater

Energy Laboratories, Inc. Casper WY received the following 7 samples for Colorado Analytical Laboratories Inc on 12/1/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C22120028-001	221129086-01G - Cross Portal	11/29/22 11:00) 12/01/22	Groundwater	Metals by ICP/ICPMS, Dissolved
C22120028-002	221129086-02G - Cross Well	11/29/22 11:30	0 12/01/22	Groundwater	Same As Above
C22120028-003	221129086-03G - Compliance Well	11/29/22 12:00	0 12/01/22	Groundwater	Same As Above
C22120028-004	221129086-04G - Compliance Well - FB	11/29/22 12:00	0 12/01/22	Groundwater	Metals by ICP/ICPMS, Dissolved Sample Filtering, Metals
C22120028-005	221129086-05G - Caribou Portal	11/29/22 12:30	0 12/01/22	Groundwater	Metals by ICP/ICPMS, Dissolved
C22120028-006	221129086-06G - Caribou Portal - FB	11/29/22 12:30	0 12/01/22	Groundwater	Metals by ICP/ICPMS, Dissolved Sample Filtering, Metals
C22120028-007	221129086-07G - Caribou Well	11/29/22 13:30	0 12/01/22	Groundwater	Metals by ICP/ICPMS, Dissolved

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:

ENERGY	
LABORATORIES	

CLIENT:Colorado Analytical Laboratories IncProject:221129086; Monthly GroundwaterWork Order:C22120028

Report Date: 12/14/22

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	12/14/22
Project:	221129086; Monthly Groundwater	Collection Date:	11/29/22 11:00
Lab ID:	C22120028-001	DateReceived:	12/01/22
Client Sample ID:	221129086-01G - Cross Portal	Matrix:	Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.05	E200.7	12/08/22 16:22 / eli-b

Report Definitions: RL - Analyte Reporting Limit

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	12/14/22
Project:	221129086; Monthly Groundwater	Collection Date:	11/29/22 11:30
Lab ID:	C22120028-002	DateReceived:	12/01/22
Client Sample ID:	221129086-02G - Cross Well	Matrix:	Groundwater

Analyses	Result Units	Qualifiers R	MCL/ L QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L 0.	05	E200.7	12/08/22 16:35 / eli-b

Report Definitions: RL - Analyte Reporting Limit

QCL - Quality Control Limit

 $\ensuremath{\mathsf{L}}$ - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	12/14/22
Project:	221129086; Monthly Groundwater	Collection Date:	11/29/22 12:00
Lab ID:	C22120028-003	DateReceived:	12/01/22
Client Sample ID:	221129086-03G - Compliance Well	Matrix:	Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.05	E200.7	12/08/22 16:39 / eli-b

Report Definitions: RL - Analyte Reporting Limit

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	12/14/22
Project:	221129086; Monthly Groundwater	Collection Date:	11/29/22 12:00
Lab ID:	C22120028-004	DateReceived:	12/01/22
Client Sample ID:	221129086-04G - Compliance Well - FB	Matrix:	Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.05	E200.7	12/08/22 20:55 / eli-b

Report Definitions: RL - Analyte Reporting Limit

QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	12/14/22
Project:	221129086; Monthly Groundwater	Collection Date:	11/29/22 12:30
Lab ID:	C22120028-005	DateReceived:	12/01/22
Client Sample ID:	221129086-05G - Caribou Portal	Matrix:	Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.05	E200.7	12/08/22 16:44 / eli-b

Report Definitions: RL - Analyte Reporting Limit

QCL - Quality Control Limit L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	12/14/22
Project:	221129086; Monthly Groundwater	Collection Date:	11/29/22 12:30
Lab ID:	C22120028-006	DateReceived:	12/01/22
Client Sample ID:	221129086-06G - Caribou Portal - FB	Matrix:	Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.05	E200.7	12/08/22 20:59 / eli-b

Report Definitions: RL - Analyte Reporting Limit

QCL - Quality Control Limit L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	12/14/22
Project:	221129086; Monthly Groundwater	Collection Date:	11/29/22 13:30
Lab ID:	C22120028-007	DateReceived:	12/01/22
Client Sample ID:	221129086-07G - Caribou Well	Matrix:	Groundwater

Analyses	Result U	nits G	aulifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND m	ng/L	L	0.05		E200.7	12/08/22 16:48 / eli-b

Report Definitions: RL - Analyte Reporting Limit

QCL - Quality Control Limit L - Lowest available reporting limit for the analytical method used



Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	Colorado Analytical L	aborato	ries Inc		Work Order:	C2212	20028	Repo	rt Date:	12/09/22	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.7							Ana	ytical Ru	n: ICP203-B	_221208B
Lab ID:	ICV	Co	ntinuing Cal	libration \	Verification Standa	rd				12/08	8/22 12:40
Lithium			1.28	mg/L	0.10	103	95	105			
Lab ID:	CCV	Co	ntinuing Cal	libration \	Verification Standa	rd				12/08	3/22 15:36
Lithium			1.32	mg/L	0.10	106	90	110			
Lab ID:	CCV	Co	ntinuing Cal	libration	Verification Standa	rd				12/08	3/22 16:26
Lithium			1.30	mg/L	0.10	104	90	110			
Lab ID:	CCV	Co	ntinuing Cal	libration	Verification Standa	rd				12/08	3/22 20:31
Lithium			1.25	mg/L	0.10	100	90	110			
Method:	E200.7									Batch	: R392459
Lab ID:	MB-6500DIS221208E	B Me	thod Blank				Run: ICP20)3-B_221208B		12/08	3/22 13:04
Lithium			ND	mg/L	0.01						
Lab ID:	LFB-6500DIS221208	B La	boratory For	rtified Bla	ink		Run: ICP20)3-B_221208B		12/08	3/22 13:09
Lithium			1.07	mg/L	0.10	107	85	115			
Lab ID:	B22120324-001BMS	2 Sa	mple Matrix	Spike			Run: ICP20)3-B_221208B		12/08	8/22 16:09
Lithium			2.16	mg/L	0.10	104	70	130			
Lab ID:	B22120324-001BMS	D Sa	mple Matrix	Spike D	uplicate		Run: ICP20)3-B_221208B		12/08	8/22 16:13
Lithium			2.14	mg/L	0.10	103	70	130	0.8	20	
Lab ID:	B22120395-002AMS2	2 Sa	mple Matrix	Spike			Run: ICP20)3-B_221208B		12/08	8/22 17:10
Lithium			1.09	mg/L	0.10	108	70	130			
Lab ID:	B22120395-002AMSI	D Sa	mple Matrix	Spike D	uplicate		Run: ICP20)3-B_221208B		12/08	8/22 17:14
Lithium			1.09	mg/L	0.10	108	70	130	0.1	20	
Lab ID:	B22120471-002CMS	2 Sa	mple Matrix	Spike			Run: ICP20)3-B_221208B		12/08	8/22 18:24
Lithium			2.17	mg/L	0.10	106	70	130			
Lab ID:	B22120471-002CMSI	D Sa	mple Matrix	Spike D	uplicate		Run: ICP20)3-B_221208B		12/08	8/22 18:29
Lithium			2.15	mg/L	0.10	105	70	130	1.4	20	
Lab ID:	MB-173154	Me	thod Blank				Run: ICP20)3-B_221208B		12/08	8/22 19:52
Lithium			ND	mg/L	0.01						



C22120028

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

Login completed by: Kirsten L.	Smith	Date Received: 12/1/2022					
Reviewed by: cjohnson		Received by: cch					
Reviewed Date: 12/2/2022		Carrier name: FedEx					
Shipping container/cooler in good condition	?	Yes 🗹	No 🗌	Not Present			
Custody seals intact on all shipping contain	er(s)/cooler(s)?	Yes	No 🗌	Not Present 🗹			
Custody seals intact on all sample bottles?		Yes 🗌	No 🗌	Not Present 🗹			
Chain of custody present?		Yes 🗹	No 🗌				
Chain of custody signed when relinquished	and received?	Yes 🗹	No 🗌				
Chain of custody agrees with sample labels	?	Yes 🗹	No 🗌				
Samples in proper container/bottle?		Yes 🗹	No 🗌				
Sample containers intact?		Yes 🗹	No 🗌				
Sufficient sample volume for indicated test	?	Yes 🗹	No 🗌				
All samples received within holding time? (Exclude analyses that are considered field such as pH, DO, Res CI, Sulfite, Ferrous I	parameters on, etc.)	Yes 🗹	No 🗌				
Temp Blank received in all shipping contain	er(s)/cooler(s)?	Yes	No 🗹	Not Applicable			
Container/Temp Blank temperature:		1.8°C On Ice					
Containers requiring zero headspace have bubble that is <6mm (1/4").	no headspace or	Yes 🗌	No 🗌	No VOA vials submitted	\checkmark		
Water - pH acceptable upon receipt?		Yes 🗌	No 🗹	Not Applicable			

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

Dissolved Metals/Hardness were filtered and preserved to pH <2 with 2 mL of nitric acid per 250 mL in the laboratory. According to 40CFR136, samples for Dissolved Metals should be filtered and preserved within 15 minutes of collection. 12/1/2022-KS

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Ship
To:
Energy
Labs

Comment: 22112908 22112908 22112908 22112908 22112908 22112908 22112908 22112908 22112908	Sample Date/Time	Address: <u>10411 Heinz Way</u> <u>Commerce City, CO B(</u> Phone: <u>303-659-231</u>	Report To Information Company Name: <u>Colo</u> Report To: <u>Stui</u> E-Mail: <u>stua</u>	E PO
6-01G - Please report Dissolv 6-02G - Please report Dissolv 6-04G - Please report Dissolv 6-05G - Please report Dissolv 6-06G - Please report Dissolv 6-07G - Please report Dissolv	Sample D	<u>3</u> <u>3</u>	orado Analytical Laboratory art Nielson rtnielson@coloradolab.com	nalytical
ed Lithium. ed Lithium. ed Lithium. ed Lithium. ed Lithium. ed Lithium.	Matrix	Address:	Bill To Information (If different from	Sub-Lab Chain of Cust
t ben fi Hered	(qns) siziejų Tests Reque	CAL TASK C 221129086 S JML	report to)	ody Form
ar preserved.	sted	ompliance Samples: Yes 🗌 ubmit Data to CDPHE: Yes 🗌	Project Name Monthly Groundwater	Ship To: Energy La
	Container Type	₹ ₹ K K		2028

Relinquished by: (Signature)

Steland

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1(136/02-Date: Time:

(Signature) Received by

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Date Time:

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Date: Time:

Received by: (Signature)

Date: Time:

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Page 2 of 2

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Page 13 of 13



Hazen Research, Inc. 4601 Indiana Street Golden, CO 80403 USA Tel: (303) 279-4501 Fax: (303) 278-1528

Customer ID: 20040H Account ID: Z01034 Lab Control ID: 22M03281 Received: Nov 30, 2022 Reported: Jan 03, 2023 Purchase Order No. None Received

Stuart Nielson Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City, CO 80640

ANALYTICAL REPORT

Report may only be copied in its entirety. Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

Num Nan By:

Roxanne Sullivan Analytical Laboratories Director



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03281-001							
Custom	er Sam	ple ID	221129086-0	1F - Monthl	y Ground V	/ater - Cross Portal				
				sampled on 11/29/22 @ 1100						
				Precision*	Detection		Analysis			
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst		
Gross Alpha	pCi/L	Т	1.6	1.3	0.1	SM 7110 B	12/21/22 @ 0915	RG		
Gross Beta	pCi/L	Т	<2.9	2.3	2.9	SM 7110 B	12/21/22 @ 0915	RG		

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	nple ID	22M03281-002					
Custom	er Sam	nple ID	221129086-0	2F - Monthl	ly Ground V	Vater - Cross Well		
				sampled or	n 11/29/22 (@ 1130		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.8	1.1	0.1	SM 7110 B	12/21/22 @ 0917	RG
Gross Beta	pCi/L	Т	<2.9	2.3	2.9	SM 7110 B	12/21/22 @ 0917	RG

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03281-003					
Custom	er Sam	ple ID	221129086-0	3F - Month	ly Ground V	Vater - Compliance Well		
				sampled or	n 11/29/22 (@ 1200		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	0.8	1.0	0.1	SM 7110 B	12/21/22 @ 0918	RG
Gross Beta	pCi/L	Т	<2.7	2.1	2.7	SM 7110 B	12/21/22 @ 0918	RG

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03281-004								
Custom	er Sam	ple ID	221129086-0	221129086-04F - Monthly Ground Water - Compliance Well - FB							
				sampled or	n 11/29/22 (@ 1200					
				Precision*	Detection		Analysis				
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst			
Gross Alpha	pCi/L	Т	0.3	0.8	0.1	SM 7110 B	12/21/22 @ 0920	RG			
Gross Beta	pCi/L	Т	<2.8	2.0	2.8	SM 7110 B	12/21/22 @ 0920	RG			

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03281-005					
Custom	er Sam	ple ID	221129086-0	5F - Monthl	y Ground V	Vater - Caribou Portal		
				sampled or	n 11/29/22 (@ 1230		
				Precision*	Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	Т	4.0	2.0	0.1	SM 7110 B	12/21/22 @ 0922	RG
Gross Beta	pCi/L	Т	<2.7	2.2	2.7	SM 7110 B	12/21/22 @ 0922	RG

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03281-006						
Customer Sample ID			221129086-06F - Monthly Ground Water - Caribou Portal - FB						
				sampled or	n 11/29/22 (@ 1230			
				Precision*	Detection		Analysis		
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	0.6	0.8	0.1	SM 7110 B	12/29/22 @ 0958	RG	
Gross Beta	pCi/L	Т	<3.0	2.1	3.0	SM 7110 B	12/29/22 @ 0958	RG	

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03281-007								
Customer Sample ID			221129086-07F - Monthly Ground Water - Caribou Well								
			sampled on 11/29/22 @ 1330								
				Precision*	Detection		Analysis				
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst			
Gross Alpha	pCi/L	Т	0.7	1.0	0.1	SM 7110 B	12/29/22 @ 1002	RG			
Gross Beta	pCi/L	Т	<3.0	2.1	3.0	SM 7110 B	12/29/22 @ 1002	RG			

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
Date: 12/21/2022

Batch QC Summary Form

Analyte: Gross Alpha				
Control Standard/LFB:	ID: C-11a_002	pCi/mL:	57.4	(use 1 diluted)
Spike Solution:	ID: C-11a_002	pCi/mL:	57.4	(use 1 mL)
Spike Recovery Calculation:	Sample: T	ap*		

Calculation:	(47.7)	(1.000)	-	(0.1)	(0.200)	x 100 =	83%
			57.4				

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	X		
Spike Recovery	70 - 130 %	X		
Blank	< or = 3 x Uncertainty	X		
Duplicate 1	95% confidence interval overlap	X		
Duplicate 2 *	95% confidence interval overlap	X		

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M03280	
22M03278	
22M03281	
22M03294	
22M03295	
22M03297	
22M03248	

Evaluator:

Michelle Stringer -----

12/22/2022

Date: 12/29/2022

Batch QC Summary Form

Analyte: Gross Alpha				
Control Standard/LFB:	ID: C-11a_002	pCi/mL:	57.4	(use 1 diluted)
Spike Solution:	ID: C-11a_002	pCi/mL:	57.4	(use 1 mL)
Spike Recovery Calculation:	Sample: T	ap*		

Calculation:	(40.8)	(1.000)	-	(1.4)	(0.200)	x 100 =	71%
			57.4				

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	X		
Spike Recovery	70 - 130 %	X		
Blank	< or = 3 x Uncertainty	X		
Duplicate 1	95% confidence interval overlap	X		
Duplicate 2 *	95% confidence interval overlap	X		

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M03281	22M03320
22M03290	22M03330
22M03310	22M03345
22M03309	
22M03313	
22M03319	

Evaluator:

Michelle Stringer —

12/30/2022

Date: 12/21/2022

Batch QC Summary Form

Analyte: Gross Beta						
Control Standard/LFB:	ID: C-11a_002	pCi/mL:	44	(use 1 diluted)		
Spike Solution:	ID: C-11a_002	pCi/mL:	44	(use 1 mL)		
Spike Recovery Calculation	: Sample:	Tap*				
Calculation:	(37.7) (1.000)	-	(0.0)	(0.200)	x 100 =	86%

44

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap	Х		

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M03280	
22M03278	
22M03281	
22M03294	
22M03295	
22M03297	
22M03248	

Evaluator:

Michelle Stringer —

12/22/2022

Date: 12/29/2022

Batch QC Summary Form

Analyte: Gross Beta						
Control Standard/LFB:	ID: C-11a_002	pCi/mL:	44	(use 1 diluted)		
Spike Solution:	ID: C-11a_002	pCi/mL:	44	(use 1 mL)		
Spike Recovery Calculation:	Sample: T	ap*				
Calculation: (3	39.4) (1.000)	-	(1.1)	(0.200)	x 100 =	89%

44

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	X		
Spike Recovery	80 - 120 %	X		
Blank	< or = 3 x Uncertainty	X		
Duplicate 1	95% confidence interval overlap	X		
Duplicate 2 *	95% confidence interval overlap	X		

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M03281	22M03320
22M03290	22M03330
22M03310	22M03345
22M03309	
22M03313	
22M03319	

Evaluator:

Michelle Stringer -----

12/30/2022

Colorado Analytical

22M03281	Ship Io: Hazen Kesearch	Preserved: $Y(N)$	HNO3 Lot #:/A	Date Preserved: \sqrt{A}
22M03281	Ship Io: Hazen Kesearch	Preserved: $Y(N)$	HNO3 Lot #: $\sqrt{N/H}$	Date Preserved: $\sqrt{ A }$

-teated	LABORATORIES, INC.			Dale Preserved	1:	Z /#	
Report To Informat	ion	Bill To Information (If different from report to)		Project Name			
Company Name: Report To:	Colorado Analytical Laboratory Stuart Nielson			Monthly Groundwater			
E-Mail:	stuartnielson@coloradolab.com						
Address:		Address:	CAL TASK	Compliance Samples:	Yes 🗌 No	>	
10411 Heinz Way			221129086	Submit Data to CDPHE:	Yes No	Σ	
Commerce City, C	O 80640		JML]]	
Phone: 303-655	-2313						
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Sample ID 221129086-01F - Cross Portal 221129086-02F - Cross Well 221129086-03F - Compliance Well 221129086-03F - Compliance Well - FB 221129086-03F - Caribou Portal - FB		Sample ID	221129086-01F - Cross Protein 221129086-02F - Cross Well	221129086-03F - Compliance Well	221129086-04F - Compliance Well - FB	221129086-05F - Caribou Portal W	221129086-06F - Caribou Portal - FB W	221129086-07F - Caribou Well	
ample Date/Time 11/29/22 11:00 AM 2 11/29/22 11:30 AM 2 11/29/22 12:30 PM 2 11/29/22 12:30 PM 2 11/29/22 12:30 PM 2 11/29/22 12:30 PM 2		sample Date/Time	11/29/22 11:00 AM 2: 11/29/22 11:30 AM 2:	11/29/22 12:00 PM 2	11/29/22 12:00 PM 2.	11/29/22 12:30 PM 2.	11/29/22 12:30 PM 2.	11/29/22 1:30 PM 2	Commont.

Page 1 of 1					DEal	D
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TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 11/29/22 11:00 AM Lab Number: 221129086-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Phenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Surrogate		PercentRed	covery Accepta	ance Limits		
2,4,6-Tribromopheno	l	78.9	16 - 1	45		
2-Fluorobiphenyl		103.1	60 - 2	40		
2-Fluorophenol		73.8	60 - 2	40		
Nitrobenzene-d5		101.4	15 - 3	314		
Phenol-d5		87.8	8 - 4	24		
p-Terphenyl-d14		115.9	44 - 1	135		

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 11



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 11/29/22 11:30 AM Lab Number: 221129086-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Phenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Surrogate		PercentRe	covery Accepta	ance Limits		
2,4,6-Tribromopheno	bl	75.0	16 - 1	145		
2-Fluorobiphenyl		110.0	60 -	140		
2-Fluorophenol		76.5	60 -	140		
Nitrobenzene-d5		108.3	15 - 3	314		
Phenol-d5		91.7	8 - 4	-24		
p-Terphenyl-d14		120.8	44 - 1	135		

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 11



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 11/29/22 12:00 PM

Lab Number: 221129086-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Phenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Surrogate		PercentRe	covery Accept	ance Limits		
2,4,6-Tribromopheno	l	72.8	16 -	145		
2-Fluorobiphenyl		109.8	60 -	140		
2-Fluorophenol		75.7	60 -	140		
Nitrobenzene-d5		105.7	15 -	314		
Phenol-d5		91.2	8 - 4	124		
p-Terphenyl-d14		121.3	44 -	135		

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 3 of 11



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Compliance Well - FB

Sample Date/Time: 11/29/22 12:00 PM Lab Number: 221129086-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Phenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Surrogate		PercentRec	overy Accepta	ance Limits		
2,4,6-Tribromopheno	l	69.4	16 - 1	145		
2-Fluorobiphenyl		109.9	60 - 1	140		
2-Fluorophenol		76.1	60 - 1	140		
Nitrobenzene-d5		106.7	15 - 3	314		
Phenol-d5		89.6	8 - 4	24		
p-Terphenyl-d14		139.1	44 - 1	135		

Surrogate above QC criteria; 5/6 surrogates meet QC criteria. MBS 12/2/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 4 of 11



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 11/29/22 12:30 PM Lab Number: 221129086-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Phenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Surrogate		PercentRed	covery Accept	ance Limits		
2,4,6-Tribromophene	bl	58.8	16 -	145		
2-Fluorobiphenyl		114.2	60 -	140		
2-Fluorophenol		73.9	60 -	140		
Nitrobenzene-d5		106.8	15 - 3	314		
Phenol-d5		89.3	8 - 4	-24		
p-Terphenyl-d14		143.7	44 -	135		

Surrogate above QC criteria; 5/6 surrogates meet QC criteria. MBS 12/2/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 5 of 11



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 Client PO: Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal - FB

Sample Date/Time: 11/29/22 12:30 PM

Lab Number: 221129086-06

Test	Result	Method	RL	Date Analyze	d QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 u	ug/L 12/2/2	2 QC61322	MBS
Phenol	ND	EPA 625	10.0 u	ug/L 12/2/2	2 QC61322	MBS
Surrogate		PercentRe	covery Ac	ceptance Limits		
2,4,6-Tribromopheno	l	63.5		16 - 145		
2-Fluorobiphenyl		107.2		60 - 140		
2-Fluorophenol		70.0		60 - 140		
Nitrobenzene-d5		103.3		15 - 314		
Phenol-d5		86.5		8 - 424		
p-Terphenyl-d14		139.4		44 - 135		

Surrogate above QC criteria; 5/6 surrogates meet QC criteria. MBS 12/2/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 6 of 11



TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221129086 **Client PO:** Client Project: Monthly Groundwater

Date Received: 11/29/22 Date Reported: 1/4/23 Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 11/29/22 1:30 PM Lab Number: 221129086-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Phenol	ND	EPA 625	10.0 ug/L	12/2/22	QC61322	MBS
Surrogate		PercentRec	overy Accepta	ance Limits		
2,4,6-Tribromopheno	l	50.9	16 - 1	145		
2-Fluorobiphenyl		106.1	60 - 2	140		
2-Fluorophenol		76.1	60 - 1	140		
Nitrobenzene-d5		105.1	15 - 3	314		
Phenol-d5		87.9	8 - 4	24		
p-Terphenyl-d14		141.8	44 - 1	135		

Surrogate above QC criteria; 5/6 surrogates meet QC criteria. MBS 12/2/2022

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 7 of 11



Analytical QC Summary

TASK NO: 221129086

Report To: Patrick Delaney Company: Grand Island Resources LLC Receive Date: 11/29/22 Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result		Method	
2-Chlorophenol	QC61322	Method Blank	ND		EPA 625	
Phenol	QC61322	Method Blank	ND		EPA 625	
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
2-Chlorophenol	QC61322	LCS	55 - 130	82.5	-	EPA 625
		LCS Dup	-	76.3	-	
		MS	23 - 134	77.3	-	
		MSD	0 - 61	-	4.0	
Phenol	QC61322	LCS	48 - 130	73.9	-	EPA 625
		LCS Dup	-	66.2	-	
		MS	5 - 120	70.8	-	
		MSD	0 - 64	-	1.8	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 8 of 11

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Grand Island Resources	Company Name: Credit Card	
Contact Name: Brooke Morray	Contact Name:	
Address: 12567 W. Cedar Dr.	Address:	Task Number (Lab Use Only)
city Lakewood state CO Zip 80228	City State Zip	
Phone: 303-506-1618	Phone:	CAL Task
Email: bmolsonm@g.emporior.	Email: Sergio.rivera@	221129086
Sample Collector: BM	o porametal inscorp	JML
Sample Collector Phone: 303-506-1618	PO No.:	



<u>Commerce City Lab</u> 10411 Heinz Way Commerce City CO 80640

Lakewood Service Center 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

4

Phone: 303-659-2313

www.coloradolab.com

									1	ests R	leques	sted			
Sa	imple Matrix (Select One On	(y)		nly)	In										
Waste Water	Soil	Drinking Water 🗌	liners	ne O	Q	B	0	24	fΥ	90	PΥ	ΛĦ			
Ground Water X			Conta	ck O	a V	PI	7A	TE	P	1 C)/2	71	'22		
Surface Water			ofC	th Chea	od II										
Date Time	Sample I	D .	Ŷ	or Gra	3										
1/29/2211:00 CRO	SS PORTAL		9	G											
129/22 11:30 CRC	ISS WELL		9	G											
129/2212:00 CON	IPLIANCE WI	ELL	9	6											
129/2212:00 CON	IPLIANCE WI	EU-FB	9	6											
1/20/2212:30 CAR	LIBOU PORTAL		9	6											
1/19/2212:30 CAR	RIBOU PORTA	L-FB	9	6											
1/29/2213:30 CAF	ZIBOU WELL		9	8											
	· · · · · · · · · · · · · · · · · · ·														
		X Pu	WB	rook	e C	B	Sal	NOU	15/	not	4.1	elH	Fi	Here	<u>i</u> cl
Instructions: FIELD Fill GROSS ALTHA.	OTHER BOTLES	ITRICE C/S Info: NOT I	140	`				1	Seals	Present	Yes 🔲				
FILTERED Relinquished By: Dat	te/Time: Received By:	Deliver V	Relingu	ished By	•		<u>C/S°C</u> Dateľ	harge <u>□</u> Fime•	Temp	p. <u> </u>	°C/Ice By:	<u> </u>	Sample I	Pres. Yes Date/Tin	<u>)No 🔲</u>
Reiniguistica By: Dat	29/72 Lisoph	11-29-22	Q of 11	lisiicu Dy	•		Date/			u	D y. ,			Dater	н с.
	T T T	6.5													

CAL Task 221129086

JML

Project:

Monthly Groundwater

Colorado Analytical

Quotation for Analytical Services

Quote ID: QBO22050014

LABORATORIES, INC.

Prepared For:	Grand Island Resources LLC
	12567 W Cedar Dr
	Suite 250
	Lakewood, CO 80228

Attn: Brooke Molson-Moran

Quote Date: Wednesday, May 4, 2022 Turn Around Time: 10 Working Days

			2		
Matrix	Description	Method	Qty.	Price - each	Total
Water - Ground	Langelier Index	N/A	6	\$60.00	\$360.00
Water - Ground	Alkalinity	SM 2320-B	6	Incl.	Inci.
Water - Ground	Ca as CaCO3	EPA 200.7	6	Inci.	Incl.
Water - Ground	Carb/ Bicarb	SM 2320-B	. 6	Incl.	Incl.
Water - Ground	Lang Index	SM 2330-B	6	Inci.	Incl.
Water - Ground	pH/ Temp	SM 4500-H-B	6	Incl.	Inci.
Water - Ground	TDS	SM 2540-C	6	Incl.	incl.
Water - Ground	Nitrate/ Nitrite Nitrogen	Calculation	6	\$0.00	\$0.00
Water - Ground	B - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ca - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Fe - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ag - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ag - Totai	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Al - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	As - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ba - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Be - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cd - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Co - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cr - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cu - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mo - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ni - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Pb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Sb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Se - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	TI - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	V - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Zn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Chloride	EPA 300.0	6	\$18.00	\$108.00

......

Page 1 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

CAL Task				
221129086				
JML	Colorado Analytical		Quotation for A Quote ID:	Analytical Service QBO22050014
	LABORATORIES, INC.			
Water - Ground	Fluoride	EPA 300.0	e	\$18.00
Water - Ground	Nitrate Nitrogen	EPA 300.0	6	\$18.00
Water - Ground	Nitrite Nitrogen	EPA 300.0	6	\$18.00
Water - Ground	Sulfate	EPA 300.0	6	\$18.00
Water - Ground	U - Dis	EPA 200.8	e	\$23.00
Water - Ground	Hg	EPA 245.7	6	\$27.00
Water - Ground	Total Coliform	SM 9221-B	6	\$27.00
Water - Ground	Cyanide - Free	ASTM D4282-15	6	\$40.00
Water - Ground	Phenols	EPA 420.4	e	\$55.00
Water - Ground	Metals (Sub)	EPA 200 7/EPA 200 8	6	i \$67.20

SM 7110-B

EPA 625

UPS or FedEx

TEM

UPS

Metals (sub) for dissolved lithium. Hg - dissolved. Only 2-Chlorophenol and Phenol needed for 625, Customer field filtering dissolved metals.

Gross Alpha/Beta (Sub)

Sample Shipment to Outside

Ext. Sample Shipment to

Asbestos (Sub)

625 SOCs

Outside Lab

Lab

Water - Ground

Water - Ground

Water - Ground

Shipping

Shipping

\$6,983.60

\$108.00 \$108.00 \$108.00 \$108.00 \$138.00 \$162.00 \$162.00 \$240.00 \$330.00 \$403.20

\$410.40

\$720.00

\$60.00

\$50.00

\$1,350.00

6

6

6

2

1

\$68.40

\$120.00

\$225.00

\$30.00

\$50.00

Samples should be shipped or hand delivered the same day they are collected. Orders that requrie sub-lab analysis should be delivered to the lab Monday thru Wednesday only.

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and coliform bacteria.

Sub-Lab analysis pricing subject to change. Sub-Lab radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix. Due to time, distance and other constraints outside of the control of CAL shipments to sub labs are not guranteed. All shipment charges will be billed to the client regardless of shipment outcome.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-659-2313 or visit us at www.coloradolab.com

Page 2 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 439400

1/6/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Cross Portal Source City: Nederland Source State: CO

Date/Time Received: 11/30/2022 09:50

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
				Ph	ysical Fa	ctors				
1905	Apparent Color	2120B	15	CU	3	ND	1	11/29/2022 13:00		11/30/2022 14:20
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	11/29/2022 13:00		11/30/2022 15:00
		Ν	MBAS, calcula	ted as Lir	near Alkylat	e Sulfonate (LAS), mol	wt of 342.4 g/mole		
1920	Odor Threshold	2150B	3	ton	1	ND	1	11/29/2022 13:00		11/30/2022 12:25

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 439401

1/6/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Cross Well Source City: Nederland Source State: CO

Date/Time Received: 11/30/2022 09:50

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

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"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Odor was analyzed from a bottle held at room temperature. This does not meet the method requirement for acceptable thermal preservation.

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	Dł	F	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
				Ph	ysical Fa	ctors							
1905	Apparent Color	2120B	15	CU	3	ND		1	11/29/2022 1	3:30		11/30/2022	14:20
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND		1	11/29/2022 1	3:30		11/30/2022	15:00
		Ν	IBAS, calcula	ted as Lir	near Alkylat	e Sulfonate	(LAS), r	mol v	wt of 342.4 g/m	nole			
1920	Odor Threshold	2150B	3	ton	1	ND	Q,RN	1	11/29/2022 1	3:30		12/2/2022	10:05

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

RN: Please see Report Notes for qualifier detail.

11.	Q	A	1
ĽИ,	J	71	ll.
-000		100	

Analyst	Tests
SP	2120B,5540C,2150B

Christine MacMillan, Technical Director

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 439402

1/6/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Compliance Well Source City: Nederland Source State: CO

Date/Time Received: 11/30/2022 09:50

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

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"NA" Not Analyzed

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"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
	Physical Factors									
1905	Apparent Color	2120B	15	CU	3	ND	1	11/29/2022 14:00		11/30/2022 14:20
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	11/29/2022 14:00		11/30/2022 15:00
		ľ	MBAS, calcula	ted as Lir	near Alkylat	e Sulfonate (LAS), mol	wt of 342.4 g/mole		
1920	Odor Threshold	2150B	3	ton	1	ND	1	11/29/2022 14:00		11/30/2022 12:25

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 439403

1/6/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Compliance Well - FB Source City: Nederland Source State: CO

Date/Time Received: 11/30/2022 09:50

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

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"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
	Physical Factors									
1905	Apparent Color	2120B	15	CU	3	ND	1	11/29/2022 14:00		11/30/2022 14:20
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	11/29/2022 14:00		11/30/2022 15:00
		ľ	MBAS, calcula	ted as Lii	near Alkylat	e Sulfonate (LAS), mol	wt of 342.4 g/mole		
1920	Odor Threshold	2150B	3	ton	1	ND	1	11/29/2022 14:00		11/30/2022 12:25

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 439404

1/6/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Caribou Portal Source City: Nederland Source State: CO

Date/Time Received: 11/30/2022 09:50

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

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"NA" Not Analyzed

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"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed	
	Physical Factors										
1905	Apparent Color	2120B	15	CU	3	ND	1	11/29/2022 14:30		11/30/2022 14:	:20
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	11/29/2022 14:30		11/30/2022 15:	:00
		ľ	MBAS, calcula	ted as Lir	near Alkylat	te Sulfonate (LAS), mol	wt of 342.4 g/mole			
1920	Odor Threshold	2150B	3	ton	1	ND	1	11/29/2022 14:30		11/30/2022 12:	:25

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 439405

1/6/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Caribou Portal - FB Source City: Nederland Source State: CO

Date/Time Received: 11/30/2022 09:50

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

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"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed	
	Physical Factors										
1905	Apparent Color	2120B	15	CU	3	ND	1	11/29/2022 14:30		11/30/2022 14:	:20
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	11/29/2022 14:30		11/30/2022 15:	:00
		ľ	MBAS, calcula	ted as Lir	near Alkylat	te Sulfonate (LAS), mol	wt of 342.4 g/mole			
1920	Odor Threshold	2150B	3	ton	1	ND	1	11/29/2022 14:30		11/30/2022 12:	:25

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 439406

1/6/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Caribou Well Source City: Nederland Source State: CO

Date/Time Received: 11/30/2022 09:50

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

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"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
	Physical Factors									
1905	Apparent Color	2120B	15	CU	3	ND	1	11/29/2022 15:30		11/30/2022 14:20
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	11/29/2022 15:30		11/30/2022 15:00
		Ν	MBAS, calcula	ted as Lir	near Alkylat	e Sulfonate (LAS), mol	wt of 342.4 g/mole		
1920	Odor Threshold	2150B	3	ton	1	ND	1	11/29/2022 15:30		11/30/2022 12:25

Analyst	Tests
SP	2120B,5540C,2150B



Sarah Buchanan, Project Manager

APPENDIX A.3 DECEMBER 2022 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID	Cross Well					
Lab Number: 2	221220142-01					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
1001	rtooun	moniou		Duto / Indiyiou	QO BUILD	, and jie by
Chloride	2.81 mg/L	EPA 300.0	0.10 ma/L	12/21/22	QC61816	MLT
Cvanide-Free	ND	ASTM D4282-15	0.005 mg/L	12/22/22	QC61835	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	12/21/22	QC61817	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	12/21/22	QC61818	MLT
Nitrate/ Nitrite Nitrogen	0.23 mg/L	Calculation	0.05 mg/L	12/22/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	12/21/22	QC61819	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/27/22	QC61927	DPL
Sulfate	8.88 mg/L	EPA 300.0	0.10 mg/L	12/21/22	QC61820	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	12/21/22	-	NAB
Dissolved						
Aluminum	ND	EPA 200.8	0.001 mg/L	12/22/22	QC61842	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	12/22/22	QC61842	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/22/22	QC61842	MBN
Barium	0.0313 mg/L	EPA 200.8	0.0007 mg/L	12/22/22	QC61842	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	12/22/22	QC61842	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001 mg/L	12/22/22	QC61842	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	12/22/22	QC61842	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	12/22/22	QC61842	MBN
Copper	0.0045 mg/L	EPA 200.8	0.0008 mg/L	12/22/22	QC61842	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 mg/L	12/22/22	QC61842	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	12/22/22	QC61842	MBN
Molybdenum	0.0005 mg/L	EPA 200.8	0.0005 mg/L	12/22/22	QC61842	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	12/22/22	QC61842	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

> Customer Sample ID Cross Well Sample Date/Time: 12/20/22

1:00 PM

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Lab Number: 2	21220142-01					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Selenium	ND	EPA 200.8	0.0008 mg/L	12/22/22	QC61842	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	12/22/22	QC61842	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	12/22/22	QC61842	MBN
Uranium	ND	EPA 200.8	0.0002 mg/L	12/22/22	QC61842	MBN
Vanadium	ND	EPA 200.8	0.001 mg/L	12/22/22	QC61842	MBN
Zinc	0.590 mg/L	EPA 200.8	0.001 mg/L	12/22/22	QC61842	MBN
Boron	ND	EPA 200.7	0.01 mg/L	12/22/22	QC61824	MBN
Calcium	16.2 mg/L	EPA 200.7	0.1 mg/L	12/22/22	QC61824	MBN
Iron	ND	EPA 200.7	0.005 mg/L	12/22/22	QC61824	MBN
<u>Total</u>						
Silver	ND	EPA 200.8	0.0005 mg/L	12/22/22	QC61842	MBN
Dissolved Metals filtered in the field	by the customer					

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Customer Sample ID Compliance Well

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Sample Date/Time:	12/20/22 1:30 PM					
Lab Number: 2	221220142-02					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	3.18 mg/L	EPA 300.0	0.10 mg/L	12/21/22	QC61816	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	12/22/22	QC61835	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	12/21/22	QC61817	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	12/21/22	QC61818	MLT
Nitrate/ Nitrite Nitrogen	0.31 mg/L	Calculation	0.05 mg/L	12/22/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	12/21/22	QC61819	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/27/22	QC61927	DPL
Sulfate	9.85 mg/L	EPA 300.0	0.10 mg/L	12/21/22	QC61820	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	12/21/22	-	NAB
Dissolved						
Aluminum	0.001 mg/L	EPA 200.8	0.001 mg/L	12/23/22	QC61842	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	12/23/22	QC61842	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/23/22	QC61842	MBN
Barium	0.0421 mg/L	EPA 200.8	0.0007 mg/L	12/23/22	QC61842	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	12/23/22	QC61842	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	12/23/22	QC61842	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Lead	0.0001 mg/L	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Manganese	0.0086 mg/L	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Molybdenum	0.0045 mg/L	EPA 200.8	0.0005 mg/L	12/23/22	QC61842	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	12/23/22	QC61842	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 3 of 21



QC Batch ID

QC61842

Analyzed By

MBN

TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID

Те

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Date Analyzed

12/23/22

Sample Date/Time: 1	12/20/22 1:30 PM		
Lab Number: 2	221220142-02		
Test	Result	Method	RL
<u>Dissolved</u>			
Selenium	ND	EPA 200.8	0.0008 mg/L
Silver	ND	EPA 200.8	0.0005 mg/L
Thallium	ND	EPA 200.8	0.0002 mg/L
Uranium	ND	EPA 200.8	0.0002 mg/L

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Compliance Well

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Silver	ND	EPA 200.8	0.0005	mg/L	12/23/22	QC61842	MBN
Thallium	ND	EPA 200.8	0.0002	mg/L	12/23/22	QC61842	MBN
Uranium	ND	EPA 200.8	0.0002	mg/L	12/23/22	QC61842	MBN
Vanadium	ND	EPA 200.8	0.001	mg/L	12/23/22	QC61842	MBN
Zinc	0.087 mg/L	EPA 200.8	0.001	mg/L	12/23/22	QC61842	MBN
Boron	ND	EPA 200.7	0.01	mg/L	12/22/22	QC61824	MBN
Calcium	16.2 mg/L	EPA 200.7	0.1	mg/L	12/22/22	QC61824	MBN
Iron	0.005 mg/L	EPA 200.7	0.005	mg/L	12/22/22	QC61824	MBN
<u>Total</u>							
Silver	ND	EPA 200.8	0.0005	mg/L	12/23/22	QC61842	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 4 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Sample Date/Time: 12/20/22

Customer Sample ID Compliance Well - FB

1:30 PM

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Lab Number: 221	220142-03					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	ND	EPA 300.0	0.10 mg/L	12/21/22	QC61816	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	12/22/22	QC61835	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	12/21/22	QC61817	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	12/21/22	QC61818	MLT
Nitrate/ Nitrite Nitrogen	ND	Calculation	0.05 mg/L	12/22/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	12/21/22	QC61819	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/27/22	QC61927	DPL
Sulfate	ND	EPA 300.0	0.10 mg/L	12/21/22	QC61820	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	12/21/22	-	NAB
Dissolved						
Aluminum	ND	EPA 200.8	0.001 mg/L	12/23/22	QC61842	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	12/23/22	QC61842	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/23/22	QC61842	MBN
Barium	ND	EPA 200.8	0.0007 mg/L	12/23/22	QC61842	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	12/23/22	QC61842	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	12/23/22	QC61842	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Lead	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	12/23/22	QC61842	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	12/23/22	QC61842	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 5 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Sample Date/Time: 12/20/22

Customer Sample ID Compliance Well - FB

1:30 PM

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Lab Number:	221220142-03						
Test	Result	Method	RL	Da	te Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Selenium	ND	EPA 200.8	0.0008 n	ng/L	12/23/22	QC61842	MBN
Silver	ND	EPA 200.8	0.0005 n	ng/L	12/23/22	QC61842	MBN
Thallium	ND	EPA 200.8	0.0002 n	ng/L	12/23/22	QC61842	MBN
Uranium	ND	EPA 200.8	0.0002 n	ng/L	12/23/22	QC61842	MBN
Vanadium	ND	EPA 200.8	0.001 n	ng/L	12/23/22	QC61842	MBN
Zinc	ND	EPA 200.8	0.001 n	ng/L	12/23/22	QC61842	MBN
Boron	ND	EPA 200.7	0.01 n	ng/L	12/22/22	QC61824	MBN
Calcium	ND	EPA 200.7	0.1 n	ng/L	12/22/22	QC61824	MBN
Iron	ND	EPA 200.7	0.005 n	ng/L	12/22/22	QC61824	MBN
<u>Total</u>							
Silver	ND	EPA 200.8	0.0005 n	ng/L	12/23/22	QC61842	MBN
Dissolved Metals filtered in the fiel	d by the customer						

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 6 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID C Sample Date/Time: 11 Lab Number: 21	aribou Well 2/20/22 11:30 AM 21220142-04					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.41 mg/L	EPA 300.0	0.10 mg/L	12/21/22	QC61816	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	12/22/22	QC61835	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	12/21/22	QC61817	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	12/21/22	QC61818	MLT
Nitrate/ Nitrite Nitrogen	0.11 mg/L	Calculation	0.05 mg/L	12/22/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	12/21/22	QC61819	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/27/22	QC61927	DPL
Sulfate	2.63 mg/L	EPA 300.0	0.10 mg/L	12/21/22	QC61820	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	12/21/22	-	NAB
<u>Dissolved</u>						
Aluminum	0.011 mg/L	EPA 200.8	0.001 mg/L	12/23/22	QC61842	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	12/23/22	QC61842	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/23/22	QC61842	MBN
Barium	0.0059 mg/L	EPA 200.8	0.0007 mg/L	12/23/22	QC61842	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	12/23/22	QC61842	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	12/23/22	QC61842	MBN
Copper	0.0841 mg/L	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	12/23/22	QC61842	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	12/23/22	QC61842	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 7 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Caribou Well Sample Date/Time: 12/20/22 11:30 AM

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Dissolved						
Selenium	ND	EPA 200.8	0.0008 m	ng/L 12/23/22	QC61842	MBN
Silver	ND	EPA 200.8	0.0005 m	ng/L 12/23/22	QC61842	MBN
Thallium	ND	EPA 200.8	0.0002 m	ng/L 12/23/22	QC61842	MBN
Uranium	ND	EPA 200.8	0.0002 m	ng/L 12/23/22	QC61842	MBN
Vanadium	ND	EPA 200.8	0.001 m	ng/L 12/23/22	QC61842	MBN
Zinc	0.004 mg/L	EPA 200.8	0.001 m	ng/L 12/23/22	QC61842	MBN
Boron	ND	EPA 200.7	0.01 m	ng/L 12/22/22	QC61824	MBN
Calcium	3.9 mg/L	EPA 200.7	0.1 m	ng/L 12/22/22	QC61824	MBN
Iron	0.007 mg/L	EPA 200.7	0.005 m	ng/L 12/22/22	QC61824	MBN
<u>Total</u>						
Silver	ND	EPA 200.8	0.0005 m	ng/L 12/23/22	QC61842	MBN
Dissolved Metals filtered in the field	by the customer					

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 8 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Sample Date/Time: Lab Number:	Cross Portal 12/20/22 12:15 PM 221220142-05					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.33 mg/L	EPA 300.0	0.10 mg/L	12/21/22	QC61816	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	12/22/22	QC61835	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	12/21/22	QC61817	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	12/21/22	QC61818	MLT
Nitrate/ Nitrite Nitrogen	0.08 mg/L	Calculation	0.05 mg/L	12/22/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	12/21/22	QC61819	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/27/22	QC61927	DPL
Sulfate	10.99 mg/L	EPA 300.0	0.10 mg/L	12/21/22	QC61820	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	12/21/22	-	NAB
<u>Dissolved</u>						
Aluminum	0.001 mg/L	EPA 200.8	0.001 mg/L	12/23/22	QC61842	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	12/23/22	QC61842	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/23/22	QC61842	MBN
Barium	0.0730 mg/L	EPA 200.8	0.0007 mg/L	12/23/22	QC61842	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Cadmium	0.0010 mg/L	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	12/23/22	QC61842	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	12/23/22	QC61842	MBN
Copper	0.0017 mg/L	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Lead	0.0006 mg/L	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Manganese	0.0115 mg/L	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Molybdenum	0.0082 mg/L	EPA 200.8	0.0005 mg/L	12/23/22	QC61842	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	12/23/22	QC61842	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 9 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Cross Portal Sample Date/Time: 12/20/22

mple Date/Time: 12/20/22 12:15 PM Lab Number: 221220142-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By		
<u>Dissolved</u>								
Selenium	ND	EPA 200.8	0.0008 mg	g/L 12/23/22	QC61842	MBN		
Silver	ND	EPA 200.8	0.0005 mg	g/L 12/23/22	QC61842	MBN		
Thallium	ND	EPA 200.8	0.0002 mg	g/L 12/23/22	QC61842	MBN		
Uranium	0.0010 mg/L	EPA 200.8	0.0002 mg	g/L 12/23/22	QC61842	MBN		
Vanadium	ND	EPA 200.8	0.001 mg	g/L 12/23/22	QC61842	MBN		
Zinc	0.202 mg/L	EPA 200.8	0.001 mg	g/L 12/23/22	QC61842	MBN		
Boron	ND	EPA 200.7	0.01 mg	g/L 12/22/22	QC61824	MBN		
Calcium	25.2 mg/L	EPA 200.7	0.1 mg	g/L 12/22/22	QC61824	MBN		
Iron	0.005 mg/L	EPA 200.7	0.005 mg	g/L 12/22/22	QC61824	MBN		
<u>Total</u>								
Silver	ND	EPA 200.8	0.0005 mg	g/L 12/23/22	QC61842	MBN		
Dissolved Metals filtered in the field	by the customer							

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 10 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Sample Date/Time: 1 Lab Number: 2	Caribou Portal 12/20/22 11:15 AM 221220142-06					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.49 mg/L	EPA 300.0	0.10 mg/L	12/21/22	QC61816	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	12/22/22	QC61835	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	12/21/22	QC61817	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	12/21/22	QC61818	MLT
Nitrate/ Nitrite Nitrogen	0.14 mg/L	Calculation	0.05 mg/L	12/22/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	12/21/22	QC61819	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/27/22	QC61927	DPL
Sulfate	10.38 mg/L	EPA 300.0	0.10 mg/L	12/21/22	QC61820	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	12/21/22	-	NAB
<u>Dissolved</u>						
Aluminum	ND	EPA 200.8	0.001 mg/L	12/23/22	QC61842	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	12/23/22	QC61842	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/23/22	QC61842	MBN
Barium	0.0600 mg/L	EPA 200.8	0.0007 mg/L	12/23/22	QC61842	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	12/23/22	QC61842	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	12/23/22	QC61842	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Lead	0.0004 mg/L	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Manganese	0.0014 mg/L	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Molybdenum	0.0067 mg/L	EPA 200.8	0.0005 mg/L	12/23/22	QC61842	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	12/23/22	QC61842	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 11 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal Sample Date/Time: 12/20/22 11:15 AM

Lab Number: 221220142-06							
Test	Result	Method	RL		Date Analyzed	QC Batch ID	Analyzed By
Dissolved							
Selenium	ND	EPA 200.8	0.0008	mg/L	12/23/22	QC61842	MBN
Silver	ND	EPA 200.8	0.0005	mg/L	12/23/22	QC61842	MBN
Thallium	ND	EPA 200.8	0.0002	mg/L	12/23/22	QC61842	MBN
Uranium	0.0072 mg/L	EPA 200.8	0.0002	mg/L	12/23/22	QC61842	MBN
Vanadium	ND	EPA 200.8	0.001	mg/L	12/23/22	QC61842	MBN
Zinc	0.034 mg/L	EPA 200.8	0.001	mg/L	12/23/22	QC61842	MBN
Boron	ND	EPA 200.7	0.01	mg/L	12/22/22	QC61824	MBN
Calcium	27.5 mg/L	EPA 200.7	0.1	mg/L	12/22/22	QC61824	MBN
Iron	0.006 mg/L	EPA 200.7	0.005	mg/L	12/22/22	QC61824	MBN
<u>Total</u>							
Silver	ND	EPA 200.8	0.0005	mg/L	12/23/22	QC61842	MBN

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 12 of 21


TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

uston	ner	Sa	mp	ole ID	Caribou Portal -	F	В
-	-	_		-			

С

Sample Date/Time: 12/20/22 11:15 AM

Lab Number: 22	1220142-07					
Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	ND	EPA 300.0	0.10 mg/L	12/21/22	QC61816	MLT
Cyanide-Free	ND	ASTM D4282-15	0.005 mg/L	12/22/22	QC61835	DPL
Fluoride	ND	EPA 300.0	1.00 mg/L	12/21/22	QC61817	MLT
Nitrate Nitrogen	ND	EPA 300.0	0.50 mg/L	12/21/22	QC61818	MLT
Nitrate/ Nitrite Nitrogen	ND	Calculation	0.05 mg/L	12/22/22	-	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.30 mg/L	12/21/22	QC61819	MLT
Phenols - Total	ND	EPA 420.4	15.0 ug/L	12/27/22	QC61927	DPL
Sulfate	ND	EPA 300.0	0.10 mg/L	12/21/22	QC61820	MLT
Total Coliform	ND	SM 9221-B	1 mpn/100ml	12/21/22	-	NAB
<u>Dissolved</u>						
Aluminum	ND	EPA 200.8	0.001 mg/L	12/23/22	QC61842	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	12/23/22	QC61842	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/23/22	QC61842	MBN
Barium	ND	EPA 200.8	0.0007 mg/L	12/23/22	QC61842	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	12/23/22	QC61842	MBN
Cobalt	ND	EPA 200.8	0.0002 mg/L	12/23/22	QC61842	MBN
Copper	ND	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Lead	ND	EPA 200.8	0.0001 mg/L	12/23/22	QC61842	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	12/23/22	QC61842	MBN
Molybdenum	ND	EPA 200.8	0.0005 mg/L	12/23/22	QC61842	MBN
Nickel	ND	EPA 200.8	0.0009 mg/L	12/23/22	QC61842	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 13 of 21



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal - FB

Sample Date/Time: 12/20/22 11:15 AM Lab Number: 221220142-07

Test	Result	Method	RL		Date Analyzed	QC Batch ID	Analyzed By
Dissolved							
Selenium	ND	EPA 200.8	0.0008	mg/L	12/23/22	QC61842	MBN
Silver	ND	EPA 200.8	0.0005	mg/L	12/23/22	QC61842	MBN
Thallium	ND	EPA 200.8	0.0002	mg/L	12/23/22	QC61842	MBN
Uranium	ND	EPA 200.8	0.0002	mg/L	12/23/22	QC61842	MBN
Vanadium	ND	EPA 200.8	0.001	mg/L	12/23/22	QC61842	MBN
Zinc	ND	EPA 200.8	0.001	mg/L	12/23/22	QC61842	MBN
Boron	ND	EPA 200.7	0.01	mg/L	12/22/22	QC61824	MBN
Calcium	ND	EPA 200.7	0.1	mg/L	12/22/22	QC61824	MBN
Iron	ND	EPA 200.7	0.005	mg/L	12/22/22	QC61824	MBN
<u>Total</u>							
Silver	ND	EPA 200.8	0.0005	mg/L	12/23/22	QC61842	MBN
Dissolved Metals filtered in the field	by the customer						

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 14 of 21



Analytical QC Summary

TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC Receive Date: 12/20/22 Project Name: Monthly Groundwater

Test	QC Batch ID	QC Type	Result	Method
Chloride	QC61816	Blank	ND	EPA 300.0
Cyanide-Free	QC61835	Blank	ND	ASTM D4282-15
Fluoride	QC61817	Blank	ND	EPA 300.0
Aluminum	QC61842	Method Blank	ND	EPA 200.8
Antimony	QC61842	Method Blank	ND	EPA 200.8
Arsenic	QC61842	Method Blank	ND	EPA 200.8
Barium	QC61842	Method Blank	ND	EPA 200.8
Beryllium	QC61842	Method Blank	ND	EPA 200.8
Cadmium	QC61842	Method Blank	ND	EPA 200.8
Chromium	QC61842	Method Blank	ND	EPA 200.8
Cobalt	QC61842	Method Blank	ND	EPA 200.8
Copper	QC61842	Method Blank	ND	EPA 200.8
Lead	QC61842	Method Blank	ND	EPA 200.8
Manganese	QC61842	Method Blank	ND	EPA 200.8
Molybdenum	QC61842	Method Blank	ND	EPA 200.8
Nickel	QC61842	Method Blank	ND	EPA 200.8
Selenium	QC61842	Method Blank	ND	EPA 200.8
Silver	QC61842	Method Blank	ND	EPA 200.8
Thallium	QC61842	Method Blank	ND	EPA 200.8
Uranium	QC61842	Method Blank	ND	EPA 200.8
Vanadium	QC61842	Method Blank	ND	EPA 200.8
Zinc	QC61842	Method Blank	ND	EPA 200.8
Boron	QC61824	Method Blank	0.02 mg/L B	EPA 200.7
Calcium	QC61824	Method Blank	ND	EPA 200.7
Iron	QC61824	Method Blank	ND	EPA 200.7
Nitrate Nitrogen	QC61818	Blank	ND	EPA 300.0
Nitrite Nitrogen	QC61819	Blank	ND	EPA 300.0
Phenols - Total	QC61927	Blank	ND	EPA 420.4
Sulfate	QC61820	Blank	ND	EPA 300.0

B - The analyte was found in the associated blank. Batch accepted due to all samples being non-detect or having results \geq 5 times the background concentration found in the blank.

Test	QC Batch ID	QC Type	Limits	Spike Amt	% Rec	RPD	Method
Chloride	QC61816	Duplicate -221220142-01	0 - 20	-	-	2.5	EPA 300.0
		LCS	90 - 110	20 mg/L	101.5	-	
		MS -221220142-01	75 - 125	50 mg/L	95.6	-	
Cyanide-Free	QC61835	Duplicate -221220142-01B	0 - 20	-	-	0.0	ASTM D4282-15
		LCS	90 - 110	0.08 mg/L	98.6	-	
		MS -221220142-01B	75 - 125	0.02 mg/L	108.0	-	
		MSD -221220142-01B	0 - 30	0.02 mg/L	-	0.0	

Abbreviations/ References:

- RL = Reporting Limit = Minimum Level
- mg/L = Milligrams Per Liter or PPM
- ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls
- Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 15 of 21

Test	QC Batch ID	QC Type	Limits	Spike Amt	% Rec	RPD	Method
Fluoride	QC61817	Duplicate -221220142-01	0 - 20	-	-	0.0	EPA 300.0
		LCS	90 - 110	2 mg/L	97.1	-	
		MS -221220142-01	75 - 125	10 mg/L	91.1	-	
				- 5	-		
Aluminum	QC61842	LCS	90 - 110	50 ug/L	97.0	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	99.9	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	0.3	
A setime a set	0001040	1.00	00 110	50 ····	100.0		
Antimony	QC61842		90 - 110	50 ug/L	106.9	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	108.8	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	0.7	
Arsenic	QC61842	LCS	90 - 110	50 ug/L	99.1	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	117.2	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	0.1	
				5			
Barium	QC61842	LCS	90 - 110	50 ug/L	102.7	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	106.5	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	2.4	
Beryllium	QC61842	ICS	90 - 110	50 ug/l	98.2		EPA 200.8
Derymann	0001042	MS -221220017-01	70 - 130	20 ug/L	76.0	-	2177200.0
		MSD -221220017-01	0 - 10	20 ug/L	70.0	03	
		WOD -221220017-01	0 - 10	20 ug/L	_	3.5	
Cadmium	QC61842	LCS	90 - 110	50 ug/L	99.9	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	102.8	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	2.6	
	0.001010	1.00		- "			
Chromium	QC61842	LCS	90 - 110	50 ug/L	105.0	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	106.8	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	2.3	
Cobalt	QC61842		90 - 110	50 ug/l	105.9		EPA 200.8
		MS -221220017-01	70 - 130	20 ug/l	105.7	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	0.1	
			0 10	20 49/2		0.1	
Copper	QC61842	LCS	90 - 110	50 ug/L	102.5	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	100.3	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	2.4	
Lood	0061942	100	00 110	50 ug/l	02.9		
Lead	QC01042		90 - 110	50 ug/L	93.8	-	EPA 200.6
		MS -221220017-01	70 - 130	20 ug/L	87.3	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	1.7	
Manganese	QC61842	LCS	90 - 110	50 ug/L	103.8	-	EPA 200.8
0		MS -221220017-01	70 - 130	20 ug/L	100.2	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	1.5	
				5			
Molybdenum	QC61842	LCS	90 - 110	50 ug/L	103.5	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	106.5	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	2.8	
Nickel	0061842	109	90 - 110	50 ug/l	104.6		EPA 200 8
NICKEI	Q001042	MS 221220017 01	30 - 110 70 120	30 ug/L	104.0	-	LI A 200.0
		MSD -221220017-01	0 10	20 ug/L	102.9	- 2 F	
			0-10	∠∪ ug/L	-	2.0	
Selenium	QC61842	LCS	90 - 110	50 ug/L	103.3	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	116.2	-	

Abbreviations/ References:

(d) RPD acceptable due to low duplicate and sample concentrations. (a) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 16 of 21

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

Test	QC Batch ID	QC Type	Limits	Spike Amt	% Rec	RPD	Method
		MSD -221220017-01	0 - 10	20 ug/L	-	0.4	
Silver	QC61842	LCS	90 - 110	50 ug/L	102.0	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	100.6	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	1.2	
Thallium	QC61842	LCS	90 - 110	50 ug/L	93.4	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	85.1	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	1.6	
Uranium	QC61842	LCS	90 - 110	50 ug/L	93.6	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	87.5	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	2.8	
Vanadium	QC61842	LCS	90 - 110	50 ug/L	102.9	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	110.0	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	0.7	
Zinc	QC61842	LCS	90 - 110	50 ug/L	103.3	-	EPA 200.8
		MS -221220017-01	70 - 130	20 ug/L	97.9	-	
		MSD -221220017-01	0 - 10	20 ug/L	-	0.6	
Boron	QC61824	Duplicate -221220019-01B	0 - 20	-	-	0.0	EPA 200.7
		LCS	90 - 110	1 mg/L	107.2	-	
		MS -221220067-14	75 - 125	1 mg/L	118.8	-	
Calcium	QC61824	Duplicate -221220019-01B	0 - 20	-	-	3.6	EPA 200.7
		LCS	90 - 110	20 mg/L	103.7	-	
		MS -221220067-14	75 - 125	40 mg/L	119.8	-	
Iron	QC61824	Duplicate -221220019-01B	0 - 20	-	-	5.5	EPA 200.7
		LCS	90 - 110	1 mg/L	100.7	-	
		MS -221220067-14	75 - 125	2 mg/L	100.0	-	
Nitrate Nitrogen	QC61818	Duplicate -221220142-01	0 - 20	-	-	12.7	EPA 300.0
		LCS	90 - 110	4.515 mg/L	97.7	-	
		MS -221220142-01	75 - 125	2.257 mg/L	86.9	-	
Nitrite Nitrogen	QC61819	Duplicate -221220142-01	0 - 20	-	-	0.0	EPA 300.0
		LCS	90 - 110	0.6079 mg/L	92.3	-	
		MS -221220142-01	75 - 125	3.04 mg/L	93.0	-	
Phenols - Total	QC61927	Duplicate -221220142-02C	0 - 20	-	-	0.0	EPA 420.4
		LCS	90 - 110	100 ug/L	95.5	-	
		MS -221220142-02C	75 - 125	100 ug/L	104.0	-	
Sulfate	QC61820	Duplicate -221220142-01	0 - 20	-	-	2.0	EPA 300.0
		LCS	90 - 110	20 mg/L	100.0	-	
		MS -221220142-01	75 - 125	50 mg/L	96.3	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 17 of 21

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DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

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Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Erand Island Resour	Company Name: Credit Courd	
Contact Name: Brocke Moran	Contact Name:	
Address: 12567 W. Cedar Dr. Ste. 250	Address:	Task Number (Lab Use Only)
cityLakewood state CO zip80228	City State Zip	CAL Task
Phone: 303-506-1618	Phone:	221220142
Email: Sergio, rivera@novame	ticinali: \IX a CON	
Sample Collector: BM		ARF
Sample Collector Phone: 303-506-1618	PO No.:	



<u>Commerce City Lab</u> 10411 Heinz Way Commerce City CO 80640

Lakewood Service Center 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

					and the second	C. TIPS				T -	ests	Requ	ested	a series a				
	Sample Matrix (Select One On	ly)		y)							_							
Waste Water	Soil 🗌	Drinking Water	lers	Onl	C	VB	0	2	2	05	5 () C	1	4				
Ground Water 🔀	Sludge 🗌		ntair	e One	6		or	ted	1 1	0/2	27,	122	\sum					
Surface Water 🗌			f Co	heck		1			ľ		`]'		1					
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12/20/22 13:00 C	ROSS WELL		9	6			ļ											-
12/20/22 13:30 CI	OMPLIANCE WE	IL	9	6						·								
12/20/22 13:30 CC	OMPLIANCEW	ELL-FB	9	e														
12/20/22 11:30 C	ARIBON WELL		9	e														
2/20/22/22/15 0	ROSS DORTAL	<u></u>	0	G														
12/20/22 11:15 C	ARIBON PORTA	Ĺ	9	G														-
2/20/22 11:15 C	ARIBOUL PORTA	L-FB	9	G		-												+
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	•	[]M																



CAL Task

221220142

ARF

Quotation for Analytical Services

Quote ID: QBO22050014

LABORATORIES, INC.



Grand Island Resources LLC

12567 W Cedar Dr Suite 250 Lakewood, CO 80228 Quote Date: Wednesday, May 4, 2022 Turn Around Time: 10 Working Days

Attn: Brooke Molson-Moran

Project:

Monthly Groundwater

Matrix	Description	Method	Qty.	Price - each	Total
Water - Ground	Langelier Index	N/A	6	\$60.00	\$360.00
Water - Ground	Alkalinity	SM 2320-B	6	Incl.	Incl.
Water - Ground	Ca as CaCO3	EPA 200.7	6	Incl.	Incl.
Water - Ground	Carb/ Bicarb	SM 2320-B	6	Incl.	Inci.
Water - Ground	Lang Index	SM 2330-B	6	Incl.	Incl.
Water - Ground	pH/ Temp	SM 4500-H-B	6	Incl.	Incl.
Water - Ground	TDS	SM 2540-C	6	Incl.	Incl.
Water - Ground	Nitrate/ Nitrite Nitrogen	Calculation	6	\$0.00	\$0.00
Water - Ground	B - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ca - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Fe - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ag - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ag - Total	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Al - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	As - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ba - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Be - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cd - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Co - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cr - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cu - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mo - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ni - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Pb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Sb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Se - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	TI - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	V - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Zn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Chloride	EPA 300.0	6	\$18.00	\$108.00

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		CALIASK			
	Colorodo	221220142	Quotation for /	Analytical Serv	rices
	Analytical	ARF	Quote ID:	QBO22050014	
	LABORATORIES, INC.				
Water - Ground	Fluoride	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	Nitrate Nitrogen	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	Nitrite Nitrogen	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	Sulfate	EPA 300.0	6	\$18,00	\$108.00
Water - Ground	U - Dis	EPA 200.8	6	\$23.00	\$138.00
Water - Ground	Hg	EPA 245.7	6	\$27.00	\$162.00
Water - Ground	Total Coliform	SM 9221-B	6	\$27.00	\$162.00
Water - Ground	Cyanide - Free	ASTM D4282-15	6	\$40.00	\$240.00
Water - Ground	Phenols	EPA 420.4	6	\$55.00	\$330.00
Water - Ground	Metals (Sub)	EPA 200.7/EPA 200.8	6	\$67.20	\$403.20
Water - Ground	Gross Alpha/Beta (Sub)	SM 7110-B	6	\$68.40	\$410.40
Water - Ground	Asbestos (Sub)	TEM	6	\$120.00	\$720.00
Water - Ground	625 SOCs	EPA 625	6	\$225.00	\$1,350.00
Shipping	Sample Shipment to Outside Lab	UPS	2	\$30.00	\$60.00
Shipping	Ext. Sample Shipment to Outside Lab	UPS or FedEx	1	\$50.00	\$50.00

Metals (sub) for dissolved lithium. Hg - dissolved. Only 2-Chlorophenol and Phenol needed for 625. Customer field filtering dissolved metals.

\$6,983.60

Samples should be shipped or hand delivered the same day they are collected. Orders that requrie sub-lab analysis should be delivered to the lab Monday thru Wednesday only.

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and coliform bacteria.

Sub-Lab analysis pricing subject to change. Sub-Lab radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix. Due to time, distance and other constraints outside of the control of CAL shipments to sub labs are not guranteed. All shipment charges will be billed to the client regardless of shipment outcome.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-659-2313 or visit us at www.coloradolab.com

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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507



ANALYTICAL SUMMARY REPORT

January 09, 2023

Colorado Analytical Laboratories Inc

PO Box 507 Brighton, CO 80601-0507

Work Order: C22120818 Quote ID: C15681

Project Name: 221220142; Monthly Groundwater

Energy Laboratories, Inc. Casper WY received the following 7 samples for Colorado Analytical Laboratories Inc on 12/23/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C22120818-001	221220142-01G - Cross Well	12/20/22 13:00	0 12/23/22	Groundwater	Metals by ICP/ICPMS, Dissolved Sample Filtering, Metals
C22120818-002	221220142-02G - Compliance Well	12/20/22 13:30	0 12/23/22	Groundwater	Same As Above
C22120818-003	221220142-03G - Compliance Well - FB	12/20/22 13:30	0 12/23/22	Groundwater	Same As Above
C22120818-004	221220142-04G - Caribou Well	12/20/22 11:30	0 12/23/22	Groundwater	Same As Above
C22120818-005	221220142-05G - Cross Portal	12/20/22 12:15	5 12/23/22	Groundwater	Same As Above
C22120818-006	221220142-06G - Caribou Portal	12/20/22 11:15	5 12/23/22	Groundwater	Same As Above
C22120818-007	221220142-07G - Caribou Portal - FB	12/20/22 11:15	5 12/23/22	Groundwater	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:

ENERGY	
LABORATORIES	

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

CLIENT:Colorado Analytical Laboratories IncProject:221220142; Monthly GroundwaterWork Order:C22120818

Report Date: 01/09/23

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



Lab ID

C22120818-001 C22120818-002

C22120818-003 C22120818-004

C22120818-005

C22120818-006

C22120818-007

Work Order Sample Summary

CLIENT:	Colorado Analytical Laboratories Inc
Project:	221220142; Monthly Groundwater
Work Order:	C22120818

Report Date: 01/09/23

Client Sample ID	Collection Date	Date Received
221220142-01G - Cross Well	12/20/2022 1:00:00 PM	12/23/2022
221220142-010 - Closs Well	12/20/2022 1.20.00 PM	12/23/2022
221220142-02G - Compliance Well	12/20/2022 1:30:00 PM	12/23/2022
221220142-03G - Compliance Well - FB	12/20/2022 1:30:00 PM	12/23/2022
221220142-04G - Caribou Well	12/20/2022 11:30:00 AM	12/23/2022
221220142-05G - Cross Portal	12/20/2022 12:15:00 PM	12/23/2022
221220142-06G - Caribou Portal	12/20/2022 11:15:00 AM	12/23/2022
221220142-07G - Caribou Portal - FB	12/20/2022 11:15:00 AM	12/23/2022



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	01/09/23
Project:	221220142; Monthly Groundwater	Collection Date:	12/20/22 13:00
Lab ID:	C22120818-001	DateReceived:	12/23/22
Client Sample ID:	221220142-01G - Cross Well	Matrix:	Groundwater

Analyses	Result l	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND r	mg/L	L	0.05		E200.7	12/30/22 15:35 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	01/09/23
Project:	221220142; Monthly Groundwater	Collection Date:	12/20/22 13:30
Lab ID:	C22120818-002	DateReceived:	12/23/22
Client Sample ID:	221220142-02G - Compliance Well	Matrix:	Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND	mg/L	L	0.05		E200.7	12/30/22 15:39 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	01/09/23
Project:	221220142; Monthly Groundwater	Collection Date:	12/20/22 13:30
Lab ID:	C22120818-003	DateReceived:	12/23/22
Client Sample ID:	221220142-03G - Compliance Well - FB	Matrix:	Groundwater

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.05	E200.7	12/30/22 15:43 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Colorado Analytical Laboratories Inc	Report Date:	01/09/23
221220142; Monthly Groundwater	Collection Date:	12/20/22 11:30
C22120818-004	DateReceived:	12/23/22
221220142-04G - Caribou Well	Matrix:	Groundwater
	Colorado Analytical Laboratories Inc 221220142; Monthly Groundwater C22120818-004 221220142-04G - Caribou Well	Colorado Analytical Laboratories IncReport Date:221220142; Monthly GroundwaterCollection Date:C22120818-004DateReceived:221220142-04G - Caribou WellMatrix:

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/L	L	0.05	E200.7	12/30/22 15:47 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Colorado Analytical Laboratories Inc	Report Date:	01/09/23
221220142; Monthly Groundwater	Collection Date:	12/20/22 12:15
C22120818-005	DateReceived:	12/23/22
221220142-05G - Cross Portal	Matrix:	Groundwater
	Colorado Analytical Laboratories Inc 221220142; Monthly Groundwater C22120818-005 221220142-05G - Cross Portal	Colorado Analytical Laboratories IncReport Date:221220142; Monthly GroundwaterCollection Date:C22120818-005DateReceived:221220142-05G - Cross PortalMatrix:

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND	mg/L	L	0.05		E200.7	12/30/22 16:46 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Colorado Analytical Laboratories Inc	Report Date:	01/09/23
221220142; Monthly Groundwater	Collection Date:	12/20/22 11:15
C22120818-006	DateReceived:	12/23/22
221220142-06G - Caribou Portal	Matrix:	Groundwater
	Colorado Analytical Laboratories Inc 221220142; Monthly Groundwater C22120818-006 221220142-06G - Caribou Portal	Colorado Analytical Laboratories IncReport Date:221220142; Monthly GroundwaterCollection Date:C22120818-006DateReceived:221220142-06G - Caribou PortalMatrix:

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND	mg/L	L	0.05		E200.7	12/30/22 16:50 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



Prepared by Casper, WY Branch

Client:	Colorado Analytical Laboratories Inc	Report Date:	01/09/23
Project:	221220142; Monthly Groundwater	Collection Date:	12/20/22 11:15
Lab ID:	C22120818-007	DateReceived:	12/23/22
Client Sample ID:	221220142-07G - Caribou Portal - FB	Matrix:	Groundwater

Analyses	Result Unit	s Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
METALS, DISSOLVED Lithium	ND mg/l	L L	0.05	E200.7	12/30/22 16:54 / eli-b

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit

L - Lowest available reporting limit for the analytical method used



QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	ent: Colorado Analytical Laboratories Inc		ries Inc		Work Order: C22120818			Report Date: 01/03/23				
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method:	E200.7							Ana	lytical Ru	n: ICP204-B	_221230A	
Lab ID:	ICV	Co	ntinuing Ca	libration Ve	erification Standar	ď				12/30	/22 11:24	
Lithium			1.25	mg/L	0.10	100	95	105				
Lab ID:	ccv	Co	ntinuing Ca	libration Ve	erification Standar	ď				12/30	/22 15:01	
Lithium			1.26	mg/L	0.10	101	90	110				
Lab ID:	CCV	Co	ntinuing Ca	libration Ve	erification Standar	ď				12/30	/22 16:24	
Lithium			1.26	mg/L	0.10	101	90	110				
Method:	E200.7									Batch	: R395552	
Lab ID:	MB-7400DIS221230/	A Me	thod Blank				Run: ICP20	04-B_221230A		12/30	/22 11:46	
Lithium			ND	mg/L	0.01							
Lab ID:	LFB-7400DIS221230	A Lal	boratory Fo	rtified Blanl	<		Run: ICP20	04-B_221230A		12/30	/22 11:50	
Lithium			1.01	mg/L	0.10	101	85	115				
Lab ID:	B22121746-001BMS	2 Sa	mple Matrix	Spike			Run: ICP20)4-B_221230A		12/30	/22 14:57	
Lithium			107	mg/L	5.2	100	70	130				
Lab ID:	B22121746-001BMS	D Sa	mple Matrix	Spike Dup	licate		Run: ICP20	04-B_221230A		12/30	/22 15:09	
Lithium			109	mg/L	5.2	102	70	130	2.1	20		
Lab ID:	MB-174764	Me	thod Blank				Run: ICP20	04-B_221230A		12/30	/22 15:31	
Lithium			ND	mg/L	0.01							
Lab ID:	C22120818-007AMS	2 Sa	mple Matrix	Spike			Run: ICP20	04-B_221230A		12/30	/22 16:59	
Lithium			1.02	mg/L	0.10	102	70	130				
Lab ID:	C22120818-007AMS	D Sa	mple Matrix	Spike Dup	olicate		Run: ICP20	04-B_221230A		12/30	/22 17:02	
Lithium			0.974	mg/L	0.10	97	70	130	5.0	20		



C22120818

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

Login completed by:	Kirsten L. Smith	Date Received: 12/23/2022							
Reviewed by:	cjohnson	Received by: cch							
Reviewed Date:	12/28/2022	Carrier name: UPS							
Shipping container/cooler in	good condition?	Yes 🗹	No 🗌	Not Present					
Custody seals intact on all sl	Yes	No 🗌	Not Present 🗹						
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present 🗹					
Chain of custody present?		Yes 🗹	No 🗌						
Chain of custody signed whe	en relinquished and received?	Yes 🗹	No 🗌						
Chain of custody agrees with	n sample labels?	Yes 🗹	No 🗌						
Samples in proper container	/bottle?	Yes 🗹	No 🗌						
Sample containers intact?		Yes 🗹	No 🗌						
Sufficient sample volume for	indicated test?	Yes 🗹	No 🗌						
All samples received within h (Exclude analyses that are c such as pH, DO, Res CI, Su	nolding time? onsidered field parameters Ilfite, Ferrous Iron, etc.)	Yes 🗹	No 🗌						
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable					
Container/Temp Blank temp	erature:	0.3°C Blue Ice							
Containers requiring zero he bubble that is <6mm (1/4").	adspace have no headspace or	Yes 🗌	No 🗌	No VOA vials submitted					
Water - pH acceptable upon	receipt?	Yes 🗌	No 🗹	Not Applicable					

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

All samples were received frozen, per the email from Jessi Lupfer on 12/23/2022 they would like to proceed with analysis.

Dissolved Metals/Hardness were filtered and preserved to pH <2 with 2 mL of nitric acid per 250 mL in the laboratory. According to 40CFR136, samples for Dissolved Metals should be filtered and preserved within 15 minutes of collection. 12/27/2022-KS

Ship To: Energy Labs

Sample Date/Time Address: E-Mail: Phone: Commerce City, CO 80540 10411 Heinz Way Report To: Company Name: Colorado Analytical Laboratory **Report To Information** 12/20/22 12/20/22 12/20/22 12/20/22 12/20/22 12/20/22 12/20/22 303-659-2313 12:15 PM 221220142-05G - Cross Portal 11:30 AM 221220142-04G - Caribou Well 11:15 AM 221220142-06G - Canbou Portal 11:15 AM 221220142-07G - Canbou Portal - FB 1:30 PM 221220142-03G - Compliance Well - FB 1:30 PM 221220142-02G - Compliance Well 1:00 PM 221220142-01G - Cross Well LABORATORIES, INC. Stuart Nielson stuartnielson@coloradolab.com alutica l D D D D D D Sample ID Address: Bill To Information (If different from report to) Sub-Lab Chain of Custody Form Water - Ground Matrix (du2) slateM X CAL TASK 221220142 ARF **Tests Requested** Submit Data to CDPHE: **Compliance Samples:** Monthly Groundwater **Project Name** Yes 🗆 No 🖌 Yes 🗆 250 ml Cylinder - Unpreserved 250 ml Cytinder - Unpreserve 250 ml Cylinder - Unpreserve S K Container Type

(Signature) Relinquished by: A. Forth 1.60 upor dupt. 12/21/20/500 Date: Time: Received by: (Signature) 1:5 Relinquished by: (Signature) Date: Time: Received by: (Signature) Page 1 of 2 Date: Time: 3 \$ -- -

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Ship
To:
Energy
Labs

Kelinquished by: Data: Time: Received by: Data: Time: Received by: (Signature) (Signature) (Signature) (Signature) (Signature) (Signature) A. FORT 12 pulve 12 pulve 12 pulve 12 pulve (Signature)	Comment 2211220142-02G - Please report Dissolved Lithium 2211220142-03G - Please report Dissolved Lithium 2211220142-05G - Please report Dissolved Lithium 2212220142-05G - Please report Dissolved Lithium 221220142-07G - Please report Dissolved Lithium. 221220142-07G - Please report Dissolved Lithium.	Sample Date/Time Sample ID Matrix	(du2) sieseM	Tests Requested	Phone: <u>303-659-2313</u>	Commerce City, CO 80640 ARF Submit Data to CDPHE: Yes No 🖸	Address: CAL TASK Compliance Samples: Yes I No 🔽	E-Mail: stuartnielson@coloradolab.com	Company Name: <u>Colorado Analytical Laboratory</u> Report To: <u>Stuart Nielson</u>	Report To Information Bill To Information (If different from report to) Project Name	LABORATORIES, INC. Sub-Lab Chain of Custody Form	Analutical	
Date: Time:	* *	Container Type	L			(68 □ NO 129)	(es □ No €			V IC U O I O	HYRR		

Page 2 of 2



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Cross Well

Sample Date/Time: 12/20/22

le Date/Time: 12/20/22 1:00 PM Lab Number: 221220142-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	12/27/22	QC61862	MBS
Phenol	ND	EPA 625	10.0 ug/L	12/27/22	QC61862	MBS
Surrogate		PercentRec	overy Accepta	ance Limits		
2,4,6-Tribromopheno	I	53.1	16 - 1	45		
2-Fluorobiphenyl		101.3	60 - 1	40		
2-Fluorophenol		78.8	60 - 1	140		
Nitrobenzene-d5		99.0	15 - 3	314		
Phenol-d5		86.3	8 - 4	24		
p-Terphenyl-d14		153.2	44 - 1	135		

Surrogate above QC criteria; most likely due to matrix interference. MBS 1/4/2023

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 11



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Compliance Well

Sample Date/Time: 12/20/22 1:30 PM Lab Number: 221220142-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	12/28/22	QC61862	MBS
Phenol	ND	EPA 625	10.0 ug/L	12/28/22	QC61862	MBS
Surrogate		PercentRee	covery Accept	ance Limits		
2,4,6-Tribromopheno	bl	29.2	16 -	145		
2-Fluorobiphenyl		98.8	60 -	140		
2-Fluorophenol		73.7	60 -	140		
Nitrobenzene-d5		93.2	15 - 3	314		
Phenol-d5		81.1	8 - 4	124		
p-Terphenyl-d14		154.6	44 -	135		

Surrogate above QC criteria; most likely due to matrix interference. MBS 1/4/2023

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 11



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Compliance Well - FB

Sample Date/Time: 12/20/22 1:30 PM Lab Number: 221220142-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/L	12/28/22	QC61862	MBS
Phenol	ND	EPA 625	10.0 ug/L	12/28/22	QC61862	MBS
Surrogate		PercentRe	covery Accept	ance Limits		
2,4,6-Tribromopheno	bl	27.8	16 -	145		
2-Fluorobiphenyl		98.9	60 -	140		
2-Fluorophenol		72.6	60 -	140		
Nitrobenzene-d5		93.1	15 -	314		
Phenol-d5		80.9	8	424		
p-Terphenyl-d14		157.2	44 -	135		

Surrogate above QC criteria; most likely due to matrix interference. MBS 1/4/2023

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 3 of 11



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Caribou Well

Sample Date/Time: 12/20/22

le Date/Time: 12/20/22 11:30 AM Lab Number: 221220142-04

Test	Result	Method	RL	Date Analyze	d QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 u	g/L 12/28/2	2 QC61862	MBS
Phenol	ND	EPA 625	10.0 u	g/L 12/28/2	2 QC61862	MBS
Surrogate		PercentRee	covery Acc	eptance Limits		
2,4,6-Tribromopheno	bl	37.6	1	6 - 145		
2-Fluorobiphenyl		98.5	6	0 - 140		
2-Fluorophenol		76.8	6	0 - 140		
Nitrobenzene-d5		93.8	1	5 - 314		
Phenol-d5		81.6	;	3 - 424		
p-Terphenyl-d14		162.2	4	4 - 135		

Surrogate above QC criteria; most likely due to matrix interference. MBS 1/4/2023

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 4 of 11



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Cross Portal

Sample Date/Time: 12/20/22 12:15 PM

Lab Number: 221220142-05

Test	Result	Method	RL	RL Date Ana		QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0	ug/L	12/28/22	QC61862	MBS
Phenol	ND	EPA 625	10.0	10.0 ug/L 12/28/22		QC61862	MBS
Surrogate		PercentRed	covery A	ccepta	ince Limits		
2,4,6-Tribromophene	ol	17.8		16 - 1	45		
2-Fluorobiphenyl		100.5		60 - 1	40		
2-Fluorophenol		70.3		60 - 1	40		
Nitrobenzene-d5		96.1		15 - 3	314		
Phenol-d5		79.9		8 - 42	24		
p-Terphenyl-d14		169.8		44 - 1	35		

Surrogate above QC criteria; most likely due to matrix interference. MBS 1/4/2023

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 5 of 11



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal

Sample Date/Time: 12/20/22 11:15 AM

Lab Number: 221220142-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 ug/l	12/28/22	QC61862	MBS
Phenol	ND	EPA 625	10.0 ug/l	12/28/22	QC61862	MBS
Surrogate		PercentRee	covery Accep	tance Limits		
2,4,6-Tribromopheno	bl	58.4	16	- 145		
2-Fluorobiphenyl		90.2	60	- 140		
2-Fluorophenol		68.6	60	- 140		
Nitrobenzene-d5		89.4	15	- 314		
Phenol-d5		79.2	8 -	424		
p-Terphenyl-d14		158.4	44	- 135		

Surrogate above QC criteria; most likely due to matrix interference. MBS 1/4/2023

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 6 of 11



TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228 Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/12/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal - FB

Sample Date/Time: 12/20/22 11:15 AM

Lab Number: 221220142-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
2-Chlorophenol	ND	EPA 625	10.0 uç	g/L 12/28/22	QC61862	MBS
Phenol	ND	EPA 625	10.0 ug	g/L 12/28/22	QC61862	MBS
Surrogate		PercentRe	covery Acc	eptance Limits		
2,4,6-Tribromopheno	l	25.4	1	6 - 145		
2-Fluorobiphenyl		100.6	6	0 - 140		
2-Fluorophenol		70.0	6	0 - 140		
Nitrobenzene-d5		98.0	1	5 - 314		
Phenol-d5		82.9	8	3 - 424		
p-Terphenyl-d14		156.0	4	4 - 135		

Surrogate above QC criteria; most likely due to matrix interference. MBS 1/4/2023

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 7 of 11



Analytical QC Summary

TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC Receive Date: 12/20/22 Project Name: Monthly Groundwater

		-				
Test	QC Batch ID	QC Type	Result		Method	
2-Chlorophenol	QC61862	Method Blank	ND		EPA 625	
Phenol	QC61862	Method Blank	ND		EPA 625	
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
2-Chlorophenol	QC61862	LCS	55 - 130	75.1	-	EPA 625
		LCS Dup	-	82.8	-	
		MS	23 - 134	70.6	-	
		MSD	0 - 61	-	4.6	
Phenol	QC61862	LCS	48 - 130	65.9	-	EPA 625
		LCS Dup	-	82.7	-	
		MS	5 - 120	65.6	-	
		MSD	0 - 64	-	1.6	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 8 of 11

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Erand Island Resour	Ceompany Name: Credit Courd	
Contact Name: Brocke Moran	Contact Name:	
Address: 12567 W. Cedar Dr. Ste. 250	Address:	Task Number (Lab Use Only)
cityLakewood state CO zip80228	City State Zip	CAL Task
Phone: 303-506-1618	Phone:	221220142
Email: Sergio, rivera@novame	ticinali: \IX a CON	
Sample Collector: BM	1	ARF
Sample Collector Phone: 303-506-1618	PO No.:	



<u>Commerce City Lab</u> 10411 Heinz Way Commerce City CO 80640

Lakewood Service Center 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

											Tests	s Re	ques	ted				
S	Sample Matrix (Select One On	y)		<u>ک</u>														
Waste Water	Soil	Drinking Water	lers	Onl	6	NB	0	2	2	O	5	\mathcal{O}	O	1 <	4			
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Surface Water 🗌			f Co	heck		1						•						
		FIELI	-0.0 -0.0	Grab Drab Com														
Date Lime	Sampie I					+									_	_		
12/20/22 13:00 C	ROSS WELL		9	6														
12/20/22 13:30 Ca	OMPLIANCE WE	IL	9	6	_													
12/20/22 13:30 CC	OMPLIANCEW	ELL-FB	9	e	_													
12/20/22 11:30 C	ARIBOU WELL		9	e														
2/20/22/22/15 C	ROSS PORTAL	······	9	6														
12/20/2 11:15 C	ARIBOV PORTA	L	9	G														
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121VD Carli	7:14 1110	Page 9	of 11												. .]		
	4	1/~																



CAL Task

221220142

ARF

Quotation for Analytical Services

Quote ID: QBO22050014

LABORATORIES, INC.



Grand Island Resources LLC

12567 W Cedar Dr Suite 250 Lakewood, CO 80228 Quote Date: Wednesday, May 4, 2022 Turn Around Time: 10 Working Days

Attn: Brooke Molson-Moran

Project:

Monthly Groundwater

Matrix	Description	Method	Qty.	Price - each	Total
Water - Ground	Langelier Index	N/A	6	\$60.00	\$360.00
Water - Ground	Alkalinity	SM 2320-B	6	Incl.	Incl.
Water - Ground	Ca as CaCO3	EPA 200.7	6	In cl .	Incl.
Water - Ground	Carb/ Bicarb	SM 2320-B	6	Incl.	Inci.
Water - Ground	Lang Index	SM 2330-B	6	Incl.	Incl.
Water - Ground	pH/ Temp	SM 4500-H-B	6	Incl.	Incl.
Water - Ground	TDS	SM 2540-C	6	Incl.	Incl.
Water - Ground	Nitrate/ Nitrite Nitrogen	Calculation	6	\$0.00	\$0.00
Water - Ground	B - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ca - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Fe - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ag - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ag - Total	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Al - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	As - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ba - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Be - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cd - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Co - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cr - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cu - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mo - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ni - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Pb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Sb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Se - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	TI - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	V - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Zn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Chloride	EPA 300.0	6	\$18.00	\$108.00

Page 1 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

		CALIASK			
	Colorodo	221220142	Quotation for /	Analytical Serv	ices
	Analytical		Quote ID:	QBO22050014	
	LABORATORIES, INC.				
Water - Ground	Fluoride	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	Nitrate Nitrogen	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	Nitrite Nitrogen	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	Sulfate	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	U - Dis	EPA 200.8	6	\$23.00	\$138.00
Water - Ground	Hg	EPA 245.7	6	\$27.00	\$162.00
Water - Ground	Total Coliform	SM 9221-B	6	\$27.00	\$162.00
Water - Ground	Cyanide - Free	ASTM D4282-15	6	\$40.00	\$240.00
Water - Ground	Phenols	EPA 420.4	6	\$55.00	\$330.00
Water - Ground	Metals (Sub)	EPA 200.7/EPA 200.8	6	\$67.20	\$403.20
Water - Ground	Gross Alpha/Beta (Sub)	SM 7110-B	6	\$68.40	\$410.40
Water - Ground	Asbestos (Sub)	TEM	6	\$120.00	\$720.00
Water - Ground	625 SOCs	EPA 625	6	\$225.00	\$1,350.00
Shipping	Sample Shipment to Outside Lab	UPS	2	\$30.00	\$60.00
Shipping	Ext. Sample Shipment to Outside Lab	UPS or FedEx	1	\$50.00	\$50.00

Metals (sub) for dissolved lithium. Hg - dissolved. Only 2-Chlorophenol and Phenol needed for 625. Customer field filtering dissolved metals.

\$6,983.60

Samples should be shipped or hand delivered the same day they are collected. Orders that requrie sub-lab analysis should be delivered to the lab Monday thru Wednesday only.

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and coliform bacteria.

Sub-Lab analysis pricing subject to change. Sub-Lab radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix. Due to time, distance and other constraints outside of the control of CAL shipments to sub labs are not guranteed. All shipment charges will be billed to the client regardless of shipment outcome.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-659-2313 or visit us at www.coloradolab.com

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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Analytical Results

TASK NO: 221220142

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 **Client PO:** Client Project: Monthly Groundwater

> Customer Sample ID Cross Well Sample Date/Time: 12/20/22

Date Received: 12/20/22 Date Reported: 1/19/23 Matrix: Water - Ground

Lab Numb	ber: 221220142-01				
Test	Result	Method	RL	Date Analyzed	QC Batch ID
Bicarbonate	63.2 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-
Calcium as CaCO3	40.5 mg/L	EPA 200.7	0.1 mg/L	12/22/22	-
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-
Langelier Index	-1.90 units	SM 2330-B	units	12/29/22	-
рН	6.70 units	SM 4500-H-B	0.01 units	12/20/22	-
Temperature	6 °C	SM 4500-H-B	1 °C	12/20/22	-
Total Alkalinity	63.2 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	12/21/22	QC61788
Total Dissolved Solids	109 mg/L	SM 2540-C	5 mg/L	12/23/22	QC61827

1:00 PM

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 11

Analyzed By

TAB

MBN TAB

TAB SAN

Sampler

Sampler

TAB MLT



Report To: Patrick Delaney Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Analytical Results

TASK NO: 221220142

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/19/23 Matrix: Water - Ground

Customer Sample ID Compliance Well Sample Date/Time: 12/20/22 1:3

le Date/Time: 12/20/22 1:30 PM Lab Number: 221220142-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	62.2 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Calcium as CaCO3	41.1 mg/L	EPA 200.7	0.1 mg/L	12/22/22	-	MBN
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Langelier Index	-1.93 units	SM 2330-B	units	12/29/22	-	SAN
рН	6.60 units	SM 4500-H-B	0.01 units	12/20/22	-	Sampler
Temperature	6 °C	SM 4500-H-B	1 °C	12/20/22	-	Sampler
Total Alkalinity	62.2 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	12/21/22	QC61788	TAB
Total Dissolved Solids	96 mg/L	SM 2540-C	5 mg/L	12/23/22	QC61827	MLT
Disselves d Matala filterrad in th	a field by the surfaces					

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 11


Analytical Results

TASK NO: 221220142

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 **Client PO:** Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/19/23 Matrix: Water - Ground

Customer Sample ID Compliance Well - FB Sample Date/Time: 12/20/22

1:30 PM Lab Number: 221220142-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Calcium as CaCO3	ND	EPA 200.7	0.1 mg/L	12/22/22	-	MBN
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Langelier Index	-7.22 units	SM 2330-B	units	12/29/22	-	SAN
pН	5.60 units	SM 4500-H-B	0.01 units	12/20/22	-	DAT
Temperature	20 °C	SM 4500-H-B	1 °C	12/20/22	-	DAT
Total Alkalinity	ND	SM 2320-B	4.0 mg/L as CaCO3	12/21/22	QC61788	TAB
Total Dissolved Solids	ND	SM 2540-C	5 mg/L	12/23/22	QC61827	MLT
Discoluted Matala filtered in the field	builded and a more					

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 3 of 11



Analytical Results

QC Batch ID

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QC61788

QC61827

12/21/22

12/23/22

Analyzed By

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MBN

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TAB

SAN

Sampler

Sampler

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MLT

TASK NO: 221220142

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 **Client PO:** Client Project: Monthly Groundwater

Customer Sample ID Caribou Well

Total Alkalinity

Total Dissolved Solids

Date Received: 12/20/22 Date Reported: 1/19/23 Matrix: Water - Ground

Sample Date/Ti	me: 12/20/22 11:30 AM			
Lab Num	ber: 221220142-04			
Test	Result	Method	RL	Date Analyzed
Bicarbonate	19.0 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	12/21/22
Calcium as CaCO3	9.5 mg/L	EPA 200.7	0.1 mg/L	12/22/22
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22
Langelier Index	-3.38 units	SM 2330-B	units	12/29/22
рН	6.30 units	SM 4500-H-B	0.01 units	12/20/22
Temperature	6 °C	SM 4500-H-B	1 °C	12/20/22

34 mg/L

SM 2320-B

SM 2540-C

4.0 mg/L as CaCO3

5 mg/L

19.0 mg/L as CaCO3

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

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Analytical Results

TASK NO: 221220142

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

> Customer Sample ID Cross Portal Sample Date/Time: 12/20/22

12:15 PM

Date Received: 12/20/22 Date Reported: 1/19/23 Matrix: Water - Ground

221220142-05					
Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
105.2 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
62.3 mg/L	EPA 200.7	0.1 mg/L	12/22/22	-	MBN
ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
-0.12 units	SM 2330-B	units	12/29/22	-	SAN
8.00 units	SM 4500-H-B	0.01 units	12/20/22	-	Sampler
5 °C	SM 4500-H-B	1 °C	12/20/22	-	Sampler
105.2 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	12/21/22	QC61788	TAB
80 mg/L	SM 2540-C	5 mg/L	12/23/22	QC61827	MLT
	221220142-05 Result 105.2 mg/L as CaCO3 62.3 mg/L ND -0.12 units 8.00 units 5 °C 105.2 mg/L as CaCO3 80 mg/L	Result Method 105.2 mg/L as CaCO3 SM 2320-B 62.3 mg/L EPA 200.7 ND SM 2320-B ND SM 2320-B ND SM 2320-B SM 2320-B SM 2320-B SM 2320-B SM 2330-B SM 4500-H-B SM 4500-H-B SM 2520-B SM 2320-B SM 4500-H-B SM 2320-B SM 2520-B SM 2520-B	Result Method RL 105.2 mg/L as CaCO3 SM 2320-B 0.2 mg/L as CaCO3 62.3 mg/L EPA 200.7 0.1 mg/L ND SM 2320-B 0.2 mg/L as CaCO3 ND SM 2320-B 0.2 mg/L as CaCO3 ND SM 2320-B 0.2 mg/L as CaCO3 -0.12 units SM 2330-B units 8.00 units SM 4500-H-B 0.01 units 5 °C SM 4500-H-B 1 °C 105.2 mg/L as CaCO3 SM 2320-B 4.0 mg/L as CaCO3 80 mg/L SM 2540-C 5 mg/L	Result Method RL Date Analyzed 105.2 mg/L as CaCO3 SM 2320-B 0.2 mg/L as CaCO3 12/21/22 62.3 mg/L EPA 200.7 0.1 mg/L 12/22/22 ND SM 2320-B 0.2 mg/L as CaCO3 12/21/22 ND SM 2320-B 0.2 mg/L as CaCO3 12/21/22 ND SM 2320-B 0.2 mg/L as CaCO3 12/21/22 -0.12 units SM 2330-B units 12/29/22 8.00 units SM 4500-H-B 0.01 units 12/20/22 5 °C SM 4500-H-B 1 °C 12/20/22 105.2 mg/L as CaCO3 SM 2320-B 4.0 mg/L as CaCO3 12/21/22 80 mg/L SM 2320-B 5 mg/L 12/20/22	Result Method RL Date Analyzed QC Batch ID 105.2 mg/L as CaCO3 SM 2320-B 0.2 mg/L as CaCO3 12/21/22 - 62.3 mg/L EPA 200.7 0.1 mg/L 12/22/22 - ND SM 2320-B 0.2 mg/L as CaCO3 12/21/22 - ND SM 2320-B 0.2 mg/L as CaCO3 12/21/22 - ND SM 2320-B 0.2 mg/L as CaCO3 12/21/22 - -0.12 units SM 2330-B 0.2 mg/L as CaCO3 12/21/22 - -0.12 units SM 2330-B units 12/20/22 - 8.00 units SM 4500-H-B 0.01 units 12/20/22 - 105.2 mg/L as CaCO3 SM 4500-H-B 1°C 12/20/22 - 105.2 mg/L as CaCO3 SM 2320-B 4.0 mg/L as CaCO3 12/21/22 QC61788 80 mg/L SM 2540-C 5 mg/L 12/23/22 QC61827

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 5 of 11



Analytical Results

TASK NO: 221220142

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 **Client PO:** Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/19/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal Sample Date/Time: 12/20/22

11:15 AM Lab Number: 221220142-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	129.6 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Calcium as CaCO3	66.8 mg/L	EPA 200.7	0.1 mg/L	12/22/22	-	MBN
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Langelier Index	0.47 units	SM 2330-B	units	12/29/22	-	SAN
рН	8.60 units	SM 4500-H-B	0.01 units	12/20/22	-	Sampler
Temperature	2 °C	SM 4500-H-B	1 °C	12/20/22	-	Sampler
Total Alkalinity	129.6 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	12/21/22	QC61788	TAB
Total Dissolved Solids	141 mg/L	SM 2540-C	5 mg/L	12/23/22	QC61827	MLT
Discological Materia filterest in A	he field by the systems					

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount. ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 6 of 11



Analytical Results

TASK NO: 221220142

Bill To: Accounts Payable Company: Grand Island Resources LLC 12567 W Cedar Dr Suite 250 Lakewood CO 80228

Task No.: 221220142 Client PO: Client Project: Monthly Groundwater

Date Received: 12/20/22 Date Reported: 1/19/23 Matrix: Water - Ground

Customer Sample ID Caribou Portal - FB Sample Date/Time: 12/20/22 11:15

le Date/Time: 12/20/22 11:15 AM Lab Number: 221220142-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Calcium as CaCO3	ND	EPA 200.7	0.1 mg/L	12/22/22	-	MBN
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	12/21/22	-	TAB
Langelier Index	-5.26 units	SM 2330-B	units	12/29/22	-	SAN
рН	5.26 units	SM 4500-H-B	0.01 units	12/20/22	-	DAT
Temperature	20 °C	SM 4500-H-B	1 °C	12/20/22	-	DAT
Total Alkalinity	ND	SM 2320-B	4.0 mg/L as CaCO3	12/21/22	QC61788	TAB
Total Dissolved Solids	ND	SM 2540-C	5 mg/L	12/23/22	QC61827	MLT

Dissolved Metals filtered in the field by the customer

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 7 of 11



Analytical QC Summary

TASK NO: 221220142

Report To: Patrick Delaney Company: Grand Island Resources LLC Receive Date: 12/20/22 Project Name: Monthly Groundwater

Test		QC	Batch ID	QC Type	Res	ult	Metho	d	
Total Alkalinity		Q	C61788	Blank	ND		SM 2320	0-B	
Total Dissolved Solids		Q	C61827	Blank	ND		SM 2540	0-C	
Test	QC Batc	h ID	QC Type		Spike Amt	Limits %	% Rec	RPD	Method
Total Alkalinity	QC617	788	Duplicate -	-221220007-01	-	0 - 2	20 -	0.2	SM 2320-E
			LCS		1000 mg/L	. as 90 -	110 105.1	-	
			LCS-2		40000 mg/L	as 90-	110 102.7	-	
Total Dissolved Solids	QC618	327	Duplicate ·	-221220099-01	-	0 - 2	20 -	1.1	SM 2540-0
			LCS		745 mg/L	. 85 -	115 0.2	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References: RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB

Date Analyzed = Date Test Completed

mpn/100 mls = Most Probable Number Index/ 100 mls

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 8 of 11

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Erand Island Resour	Company Name: Credit Courd	
Contact Name: Brocke Moran	Contact Name:	
Address: 12567 W. Cedar Dr. Ste. 250	Address:	Task Number (Lab Use Only)
cityLakewood state CO zip80228	City State Zip	CAL Task
Phone: 303-506-1618	Phone:	221220142
Email: Sergio, rivera@novame	ticinali: \IX a CON	
Sample Collector: BM		ARF
Sample Collector Phone: 303-506-1618	PO No.:	



<u>Commerce City Lab</u> 10411 Heinz Way Commerce City CO 80640

Lakewood Service Center 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

											Fests	s Rec	quest	ed				
S	Sample Matrix (Select One On	y)		<u>ک</u>														T
Waste Water	Soil	Drinking Water	lers	Onl	6	NB	0	2	2	O	5	\mathcal{O}	O		H			
Ground Water 🔀	Sludge 🗌		ntain	c One			XOK	tec			27	-12	2					
Surface Water 🔲			fCo	heck								1						
		- Field	No. 0	Grab or (C Com														
Date Time	Sample I	pt pt	-			_								_				
12/20/22 13:00 C	ROSS WELL		9	6	-													
12/20/22 13:30 Ca	OMPLIANCE WE	IL	9	6	-													
12/20/22 13:30 CC	OMPLIANCEW	ELL-FB	9	e														
12/20/22 11:30 C	ARIBOU WELL	_	9	e														
2/20/22 12:15 C	ROSS PORTAL	······································	9	6														
12/20/22 11215 C	ARIBON PORTA	L	9	G														
12/20/22 11:15 C	ARIBOU PORTA	L-FB	9	6														
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121VD Can 1	7:14 1110	Page 9	of 11															
		110																



CAL Task

221220142

ARF

Quotation for Analytical Services

Quote ID: QBO22050014

LABORATORIES, INC.



Grand Island Resources LLC

12567 W Cedar Dr Suite 250 Lakewood, CO 80228 Quote Date: Wednesday, May 4, 2022 Turn Around Time: 10 Working Days

Attn: Brooke Molson-Moran

Project:

Monthly Groundwater

Matrix	Description	Method	Qty.	Price - each	Total
Water - Ground	Langelier Index	N/A	6	\$60.00	\$360.00
Water - Ground	Alkalinity	SM 2320-B	6	Incl.	Incl.
Water - Ground	Ca as CaCO3	EPA 200.7	6	In cl .	Incl.
Water - Ground	Carb/ Bicarb	SM 2320-B	6	Incl.	Inci.
Water - Ground	Lang Index	SM 2330-B	6	Incl.	Incl.
Water - Ground	pH/ Temp	SM 4500-H-B	6	Incl.	Incl.
Water - Ground	TDS	SM 2540-C	6	Incl.	Incl.
Water - Ground	Nitrate/ Nitrite Nitrogen	Calculation	6	\$0.00	\$0.00
Water - Ground	B - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ca - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Fe - Dis	EPA 200.7	6	\$13.00	\$78.00
Water - Ground	Ag - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ag - Total	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Al - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	As - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ba - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Be - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cd - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Co - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cr - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Cu - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Mo - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Ni - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Pb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Sb - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Se - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	TI - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	V - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Zn - Dis	EPA 200.8	6	\$16.00	\$96.00
Water - Ground	Chloride	EPA 300.0	6	\$18.00	\$108.00

Page 1 of 5

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JAK

		CALIASK			
	Colorodo	221220142	Quotation for /	Analytical Serv	rices
	Analytical		Quote ID:	QBO22050014	
	LABORATORIES, INC.				
Water - Ground	Fluoride	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	Nitrate Nitrogen	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	Nitrite Nitrogen	EPA 300.0	6	\$18.00	\$108.00
Water - Ground	Sulfate	EPA 300.0	6	\$18,00	\$108.00
Water - Ground	U - Dis	EPA 200.8	6	\$23.00	\$138.00
Water - Ground	Hg	EPA 245.7	6	\$27.00	\$162.00
Water - Ground	Total Coliform	SM 9221-B	6	\$27.00	\$162.00
Water - Ground	Cyanide - Free	ASTM D4282-15	6	\$40.00	\$240.00
Water - Ground	Phenols	EPA 420.4	6	\$55.00	\$330.00
Water - Ground	Metals (Sub)	EPA 200.7/EPA 200.8	6	\$67.20	\$403.20
Water - Ground	Gross Alpha/Beta (Sub)	SM 7110-B	6	\$68.40	\$410.40
Water - Ground	Asbestos (Sub)	TEM	6	\$120.00	\$720.00
Water - Ground	625 SOCs	EPA 625	6	\$225.00	\$1,350.00
Shipping	Sample Shipment to Outside Lab	UPS	2	\$30.00	\$60.00
Shipping	Ext. Sample Shipment to Outside Lab	UPS or FedEx	1	\$50.00	\$50.00

Metals (sub) for dissolved lithium. Hg - dissolved. Only 2-Chlorophenol and Phenol needed for 625. Customer field filtering dissolved metals.

\$6,983.60

Samples should be shipped or hand delivered the same day they are collected. Orders that requrie sub-lab analysis should be delivered to the lab Monday thru Wednesday only.

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and coliform bacteria.

Sub-Lab analysis pricing subject to change. Sub-Lab radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix. Due to time, distance and other constraints outside of the control of CAL shipments to sub labs are not guranteed. All shipment charges will be billed to the client regardless of shipment outcome.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-659-2313 or visit us at www.coloradolab.com

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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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Hazen Research, Inc. 4601 Indiana Street Golden, CO 80403 USA Tel: (303) 279-4501 Fax: (303) 278-1528

Customer ID: 20040H Account ID: Z01034 Lab Control ID: 22M03374 Received: Dec 21, 2022 Reported: Jan 11, 2023 Purchase Order No. None Received

Stuart Nielson Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City, CO 80640

ANALYTICAL REPORT

Report may only be copied in its entirety. Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

By: Nan

Roxanne Sullivan Analytical Laboratories Director



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	nple ID	22M03374-001						
Customer Sample ID 221220142-01F - Monthly Groundwater - Cross Well									
				sampled or	n 12/20/22 (@ 1300			
		Precision* Detection Analysis							
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	<0.1	0.8	0.1	SM 7110 B	1/9/23 @ 0919	RG	
Gross Beta	pCi/L	Т	<2.9	2.2	2.9	SM 7110 B	1/9/23 @ 0919	RG	

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03374-002								
Custom	er Sam	ple ID	221220142-0)2F - Monthl	ly Groundw	ater - Compliance Well					
				sampled or	n 12/20/22 (@ 1330					
				Precision* Detection Analysis							
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst			
Gross Alpha	pCi/L	Т	0.9	1.0	0.1	SM 7110 B	1/9/23 @ 0921	RG			
Gross Beta	pCi/L	Т	<2.8	2.2	2.8	SM 7110 B	1/9/23 @ 0921	RG			

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03374-003						
Custom	er Sam	ple ID	221220142-0	3F - Monthl	ly Groundwa	ater - Compliance Well - F	В		
				sampled on 12/20/22 @ 1330					
				Precision*	Detection		Analysis		
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	0.2	0.8	0.1	SM 7110 B	1/9/23 @ 0923	RG	
Gross Beta	pCi/L	Т	<2.9	2.0	2.9	SM 7110 B	1/9/23 @ 0923	RG	

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03374-004						
Custom	er Sam	ple ID	221220142-0	4F - Monthl	y Groundwa	ater - Caribou Well			
				sampled on 12/20/22 @ 1130					
				Precision*	Detection		Analysis		
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	0.5	0.9	0.1	SM 7110 B	1/9/23 @ 0925	RG	
Gross Beta	pCi/L	Т	<2.8	2.1	2.8	SM 7110 B	1/9/23 @ 0925	RG	

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	nple ID	22M03374-005						
Custom	er Sam	nple ID	221220142-0	5F - Monthl	y Groundwa	ater - Cross Portal			
				sampled on 12/20/22 @ 1215					
				Precision*	Detection		Analysis		
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	1.0	1.2	0.1	SM 7110 B	1/9/23 @ 0927	RG	
Gross Beta	pCi/L	Т	<2.8	2.1	2.8	SM 7110 B	1/9/23 @ 0927	RG	

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03374-006						
Custom	er Sam	ple ID	221220142-0	6F - Monthl	ly Groundwa	ater - Caribou Portal			
				sampled on 12/20/22 @ 1115					
				Precision*	Detection		Analysis		
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	3.7	1.9	0.1	SM 7110 B	1/9/23 @ 0929	RG	
Gross Beta	pCi/L	Т	2.8	2.3	2.7	SM 7110 B	1/9/23 @ 0929	RG	

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

La	ab Sam	ple ID	22M03374-007						
Custom	er Sam	ple ID	221220142-0	7F - Month	ly Groundwa	ater - Caribou Portal - FB			
				sampled on 12/20/22 @ 1115					
				Precision*	Detection		Analysis		
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst	
Gross Alpha	pCi/L	Т	0.2	0.8	0.1	SM 7110 B	1/9/23 @ 0931	RG	
Gross Beta	pCi/L	Т	<3.0	2.0	3.0	SM 7110 B	1/9/23 @ 0931	RG	

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

Date: 01/09/2023

Batch QC Summary Form

Analyte: Gross Alpha				
Control Standard/LFB:	ID: C-11a_002	pCi/mL:	57.4	(use 1 diluted)
Spike Solution:	ID: C-11a_002	pCi/mL:	57.4	(use 1 mL)
Spike Recovery Calculation:	Sample: Ta	ap*		

Calculation:	(50.2)	(1.000)	-	(0.0)	(0.200)	 x 100 =	87%
			57.4				

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	X		
Spike Recovery	70 - 130 %	X		
Blank	< or = 3 x Uncertainty	X		
Duplicate 1	95% confidence interval overlap	X		
Duplicate 2 *	95% confidence interval overlap	Х		

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M03289	22M03385	
22M03286		
22M03312		
22M03314		
22M03332		Evaluator:
22M03374		
22M03379		Michaelle Chaines
22M03381		muchelle Stringer —
22M03382		V
22M03384		01/10/2023
		Dete

HAZEN RESEARCH, INC. RADIOCHEMISTRY LABORATORY

Date: 01/09/2023

Batch QC Summary Form

Analyte: Gross Beta					
Control Standard/LFB:	ID: C-11a_002	pCi/mL:	44	(use 1 diluted)	
Spike Solution:	ID: C-11a_002	pCi/mL:	44	(use 1 mL)	
Spike Recovery Calculation:	Sample: T	ap*			

Calculation:	(39.7)	(1.000)	-	(0.0)	(0.200)	x 100 =	90%
-			44				

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	X		
Spike Recovery	80 - 120 %	X		
Blank	< or = 3 x Uncertainty	X		
Duplicate 1	95% confidence interval overlap	X		
Duplicate 2 *	95% confidence interval overlap	X		

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M03289	22M03385	
22M03286		
22M03312		
22M03314		
22M03332		<u>Evaluator:</u>
22M03374		
22M03379		Michaelle Chainen
22M03381		muchale Sinnger
22M03382		V
22M03384		01/10/2023
		Data

0 3374 azen Research Y (N #: ved:	J	Yes No V			Containar Tuna	1L - Unpreserved	1L - Unpreserved	11 - Unpreserved	1L - Unpreserved	1L - Unpreserved	1L - Unpreserved	1L - Unpreserved	
2214 Ship To: H Preserved: HNO3 Lot # Date Preser	Project Name Monthly Groundwat	Compliance Samples: Submit Data to CDPHE	quested										
	m report to)	CAL TASK 221220142 ARF	Tests Ree	Gross Alpha/Beta (S	Sub)								
	To Information (If different fror	Less:			Matrix	Water - Ground	Water - Ground	Water - Ground	Water - Ground	Water - Ground	Water - Ground	Water - Ground	
Colorado Analytical Aboratories, inc.	on Bill <u>Colorado Analytical Laboratory</u> <u>tuart Nielson</u> <u>tuartnielson@coloradolab.com</u>	Add <u>80640</u> <u>313</u>			Sample ID	221220142-01F - Cross Well	221220142-02F - Compliance Well	221220142-03F - Compliance Well - FB	221220142-04F - Caribou Well	221220142-05F - Cross Portal	221220142-06F - Caribou Portal	221220142-07F - Caribou Portal - FB	
	Report To Informatid Company Name: <u>C</u> Report To: <u>S</u> E-Mail: <u>s</u>	Address: <u>10411 Heinz Way</u> <u>Commerce City, CO</u> Phone: <u>303-659-2</u>			Sample Date/Time	12/20/22 1:00 PM	12/20/22 1:30 PM	12/20/22 1:30 PM	12/20/22 11:30 AM	12/20/22 12:15 PM	12/20/22 11:15 AM	12/20/22 11:15 AM	Comment

Treservation NM 2/22/22 (332) 208 Mercurrel 1445 M 126. L Signature ECEIVED DEC 21 Page 1 of 1 Date: Time: Relinquished by: (Signature) Date: Time: Received by: (Signature) 12-21/22 12pm Date: Time: Relinquished by: (Signature) P

63

🔅 eurofins

January 04, 2023

Built Environment Testing Reservoirs

Subcontractor Number:Laboratory Report:RES 545Project #/P.O. #:22122014Project Description:Grand Is

RES 545614-1 221220142 Grand Island Resources

Angela Forte Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City CO 80640

Dear Angela,

Eurofins Reservoirs is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA LAP, LLC), Lab ID 101533 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Eurofins Reservoirs has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 545614-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Eurofins Reservoirs will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed, as received by the customer. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Eurofins Reservoirs Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

hence by Norberto Zimbelman

Jeanne Spencer President



EUROFINS RESERVOIRS ENVIRONMENTAL, INC

NVLAP Lab Code 101896-0 AIHA LAP, LLC. LAB ID 101533

TABLE: I ANALYSIS: TEM WATER SAMPLE ANALYTICAL RESULTS

RES Job Number:	RES 545614-1
Client:	Colorado Analytical Laboratories, Inc.
Client Project/P.O.:	221220142
Client Project Description:	Grand Island Resources
Date Samples Received:	December 21, 2022
Analysis Type:	REI TEM SOP / USEPA 100.2-M
Turnaround:	Standard 10
Date Samples Analyzed:	December 29 - January 04, 2023

NA = Not Analyzed NR = Not Received ND = None Detected TR = Trace; <1 % Visual Estimate Trem-Act = Tremolite-Actinolite

Laboratory	Sample ID	Aliquot Deposited on Filter	Dilution Factor	Total Number of Asbestos Structures	Greater than 10 Micron Length Asbestos Structures	Analytical Sensitivity	Total Asbestos Concentration	Greater than 10 Micron Length Asbestos Concentration
	Client ID Number	(ml)		Detected	Detected	(million struct/L)	(million struct/L)	(million struct/L)
545614 -	221220142-01H Cross Well	30	1	ND	ND	0.12	BAS	BAS
545614 -	221220142-02H Compliance Well	30	1	ND	ND	0.12	BAS	BAS
545614 -	221220142-03H Compliance Well - FB	30	1	ND	ND	0.12	BAS	BAS
545614 -	221220142-04H Caribou Well	20	1	ND	ND	0.17	BAS	BAS
545614 -	221220142-05H Cross Portal	20	1	ND	ND	0.17	BAS	BAS
545614 -	221220142-06H Caribou Portal	20	1	ND	ND	0.17	BAS	BAS
545614 -	221220142-07H Caribou Portal - FB	25	1	ND	ND	0.14	BAS	BAS

Filter Material = Mixed Cellulose Ester

Filter Diameter = 25mm

Effective Filter Area = 0mm²

Average Grid Opening = 0.010mm²

Norberto Zimbelman

Analyst

Alejandro Mejia Analvst



Built Environment Testing

RES Job #: 545614

SUBMITTED BY	IN	NVOICE TO	CONTACT INFORMATION	SERIES
Company: Colorado Analytical Laboratories, Inc	. с	Company: Colorado Analytical Laboratories, Inc.	Contact: Angela Forte	-1 TEM Standard 10
Address: 10411 Heinz Way	A	ddress: 10411 Heinz Way	Phone: (303) 659-2313	
			Fax:	
Commerce City, CO 80640		Commerce City, CO 80640	Cell:	
Project Number and/or P.O. #: 221220142			Final Data Deliverable Email Address:	
Project Description/Location: Grand Islan	d Resources		aforte@coloradolab.com (+ 6 ADDNL. CONTACTS)	

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm					REQUESTED ANALYSIS VALID MATRIX COD					X CODES		LAB NOTES				
PLM / PCM / TEM DTL	RUSH PRIORITY STANDARD									A	ir = A			Bulk = E	3	
						Śś	ria, Plate		[Dı	ust = D			Food =	F	
CHEMISTRY LABORATORY HO	URS: Weekdays: 8am - 5pm					iqui	Liste obic Wate			Pa	aint = P			Soil = S	3	
Dust RUS	SH PRIORITY STANDARD	1				/303 Non-l	1-2), , Aer king _ D),		[Surf	ace = S	SU		Swab = S	W	
						dorl n	le or & Mo -Drin		[Ta	ape = T			Wipe = \	N	
Metals RUS	SH PRIORITY STANDARD					Liqui	Non C) C)		uo		Di	inking	Wate	er = DW		
						pH (etals	Cult ls, Ye ater, NP of NP		ificati		٧	/aste \	Water	r = WW		
Organics* SAM	ME DAY RUSH PRIORITY STANDARD	2				vare) 25G), ull M	auret ng √ Cour Fia (F		dent	**AST	M E179	92 app	roved	d wipe medi	a only**	
MICROBIOLOGY LABORATORY	/ HOURS: Weekdays: 8am - 5pm	B 43				0000 10-13 ian, F	almor d, S., Drink obial gione		late		uot)					
Viable Analysis** PRI	ORITY STANDARD	CAR	5			SHA SHA Te Sc	Is, Sa Is, Sa Plate Micr I		articu		r Aliq					
	**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH	port,	100			e va e, O j Fun	acillume, ms - e Wa iable iable		ld, P		apei					
Medical Device Analysis RUS	SH STANDARD	g Re	EPA	SHA	0	dwar dwar elding	er, B blifon Stat (Stat	PL	kΜo		r Are					
		t, Lor	ater (DB, O	s)	, Foo , Foo	obaci oli/Oct coli- tic Ac	den,	o, Bul	g	dth (o					
Mold Analysis RUS	SH PRIORITY STANDARD	epor	ġ Ŵŝ	740(Resp Ilyte(SZ, /4 Vater Sca	mpyl- ns/E.c , Lac , Lac	opnu	e Trag	/Are	×Wi					
**Turnaround times esta	blish a laboratory priority, subject to laboratory volume and are not	ort R	inkin	00A,	otal, - Ane	RAE	Call - Call fiforr	E-Bi	spore	ie (L)	uots)		s	pe 、	pa	
guaranteed. Add	ditional fees apply for afterhours, weekends and holidays.**	rs -	ŗ	I - 74	HLS	S, Wa	t, Co	DICA	Å.	olum	r Aliq	ę	ainer	llect.	nm	1 - 1
Special Instructions:		PLN	TEM	PC	MET	TCLF		MEL	MOL	ple V	jth(o	ix Co	Conta	te Co	ne Co hh:r	Laboratory Analysis
Client Sample ID Number	(Sample ID's must be unique)	ASI	BESTO	OS	CHE	MISTRY	MICROBI	OLOG	Y	Sarr	Lenç	Matr	# of	Da	Tir	matruotiona
1 221220142-01H Cross Well			X							1L		w	1	12/20/22	13:00	
2 221220142-02H Compliance Well		1	X	1 1				1		1L		w	1	12/20/22	13:30	
3 221220142-03H Compliance Well	- FB	1	X	1 1				1		1L		w	1	12/20/22	13:30	
4 221220142-04H Caribou Well		1	X	1					T	1L		w	1	12/20/22	11:30	
5 221220142-05H Cross Portal		1	X						Ť	1L		W	1	12/20/22	12:15	
6 221220142-06H Caribou Portal		1	X						Ť	1L		W	1	12/20/22	11:15	
7 221220142-07H Caribou Portal - F	-B	T	X						T	1L		W	1	12/20/22	11:15	

EREI establishes a unique Lab Sample ID, for each sample, by preceding each unique Client Sample ID with the laboratory RES Job Number.

EREI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall consitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	4 H	Angela Forte	Date/Time: 12/21/2022 9:01:00	Sample Condition: Acceptable - On Ice
Received By:	farter	Jessica Parker	Date/Time: 12/21/2022 13:52:40	Carrier: Fed-Ex
(202) 064 1086			E801 Logan St. Suite 100 Denver, CO 20216	

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	CAB
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	12/29/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	545614-1	Date Received	12/21/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221220142-01H Cross Well	Method	EPA 100.2	Scope Align	12/29/2022
Suspension		Aliquot	30	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
Α	E3-1	ND									
	B4-6	ND									
	C6-3	ND									
	G5-1	ND									
	H5-4	ND									
В	H4-4	ND									
	G5-1	ND									
	A4-6	ND									
	B2-6	ND									
	C4-3	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	CAB
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	12/29/2022
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	545614-1	Date Received	12/21/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221220142-02H Compliance Well	Method	EPA 100.2	Scope Align	12/29/2022
Suspension		Aliquot	30	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
A	E5-1	ND									
	B5-3	ND									
	C6-6	ND									
	F6-1	ND									
	G4-4	ND									
В	F3-3	ND									
	G4-1	ND									
	K3-3	ND									
	A4-4	ND									
	C2-4	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	AME	
Primary Scope	JEM-100CX II	Sample Type	Water	Analysis Date	12/29/2022	
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect	
Magnification	20000	Res Number	545614-1	Date Received	12/21/2022	
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01	
Sample ID	221220142-03H Compliance Well - FB	Method	EPA 100.2	Scope Align	12/29/2022	
Suspension		Aliquot	30	Grid Openings	10	

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
Α	F5-1	ND									
	F5-4	ND									
	G5-1	ND									
	G5-4	ND									
	F5-3	ND									
В	F4-1	ND									
	F4-4	ND									
	G4-1	ND									
	G4-4	ND									
	H4-1	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	01/04/2023
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	545614-1	Date Received	12/21/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221220142-04H Caribou Well	Method	EPA 100.2	Scope Align	01/04/2023
Suspension		Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
В	C5-4	ND									
	F2-6	ND									
	E2-6	ND									
А	G6-1	ND									
	F6-4	ND									
	E6-4	ND									
	G5-1	ND									
	F5-1	ND									
	G2-3	ND									
	F2-3	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	01/04/2023
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	545614-1	Date Received	12/21/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221220142-05H Cross Portal	Method	EPA 100.2	Scope Align	01/04/2023
Suspension		Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
В	E4-6	ND									
	E4-3	ND									
	C4-6	ND									
	H5-3	ND									
	G5-3	ND									
	F5-3	ND									
	E5-3	ND									
Α	F5-3	ND									
	G5-3	ND									
	H5-3	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	01/04/2023
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	545614-1	Date Received	12/21/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221220142-06H Caribou Portal	Method	EPA 100.2	Scope Align	01/04/2023
Suspension		Aliquot	20	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
В	G3-4	ND									
	E3-4	ND									
	E3-1	ND									
	F4-4	ND									
	F4-1	ND									
	E4-4	ND									
	E4-1	ND									
А	F4-1	ND									
	E4-1	ND									
	C4-1	ND									

Lab Name	Eurofins Reservoirs	Client	Colorado Analytical Laboratories, Inc.	Analyzed By	NZ
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	01/04/2023
Voltage	100KV	Vol/Area	1L	Prep Method	Indirect
Magnification	20000	Res Number	545614-1	Date Received	12/21/2022
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	346	Grid Opening Area (mm²)	0.01
Sample ID	221220142-07H Caribou Portal - FB	Method	EPA 100.2	Scope Align	01/04/2023
Suspension		Aliquot	25	Grid Openings	10

Grid	GO	Туре	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
A	E4-4	ND									
	C4-4	ND									
	B4-4	ND									
	F5-1	ND									
	E5-1	ND									
	C5-1	ND									
В	H3-3	ND									
	K4-3	ND									
	H4-3	ND									
	G4-3	ND									

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 440703

2/8/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Cross Portal Source City: Nederland Source State: CO

Date/Time Received: 12/27/2022 08:03

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected		DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
Physical Factors													
1905	Apparent Color	2120B	15	CU	3	ND	Q,Y5	1	12/20/2022	14:15		12/27/2022	11:30
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	Q,Y5	1	12/20/2022	14:15		12/28/2022	10:30
		Ν	/IBAS, calcula	ted as Lir	near Alkylat	te Sulfonate	(LAS)	, mol	wt of 342.4 g/r	nole			
1920	Odor Threshold	2150B	3	ton	1	ND	Q,Y5	1	12/20/2022	14:15		12/27/2022	11:15

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

Y5: Sample received above the recommended temperature. Sample does not meet method requirements for acceptable thermal preservation.



Analyst	Tests
SP	2120B,5540C,2150B

Christine MacMillan, Technical Director

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ANALYTICAL REPORTS

SAMPLE CODE: 440704

2/8/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Cross Well Source City: Nederland Source State: CO

Date/Time Received: 12/27/2022 08:03

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

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"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected		DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
Physical Factors													
1905	Apparent Color	2120B	15	CU	3	ND	Q,Y5	1	12/20/2022	15:00		12/27/2022	11:30
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	Q,Y5	1	12/20/2022	15:00		12/28/2022	10:30
	MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole												
1920	Odor Threshold	2150B	3	ton	1	ND	Q,Y5	1	12/20/2022	15:00		12/27/2022	11:15

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

Y5: Sample received above the recommended temperature. Sample does not meet method requirements for acceptable thermal preservation.



Analyst	Tests
SP	2120B,5540C,2150B

Christine MacMillan, Technical Director

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ANALYTICAL REPORTS

SAMPLE CODE: 440705

2/8/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Compliance Well Source City: Nederland Source State: CO

Date/Time Received: 12/27/2022 08:03

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	I	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
Physical Factors													
1905	Apparent Color	2120B	15	CU	3	ND	Q,Y5	1	12/20/2022	15:30		12/27/2022	11:30
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	Q,Y5	1	12/20/2022	15:30		12/28/2022	10:30
MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole													
1920	Odor Threshold	2150B	3	ton	1	ND	Q,Y5	1	12/20/2022	15:30		12/27/2022	11:15

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

Y5: Sample received above the recommended temperature. Sample does not meet method requirements for acceptable thermal preservation.



Analyst	Tests
SP	2120B,5540C,2150B

Christine MacMillan, Technical Director

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 440706

2/8/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Compliance Well - FB Source City: Nederland Source State: CO

Date/Time Received: 12/27/2022 08:03

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

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"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected		DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
Physical Factors													
1905	Apparent Color	2120B	15	CU	3	ND	Q,Y5	1	12/20/2022	15:30		12/27/2022	11:30
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	Q,Y5	1	12/20/2022	15:30		12/28/2022	10:30
MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole													
1920	Odor Threshold	2150B	3	ton	1	ND	Q,Y5	1	12/20/2022	15:30		12/27/2022	11:15

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

Y5: Sample received above the recommended temperature. Sample does not meet method requirements for acceptable thermal preservation.

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Analyst	Tests
SP	2120B,5540C,2150B

Christine MacMillan, Technical Director

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ANALYTICAL REPORTS

SAMPLE CODE: 440707

2/8/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Caribou Portal Source City: Nederland Source State: CO

Date/Time Received: 12/27/2022 08:03

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

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"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Contaminant	Method S	Standard	Units	LRL	Level Detected	[DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
Physical Factors												
Apparent Color	2120B	15	CU	3	ND	Q,Y5	1	12/20/2022 1	3:15		12/27/2022	11:30
oaming Agents	5540C	0.5	mg/L	0.1	ND	Q,Y5	1	12/20/2022 1	3:15		12/28/2022	10:30
MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole												
Ddor Threshold	2150B	3	ton	1	ND	Q,Y5	1	12/20/2022 1	3:15		12/27/2022	11:15
	ontaminant pparent Color oaming Agents idor Threshold	ontaminant Method S pparent Color 2120B oaming Agents 5540C M dor Threshold 2150B	ontaminant Method Standard pparent Color 2120B 15 oaming Agents 5540C 0.5 MBAS, calculat rdor Threshold 2150B 3	ontaminant Method Standard Units Pparent Color 2120B 15 CU oaming Agents 5540C 0.5 mg/L MBAS, calculated as Lin dor Threshold 2150B 3 ton	ontaminant Method Standard Units LRL Physical Fac pparent Color 2120B 15 CU 3 oaming Agents 5540C 0.5 mg/L 0.1 MBAS, calculated as Linear Alkylat rdor Threshold 2150B 3 ton 1	AnternationMethodStandardUnitsLRLLevel Detectedpparent Color2120B15CU3NDoaming Agents5540C0.5mg/L0.1NDMBAS, calculated as Linear AlkylateSulfonateodor Threshold2150B3ton1ND	AntoniantMethodStandardUnitsLRLLevel DetectedPhysical Factorspparent Color2120B15CU3NDQ,Y5oaming Agents5540C0.5mg/L0.1NDQ,Y5MBAS, calculated as Linear Alkylate Sulfonate(LAS)idor Threshold2150B3ton1NDQ,Y5	AntenniantMethodStandardUnitsLRLLevel DetectedDFpparent Color2120B15CU3NDQ.Y51oaming Agents5540C0.5mg/L0.1NDQ.Y51MBAS, calculated as Linear Alkylate Sulfonate(LAS), mol vrdor Threshold2150B3ton1NDQ.Y51	AntoniantMethodStandardUnitsLRLLevel DetectedDFDate/Time Sampledpparent Color2120B15CU3NDQ.Y5112/20/20221pparent Color2120B15CU3NDQ.Y5112/20/20221poaming Agents5540C0.5mg/L0.1NDQ.Y5112/20/20221MBAS, calculated as Linear Alkylate Sulfonate(LAS), mol wt of 342.4 g/mrdor Threshold2150B3ton1NDQ.Y5112/20/20221	And and the standardUnitsLRLLevel DetectedDFDate/Time SampledDetectedNDQ.Y5112/20/202213:15DetectedDetectedDetectedDetectedDetectedDetectedDetectedDetectedDetectedDetectedNDQ.Y5112/20/202213:15DetectedDetectedDetectedNDQ.Y5112/20/202213:15DetectedDetectedNDQ.Y5112/20/202213:15DetectedDetectedNDQ.Y5112/20/202213:15DetectedDetectedNDQ.Y5112/20/202213:15	And the ontaminantMethodStandardUnitsLRLLevel DetectedDFDate/Time SampledDate PreppedPhysical Factorspparent Color2120B15CU3NDQ.Y5112/20/202213:15parent Color2120B15CU3NDQ.Y5112/20/202213:15parent Color5540C0.5mg/L0.1NDQ.Y5112/20/202213:15addr Threshold2150B3ton1NDQ.Y5112/20/202213:15	And the ontaminantMethodStandardUnitsLRLLevel DetectedDFDate/Time SampledDate PreppedDate/Time Analyzedpoarent Color2120B15CU3NDQ.Y5112/20/202213:1512/27/2022poarent Color2120B15CU3NDQ.Y5112/20/202213:1512/27/2022aning Agents5540C0.5mg/L0.1NDQ.Y5112/20/202213:1512/28/2022MBAS, calculated as Linear AlkylateSulformat KillerSulformat KillerSulformat Killer112/20/202213:1512/27/2022ador Threshold2150B3ton1NDQ.Y5112/20/202213:1512/27/2022

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

Y5: Sample received above the recommended temperature. Sample does not meet method requirements for acceptable thermal preservation.



Analyst	Tests
SP	2120B,5540C,2150B

Christine MacMillan, Technical Director

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ANALYTICAL REPORTS

SAMPLE CODE: 440708

2/8/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Caribou Portal - FB Source City: Nederland Source State: CO

Date/Time Received: 12/27/2022 08:03

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

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"DF" This column indicates the contaminant dilution factor.

Report Notes:

Contaminant	Method S	Standard	Units	LRL	Level Detected	[DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
Physical Factors												
Apparent Color	2120B	15	CU	3	ND	Q,Y5	1	12/20/2022 1	3:15		12/27/2022	11:30
oaming Agents	5540C	0.5	mg/L	0.1	ND	Q,Y5	1	12/20/2022 1	3:15		12/28/2022	10:30
MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole												
Ddor Threshold	2150B	3	ton	1	ND	Q,Y5	1	12/20/2022 1	3:15		12/27/2022	11:15
	ontaminant pparent Color oaming Agents idor Threshold	ontaminant Method S pparent Color 2120B oaming Agents 5540C M dor Threshold 2150B	ontaminant Method Standard pparent Color 2120B 15 oaming Agents 5540C 0.5 MBAS, calculat rdor Threshold 2150B 3	ontaminant Method Standard Units Pparent Color 2120B 15 CU oaming Agents 5540C 0.5 mg/L MBAS, calculated as Lin dor Threshold 2150B 3 ton	ontaminant Method Standard Units LRL Physical Fac pparent Color 2120B 15 CU 3 oaming Agents 5540C 0.5 mg/L 0.1 MBAS, calculated as Linear Alkylat rdor Threshold 2150B 3 ton 1	AnternationMethodStandardUnitsLRLLevel Detectedpparent Color2120B15CU3NDoaming Agents5540C0.5mg/L0.1NDMBAS, calculated as Linear AlkylateSulfonateodor Threshold2150B3ton1ND	AntoniantMethodStandardUnitsLRLLevel DetectedPhysical Factorspparent Color2120B15CU3NDQ,Y5oaming Agents5540C0.5mg/L0.1NDQ,Y5MBAS, calculated as Linear Alkylate Sulfonate(LAS)idor Threshold2150B3ton1NDQ,Y5	AntenniantMethodStandardUnitsLRLLevel DetectedDFpparent Color2120B15CU3NDQ.Y51oaming Agents5540C0.5mg/L0.1NDQ.Y51MBAS, calculated as Linear Alkylate Sulfonate(LAS), mol vrdor Threshold2150B3ton1NDQ.Y51	AntoniantMethodStandardUnitsLRLLevel DetectedDFDate/Time Sampledpparent Color2120B15CU3NDQ.Y5112/20/20221pparent Color2120B15CU3NDQ.Y5112/20/20221poaming Agents5540C0.5mg/L0.1NDQ.Y5112/20/20221MBAS, calculated as Linear Alkylate Sulfonate(LAS), mol wt of 342.4 g/mrdor Threshold2150B3ton1NDQ.Y5112/20/20221	And and the standardUnitsLRLLevel DetectedDFDate/Time SampledDetectedNDQ.Y5112/20/202213:15DetectedDetectedDetectedDetectedDetectedDetectedDetectedDetectedDetectedDetectedNDQ.Y5112/20/202213:15DetectedDetectedDetectedNDQ.Y5112/20/202213:15DetectedDetectedNDQ.Y5112/20/202213:15DetectedDetectedNDQ.Y5112/20/202213:15DetectedDetectedNDQ.Y5112/20/202213:15	And the ontaminantMethodStandardUnitsLRLLevel DetectedDFDate/Time SampledDate PreppedPhysical Factorspparent Color2120B15CU3NDQ.Y5112/20/202213:15parent Color2120B15CU3NDQ.Y5112/20/202213:15parent Color5540C0.5mg/L0.1NDQ.Y5112/20/202213:15addr Threshold2150B3ton1NDQ.Y5112/20/202213:15	And the ontaminantMethodStandardUnitsLRLLevel DetectedDFDate/Time SampledDate PreppedDate/Time Analyzedpoarent Color2120B15CU3NDQ.Y5112/20/202213:1512/27/2022poarent Color2120B15CU3NDQ.Y5112/20/202213:1512/27/2022aning Agents5540C0.5mg/L0.1NDQ.Y5112/20/202213:1512/28/2022MBAS, calculated as Linear AlkylateSulformat KillerSulformat KillerSulformat Killer112/20/202213:1512/27/2022ador Threshold2150B3ton1NDQ.Y5112/20/202213:1512/27/2022

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

Y5: Sample received above the recommended temperature. Sample does not meet method requirements for acceptable thermal preservation.



Analyst	Tests
SP	2120B,5540C,2150B

Christine MacMillan, Technical Director
National Testing Laboratories, Ltd

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 440709

2/8/2023

Customer: Grand Island Resources Brooke Moran 12567 West Cedar Rd Lakewood, CO 80228 Source: Caribou Well Source City: Nederland Source State: CO

Date/Time Received: 12/27/2022 08:03

Collected by: B. Moran

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

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"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected		DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
Physical Factors													
1905	Apparent Color	2120B	15	CU	3	ND	Q,Y5	1	12/20/2022 1	13:30		12/27/2022	11:30
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	Q,Y5	1	12/20/2022 1	13:30		12/28/2022	10:30
	MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole												
1920	Odor Threshold	2150B	3	ton	1	ND	Q,Y5	1	12/20/2022 1	13:30		12/27/2022	11:15

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

Y5: Sample received above the recommended temperature. Sample does not meet method requirements for acceptable thermal preservation.

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Analyst	Tests
SP	2120B,5540C,2150B

Christine MacMillan, Technical Director

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APPENDIX B OUTFALL-001 ANALYTICAL RESULTS

APPENDIX B.1 OCTOBER 2022 OUTFALL-001 ANALYTICAL RESULTS

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Denver 4955 Yarrow Street Arvada, CO 80002 Tel: (303)736-0100

Laboratory Job ID: 280-167366-1

Client Project/Site: Wastewater Discharge - Nederland, CO

For:

..... Links

Review your project results through

EOL

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427

Attn: Patrick Delaney

bla Bil-

Authorized for release by: 10/21/2022 3:17:12 PM

Dylan Bieniulis, Project Manager I (303)736-0138 Dylan.Bieniulis@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Job ID: 280-167366-1

Qualifiers

ND NEG

POS

PQL

QC

RER RL

RPD

TEF

TEQ TNTC

PRES

Qualifiers		3
Metals		
Qualifier	Qualifier Description	4
В	Compound was found in the blank and sample.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	5
General Che	emistry	
Qualifier	Qualifier Description	6
Н	Sample was prepped or analyzed beyond the specified holding time	
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.	
Glossary		0
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	0
%R	Percent Recovery	3
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	

Job ID: 280-167366-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

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Client: GS Mining Company LLC

Project: Wastewater Discharge - Nederland, CO

Report Number: 280-167366-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/07/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.4 C.

TOTAL RECOVERABLE METALS (ICP)

Sample OUTFALL-001 (280-167366-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 10/07/2022 and analyzed on 10/11/2022.

Iron was detected in method blank MB 280-589308/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-167366-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 10/10/2022 and 10/12/2022 and analyzed on 10/11/2022 and 10/13/2022.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without gualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Manganese was detected in method blank MB 280-589120/1-B at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-167366-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 10/09/2022 and 10/12/2022 and analyzed on 10/10/2022 and 10/13/2022.

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Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-167366-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Zinc was detected in method blank MB 280-589618/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Sample OUTFALL-001 (280-167366-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/10/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample OUTFALL-001 (280-167366-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 10/20/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample OUTFALL-001 (280-167366-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 10/20/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample OUTFALL-001 (280-167366-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 10/10/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL-001 (280-167366-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 10/11/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-167366-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 10/07/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-167366-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 10/07/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample OUTFALL-001 (280-167366-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 10/13/2022.

Sample OUTFALL-001 (280-167366-1) did not equilibrate to within 0.05 pH units after three measurements. This was observed previous analysis thus the sample was not rerun.

Job ID: 280-167366-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample OUTFALL-001 (280-167366-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 10/10/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample OUTFALL-001 (280-167366-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 10/12/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client Sample ID: OUTFALL-001

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Client Sample ID: OUT	lient Sample ID: OUTFALL-001								
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type	
Iron	38	J B	100	9.1	ug/L	1	200.7 Rev 4.4	Total	
								Recoverable	
Lead	0.63	J	1.0	0.23	ug/L	1	200.8	Total	
								Recoverable	
Copper	0.74	J	2.0	0.71	ug/L	1	200.8	Potentially	
								Dissolved	
Lead	0.61	J	1.0	0.23	ug/L	1	200.8	Potentially	
								Dissolved	
Zinc	12	В	10	2.0	ug/L	1	200.8	Potentially	
								Dissolved	
Specific Conductance	270		2.0	2.0	umhos/cm	1	SM 2510B	Total/NA	
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1	SM 4500 H+ B	Total/NA	
Temperature	21.4	HF	1.0	1.0	Degrees C	1	SM 4500 H+ B	Total/NA	
Field pH	8.2		1.0	1.0	SU	1	SM4500 S2 H	Total/NA	
Field Temperature	21		1.0	1.0	Celsius	1	SM4500 S2 H	Total/NA	
Specific Conductance	270		2.0	2.0	umhos/cm	1	SM4500 S2 H	Total/NA	

Method Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-167366-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten Diss Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

None = None

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

Laboratory References:

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

Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-167366-1	OUTFALL-001	Water	10/07/22 12:00	10/07/22 14:17

Client Sample Results

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Client Sample ID: OUTFALL-001

Date Collected: 10/07/22 12:00

Date Received: 10/07/22 14:17

Analyte

Iron

Job ID: 280-167366-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable Lab Sample ID: 280-167366-1 **Matrix: Water** RL MDL Unit Prepared Dil Fac D Analyzed 100 9.1 ug/L 10/07/22 20:56 10/11/22 10:06

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Result Qualifier

38 J B

Client Sample ID: OUTFALL-001 Date Collected: 10/07/22 12:00 Date Received: 10/07/22 14:17					Lab Sample ID: 280-167366-1 Matrix: Water				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/09/22 14:32	10/10/22 21:51	1
Cadmium	ND		1.0	0.088	ug/L		10/09/22 14:32	10/10/22 21:51	1
Chromium	ND		3.0	0.88	ug/L		10/09/22 14:32	10/10/22 21:51	1
Copper	ND		2.0	0.71	ug/L		10/09/22 14:32	10/10/22 21:51	1
Lead	0.63	J	1.0	0.23	ug/L		10/09/22 14:32	10/10/22 21:51	1
Zinc	ND		10	2.0	ug/L		10/12/22 14:42	10/13/22 20:14	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001 Date Collected: 10/07/22 12:00 Date Received: 10/07/22 14:17								Lab Samı	ole ID: 280-16 Matrix:	7366-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	ND		5.0	0.50	ug/L		10/10/22 14:23	10/11/22 08:46	1	
Cadmium	ND		1.0	0.088	ug/L		10/10/22 14:23	10/11/22 08:46	1	
Chromium	ND		3.0	0.88	ug/L		10/10/22 14:23	10/11/22 08:46	1	
Copper	0.74	J	2.0	0.71	ug/L		10/10/22 14:23	10/11/22 08:46	1	
Lead	0.61	J	1.0	0.23	ug/L		10/10/22 14:23	10/11/22 08:46	1	
Manganese	ND		2.0	0.51	ug/L		10/10/22 14:23	10/11/22 08:46	1	
Nickel	ND		2.0	0.28	ug/L		10/10/22 14:23	10/11/22 08:46	1	
Selenium	ND		5.0	1.0	ug/L		10/10/22 14:23	10/11/22 08:46	1	
Silver	ND		0.50	0.045	ug/L		10/12/22 14:42	10/13/22 10:39	1	
Zinc	12	В	10	2.0	ug/L		10/12/22 14:42	10/13/22 10:39	1	

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001 Date Collected: 10/07/22 12:00							Lab Sam	ple ID: 280-16 Matrix	7366-1 : Water
Date Received: 10/07/22 14:17	Booult	Qualifiar	ы	MDI	Unit	_	Broporod	Applyrod	
Analyte	Result	Quaimer	RL	WDL	Unit	U	Frepareu	Analyzeu	DIFAC
Mercury	ND		0.20	0.061	ug/L		10/10/22 13:03	10/10/22 17:53	1

General Chemistry

Client Sample ID: OUTFALL-001 Date Collected: 10/07/22 12:00					Lab Sample ID: 280-167366-1 Matrix: Water				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	270		2.0	2.0	umhos/cm			10/10/22 10:36	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			10/11/22 11:30	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			10/07/22 18:14	1
pH adj. to 25 deg C (SM 4500 H+ B	7.9	HF	0.1	0.1	SU			10/13/22 14:42	1
Temperature (SM 4500 H+ B)	21.4	HF	1.0	1.0	Degrees C			10/13/22 14:42	1

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Client Sample Results

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-167366-1

General Chemistry (Continued)

Client Sample ID: OUTFALL-001 Date Collected: 10/07/22 12:00							Lab Sam	ple ID: 280-16 Matrix	7366-1 : Watei
Date Received: 10/07/22 14:17									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			10/10/22 13:36	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			10/12/22 11:12	1
Field pH (SM4500 S2 H)	8.2		1.0	1.0	SU			10/12/22 11:12	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			10/12/22 11:12	1
Specific Conductance (SM4500 S2 H)	270		2.0	2.0	umhos/cm			10/12/22 11:12	1
Sulfide (SM4500 S2 H)	ND		4.0	4.0	mg/L			10/12/22 11:12	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001 Date Collected: 10/07/22 12:00							Lab Sam	ple ID: 280-16 Matrix:	7366-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND	H	0.020	0.020	mg/L		•	10/20/22 10:15	1
General Chemistry - Dissolv	ed								

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-167366-1 Date Collected: 10/07/22 12:00 **Matrix: Water** Date Received: 10/07/22 14:17 Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium, hexavalent (SM 3500 CR ND 0.020 0.0040 mg/L 10/07/22 18:24 1 B)

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001 Date Collected: 10/07/22 12:00							Lab San	nple ID: 280-16 Matrix	7366-1 Water
Date Received: 10/07/22 14:17									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved)	ND		0.020	0.020	mg/L			10/20/22 10:19	1
(SM3500 CR B)									

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Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Matrix: Water

Matrix: Water

Analyte

Analyte

Iron

Iron

Analysis Batch: 589567

Analysis Batch: 589567

QC Sample Results Job ID: 280-167366-1 Method: 200.7 Rev 4.4 - Metals (ICP) Lab Sample ID: MB 280-589308/1-A **Client Sample ID: Method Blank** Prep Type: Total Recoverable Prep Batch: 589308 MB MB **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 100 10/07/22 20:56 10/11/22 08:36 42.1 J 9.1 ug/L 1 Lab Sample ID: LCS 280-589308/2-A **Client Sample ID: Lab Control Sample Prep Type: Total Recoverable** Prep Batch: 589308 Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits 9 10000 10200 102 85 - 115 ug/L e Dup erable 89308 RPD Limit 20 Blank erable 89307 Dil Fac 1 1 1 1 1 ample erable 89307

Lab Sample ID: **Matrix: Water Analysis Batch**

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		200	210		ug/L		105	79 - 120	
Cadmium	ND		200	209		ug/L		104	89 - 111	
Chromium	ND		200	195		ug/L		98	86 - 115	
Copper	ND		200	198		ug/L		99	90 - 115	
Lead	0.63	J	200	206		ug/L		103	88 - 115	

Lab Sample ID: LCSD 280-58930	8/3-A						C	lient Sa	mple	ID: Lab	Control S	Sampl	e Dup
Matrix: Water										Prep Typ	e: Total F	lecov	erable
Analysis Batch: 589567											Prep Ba	tch: 5	89308
			Spike		LCSD	LCS	D				%Rec		RPD
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits	RPD	Limit
Iron			10000		9920			ug/L		99	85 - 115	3	20
Method: 200.8 - Metals (ICP/	MS)												
	- A								Cli	ent Samı	ole ID: Me	ethod	Blank
Matrix: Water										Prep Typ	e: Total F	lecov	erable
Analysis Batch: 589509											Prep Ba	tch: 5	89307
	MB	MB											
Analyte	Result	Qualifier		RL	I	MDL	Unit	0) F	Prepared	Analyz	ed	Dil Fac
Arsenic	ND			5.0		0.50	ug/L		10/0	09/22 14:32	10/10/22 2	21:44	1
Cadmium	ND			1.0	0	.088	ug/L		10/0	09/22 14:32	10/10/22 2	21:44	1
Chromium	ND			3.0		0.88	ug/L		10/0	09/22 14:32	10/10/22 2	21:44	1
Copper	ND			2.0		0.71	ug/L		10/0	09/22 14:32	10/10/22 2	21:44	1
Lead	ND			1.0		0.23	ug/L		10/0	09/22 14:32	10/10/22 2	21:44	1
Lab Sample ID: LCS 280-589307/	2-A							Clier	nt Sa	mple ID:	Lab Con	trol Sa	ample
Matrix: Water										Prep Typ	e: Total F	lecov	erable
Analysis Batch: 589509											Prep Ba	tch: 5	89307
			Spike		LCS	LCS	5				%Rec		
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Arsenic			200		205			ug/L		102	89 - 111		
Cadmium			200		200			ug/L		100	89 - 111		
Chromium			200		194			ug/L		97	86 - 115		
Copper			200		194			ug/L		97	90 - 115		
Lead			200		202			ug/L		101	88 - 115		
Lab Sample ID: 280-167366-1 MS	5								Clie	ent Sam	ble ID: OL	JTFAL	L-001
Matrix: Water										Prep Typ	e: Total F	lecov	erable
Analysis Batch: 589509											Prep Ba	tch: 5	89307
-	molo San	anlo	Spike		MS	MC					% Pac		

Job ID: 280-167366-1

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Job ID: 2

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 280-167360 Matrix: Water	6-1 MSD								Clie F	ent Samp Prep Typ	ole ID: OL e: Total F	JTFAL Recove	L-001 erable
Analysis Batch: 589509										100 190	Prep Ba	tch: 5	39307
····· , ··· ····	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	R	Result	Qualifie	Unit		D	%Rec	Limits	RPD	Limit
Arsenic	ND		200		208		ug/L			104	79 - 120	1	20
Cadmium	ND		200		210		ug/L			105	89 - 111	1	20
Chromium	ND		200		193		ug/L			96	86 - 115	1	20
Copper	ND		200		196		ug/L			98	90 - 115	1	20
Lead	0.63	J	200		206		ug/L			103	88 - 115	0	20
Lab Sample ID: MR 280-58	0618/1_A								Clic	nt Sami		thod	Blank
Matrix: Water	5010/1-A								F	Pron Tyn	o: Total F		arablo
Analysis Batch: 589861										тертур	Pren Ba	tch: 5	R9618
Analysis Baten. 000001		MB MB									TTOP Du		
Analyte	Re	sult Qualifie	r	RL		MDL Uni	t	D	Р	repared	Analvz	ed	Dil Fac
Silver		ND		0.50	0	.045 ug/		-	10/1	2/22 14:42	10/13/22	0:21	1
Zinc		3.68 J		10		2.0 ug/	-		10/1	2/22 14:42	10/13/22	0:21	1
						-							
Lab Sample ID: LCS 280-5	89618/2-A						CI	ient	Sar	nple ID:	Lab Con	trol Sa	Imple
Matrix: Water									F	Prep Typ	e: Total F	lecove	erable
Analysis Batch: 589861											Prep Ba	tch: 5	3 96 18
			Spike		LCS	LCS					%Rec		
Analyte			Added	R	Result	Qualifie	Unit		_ <u>D</u>	%Rec	Limits		
Silver			40.0		38.8		ug/L			97	90 - 114		
ZINC			40.0		40.3		ug/L			101	88 - 115		
Lab Sample ID: MB 280-58	9621/1-A								Clie	ent Sam	ole ID: Me	thod	Blank
Matrix: Water									F	Prep Typ	e: Total F	ecove	rable
Analysia Rataby 590042											David Da		
Alidiysis Daluli. 203343											Ргер Ва	tch: 5	39621
Allalysis Datch. 503345		MB MB									Ргер Ва	tch: 5	39621
Analyte	Re	MB MB esult Qualifie	r	RL	r	MDL Uni	t	D	P	repared	Analyz	tch: 58 ed	39621 Dil Fac
Analyte Zinc	Re	MB MB esult Qualifie	r	RL 10	Γ	MDL Uni	t	D	P 10/1	repared 2/22 14:42	Ргер Ва Аnalyz 10/13/22 2	ed 20:07	Dil Fac
Analysis Batch. 569943	Re	MB MB esult Qualifie	r	RL 10		MDL Uni 2.0 ug/	t	<u>D</u>	P 10/1	repared 2/22 14:42	Ргер Ва Analyz 10/13/22 2	ed 20:07	Dil Fac
Analyte Zinc Lab Sample ID: LCS 280-5	Re 89621/2-A	MB MB esult Qualifie	r	RL 10		$\frac{\text{MDL}}{2.0} \frac{\text{Uni}}{\text{ug}}$	t - CI	<u>D</u> ient	P 10/1 Sar	repared 2/22 14:42 mple ID:	Analyz 10/13/22 2 Lab Con	ed 20:07 -	Dil Fac 1 1
Analyte Zinc Lab Sample ID: LCS 280-55 Matrix: Water	Re 89621/2-A	MB MB esult Qualifie	<u>r</u>	RL 10		MDL Uni 2.0 ug/	t - Cl	<u>D</u> ient	P 10/1 Sar F	repared 2/22 14:42 mple ID: Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F	ed 20:07	Dil Fac 1 mple erable
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943	Re 89621/2-A	MB MB esult Qualifie		RL 10	100	MDL Uni 2.0 ug/	t - Cl	<u>D</u> ient	Pi 10/1 Sar F	repared 2/22 14:42 mple ID: Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba	ed 20:07 trol Sa Recove tch: 58	Dil Fac 1 mple erable 39621
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943	Re 89621/2-A	MB MB esult Qualifie	Spike	RL 10	LCS	MDL Uni 2.0 ug/	t - Cl	<u>D</u> ient	P 10/1 Sar F	repared 2/22 14:42 mple ID: Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec	tch: 58 20:07 trol Sa Recove tch: 58	Dil Fac 1 ample erable 39621
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943 Analyte Zinc	Re 89621/2-A	MB MB esult Qualifie ND	Spike	RL 10 -	LCS Result	MDL Uni 2.0 ug/ LCS Qualifie	t CI	ient	P 10/1 Sar F	repared 2/22 14:42 mple ID: Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88, 115	tch: 5 ed 20:07 trol Sa ecove tch: 5	Dil Fac 1 mple erable 39621
Analyte Zinc Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589943 Analyte Zinc	Re 89621/2-A	MB MB esult Qualifie ND	Spike Added 40.0	RL	LCS Result 38.6	MDL Uni 2.0 ug/ LCS Qualifie	t CI	ient	P 10/1 Sar F	repared 2/22 14:42 mple ID: Prep Typ <u>%Rec</u> –	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88-115	tch: 58 20:07 trol Sa tch: 58	Dil Fac 1 mple erable 39621
Analyte Zinc Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366	Re 89621/2-A 	MB MB esult Qualifie	Spike Added 40.0	RL	LCS Result 38.6	MDL Uni 2.0 ug/ LCS Qualifie	t CI • Unit ug/L	ient	Print 10/1 Sar F	repared 2/22 14:42 mple ID: Prep Typ <u>%Rec</u> 96	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OL	tch: 58 20:07 trol Sa Recove tch: 58	Dil Fac 1 mple erable 39621
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943 <u>Analyte</u> Zinc Lab Sample ID: 280-167366 Matrix: Water	Re 89621/2-A 6-1 MS	MB MB esult Qualifie	Spike Added 40.0	RL	LCS Result 38.6	MDL Uni 2.0 ug/ LCS Qualifie	t CI <u>Unit</u> ug/L	. D	Pi 10/1 Sar F Clie	repared 2/22 14:42 mple ID: Prep Typ <u>%Rec</u> 96 mt Samp Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OU e: Total F	tch: 58 20:07 trol Sa ecove tch: 58 JTFAL	Dil Fac 1 mple erable 39621
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943	Re 89621/2-A 6-1 MS	MB MB esult Qualifie	Spike Added 40.0	RL 10 -	LCS Result 38.6	MDL Uni 2.0 ug/ LCS Qualifie	t CI <u>Unit</u> ug/L	<u>D</u> ient	Pi 10/1 Sar F Clie	repared 2/22 14:42 Prep Typ <u>%Rec</u> 96 - Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OU e: Total F Prep Ba	tch: 58 20:07 trol Sa tch: 58 tch: 58 JTFAL Recove	Dil Fac 1 mple erable 39621 L-001 erable 39621
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943	Re 89621/2-A 6-1 MS Sample	MB MB esult Qualifie ND	Spike Added 40.0	RL	LCS Result 38.6	MDL Uni 2.0 ug/ LCS Qualifie MS	t CI <u>Unit</u> ug/L	<u>i</u> ent	Pr 10/1 Sar F Clie	repared 2/22 14:42 Prep Typ <u>%Rec</u> 96 - Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88-115 Die ID: OL e: Total F Prep Ba %Rec	tch: 58 ed 20:07 trol Sa tecove tch: 58	Dil Fac 1 mple erable 39621 L-001 erable 39621
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943 Analyte	Re 89621/2-A 6-1 MS Sample Result	MB MB esult Qualifie ND	Spike Added 40.0 Spike Added	RL	LCS Result 38.6 MS Result	MDL Uni 2.0 ug/ LCS Qualifie MS Qualifie	t CI <u>Unit</u> ug/L	ient	Pi 10/1 Sar F Clie F D	repared 2/22 14:42 prep Typ <u>%Rec</u> %Rec %Rec	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88-115 Die ID: OL e: Total F Prep Ba %Rec Limits	tch: 58 20:07 trol Sa tch: 58 JTFAL Recove tch: 58	Dil Fac 1 mple erable 39621 L-001 erable 39621
Analyte Zinc Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analyte Zinc Analysis Batch: 589943 Analyte Zinc Analysis Batch: 589943 Analyte Zinc	Re 89621/2-A 6-1 MS Sample Result ND	MB MB esult Qualifie ND	Spike Added 40.0 Spike Added 40.0	RL	LCS Result 38.6 MS Result 41.4	MDL Uni 2.0 ug/ LCS Qualifie MS Qualifie	t CI Unit ug/L	ient	Pi 10/1 Sar F Clie F	repared 2/22 14:42 mple ID: 2/22 Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OL e: Total F Prep Ba %Rec Limits 88 - 115	tch: 58 20:07 trol Sa Recove tch: 58 JTFAL Recove tch: 58	Dil Fac 1 mple erable 39621 L-001 erable 39621
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943 Analyte Zinc	Re 89621/2-A 6-1 MS Sample Result ND	MB MB esult Qualifie ND	Spike Added 40.0 Spike Added 40.0	RL	LCS Result 38.6 MS Result 41.4	MDL Uni 2.0 ug/ LCS Qualifie MS Qualifie	t CI Unit ug/L	ient	Pi 10/1 Sar F Clie F	repared 2/22 14:42 mple ID: Prep Typ %Rec 96 96 - ent Samp Prep Typ %Rec 103	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Ole ID: OL e: Total F Prep Ba %Rec Limits 88 - 115 Nec Limits 88 - 115	tch: 58 20:07 trol Sa ecove tch: 58 JTFAL ecove tch: 58	Dil Fac 1 mple ample arable 39621 L-001 erable 39621
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366	Re 89621/2-A 6-1 MS Sample Result ND 6-1 MSD	MB MB esult Qualifie ND	Spike Added 40.0 Spike Added 40.0	RLR	LCS Result 38.6 MS Result 41.4	MDL Uni 2.0 ug/ LCS Qualifie	t CI Unit ug/L	ient	Pi 10/1 Sar F Clie Clie	repared 2/22 14:42 mple ID: Prep Typ %Rec 96 96 ent Samp %Rec 103	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OL e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OL 88 - 115	tch: 58 ed 20:07 trol Sa ecove tch: 58 JTFAL ecove tch: 58	Dil Fac 1 mple arable 39621 L-001 erable 39621
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analyte Zinc	Re 89621/2-A 6-1 MS Sample Result ND 6-1 MSD	MB MB esult Qualifie ND	Spike Added 40.0 Spike Added 40.0	RL	LCS Result 38.6 MS Result 41.4	MDL Uni 2.0 ug/ LCS Qualifie	t CI Unit ug/L	ient	Print	repared 2/22 14:42 mple ID: Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OL e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OL e: Total F Prep Ba	tch: 58 ed 20:07 trol Sa Recove tch: 58 JTFAL Recove tch: 58	Dil Fac 1 mple erable 39621 L-001 erable 39621 L-001 erable
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943	Re 89621/2-A 6-1 MS Sample Result ND 6-1 MSD	MB MB esult Qualifie ND	Spike Added 40.0 Spike Added 40.0	RL	LCS Result 38.6 MS Result 41.4	MDL Uni 2.0 ug/ LCS Qualifie MS Qualifie	t Cl Unit ug/L	<u>D</u> ient	Pi 10/1 Sar F Clie F Clie F	repared 2/22 14:42 mple ID: Prep Typ <u>%Rec</u> 96 ent Samp Prep Typ <u>%Rec</u> 103 ent Samp Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OL e: Total F Prep Ba %Rec Limits 88 - 115 Die ID: OL e: Total F Prep Ba	tch: 58 20:07 trol Sa Recove tch: 58 UTFAL Recove tch: 58	Dil Fac 1 mple erable 39621 L-001 erable 39621 L-001 erable 39621
Analyte Zinc Lab Sample ID: LCS 280-54 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943 Analysis Batch: 589943	Been service and the service a	MB MB esult Qualifie ND	Spike Added 40.0 Spike Added 40.0	RLR	LCS Result 38.6 MS Result 41.4	MDL Uni 2.0 ug/ LCS Qualifie MS Qualifie	t CI Unit ug/L	ient	Pi 10/1 Sar F Clie F Clie F	repared 2/22 14:42 mple ID: Prep Typ	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Ole ID: OL e: Total F Prep Ba %Rec Limits 88 - 115 Ole ID: OL e: Total F Prep Ba %Rec Limits 88 - 115	tch: 58 ed 20:07 trol Sa Recover tch: 58 JTFAL Recover tch: 58 JTFAL Recover tch: 58	Dil Fac 1 mple rable 39621 L-001 rable 39621 L-001 rable 39621 L-001 rable 39621 L-001 rable
Analyte Zinc Lab Sample ID: LCS 280-56 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943 Analyte Zinc Lab Sample ID: 280-167366 Matrix: Water Analysis Batch: 589943 Analyte Zinc	B9621/2-A B9621/2-A G-1 MS Sample Result ND G-1 MSD Sample Result	MB MB esult Qualifie ND Qualifie Qualifier	Spike Added 40.0 Spike Added 40.0 Spike	RL	LCS Result 38.6 MS Result 41.4	MDL Uni 2.0 ug/ LCS Qualifie MS Qualifie MSD Qualifie	t CI Unit ug/L	ient	Pi 10/1 Sar F Clie F Clie F	repared 2/22 14:42 mple ID: Prep Typ %Rec - 96 - ent Samp Prep Typ %Rec - 103 - ent Samp - Prep Typ - %Rec - 103 - ent Samp - Prep Typ - %Rec - 103 - %Rec - 104 -	Analyz 10/13/22 2 Lab Con e: Total F Prep Ba %Rec Limits 88 - 115 Ole ID: OL e: Total F Prep Ba %Rec Limits 88 - 115 Ole ID: OL e: Total F Prep Ba %Rec Limits 88 - 115	tch: 58 ed 20:07 trol Sa ecove tch: 58 JTFAL ecove tch: 58 JTFAL ecove tch: 58 JTFAL ecove tch: 58	Dil Fac 1 mple rable 39621 L-001 rable 39621 L-001 rable 39621 L-001 rable 39621 RPD Limit

Method: 200.8 - Metals (ICP/MS) (Continued)

Client Sample ID: Method Blank Prep Type: Potentially Dissolved Prep Batch: 589368

Lab Sample ID: MB 280-589120/1-B Matrix: Water

Analysis Batch: 589568

MB	MB							
Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic ND		5.0	0.50	ug/L		10/10/22 14:23	10/11/22 08:26	1
Cadmium ND		1.0	0.088	ug/L		10/10/22 14:23	10/11/22 08:26	1
Chromium ND		3.0	0.88	ug/L		10/10/22 14:23	10/11/22 08:26	1
Copper ND		2.0	0.71	ug/L		10/10/22 14:23	10/11/22 08:26	1
Lead ND		1.0	0.23	ug/L		10/10/22 14:23	10/11/22 08:26	1
Manganese 0.630	J	2.0	0.51	ug/L		10/10/22 14:23	10/11/22 08:26	1
Nickel ND		2.0	0.28	ug/L		10/10/22 14:23	10/11/22 08:26	1
Selenium ND		5.0	1.0	ug/L		10/10/22 14:23	10/11/22 08:26	1

Lab Sample ID: LCS 280-589120/2-B Matrix: Water Analysis Batch: 589568

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved Prep Batch: 589368

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	200	209		ug/L		104	89 - 111	
Cadmium	200	202		ug/L		101	89 - 111	
Chromium	200	199		ug/L		99	86 - 115	
Copper	200	203		ug/L		102	90 - 115	
Lead	200	205		ug/L		102	88 - 115	
Manganese	200	202		ug/L		101	87 - 115	
Nickel	200	197		ug/L		99	86 - 115	
Selenium	200	198		ug/L		99	85 - 114	

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589561)392/1-A MB	МВ							Clie	ent Samp	ole ID: M Prep Ty Prep Ba	ethod pe: Tot itch: 58	Blank al/NA 39392
Analyte	Result	Qualifier		RL	I	MDL	Unit		D P	repared	Analyz	ed	Dil Fac
Mercury	ND			0.20	0	.061	ug/L		10/1	10/22 13:03	10/10/22	17:31	1
Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589561	9392/2-A							Clie	nt Sa	mple ID:	Lab Cor Prep Ty Prep Ba	trol Sa pe: Tot tch: 58	imple al/NA 39392
-			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Mercury			5.00		4.93			ug/L		99	90 - 110		
Lab Sample ID: LCSD 280-{ Matrix: Water Analysis Batch: 589561	589392/3-A						C	lient Sa	ample	ID: Lab	Control S Prep Ty Prep Ba	Sample pe: Tot itch: 58	e Dup al/NA 39392
			Spike		LCSD	LCS	D				%Rec		RPD
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury			5.00		4.93			ug/L		99	90 - 110	0	10

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5 6

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QC Sample Results

Job ID: 280-167366-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-589400/32 Matrix: Water	2								Clie	ent San	nple ID: M Prep Ty	ethod	Blank tal/NA
Analysis Batch: 589400												·	
	MB	MB											
Analyte	Result	Qualifier		RL		MDL U	nit	D	P	repared	Analy	zed	Dil Fac
Specific Conductance	ND			2.0		2.0 ur	mhos	/cm			10/10/22	10:35	1
Lab Sample ID: LCS 280-589400/3 Matrix: Water	31							Client	Sa	mple ID	: Lab Co Prep Ty	ntrol Sa pe: To	ample tal/NA
Analysis Batch: 589400													
			Spike		LCS	LCS			_	a/ 5	%Rec		
Analyte			Added		Result	Qualifi	ier	Unit	_ <u>D</u>	%Rec	Limits		
Specific Conductance			1410		1360			umhos/cm		97	90 - 110		
Lab Sample ID: LCSD 280-589400 Matrix: Water)/5						C	lient Sam	ple	ID: Lat	Control Prep Ty	Sample	e Dup tal/NA
Analysis Batch: 589400													
			Spike		LCSD	LCSD					%Rec		RPD
Analyte			Added		Result	Qualifi	ier	Unit	D	%Rec	Limits	RPD	Limit
Specific Conductance			1410		1390			umhos/cm		99	90 - 110	NaN	10
Method: SM 2540D - Solids, 1	Total S	uspend	led (TS	S)									
Lab Sample ID: MB 280-589554/3									Clie	ent Sam	nple ID: N	ethod	Blank
Matrix: Water											Prep Tv	pe: To	tal/NA
Analysis Batch: 589554													
	MB	МВ											
Analyte	Result	Qualifier		RL	I	MDL U	nit	D	Ρ	repared	Analy	zed	Dil Fac
Total Suspended Solids	ND			4.0		1.1 m	ıg/L				10/11/22	11:29	1
Lab Sample ID: LCS 280-589554/1 Matrix: Water	1							Client	Sa	mple ID	: Lab Co Prep Ty	ntrol Sa pe: To	ample tal/NA
Analysis Batch: 589554												·	
			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualifi	ier	Unit	D	%Rec	Limits		
Total Suspended Solids			501		514			mg/L		102	79 - 114		
Lab Sample ID: LCSD 280-589554	I/2						C	lient Sam	ple	ID: Lat	Control	Sampl	e Dup
Matrix: water											Prep Ty	pe: Io	tal/NA
Analysis Batch: 509554			Sniko								%Rec		RPD
Analyte					Result	Qualifi	ior	Unit	п	%Rec	/intec	RPD	Limit
Total Suspended Solids			501		440	Guum		mg/L		88	79 - 114	15	20
Mothod: SM 3500 CP B Chr	omium	Hoyay	alont					5			-		
	omum	, Пелач	alem										
Lab Sample ID: MB 280-589301/9									Clie	ent San	nple ID: N	ethod	Blank
Matrix: Water											Prep Ty	pe: To	tal/NA
Analysis Batch: 589301		МО											
Analyta	MB	WIB Qualifiar		ы		יי וחא	nit	~	-	roparad	Anch	700	
Chromium hexavalent	ND	Quaimer		020)040 m	na/l	U		repared		18·13	1
			0		5.0		. J, L						

Lab Sample ID: LCS 280-589301/7

Lab Sample ID: LCSD 280-589301/8

Matrix: Water

Chromium, hexavalent

Matrix: Water

Analyte

Analysis Batch: 589301

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

QC Sample Results

LCS LCS

0.104

Result Qualifier

Unit

mg/L

Spike

Added

0.100

Job ID: 280-167366-1

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

%Rec

104

Client Sample ID: Lab Control Sample Dup

D

%Rec

Limits

91 - 112

8 9 10 11 12

Analysis Batch: 589301 Spike LCSD LCSD %Rec RPD Added **Result Qualifier** Unit D %Rec Limits RPD Limit Analyte 0.100 Chromium, hexavalent 0.103 mg/L 103 91 - 112 0 20 Lab Sample ID: 280-167366-1 MS Client Sample ID: OUTFALL-001 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 589301 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec Chromium, hexavalent ND 0.100 0.103 103 91 - 112 mg/L Lab Sample ID: 280-167366-1 MSD Client Sample ID: OUTFALL-001 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 589301 Spike MSD MSD RPD Sample Sample %Rec Analyte **Result Qualifier** Added **Result Qualifier** Unit %Rec Limits RPD Limit D 0.100 0.103 Chromium, hexavalent ND mg/L 103 91 - 112 20 Lab Sample ID: 280-167366-1 DU Client Sample ID: OUTFALL-001 Matrix: Water Prep Type: Total/NA Analysis Batch: 589301 DU DU RPD Sample Sample **Result Qualifier** RPD Analyte **Result Qualifier** Unit D Limit Chromium, hexavalent ND ND mg/L NC 20 Lab Sample ID: MB 280-589299/3-A **Client Sample ID: Method Blank** Matrix: Water **Prep Type: Dissolved** Analysis Batch: 589301 MB MB MDL Unit Analyte Result Qualifier RL D Dil Fac Prepared Analyzed 0.020 10/07/22 18:23 Chromium, hexavalent ND 0.0040 mg/L 1 **Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 280-589299/1-A Matrix: Water **Prep Type: Dissolved** Analysis Batch: 589301 Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Chromium, hexavalent 0 100 0.104 mg/L 104 91 - 112 Lab Sample ID: LCSD 280-589299/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Dissolved** Analysis Batch: 589301 Spike LCSD LCSD %Rec RPD Added Limits Analyte **Result Qualifier** Unit D %Rec RPD Limit 91 - 112 0.100 Chromium, hexavalent 0.103 mg/L 103 0 20

QC Sample Results

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO Job ID: 280-167366-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-16/366	5-1 MS						Clie	ent Sam	ple ID: O	UTFAL	L-001
Matrix: Water									Prep Typ	e: Diss	olved
Analysis Batch: 589301											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chromium, hexavalent	ND		0.100	0.104		mg/L		104	91 - 112		
Lab Sample ID: 280-167366	S-1 MSD						Clie	ont Sam	nle ID: O	ΙΤΕΔΙ	I -001
Matrix: Water							one	un oun	Prep Typ	e: Diss	olved
Analysis Batch: 589301											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent	ND		0.100	0.103		mg/L		103	91 - 112	1	20
Lab Sample ID: 280-167366							Clie	ont Sam	nle ID: O	ΙΤΕΔΙ	I -001
Matrix: Water							One	int Oan	Pren Tvn		olved
Analysis Batch: 589301										0. 0100	onvea
	Sample	Sample		DU	DU						RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20
Method: SM 4500 H+ B	- nH										
Lab Sample ID: LCS 280-58	39953/4					Clie	ent Sai	mple ID	: Lab Cor	ntrol Sa	mple
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 589953											
			Sniko	LCS	LCS				%Rec		
			Spike	200					/01000		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Analyte pH adj. to 25 deg C			Added 7.00		Qualifier	Unit SU	<u> </u>	%Rec 101	Limits 99 - 101		
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D	- Sulfide,		Added 7.00		Qualifier	Unit SU	<u>D</u>	%Rec 101	Limits 99 - 101		
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D	- Sulfide,	Total	Added 7.00	Result	Qualifier	Unit SU	<u>D</u>	%Rec 101	Limits 99 - 101		
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589	- Sulfide, 9455/11	Total	Added 7.00	Result 7.1	Qualifier	Unit SU	D Clie	MRec 101	Limits 99 - 101	ethod I	Blank
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-588 Matrix: Water Analyte	- Sulfide, 9455/11	Total	Added 7.00	Result 7.1	Qualifier	Unit SU	D	%Rec 101	Limits 99 - 101	ethod l pe: Tot	Blank al/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455	- Sulfide, 9455/11	Total	Added 7.00	Result 7.1	Qualifier	Unit SU	D	%Rec 101	Limits 99 - 101	ethod l pe: Tot	Blank al/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte	- Sulfide, 9455/11	Total MB MB	Added 7.00	Result 7.1	MDL Unit	Unit SU		MRec 101	Limits 99 - 101	ethod I pe: Tot	Blank al/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide	- Sulfide, 9455/11 Re	MB MB sult Qualifier	Added 7.00	Result 7.1	MDL Unit	Unit SU	D Clie	%Rec 101	Limits 99 - 101 ople ID: M Prep Ty 	ethod I pe: Tot	Blank al/NA Dil Fac
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-588 Matrix: Water Analysis Batch: 589455 Analyte Sulfide	- Sulfide, 9455/11 	Total MB MB sult Qualifier	Added 7.00		MDL Unit	Unit SU	D Clie	<u>%Rec</u> 101	Limits 99 - 101 Prep Ty Analyz 10/10/22	ethod I pe: Tot zed 13:20	Blank cal/NA Dil Fac
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58	- Sulfide, 9455/11 	Total MB MB sult Qualifier	Added 7.00	Result 7.1	MDL Unit	Unit SU Clie	D Clie	<u>%Rec</u> 101 ent San repared	Limits 99 - 101 Prep Ty <u>Analyz</u> 10/10/22 : Lab Cor	ethod I pe: Tot zed 13:20	Blank cal/NA Dil Fac 1 ample
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water	- Sulfide, 9455/11 	Total MB MB sult Qualifier	Added 7.00	Result 7.1	MDL Unit	Unit SU Clie	D Clie	<u>%Rec</u> 101 ent San repared	Limits 99 - 101 Prep Ty - Analyz 10/10/22 Lab Cor Prep Ty	ethod I pe: Tot 13:20 htrol Sa pe: Tot	Blank cal/NA Dil Fac 1 ample cal/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589455	- Sulfide, 9455/11 	Total MB MB sult Qualifier	Added 7.00	Result 7.1	MDL Unit	Unit SU Clie	D Clie	<u>%Rec</u> 101	Limits 99-101 Prep Ty <u>Analy:</u> 10/10/22 Lab Cor Prep Ty	ethod I pe: Tot 13:20 htrol Sa pe: Tot	Blank al/NA Dil Fac 1 ample cal/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589455	- Sulfide, 9455/11 Re 39455/9	Total MB MB sult Qualifier	Added 7.00	Result 7.1	MDL Unit	Clie	D Clie DP ent Sar	<u>%Rec</u> 101 ent Sam repared mple ID	Limits 99-101 Prep Ty <u>Analyz</u> 10/10/22 Lab Cor Prep Ty %Rec	ethod I pe: Tot 13:20 htrol Sa pe: Tot	Blank cal/NA Dil Fac 1 ample cal/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589455 Analyte Sulfide	- Sulfide, 9455/11 	Total MB MB sult Qualifier	Spike Added 7.00 Spike Added	Result 7.1 0.050 LCS Result	MDL Unit D.022 mg/L LCS Qualifier	Unit SU Clie	D P Clie	<u>%Rec</u> 101 ent San repared mple ID	Limits 99 - 101 Prep Ty <u>Analyz</u> 10/10/22 C Lab Cor Prep Ty %Rec Limits	ethod I pe: Tot 13:20 htrol Sa pe: Tot	Blank cal/NA Dil Fac 1 ample cal/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589455 Analyte Sulfide	- Sulfide, 9455/11 	Total MB MB sult Qualifier ND	Spike Added 7.00 Spike Added 0.501	Result 7.1 0.050 LCS Result 0.531	MDL Unit D.022 Unit D.022 mg/L	Unit SU Clie Unit mg/L	D Clie D P ent Sar	<u>%Rec</u> 101 ent San repared mple ID <u>%Rec</u> 106	Limits 99 - 101 Prep Ty <u>Analyz</u> 10/10/22 C Lab Cor Prep Ty %Rec Limits 81 - 122	ethod I pe: Tot 13:20 htrol Sa pe: Tot	Blank cal/NA Dil Fac 1 ample cal/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCSD 280-4	- Sulfide, 9455/11 	Total MB MB sult Qualifier	Spike Added 7.00 Spike Added 0.501	Result 7.1 0.050 0.050 0.0531	MDL Unit 0.022 mg/L	Unit SU Clie Unit mg/L	D Clie P P P P P P P P P P P P P P P P P P P	<u>%Rec</u> 101 ent San repared mple ID <u>%Rec</u> 106	Limits 99 - 101 Prep Ty Analyz 10/10/22 Lab Cor Prep Ty %Rec Limits 81 - 122 Control	ethod I pe: Tot 13:20 ntrol Sa pe: Tot	Blank al/NA Dil Fac 1 ample cal/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCSD 280-4 Matrix: Water	- Sulfide, 9455/11 	Total MB MB sult Qualifier	Spike Added 7.00 Spike Added 0.501	Result 7.1 0.050 0.050 0.0531	MDL Unit D.022 mg/L LCS Qualifier	Unit SU Clie Unit mg/L Client S	D Clie P P P Clie Clie D P P P D D ample	<u>%Rec</u> 101 ent Sam repared mple ID <u>%Rec</u> 106 ID: Lat	Limits 99 - 101 Prep Ty <u>Analyz</u> 10/10/22 Control Prep Ty %Rec Limits 81 - 122	ethod I pe: Tot 13:20 htrol Sa pe: Tot Sample pe: Tot	Blank al/NA Dil Fac 1 ample al/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCSD 280-4 Matrix: Water Analysis Batch: 589455	- Sulfide, 9455/11 	Total MB MB sult Qualifier ND	Spike Added 7.00 Spike Added 0.501	Result 7.1 0.050 LCS Result 0.050	MDL Unit D.022 mg/L LCS Qualifier	Unit SU Clie Unit mg/L	D P Clie	<u>%Rec</u> 101 ent San repared mple ID <u>%Rec</u> 106 ID: Lat	Limits 99 - 101 Prep Ty Analyz 10/10/22 Lab Cor Prep Ty %Rec Limits 81 - 122 Control Prep Ty	ethod I pe: Tot 13:20 htrol Sa pe: Tot Sample pe: Tot	Blank cal/NA Dil Fac 1 ample cal/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-589 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCSD 280-4 Matrix: Water Analysis Batch: 589455	- Sulfide, 9455/11 	Total MB MB sult Qualifier ND	Spike Added 7.00 Spike Added 0.501 Spike	Result 7.1 	MDL Unit D.022 Unit LCS Qualifier	Unit SU Clie Unit mg/L	D Clie P P ent Sar D ample	<u>%Rec</u> 101 ent Sam repared mple ID <u>%Rec</u> 106 ID: Lat	Limits 99 - 101 Prep Ty Analyz 10/10/22 Lab Cor Prep Ty %Rec Limits 81 - 122 Control prep Ty %Rec	ethod I pe: Tot 13:20 htrol Sa pe: Tot Sample pe: Tot	Blank cal/NA Dil Fac 1 ample cal/NA
Analyte pH adj. to 25 deg C Method: SM 4500 S2 D Lab Sample ID: MB 280-583 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCS 280-58 Matrix: Water Analysis Batch: 589455 Analyte Sulfide Lab Sample ID: LCSD 280-4 Matrix: Water Analysis Batch: 589455 Analyte Sulfide	- Sulfide, 9455/11 	Total MB MB sult Qualifier ND	Spike Added 7.00 Spike Added 0.501 Spike Added	Result 7.1 7.1 0.050 LCS Result 0.531 LCSD Result	MDL Unit D.022 mg/L LCS Qualifier	Unit SU Clie Unit mg/L Client S	D P Clie ent Sar D D ample	<u>%Rec</u> 101 ent Sam repared mple ID <u>%Rec</u> 106 ID: Lat	Limits 99 - 101 Prep Ty Analyz 10/10/22 Lab Cor Prep Ty %Rec Limits 81 - 122 Control Prep Ty %Rec Limits	ethod I pe: Tot 13:20 ntrol Sa pe: Tot Sample pe: Tot	Blank al/NA Dil Fac 1 ample al/NA e Dup cal/NA RPD Limit

Prep Type: Total/NA

Client Sample ID: Method Blank

Method: SM4500 S2 H - Unionized Hydrogen Sulfide

Lab Sample ID: MB 280-589726/1 Matrix: Water Analysis Batch: 589726

МВ	МВ							
Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Un-ionized Hydrogen Sulfide ND		1.0	1.0	mg/L		-	10/12/22 11:12	1
Field pH ND		1.0	1.0	SU			10/12/22 11:12	1
Field Temperature ND		1.0	1.0	Celsius			10/12/22 11:12	1
Specific Conductance ND		2.0	2.0	umhos/cm			10/12/22 11:12	1
Sulfide ND		4.0	4.0	mg/L			10/12/22 11:12	1

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO Job ID: 280-167366-1

Metals

Filtration Batch: 589120

LCSD 280-589392/3-A

Lab Control Sample Dup

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-589120/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	<u> </u>
LCS 280-589120/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
Filtration Batch: 5892	276				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	· · ·
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-589307/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-589307/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-167366-1 MS		Total Recoverable	Water	200.0	
280-167366-1 MSD		Total Recoverable	Water	200.0	
Prop Batch: 589308			Water	200.0	
	Oliant Comula ID	Dece Trees	Maduin	Mathad	Drew Detak
280-167366-1		Total Recoverable	Water		Ргер Басси
MB 280 580208/1 A	Mothed Blank	Total Recoverable	Water	200.7	
NID 200-309300/ 1-A			Water	200.7	
LCS 200-309300/2-A	Lab Control Sample		Water	200.7	
LCSD 200-509500/3-A	Lab Control Sample Dup	Total Recoverable	water	200.7	
Prep Batch: 589368					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	589276
MB 280-589120/1-B	Method Blank	Potentially Dissolvec	Water	200.8	589120
LCS 280-589120/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	589120
Prep Batch: 589392					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-589392/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-589392/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-589392/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
Analysis Batch: 5895	509				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Total Recoverable	Water	200.8	589307
MB 280-589307/1-A	Method Blank	Total Recoverable	Water	200.8	589307
LCS 280-589307/2-A	Lab Control Sample	Total Recoverable	Water	200.8	589307
280-167366-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	589307
280-167366-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	589307
Analysis Batch: 5895	561				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Total/NA	Water	245.1	589392
MB 280-589392/1-A	Method Blank	Total/NA	Water	245.1	589392
LCS 280-589392/2-A	Lab Control Sample	Total/NA	Water	245.1	589392

245.1

Water

Total/NA

589392

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Metals

Analysis Batch: 589567

Job ID: 280-167366-1

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	58930
MB 280-589308/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	58930
LCS 280-589308/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	58930
LCSD 280-589308/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	58930
Analysis Batch: 5895	568				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	58936
MB 280-589120/1-B	Method Blank	Potentially Dissolvec	Water	200.8	58936
LCS 280-589120/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	58936
Prep Batch: 589618					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
280-167366-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	58927
MB 280-589618/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-589618/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
rep Batch: 589621					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
280-167366-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-589621/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-589621/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-167366-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	
280-167366-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	
nalysis Batch: 5898	361				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
280-167366-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	58961
MB 280-589618/1-A	Method Blank	Total Recoverable	Water	200.8	58961
LCS 280-589618/2-A	Lab Control Sample	Total Recoverable	Water	200.8	58961
analysis Batch: 5899	943				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
280-167366-1	OUTFALL-001	Total Recoverable	Water	200.8	58962
MB 280-589621/1-A	Method Blank	Total Recoverable	Water	200.8	58962
LCS 280-589621/2-A	Lab Control Sample	Total Recoverable	Water	200.8	58962
280-167366-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	58962
280-167366-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	58962
General Chemisti	ry				
iltration Batch: 5892	299				
Lak Gammia ID					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-589299/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-589299/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-589299/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-167366-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-167366-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-167366-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

General Chemistry

Analysis Batch: 589301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	589299
280-167366-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-589299/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	589299
MB 280-589301/9	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-589299/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	589299
LCS 280-589301/7	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-589299/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	589299
LCSD 280-589301/8	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-167366-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	589299
280-167366-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-167366-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	589299
280-167366-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-167366-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	589299
280-167366-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
Analysis Batch: 5894	00				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-589400/32	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-589400/31	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 280-589400/5	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
Analysis Batch: 5894	55				

Lab Sample ID 280-167366-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 4500 S2 D	Prep Batch
MB 280-589455/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-589455/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-589455/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 589554

Lab Sample ID 280-167366-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
MB 280-589554/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-589554/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-589554/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 589726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	
MB 280-589726/1	Method Blank	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 589953

Lab Sample ID 280-167366-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 4500 H+ B	Prep Batch
LCS 280-589953/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
Analysis Batch: 590	0620				

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

General Chemistry

Analysis Batch: 590621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-167366-1	OUTFALL-001	Potentially Dissolvec	Water	SM3500 CR B	

Job ID: 280-167366-1

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Client Sample ID: OUTFALL-001 Date Collected: 10/07/22 12:00 Date Received: 10/07/22 14:17

loh	ın	280-	167	366-	.1
JOD	ıυ.	200-	107	300-	

Lab Sample ID: 280-167366-1 Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	589308	10/07/22 20:56	MCR	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			589567	10/11/22 10:06	KRP	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			200 mL	200 mL	589276	10/07/22 16:41	CEH	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	589368	10/10/22 14:23	MCR	EET DEN
Potentially Dissolvec	Analysis	200.8		1			589568	10/11/22 08:46	LMT	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			200 mL	200 mL	589276	10/07/22 16:41	CEH	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	589618	10/12/22 14:42	MCR	EET DEN
Potentially Dissolvec	Analysis	200.8		1			589861	10/13/22 10:39	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	589307	10/09/22 14:32	MCR	EET DEN
Total Recoverable	Analysis	200.8		1			589509	10/10/22 21:51	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	589621	10/12/22 14:42	MCR	EET DEN
Total Recoverable	Analysis	200.8		1			589943	10/13/22 20:14	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	589392	10/10/22 13:03	CEH	EET DEN
Total/NA	Analysis	245.1		1			589561	10/10/22 17:53	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			589400	10/10/22 10:36	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	589554	10/11/22 11:30	ASP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	589299	10/07/22 17:53	SJD	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	589301	10/07/22 18:24	SJD	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	589301	10/07/22 18:14	SJD	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			589953	10/13/22 14:42	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	589455	10/10/22 13:36	LRB	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			590621	10/20/22 10:19	DNM	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			590620	10/20/22 10:15	DNM	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			589726	10/12/22 11:12	ZPM	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Laboratory: Eurofins Denver

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

uthority Program		Identification Number	Expiration Date	
A2LA	Dept. of Defense ELAP	2907.01	10-31-23	
A2LA	ISO/IEC 17025	2907.01	10-31-23	
Alabama	State Program	40730	09-30-12 *	
Alaska (UST)	State	18-001	02-08-23	
Arizona	State	AZ0713	12-20-22	
Arkansas DEQ	State	19-047-0	06-01-22 *	
California	State	2513	01-08-23	
Connecticut	State	PH-0686	09-30-22 *	
Florida	NELAP	E87667-57	06-30-23	
Georgia	State	4025-011	01-08-23	
Illinois	NELAP	2000172019-1	04-30-23	
Iowa	State	IA#370	12-02-22	
Kansas	NELAP	E-10166	04-30-23	
Kentucky (WW)	State	KY98047	12-31-22	
Louisiana	NELAP	30785	06-30-14 *	
Louisiana	NELAP	30785	06-30-23	
Minnesota	NELAP	1788752	12-31-22	
Nevada	State	CO000262020-1	07-31-23	
New Hampshire	NELAP	205319	04-28-23	
New Jersey	NELAP	190002	06-30-23	
New York	NELAP	59923	04-01-23	
North Carolina (WW/SW)	State	358	12-31-22	
North Dakota	State	R-034	01-08-23	
Oklahoma NELAP		8614	08-31-23	
Oregon NELAP		4025-011	01-09-23	
Pennsylvania	NELAP	013	07-31-23	
South Carolina	State	72002001	01-08-23	
Texas	NELAP	TX104704183-08-TX	09-30-09 *	
Texas	NELAP	T104704183-21-19	09-30-23	
US Fish & Wildlife	US Federal Programs	058448	07-31-23	
USDA	US Federal Programs	P330-20-00065	03-06-23	
Utah	NELAP	QUAN5	06-30-13 *	
Utah	NELAP	CO000262019-11	07-31-23	
Virginia	NELAP	10490	06-14-23	
Washington	State	C583-19	08-03-23	
West Virginia DEP	State	354	11-30-22	
Wisconsin	State	999615430	08-31-23	
Wyoming (UST)	A2LA	2907.01	10-31-22	

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

	Euronns 1 estAmerica, Denver 4955 Yarrow Street Arvada. CO 80002	Chain	of Cus	tody Re	cord			•*?	s eurofins Environ	ment Testing
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Microsofter	pdelaney@blackfoxmining.com Project Name:	Project #:			or No)	tance, Z valent C valent C valent C valent C	təM bəv al Reco al fimə	iners.	J - DI Water V - MCAA K - EDTA W - PH 4-/ L - EDA Z - other (5 specify)
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							-	-	Ver: 01/	16/2019

Eurofins TestAmerica, Denver

Client: GS Mining Company LLC

Login Number: 167366 List Number: 1 Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 280-167366-1

List Source: Eurofins Denver

🛟 eurofins

Environment Testing

ANALYTICAL REPORT

Eurofins Denver 4955 Yarrow Street Arvada, CO 80002 Tel: (303)736-0100

Laboratory Job ID: 280-168389-1

Client Project/Site: Wastewater Discharge - Nederland, CO

For:

..... Links

Review your project results through

EOL

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427

Attn: Patrick Delaney

bla B- 1-

Authorized for release by: 11/3/2022 5:09:03 PM

Dylan Bieniulis, Project Manager I (303)736-0138 Dylan.Bieniulis@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

3

5

Qualifiers

Metals

Qualifier J

Qualifier Description 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
TCC	

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-168389-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Wastewater Discharge - Nederland, CO

Report Number: 280-168389-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/28/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 6.6 C.

It can be noted that this sample set represents a re-sampling due to laboratory error associated with the original sample collected on 10/21/2022. The original sample volume collected for potentially dissolved metals on 10/21/2022 was not filtered by the laboratory within the 8-96 hours after the time of sample collection as is specified for reporting of potentially dissolved metals in the State of Colorado. The error has been identified as being related to an issue in the laboratory's information management system preventing filtration holding times from populating in the analysts' backlog for this task properly. Additional backlog monitoring mechanisms have been implemented by the laboratory since the error occurred to minimize the potential for this type of error/oversight moving forward.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-168389-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 11/02/2022.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-168389-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 10/31/2022 and analyzed on 11/01/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: OUTFALL-001

Lab	Sample	ID:	280-168389-1

Job ID: 280-168389-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac) Method	Ргер Туре
Lead	0.48	J	1.0	0.23	ug/L	1	200.8	Total
								Recoverable
Lead	0.50	J	1.0	0.23	ug/L	1	200.8	Potentially
								Dissolved
Zinc	7.6	J	10	2.0	ug/L	1	200.8	Potentially
								Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Method Description

Preparation, Total Recoverable Metals

Filtration for Potentially Dissolved Metals

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

Metals (ICP/MS)

EPA = US Environmental Protection Agency

Method

200.8

200.8

Poten_Diss_Met

Protocol References:

Laboratory References:

Job ID: 280-168389-1

Laboratory

EET DEN

EET DEN

EET DEN

Protocol

EPA

EPA

EPA

5
6
8
9

Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-168389-1	OUTFALL-001	Water	10/28/22 12:10	10/28/22 16:23
Client Sample Results

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO Job ID: 280-168389-1

5

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-00 Date Collected: 10/28/22 12:10 Date Received: 10/28/22 16:23	01						Lab Sam	ple ID: 280-16 Matrix	8389-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		10/31/22 15:03	11/01/22 09:49	1
Lead	0.48	J	1.0	0.23	ug/L		10/31/22 15:03	11/01/22 09:49	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001 Date Collected: 10/28/22 12:10 Date Received: 10/28/22 16:23							Lab Sam	ole ID: 280-16 Matrix	8389-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.088	ug/L		11/02/22 08:33	11/02/22 15:44	1
Copper	ND		2.0	0.71	ug/L		11/02/22 08:33	11/02/22 15:44	1
Lead	0.50	J	1.0	0.23	ug/L		11/02/22 08:33	11/02/22 15:44	1
Silver	ND		0.50	0.045	ug/L		11/02/22 08:33	11/02/22 15:44	1
Zinc	7.6	J	10	2.0	ug/L		11/02/22 08:33	11/02/22 15:44	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-591750/1-A

Matrix: Water

Analysis Batch: 591956

QC Sample Results

Job ID: 280-168389-1

Prep Batch: 591750

Client Sample ID: Method Blank

Prep Type: Total Recoverable

5 9

-	MB	MB										
Analyte	Result	Qualifier		RL		MDL	Unit		DI	Prepared	Analyzed	Dil Fac
Copper	ND			2.0		0.71	ug/L		_ 10/	31/22 15:03	11/01/22 09:26	3 1
Lead	ND			1.0		0.23	ug/L		10/	31/22 15:03	11/01/22 09:26	6 1
Lab Sample ID: LCS 280-591750	/2-A							Clie	ent Sa	mple ID:	Lab Control	Sample
Matrix: Water										Prep Typ	e: Total Reco	overable
Analysis Batch: 591956											Prep Batch	: 591750
-			Spike		LCS	LCS	5				%Rec	
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits	
Copper			40.0		39.9			ug/L		100	90 - 115	
Lead			40.0		39.9			ug/L		100	88 - 115	
Lab Sample ID: LCSD 280-5917	50/3-A						c	lient S	ample	D: Lab	Control Sam	ple Dup
Matrix: Water										Prep Typ	e: Total Reco	overable
Analysis Batch: 591956											Prep Batch	: 591750
•			Spike		LCSD	LCS	D				%Rec	RPD
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits RF	PD Limit
Copper			40.0		40.5			ug/L		101	90 - 115	1 20
Lead			40.0		39.8			ug/L		99	88 - 115	0 20
Lab Sample ID: MB 280-591717/	1-B								Cli	ent Sam	ole ID: Metho	d Blank
Matrix: Water									Pre	p Type: F	Potentially Di	issolved
Analysis Batch: 592167											Prep Batch	: <mark>59</mark> 1813
-	MB	MB										
Analyte	Result	Qualifier		RL	l	MDL	Unit		DI	Prepared	Analyzed	Dil Fac
Cadmium	ND			1.0	0	.088	ug/L		11/	02/22 08:33	11/02/22 15:11	1
Copper	ND			2.0		0.71	ug/L		11/	02/22 08:33	11/02/22 15:11	1
Lead	ND			1.0		0.23	ug/L		11/	02/22 08:33	11/02/22 15:11	1
Silver	ND			0.50	C	.045	ug/L		11/	02/22 08:33	11/02/22 15:11	1
Zinc	ND			10		2.0	ug/L		11/	02/22 08:33	11/02/22 15:11	1
Lab Sample ID: LCS 280-591717	/2-B							Clie	ent Sa	mple ID:	Lab Control	Sample
Matrix: Water									Pre	p Type: F	Potentially Di	issolved
Analysis Batch: 592167											Prep Batch	: <mark>59</mark> 1813
-			Spike		LCS	LCS	5				%Rec	
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits	
Cadmium			40.0		41.0			ug/L		103	89 - 111	
Copper			40.0		39.6			ug/L		99	90 - 115	
			40.0		30.8			ua/l		100	88 - 115	
Lead			40.0		39.0			~g/=				
Lead Silver			40.0		40.3			ug/L		101	90 - 114	

QC Association Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO Job ID: 280-168389-1

Metals

Filtration Batch: 591717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-591717/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-591717/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
Filtration Batch: 591	720				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168389-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	
Prep Batch: 591750					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168389-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-591750/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-591750/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-591750/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
Prep Batch: 591813					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168389-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	591720
MB 280-591717/1-B	Method Blank	Potentially Dissolvec	Water	200.8	591717
LCS 280-591717/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	591717
Analysis Batch: 5919	956				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168389-1	OUTFALL-001	Total Recoverable	Water	200.8	591750
MB 280-591750/1-A	Method Blank	Total Recoverable	Water	200.8	591750
LCS 280-591750/2-A	Lab Control Sample	Total Recoverable	Water	200.8	591750
LCSD 280-591750/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	591750

Analysis Batch: 592167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168389-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	591813
MB 280-591717/1-B	Method Blank	Potentially Dissolvec	Water	200.8	591813
LCS 280-591717/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	591813

Lab Sample ID: 280-168389-1 Matrix: Water

Date Collected: 10/28/22 12:10 Date Received: 10/28/22 16:23

Client Sample ID: OUTFALL-001

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	591720	10/28/22 23:00	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	591813	11/02/22 08:33	LJS	EET DEN
Potentially Dissolvec	Analysis	200.8		1			592167	11/02/22 15:44	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	591750	10/31/22 15:03	MCR	EET DEN
Total Recoverable	Analysis	200.8		1			591956	11/01/22 09:49	LMT	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
lowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-23

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

Eurofins TestAmerica, Denver				诺 eurofins -
4505 7 arrow Sureet Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171	Chain of Custo	dy Record		Environment Testing America
Client Information	sampler. Brooke Moran	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
client contact Patrick Delaney	Phone: 303-506-1618	E-Mail: Dylan.Bieniulis@Eurofinset.com	State of Origin:	Page:
Company: Grand Island Resources	:DWSID:	Analysis Re	quested	Job#:
Address: 12567 West Cedar Road Suite 250	Due Date Requested:	4344		Preservation Codes:
City: Lakewood	TAT Requested (days):	f of the the mo		B - NOL M - NEXANE B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip: CO, 80466	Compliance Project: 🛆 Yes 🛆 No	hed bo		D - Nitric Acid P - Na204S E - NaHSO4 Q - Na2SO3
Phone: 315-414-6986	Po#: Advance Payment Required	puose 10595) (4		F - MeUH K - Na2S203 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahvdrate
Email: Pdeloner @ blackfoxmining.com	#0M	or No) (ov sitais sisis (Se	S.	I - Ice U - Acetone J - DI Water V - MCAA
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821	le (Yes bes or f bevioed i fam eigen	Terietr	K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Site: second half of the month event	SSOW#:	Sampl Sampl Sampl	01 COI	Other:
	Samula (CE-comple	ww.wat artix www.mer d Filtered s=oolid f Filtered form MS/M form	In the second seco	
Sample Identification	Sample Date Time G=grab, BTE1			Special Instructions/Note:
				*Second half of the month potentially
	0 01-21-21-21-21-21-21-21-21-21-21-21-21-21	<		dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)
				*Second half of the month total recoverable
				PH=7,9
				temp=5°C
				-
		280-168389 Chain of Cus	stody	
Possible Hazard Identification	son BRadiological	Sample Disposal (A fee may be	assessed if samples are retain Disposal Bv Lab	hive For Months
Deliverable Requested: I, II, II, IV, Other (specify)		Special Instructions/QC Requireme	ents:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Reinquished by D.	10/28/22 16:23 Con	Dany R Received by: KIN	Date/Time. Date/Time.	1673 Contrant OCN
Relinquished by:	Date/Time: Con	ipany Received by:	Date/Timé:	Company
Relinquished by:	Date/Time: Con	spany Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.: △ Yes △ No		Cooler Temperature(s) °C arth Other R	internation 12	
		11 12 13 14	7 8 9 10	- 2 3 Ver: 01/16/2019 9 2 4 7 6 7

Client: GS Mining Company LLC

Login Number: 168389 List Number: 1 Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
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.	False	Thermal preservation not required.
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 280-168389-1

List Source: Eurofins Denver

APPENDIX B.2 NOVEMBER 2022 OUTFALL-001 ANALYTICAL RESULTS



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Delaney GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427 Generated 11/29/2022 6:06:05 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-169037-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002







Eurofins Denver

Job Notes

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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

B - 1

Generated
 11/29/2022 6:06:05 PM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Qualifiers

RL

RPD

TEF TEQ

TNTC

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Relative Percent Difference, a measure of the relative difference between two points

Quaimers		
Metals		
Qualifier	Qualifier Description	
В	Compound was found in the blank and sample.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	5
General Che	emistry	
Qualifier	Qualifier Description	
Н	Sample was prepped or analyzed beyond the specified holding time	
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.	
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)	

Laboratory: Eurofins Denver

Narrative

Job ID: 280-169037-1

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Nederland, CO

Report Number: 280-169037-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

<u>RECEIPT</u>

The samples were received on 11/11/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.6 C.

TOTAL RECOVERABLE METALS (ICP)

Sample OUTFALL-001 (280-169037-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 11/16/2022 and analyzed on 11/17/2022.

Iron was detected in method blank MB 280-593337/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-169037-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/16/2022 and analyzed on 11/17/2022.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-169037-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 11/17/2022.

Zinc was detected in method blank MB 280-593646/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Job ID: 280-169037-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Sample OUTFALL-001 (280-169037-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared on 11/17/2022 and analyzed on 11/19/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample OUTFALL-001 (280-169037-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 11/28/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample OUTFALL-001 (280-169037-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 11/28/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample OUTFALL-001 (280-169037-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 11/15/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL-001 (280-169037-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 11/16/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-169037-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 11/11/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-169037-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 11/11/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample OUTFALL-001 (280-169037-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 11/17/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample OUTFALL-001 (280-169037-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 11/15/2022.

Job ID: 280-169037-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample OUTFALL-001 (280-169037-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 11/29/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-169037-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	25	JB	100	9.1	ug/L	1	_	200.7 Rev 4.4	Total
									Recoverable
Lead	0.54	J	1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Zinc	2.4	JB	10	2.0	ug/L	1		200.8	Total
									Recoverable
Lead	0.52	J	1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Zinc	6.7	J	10	2.0	ug/L	1		200.8	Potentially
									Dissolved
Specific Conductance	230		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	8.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	23.0	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Sulfide	0.057		0.050	0.022	mg/L	1		SM 4500 S2 D	Total/NA
Field pH	8.3		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	23		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	230		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Method Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-169037-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten Diss Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

None = None

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

Laboratory References:

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

2 3 4 5 6 7

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-169037-1	OUTFALL-001	Water	11/11/22 11:00	11/11/22 14:15

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001 Date Collected: 11/11/22 11:00		Lab Sam	ple ID: 280-16 Matrix:	9037-1 : Water					
Date Received: 11/11/22 14:15									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25	JB	100	9.1	ug/L		11/16/22 07:42	11/17/22 09:03	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001 Date Collected: 11/11/22 11:00 Date Received: 11/11/22 14:15							Lab Sam	ole ID: 280-16 Matrix:	9037-1 Water
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/17/22 08:05	11/17/22 18:56	1
Cadmium	ND		1.0	0.088	ug/L		11/17/22 08:05	11/17/22 18:56	1
Chromium	ND		3.0	0.88	ug/L		11/17/22 08:05	11/17/22 18:56	1
Copper	ND		2.0	0.71	ug/L		11/17/22 08:05	11/17/22 18:56	1
Lead	0.54 J	I	1.0	0.23	ug/L		11/17/22 08:05	11/17/22 18:56	1
Zinc	2.4 J	IB	10	2.0	ug/L		11/17/22 08:05	11/17/22 18:56	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001 Date Collected: 11/11/22 11:00

Date Received: 11/11/22 14:15										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	ND		5.0	0.50	ug/L		11/16/22 14:36	11/17/22 09:29	1	
Cadmium	ND		1.0	0.088	ug/L		11/16/22 14:36	11/17/22 09:29	1	
Chromium	ND		3.0	0.88	ug/L		11/16/22 14:36	11/17/22 09:29	1	
Copper	ND		2.0	0.71	ug/L		11/16/22 14:36	11/17/22 09:29	1	
Lead	0.52	J	1.0	0.23	ug/L		11/16/22 14:36	11/17/22 09:29	1	
Manganese	ND		2.0	0.51	ug/L		11/16/22 14:36	11/17/22 09:29	1	
Nickel	ND		2.0	0.28	ug/L		11/16/22 14:36	11/17/22 09:29	1	
Selenium	ND		5.0	1.0	ug/L		11/16/22 14:36	11/17/22 09:29	1	
Silver	ND		0.50	0.045	ug/L		11/16/22 14:36	11/17/22 09:29	1	
Zinc	6.7	J	10	2.0	ug/L		11/16/22 14:36	11/17/22 09:29	1	

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001 Date Collected: 11/11/22 11:00							Lab Sam	ple ID: 280-16 Matrix	9037-1 : Water
Date Received: 11/11/22 14:15 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		11/17/22 17:30	11/19/22 00:55	1

General Chemistry

Client Sample ID: OUTFALL-001 Date Collected: 11/11/22 11:00							Lab Sam	nple ID: 280-16 Matrix	9037-1 : Water
Date Received: 11/11/22 14:15 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm			11/15/22 13:52	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			11/16/22 12:12	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			11/11/22 17:09	1
pH adj. to 25 deg C (SM 4500 H+ B	8.3	HF	0.1	0.1	SU			11/17/22 17:13	1
Temperature (SM 4500 H+ B)	23.0	HF	1.0	1.0	Degrees C			11/17/22 17:13	1

Eurofins Denver

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Lab Sample ID: 280-169037-1 **Matrix: Water**

General Chemistry (Continued)

Client Sample ID: OUTFALL-001							Lab Sam	ple ID: 280-16 Matrix	9037-1 Water
Date Collected. 11/11/22 11:00								Watrix	. Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac
Sulfide (SM 4500 S2 D)	0.057		0.050	0.022	mg/L		•	11/15/22 15:17	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			11/29/22 09:19	1
Field pH (SM4500 S2 H)	8.3		1.0	1.0	SU			11/29/22 09:19	1
Field Temperature (SM4500 S2 H)	23		1.0	1.0	Celsius			11/29/22 09:19	1
Specific Conductance (SM4500 S2 H)	230		2.0	2.0	umhos/cm			11/29/22 09:19	1
Sulfide (SM4500 S2 H)	ND		4.0	4.0	mg/L			11/29/22 09:19	1
General Chemistry - Total Re	covera	able							
Client Sample ID: OUTFALL-001							Lab Sam	ple ID: 280-16	9037-1
Date Collected: 11/11/22 11:00								Matrix	: Water
Date Received: 11/11/22 14:15						_			
	Result	Qualifier		MDL	Unit		Prepared	Analyzed	DIIFac
	ND	н	0.020	0.020	mg/L			11/28/22 09:39	1
General Chemistry - Dissolve	d								
Client Sample ID: OUTFALL-001 Date Collected: 11/11/22 11:00							Lab Sam	ple ID: 280-16 Matrix	9037-1 : Water
Date Received: 11/11/22 14:15	Desult	Owellfier		MDI	11		Duononod	Amelyment	
Analyte	Result	Qualifier					Prepared		
B)	ND		0.020	0.0040	mg/L			11/11/22 17:28	1
General Chemistry - Potentia	lly Dis	solved							
Client Sample ID: OUTFALL-001							Lab Sam	ple ID: 280-16	9037-1
Date Collected: 11/11/22 11:00								Matrix	: Water
Date Received: 11/11/22 14:15									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved)	ND		0.020	0.020	mg/L			11/28/22 09:40	1
(SM3500 CR B)									

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-593337/1-A

QC Sample Results

Job ID: 280-169037-1

Client Sample ID: Method Blank

4 5 6 7 9

Matrix: Water										P	rep Type	e: Total Recov	verable
Analysis Batch: 593892												Prep Batch:	593337
	MB	MB											
Analyte	Result	Qualifier		RL	ME	DL	Unit		D	Pr	epared	Analyzed	Dil Fac
Iron	20.6	J		100	9	.1	ug/L		_	11/16	6/22 07:42	11/17/22 07:10	1
Lab Sample ID: LCS 280-593337/2 Matrix: Water	-A							Cli	ent	: San P	nple ID: rep Type	Lab Control S	Sample verable
Analysis Batch: 593892												Prep Batch:	593337
			Spike		LCS L	cs				_	~·-	%Rec	
Analyte			Added		Result C	lua	lifier	Unit		_ D	%Rec	Limits	
Iron			10000		9700			ug/L			97	85 - 115	
Method: 200.8 - Metals (ICP/N	IS)												
Lab Sample ID: MB 280-593646/1- Matrix: Water Analysis Batch: 593987	A									Clie P	nt Samp rep Type	ole ID: Methoo e: Total Reco Prep Batch:	d Blank verable 593646
	MB	MB											
Analyte	Result	Qualifier		RL	ME	DL	Unit		D	Pr	epared	Analyzed	Dil Fac
Arsenic	ND			5.0	0.5	50	ug/L		_	11/17	7/22 08:05	11/17/22 18:45	1
Cadmium	ND			1.0	0.08	38	ug/L			11/17	7/22 08:05	11/17/22 18:45	1
Chromium	ND			3.0	0.8	38	ug/L			11/17	7/22 08:05	11/17/22 18:45	1
Copper	ND			2.0	0.7	71	ug/L			11/1	7/22 08:05	11/17/22 18:45	1
Lead	ND			1.0	0.2	23	ug/L			11/17	7/22 08:05	11/17/22 18:45	1
Zinc	2.67	J		10	2	.0	ug/L			11/17	7/22 08:05	11/17/22 18:45	1
—													

Lab Sample ID: LCS 280-593646/2-A Matrix: Water Analysis Batch: 593987

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 593646

Client Sample ID: OUTFALL-001

Prep Type: Total Recoverable

· · · · · · · · · · · · · · · · · · ·	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	40.0	40.2		ug/L		101	89 - 111
Cadmium	40.0	40.7		ug/L		102	89 - 111
Chromium	40.0	38.5		ug/L		96	86 - 115
Copper	40.0	39.3		ug/L		98	90 - 115
Lead	40.0	39.2		ug/L		98	88 - 115
Zinc	40.0	41.7		ug/L		104	88 - 115

Lab Sample ID: 280-169037-1 MS **Matrix: Water**

Analysis Batch: 593987

Analysis Batch: 593987									Prep Batch: 593646
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		40.0	39.9		ug/L		100	79 - 120
Cadmium	ND		40.0	40.8		ug/L		102	89 - 111
Chromium	ND		40.0	38.9		ug/L		97	86 - 115
Copper	ND		40.0	40.1		ug/L		100	90 - 115
Lead	0.54	J	40.0	40.6		ug/L		100	88 - 115
Zinc	2.4	JB	40.0	44.6		ug/L		106	88 - 115

Client Sample ID: OUTFALL-001

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 593526

Prep Type: Total Recoverable

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-169037-1 MSD Matrix: Water

alveie Ratch 502007

Analysis Batch: 593987									Ргер Ва	11CU: 25	13040
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		40.0	39.5		ug/L		99	79 - 120	1	20
Cadmium	ND		40.0	40.7		ug/L		102	89 - 111	0	20
Chromium	ND		40.0	39.4		ug/L		99	86 - 115	1	20
Copper	ND		40.0	40.0		ug/L		100	90 - 115	0	20
Lead	0.54	J	40.0	40.4		ug/L		100	88 - 115	1	20
Zinc	24	JB	40.0	42 7		ua/l		101	88 - 115	4	20

Lab Sample ID: MB 280-593200/1-B Matrix: Water Analysis Batch: 593875

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/16/22 14:36	11/17/22 09:16	1
Cadmium	ND		1.0	0.088	ug/L		11/16/22 14:36	11/17/22 09:16	1
Chromium	ND		3.0	0.88	ug/L		11/16/22 14:36	11/17/22 09:16	1
Copper	ND		2.0	0.71	ug/L		11/16/22 14:36	11/17/22 09:16	1
Lead	ND		1.0	0.23	ug/L		11/16/22 14:36	11/17/22 09:16	1
Manganese	ND		2.0	0.51	ug/L		11/16/22 14:36	11/17/22 09:16	1
Nickel	ND		2.0	0.28	ug/L		11/16/22 14:36	11/17/22 09:16	1
Selenium	ND		5.0	1.0	ug/L		11/16/22 14:36	11/17/22 09:16	1
Silver	ND		0.50	0.045	ug/L		11/16/22 14:36	11/17/22 09:16	1
Zinc	ND		10	2.0	ug/L		11/16/22 14:36	11/17/22 09:16	1

Lab Sample ID: LCS 280-593200/2-B Matrix: Water Analysis Batch: 593875

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved Prep Batch: 593526

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	39.0		ug/L		97	89 - 111	
Cadmium	40.0	40.4		ug/L		101	89 - 111	
Chromium	40.0	40.1		ug/L		100	86 - 115	
Copper	40.0	40.3		ug/L		101	90 - 115	
Lead	40.0	39.7		ug/L		99	88 - 115	
Manganese	40.0	40.9		ug/L		102	87 - 115	
Nickel	40.0	39.9		ug/L		100	86 - 115	
Selenium	40.0	41.3		ug/L		103	85 - 114	
Silver	40.0	41.0		ug/L		103	90 - 114	
Zinc	40.0	41.9		ug/L		105	88 - 115	

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-593904/1-A Matrix: Water				Client Sample ID: Method Blar Prep Type: Total/N						
Analysis Batch: 594307								Prep Batch:	593904	
	MB	МВ								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	ND		0.20	0.061	ug/L		11/17/22 17:30	11/18/22 23:52	1	

QC Sample Results

Job ID: 280-169037-1

4 5 6

9

Method: 245.1 - Mercury (CVAA) (Continued) Lab Sample ID: LCS 280-593904/2-A Matrix: Water

Lab Sample ID: LCS 280-593904/2	- A					Client	Sal	inple iD	Lab Cor	itroi Sa	ampie
Matrix: Water									Prep Ty	pe: To	al/NA
Analysis Batch: 594307									Prep Ba	atch: 5	93904
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Mercury			5.00	4.85		ug/L	_	97	90 - 110		
Lab Sample ID: LCSD 280-593904	/ 3-A				c	Client Sam	ple	ID: Lab	Control	Sampl	e Dup
Matrix: Water									Prep Ty	pe: To	al/NA
Analysis Batch: 594307									Prep Ba	atch: 5	93904
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
			5.00	4.84		ug/L		97	90 - 110	0	10
Mercury Method: SM 2510B - Conduct	ivity, S	Specific	c Cond	uctance							
Mercury Method: SM 2510B - Conduct Lab Sample ID: MB 280-593542/5 Matrix: Water Analysis Batch: 593542	ivity, \$	Specific	c Cond	uctance			Clie	ent Sam	nple ID: M Prep Ty	ethod pe: To	Blank al/NA
Mercury Method: SM 2510B - Conduct Lab Sample ID: MB 280-593542/5 Matrix: Water Analysis Batch: 593542	ivity, S	Specific MB	c Cond	uctance			Clie	ent Sam	iple ID: M Prep Ty	ethod pe: To	Blank al/NA
Mercury Method: SM 2510B - Conduct Lab Sample ID: MB 280-593542/5 Matrix: Water Analysis Batch: 593542 Analyte	ivity, S MB Result	Specific MB Qualifier	c Cond	RL	MDL Unit	D	Clie	ent Sarr repared	nple ID: M Prep Ty Analy:	ethod pe: To	Blank al/NA Dil Fac
Mercury Method: SM 2510B - Conduct Lab Sample ID: MB 280-593542/5 Matrix: Water Analysis Batch: 593542 <u>Analyte</u> Specific Conductance	MB Result	Specific MB Qualifier	c Cond	RL	MDL Unit	Ds/cm	Clie P	ent Sam	ple ID: M Prep Ty <u>Analy:</u> 11/15/22	ethod pe: To zed 13:52	Blank al/NA Dil Fac 1
Mercury Method: SM 2510B - Conduct Lab Sample ID: MB 280-593542/5 Matrix: Water Analysis Batch: 593542 <u>Analyte</u> Specific Conductance Lab Sample ID: LCS 280-593542/4	MB Result ND	MB Qualifier	c Cond	RL	MDL Unit 2.0 umhc	Ds/cm D	Clie P Sai	ent Sam repared mple ID	ple ID: M Prep Ty 	ethod pe: To zed 13:52	Blank al/NA Dil Fac 1 ample
Mercury Method: SM 2510B - Conduct Lab Sample ID: MB 280-593542/5 Matrix: Water Analysis Batch: 593542 Analyte Specific Conductance Lab Sample ID: LCS 280-593542/4 Matrix: Water	MB Result ND	MB Qualifier	c Cond	RL 2.0	MDL Unit 2.0 umhc	os/cm D	Clie P Sai	ent Sam repared mple ID	Prep Ty Prep Ty 	ethod pe: To zed 13:52 htrol Sa pe: To	Blank al/NA Dil Fac 1 ample cal/NA
Mercury Method: SM 2510B - Conduct Lab Sample ID: MB 280-593542/5 Matrix: Water Analysis Batch: 593542 Analyte Specific Conductance Lab Sample ID: LCS 280-593542/4 Matrix: Water Analysis Batch: 593542	MB Result ND	MB Qualifier	c Cond	RL	MDL Unit 2.0 umhc	Des/cm D	Clie P Sai	ent Sam repared mple ID	Analyz 	ethod pe: To zed 13:52 htrol Sa pe: To	Blank al/NA Dil Fac 1 ample al/NA
Mercury Method: SM 2510B - Conduct Lab Sample ID: MB 280-593542/5 Matrix: Water Analysis Batch: 593542 Analyte Specific Conductance Lab Sample ID: LCS 280-593542/4 Matrix: Water Analysis Batch: 593542	MB Result	MB Qualifier	c Cond	LCS	MDL Unit 2.0 umhc	os/cm D	Clie P	ent Sam repared mple ID	nple ID: M Prep Ty 	ethod pe: To zed 13:52 htrol Sa pe: To	Blank al/NA Dil Fac 1 ample al/NA
Mercury Method: SM 2510B - Conduct Lab Sample ID: MB 280-593542/5 Matrix: Water Analysis Batch: 593542 Analyte Specific Conductance Lab Sample ID: LCS 280-593542/4 Matrix: Water Analysis Batch: 593542 Analyte	MB Result ND	MB Qualifier	Spike Added	LCS Result	MDL Unit 2.0 umho LCS Qualifier	Dos/cm D Client Unit	Clie P : Sai	ent Sam repared mple ID %Rec	nple ID: M Prep Ty 	ethod pe: To zed 13:52 htrol Sa pe: To	Blank cal/NA Dil Fac 1 ample cal/NA

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-593688/2 Matrix: Water Analysis Batch: 593688									Clie	ent Sam	ple ID: Method Prep Type: To	l Blank otal/NA
	MB	MB										
Analyte	Result	Qualifier		RL	I	MDL U	Jnit	D	Р	repared	Analyzed	Dil Fac
Total Suspended Solids	ND			4.0		1.1 n	ng/L				11/16/22 12:12	1
Lab Sample ID: LCS 280-593688/1 Matrix: Water Analysis Batch: 593688								Client	t Sai	mple ID	: Lab Control S Prep Type: To	Sample otal/NA
·			Spike		LCS	LCS					%Rec	
Analyte			Added		Result	Qualif	ier	Unit	D	%Rec	Limits	
Total Suspended Solids			502		458			mg/L		91	79 - 114	

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-593226/10 Matrix: Water Analysis Batch: 593226					Client Sam	ple ID: Method Prep Type: To	l Blank otal/NA		
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			11/11/22 17:08	1

Analysis Batch: 593226

Matrix: Water

Lab Sample ID: LCS 280-593226/8

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

QC Sample Results

LCS LCS

Spike

Job ID: 280-169037-1

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

%Rec

Analyte				Added		Result	Qualifie	· Unit	D	%Rec	Limits		
Chromium, hexavalent				0.100		0.104		mg/L		104	91 - 112		
Lab Sample ID: LCSD 280-	-593226/9							Client	Sample	ID: Lat	Control	Sample	
Malitx. Waler Analysis Batch: 503226											Prep iy	pe. ioi	.al/INA
Analysis Batch. 595220				Snike			LCSD				%Rec		RPD
Analyte				Added		Result	Qualifier	· Unit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent				0.100		0.102		mg/L		102	91 - 112	2	20
Lab Sample ID: 280-16903	7-1 MS								Clie	ent Sam	nole ID: O	UTFAL	L-001
Matrix: Water									-		Prep Tv	pe: Tot	al/NA
Analysis Batch: 593226													
-	Sample	San	nple	Spike		MS	MS				%Rec		
Analyte	Result	Qua	lifier	Added		Result	Qualifier	· Unit	D	%Rec	Limits		
Chromium, hexavalent	ND			0.100		0.104		mg/L		104	91 - 112		
Lab Sample ID: 280-16903 Matrix: Water	7-1 MSD								Clie	ent San	nple ID: O Prep Ty	UTFAL pe: Tot	L-001 al/NA
Analysis Batch: 593226													
	Sample	San	nple	Spike		MSD	MSD				%Rec		RPD
Analyte	Result	Qua	alifier	Added		Result	Qualifier	· Unit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent	ND			0.100		0.105		mg/L		105	91 - 112	1	20
Lab Sample ID: 280-16903 Matrix: Water Analysis Batch: 593226	7-1 DU								Clie	ent San	nple ID: O Prep Ty	UTFAL pe: Tot	L-001 :al/NA
Analysis Baton: 000220	Sample	San	nple			DU	DU						RPD
Analyte	Result	Qua	lifier			Result	Qualifier	· Unit	D			RPD	Limit
Chromium, hexavalent	ND					ND		mg/L				NC	20
Lab Comple ID: MD 200 50	2247/2 4								CI	ant Con	onio ID: M	athad	Diank
Lab Sample ID. WB 200-55 Matrix: Water	5217/3-A								Cili	ent San	Drop Type		
Malinx. Waler Analysis Batch: 503226											гер тур	e. Diss	orveu
Analysis Batch. 595220		MR	MB										
Analyte	Re	sult	Qualifier		RI		MDI Uni	t	D P	renared	Δnalv	zed	Dil Fac
Chromium, hexavalent		ND	quamer		0.020	0.0	0040 mg/	L		repured	11/11/22	17:27	1
							Ū						
Lab Sample ID: LCS 280-5 Matrix: Water	93217/1-A							C	lient Sa	mple ID	: Lab Coi Pren Tyn	ntrol Sa	ample olved
Analysis Batch: 593226											1100 130	0. 0100	oncu
				Spike		LCS	LCS				%Rec		
Analyte				Added		Result	Qualifier	· Unit	D	%Rec	Limits		
Chromium, hexavalent				0.100		0.103		mg/L		103	91 - 112		
Lich Completing LCCD 200	502247/2 A							Client	Comple		Control	Compl	Dun
Lab Sample ID: LCSD 280-	-59321772-A							Client	Sample	ID: Lai		Sample	e Dup
Malrix: Waler Analysis Ratch: 502226											гер тур		orved
Analysis Daltii. 333220				Spike							%Rec		RDU
Analyte				habbA		Result	Qualifier	Unit	п	%Rec	Limits	RPD	Limit
Chromium, hexavalent				0,100		0.103		ma/l		103	91 - 112	0	20
				0.100		0.100				100	<u>.</u>	5	-0

QC Sample Results

Job ID: 280-169037-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-16903	7-1 MS								Clie	ent San	nple ID: O	UTFAL	L-001
Matrix: Water											Prep Typ	e: Diss	olved
Analysis Batch: 593226													
	Sample	Sam	ple	Spike		MS	MS				%Rec		
Analyte	Result	Qual	ifier	Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chromium, hexavalent	ND			0.100		0.104		mg/L		104	91 - 112		
Lab Sample ID: 280-16903	7-1 MSD								Clie	ent San	nple ID: O	UTFAL	L-001
Matrix: Water											Prep Tvp	e: Diss	olved
Analysis Batch: 593226													
	Sample	Sam	ple	Spike		MSD	MSD				%Rec		RPD
Analyte	Result	Quali	ifier	Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent	ND			0.100		0.101		mg/L		101	91 - 112	3	20
Lab Sample ID: 280-16903	7-1 DU								Clie	ent San	nnle ID [.] O	ΙΙΤΕΔΙ	1_001
Matrix: Water									Un		Pron Tyn		
Analysis Batch: 593226											пертур	C. D133	
Analysis Baten. 000220	Sample	Sami	nle			עס	טס						RPD
Analyte	Result	Quali	ifier			Result	Qualifier	Unit	р			RPD	Limit
Chromium bexavalent		Guun				ND		mg/l					20
Method: SM 4500 H+ B	- pH												
Analysis Batch: 593984				Cuike		1.00	1.00				Prep iy	pe. 10	
				Spike		LCS	LCS				%Rec		
Analyte				Added		Result	Qualifier	Unit	D	%Rec	Limits		
pH adj. to 25 deg C				7.00		7.0		SU		101	99 - 101		
Method: SM 4500 S2 D	- Sulfide,	Tota	al										
Lab Comple ID: MD 200 50	2500/44								01	ant Con	anla IDi M		Diank
Lab Sample ID. WD 200-59 Motrix: Wotor	3599/11								Cire	ant San	Drop Tu		
Matrix: Water											Prep Ty	pe: To	
Analysis Batch. 555555		MR	MR										
Analyte	R	esult	Qualifier		RI		MDI Unit		пр	renared	Δnalv	zed	Dil Fac
Sulfide			Quanter		0.050		022 ma/l			repuied	11/15/22	15:02	1
					0.000	•							•
Lab Sample ID: LCS 280-5 Matrix: Water	93599/9							Clie	ent Sa	mple IE): Lab Coi Prep Tv	ntrol Sa pe: To	ample tal/NA
Analysis Batch: 593599													
				Spike		LCS	LCS				%Rec		
Analyte				Added		Result	Qualifier	Unit	D	%Rec	Limits		
Sulfide				0.500		0.452		mg/L		90	81 - 122		
I ab Sample ID: I CSD 280-	593599/10						c	lient Sa	amnle	ID [.] I al	h Control	Sampl	e Dun
Matrix: Water									ampie	Lai	Pren Tv	ne: To	tal/N∆
Analysis Batch: 593599											i ieh ið	pc. 10	
Analysis Baton. 000000				Spike		LCSD	LCSD				%Rec		RPD
Analyte				Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sulfide				0.500		0.441		mg/L		88	81 - 122	2	10
												-	

Prep Type: Total/NA

Client Sample ID: Method Blank

Method: SM4500 S2 H - Unionized Hydrogen Sulfide

Lab Sample ID: MB 280-594868/1 Matrix: Water

Analysis Batch: 594868

-	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Un-ionized Hydrogen Sulfide	ND		1.0	1.0	mg/L			11/29/22 09:19	1
Field pH	ND		1.0	1.0	SU			11/29/22 09:19	1
Field Temperature	ND		1.0	1.0	Celsius			11/29/22 09:19	1
Specific Conductance	ND		2.0	2.0	umhos/cm			11/29/22 09:19	1
Sulfide	ND		4.0	4.0	mg/L			11/29/22 09:19	1

QC Association Summary

Job ID: 280-169037-1

7 8 9 10 11 12

Filtration Batch: 593200

Metals

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-593200/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-593200/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
Filtration Batch: 593	251				
l ab Sample ID	Client Sample ID	Pren Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Potentially Dissolvec	Water	Poten Diss Met	
⊢ Prep Batch: 593337					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total Recoverable	Water	200.7	
MB 280-593337/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-593337/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	593251
MB 280-593200/1-B	Method Blank	Potentially Dissolvec	Water	200.8	593200
LCS 280-593200/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	593200
Prep Batch: 593646					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-593646/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-593646/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-169037-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	
280-169037-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	
Analysis Batch: 593	875				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	593526
MB 280-593200/1-B	Method Blank	Potentially Dissolvec	Water	200.8	593526
LCS 280-593200/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	593526
Analysis Batch: 5938	892				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	593337
MB 280-593337/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	593337
LCS 280-593337/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	593337
Prep Batch: 593904					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-593904/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-593904/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-593904/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
Analysis Batch: 5939	987				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total Recoverable	Water	200.8	593646
MB 280-593646/1-A	Method Blank	Total Recoverable	Water	200.8	593646
LCS 280-593646/2-A	Lab Control Sample	Total Recoverable	Water	200.8	593646

Metals (Continued)

QC Association Summary

Job ID: 280-169037-1

Analysis Batch: 593987 (Continued) Prep Type Lab Sample ID **Client Sample ID** Matrix Method Prep Batch 280-169037-1 MS OUTFALL-001 Total Recoverable Water 200.8 593646 280-169037-1 MSD OUTFALL-001 Total Recoverable Water 200.8 593646 Analysis Batch: 594307 Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 280-169037-1 OUTFALL-001 Total/NA Water 245.1 593904 MB 280-593904/1-A Method Blank Total/NA Water 245.1 593904 LCS 280-593904/2-A Total/NA 245.1 593904 Lab Control Sample Water LCSD 280-593904/3-A Lab Control Sample Dup Total/NA 593904 Water 245.1 **General Chemistry** Filtration Batch: 593217 Lab Sample ID **Client Sample ID** Prep Batch Prep Type Matrix Method Water 280-169037-1 OUTFALL-001 Dissolved FILTRATION MB 280-593217/3-A Method Blank Dissolved Water FILTRATION LCS 280-593217/1-A Lab Control Sample Dissolved Water FILTRATION LCSD 280-593217/2-A Lab Control Sample Dup Dissolved Water FILTRATION 280-169037-1 MS OUTFALL-001 Dissolved Water FILTRATION 280-169037-1 MSD OUTFALL-001 Dissolved Water FILTRATION 280-169037-1 DU OUTFALL-001 Dissolved Water FILTRATION Analysis Batch: 593226 Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch OUTFALL-001 SM 3500 CR B 280-169037-1 Dissolved Water 593217 280-169037-1 OUTFALL-001 Total/NA Water SM 3500 CR B MB 280-593217/3-A Method Blank Dissolved Water SM 3500 CR B 593217 MB 280-593226/10 Method Blank Total/NA Water SM 3500 CR B LCS 280-593217/1-A Lab Control Sample Dissolved Water SM 3500 CR B 593217 Total/NA LCS 280-593226/8 Lab Control Sample Water SM 3500 CR B LCSD 280-593217/2-A Lab Control Sample Dup Dissolved Water SM 3500 CR B 593217 Total/NA LCSD 280-593226/9 Lab Control Sample Dup Water SM 3500 CR B 280-169037-1 MS OUTFALL-001 Dissolved Water SM 3500 CR B 593217 280-169037-1 MS OUTFALL-001 Total/NA SM 3500 CR B Water 280-169037-1 MSD OUTFALL-001 Dissolved Water SM 3500 CR B 593217 OUTFALL-001 Total/NA 280-169037-1 MSD Water SM 3500 CR B 280-169037-1 DU OUTFALL-001 Dissolved Water SM 3500 CR B 593217 280-169037-1 DU OUTFALL-001 Total/NA Water SM 3500 CR B Analysis Batch: 593542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-593542/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-593542/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 593599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-593599/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-593599/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-593599/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

General Chemistry

Analysis Batch: 593688

MB 280-594868/1

Method Blank

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-593688/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-593688/1	Lab Control Sample	Total/NA	Water	SM 2540D	
Analysis Batch: 593	984				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-593984/50	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
Analysis Batch: 594	734				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	
Analysis Batch: 594	735				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Potentially Dissolvec	Water	SM3500 CR B	
Analysis Batch: 594	868				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169037-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Total/NA

Water

SM4500 S2 H

QC Association Summary

Job ID: 280-169037-1

Client Sample ID: OUTFALL-001 Date Collected: 11/11/22 11:00 Date Received: 11/11/22 14:15

Lab Sample ID: 280-169037-1 Matrix: Water

rix: Water

10

11 12 13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	593337	11/16/22 07:42	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			593892	11/17/22 09:03	KRP	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	593251	11/12/22 10:00	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	593526	11/16/22 14:36	MCR	EET DEN
Potentially Dissolvec	Analysis	200.8		1			593875	11/17/22 09:29	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	593646	11/17/22 08:05	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			593987	11/17/22 18:56	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	593904	11/17/22 17:30	KMS	EET DEN
Total/NA	Analysis	245.1		1			594307	11/19/22 00:55	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			593542	11/15/22 13:52	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	593688	11/16/22 12:12	ASP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	593217	11/11/22 16:18	SJD	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	593226	11/11/22 17:28	SJD	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	593226	11/11/22 17:09	SJD	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			593984	11/17/22 17:13	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	593599	11/15/22 15:17	LRB	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			594735	11/28/22 09:40	DNM	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			594734	11/28/22 09:39	DNM	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			594868	11/29/22 09:19	SAH	EET DEN

Laboratory References:

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

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-169037-1

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
lowa	State	IA#370	11-30-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-22
14/	State	000615430	00.21.02

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

4955 Yarrow Street Arvada, CO 80002	Chain of (Custody Re	eord		🐝 eurofins Environn	ent Testing
Phone (303) 736-0100 Phone (303) 431-7171					000 H	
Client Information	Brooke Mo	Lab PM いてへい Bieniu	: lis, Dylan T	Carrier Tracking No(s):	COC No:	
Client Contact Patrick Delaney	Phone: 303-506-16	o l S Dylan.	.Bieniulis@Eurofinset.com	State of Origin:	Page:	
Company: Grand Island Resources	ISMd		Analysis	Requested	Job #:	
Address: 12567 West Cedar Road Suite 250	Due Date Requested:			Auna yyu	Preservation Codes:	
City: Lakewood	TAT Requested (days):			om ədî nəM br	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO	
State, Zip: CO, 80466	Compliance Project: 🛆 Yes 🛆 No		S, SM4 alent C B FILT B FILT	is sleta	D - Nitric Acid P - Na2045 Ε - NaHSO4 Q - Na2SO3 Γ - 1001	
Phone: 315-414-6986	PO #: Advance Payment Required		0) 20 - T5 20 - T5 20 - Triv 20 - Tr	fFirst) M əlde	G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Do	ecahydrate
Email: pdelaney@blackfoxmining.com	:# OM		No) e, 2540 rt Cr ar valent nt Cr ((Metals scover: it list)	J - DI Water V - MCAA	
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821		es or uctanc d Hexa d Hexa d Hexa e and S	bəvloz Mato maq r	L - EDA Z - other (s)	acify)
Site: First half of the month event	SSOW#:		The conduction of the conducti	seid yll T - r.24 throm (of col	
Samule Identification	Sar Ty Ty Sample Date Time Gar	nple Matrix pe (w-water, p s=solid, comp, o-water(i, d mrah)	Pield Prived 3 24/2000 MS/W M/SM m029 5108 - Specific 5108 - Specific	sibnstof - Rotsing (2sil jimar 7.003 / 7.003 7.01 of the First half of the	rotal Number	N Note
	X	eservation Code:				
OUTFALL-OOI	11/11/22 110m 6	3		××	*First half of the month potenti metals permit list = 200.8 (As.	lly dissolved
					Pb, Mn, Ni, Se, Ag, Zn)	-
					*First half of the month total re metals permit list = 200.7 (Fe), Cd, Cr, Cu, Pb, Zn), and 245.1	overable 200.8 (As, (Hg)
					SX=Ha	
					14emp=3°C	
					- 10 ² - 00	
					-022	
			280-169037 Chain of Cu	stody	atag:	
			 		autoriae.	
Possible Hazard Identification XNon-Hazard □ Flammable □ Skin Irritant □ Pois	son B Unknown Radio	loaical	Sample Disposal (A fee may	be assessed if samples are I	etained longer than 1 month) Archive For Months	
Deliverable Requested: I, II, II, IV, Other (specify)			Special Instructions/QC Requir	ements:		
Empty Kit Relinquished by:	Date:		ime:	Method of Shipment:		
Relinquished by MY APLA W D CAR	Date/Tinte: 12 14:15	Company	Received by:		11/12 COMPANY	RN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Custody Seal No.: A Yes A No			Cooler Temperature(s) °C and Oth	er Remarks: 21, 6 121)	cFQ0	
					Ver: 01/16	2019
			11 12 13 14	8 9 10	3 4 5 6 7	2

Eurofins TestAmerica, Denver

Client: GS Mining Company LLC

Login Number: 169037 List Number: 1 Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Denver



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Delaney GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427 Generated 12/7/2022 11:14:28 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-169501-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002







Eurofins Denver

Job Notes

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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

B - 1

Generated 12/7/2022 11:14:28 AM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Sample Summary	8
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Receipt Checklists	15
Qualifiers

Μ	etals
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Qualifier Description ier 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 Duplicate Error Ratio (normalized absolute difference) DER 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) Estimated Detection Limit (Dioxin) EDL 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
- Method Quantitation Limit MQL 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**
- Relative Error Ratio (Radiochemistry) RER
- Reporting Limit or Requested Limit (Radiochemistry) RL
- RPD Relative Percent Difference, a measure of the relative difference between two points
- TEF Toxicity Equivalent Factor (Dioxin)
- TEQ Toxicity Equivalent Quotient (Dioxin)
- Too Numerous To Count TNTC

Job ID: 280-169501-1

Laboratory: Eurofins Denver

Narrative

Job ID: 280-169501-1

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Nederland, CO

Report Number: 280-169501-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

<u>RECEIPT</u>

The samples were received on 11/22/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.1 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL - 001 (280-169501-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/30/2022 and analyzed on 12/01/2022.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL - 001 (280-169501-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/30/2022 and analyzed on 12/01/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: OUTFALL - 001

_ Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Copper	0.84	J	2.0	0.71	ug/L	1	200.8	Total
								Recoverable
Lead	0.78	J	1.0	0.23	ug/L	1	200.8	Total
								Recoverable
Copper	0.83	J	2.0	0.71	ug/L	1	200.8	Potentially
								Dissolved
Lead	0.89	J	1.0	0.23	ug/L	1	200.8	Potentially
								Dissolved
Zinc	14		10	2.0	ug/L	1	200.8	Potentially
								Dissolved

Job ID: 280-169501-1

Lab Sample ID: 280-169501-1

Client: GS Mining Company LLC Project/Site: Nederland, CO

Mathad	Mathead Description	Ducto a cl	Lahanatama
Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Job ID: 280-169501-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-169501-1	OUTFALL - 001	Water	11/22/22 11:30	11/22/22 13:30

Client: GS Mining Company LLC Project/Site: Nederland, CO Job ID: 280-169501-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL - 0 Date Collected: 11/22/22 11:30 Date Reseived: 11/22/22 12:20	01						Lab Sam	ple ID: 280-16 Matrix	9501-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.84	J	2.0	0.71	ug/L		11/30/22 07:50	12/01/22 21:47	1
Lead	0.78	J	1.0	0.23	ug/L		11/30/22 07:50	12/01/22 21:47	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL - 001 Date Collected: 11/22/22 11:30 Date Received: 11/22/22 13:30							Lab Sam	ole ID: 280-16 Matrix:	9501-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.088	ug/L		11/30/22 07:50	12/01/22 22:25	1
Copper	0.83	J	2.0	0.71	ug/L		11/30/22 07:50	12/01/22 22:25	1
Lead	0.89	J	1.0	0.23	ug/L		11/30/22 07:50	12/01/22 22:25	1
Silver	ND		0.50	0.045	ug/L		11/30/22 07:50	12/01/22 22:25	1
Zinc	14		10	2.0	ug/L		11/30/22 07:50	12/01/22 22:25	1

5

4. 200 0 Matala (ICD/MS) ... Me

Lab Sample ID: MB 280-594821/1-A									Clie	ent Sami	ole ID: Me	thod	Blank
Matrix: Water	-								F	Prep Typ	e: Total R	ecov	erable
Analysis Batch: 595318											Prep Ba	tch: 5	94821
· ···· , · · · · · · · · · · · · · · · · · · ·	МВ	МВ											
Analyte	Result	Qualifier		RL		MDL	Unit	ſ	D P	repared	Analyz	ed	Dil Fac
Copper	ND			2.0		0.71	ug/L		11/3	30/22 07:50	12/01/22 2	21:19	1
Lead	ND			1.0		0.23	ug/L		11/3	80/22 07:50	12/01/22 2	21:19	1
Lab Sample ID: LCS 280-594821/2-	4							Clie	nt Sa	mple ID:	Lab Con	trol S	ample
Matrix: Water									F	Prep Typ	e: Total R	lecov	erable
Analysis Batch: 595318											Prep Ba	tch: 5	94821
			Spike		LCS	LCS	5				%Rec		
Analyte			Added		Result	Qua	alifier	Unit	D	%Rec	Limits		
Copper			40.0		40.3			ug/L		101	90 - 115		
Lead			40.0		41.0			ug/L		103	88 - 115		
Lab Sample ID: LCSD 280-594821/3	8-A						c	lient Sa	mple	ID: Lab	Control S	Sampl	e Dup
Matrix: Water									Ē	Prep Typ	e: Total R	lecov	erable
Analysis Batch: 595318											Prep Ba	tch: 5	94821
-			Spike		LCSD	LCS	SD .				%Rec		RPD
Analyte			Added		Result	Qua	alifier	Unit	D	%Rec	Limits	RPD	Limit
Copper			40.0		40.7			ug/L		102	90 - 115	1	20
Lead			40.0		39.5			ug/L		99	88 - 115	4	20
Lab Sample ID: MB 280-594634/1-B									Clie	ent Sam	ole ID: Me	thod	Blank
Matrix: Water									Pre	o Type: F	Potentially	y Diss	solved
Analysis Batch: 595318											Prep Ba	tch: 5	94874
	MB	MB											
Analyte	Result	Qualifier		RL	I	MDL	Unit	I	D P	repared	Analyz	ed	Dil Fac
Cadmium	ND			1.0	0	.088	ug/L		11/3	80/22 07:50	12/01/22 2	22:19	1
Copper	ND			2.0		0.71	ug/L		11/3	80/22 07:50	12/01/22 2	22:19	1
Lead	ND			1.0		0.23	ug/L		11/3	80/22 07:50	12/01/22 2	22:19	1
Silver	ND			0.50	0	.045	ug/L		11/3	80/22 07:50	12/01/22 2	22:19	1
Zinc	ND			10		2.0	ug/L		11/3	80/22 07:50	12/01/22 2	22:19	1
Lab Sample ID: LCS 280-594634/2-	В							Clie	nt Sa	mple ID:	Lab Con	trol S	ample
Matrix: Water									Pre	o Type: F	Potentially	y Diss	solved
Analysis Batch: 595318											Prep Ba	tch: 5	94874
			Spike		LCS	LCS	3				%Rec		
Analyte			Added		Result	Qua	alifier	Unit	D	%Rec	Limits		
Cadmium			40.0		39.1			ug/L		98	89 - 111		
Copper			40.0		39.7			ug/L		99	90 - 115		
Lead			40.0		39.8			ug/L		99	88 - 115		
Silver			40.0		38.7			ug/L		97	90 - 114		
Zinc			40.0		40.4			ua/L		101	88 - 115		

QC Association Summary

Job ID: 280-169501-1

Metals

Filtration Batch: 594634

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-169501-1	OUTFALL - 001	Potentially Dissolvec	Water	Poten_Diss_Met	-
MB 280-594634/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-594634/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
Prep Batch: 594821					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169501-1	OUTFALL - 001	Total Recoverable	Water	200.8	
MB 280-594821/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-594821/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-594821/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
Prep Batch: 594874					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169501-1	OUTFALL - 001	Potentially Dissolvec	Water	200.8	594634
MB 280-594634/1-B	Method Blank	Potentially Dissolvec	Water	200.8	594634
LCS 280-594634/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	594634
Analysis Batch: 5953	18				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169501-1	OUTFALL - 001	Potentially Dissolvec	Water	200.8	594874
280-169501-1	OUTFALL - 001	Total Recoverable	Water	200.8	594821
MB 280-594634/1-B	Method Blank	Potentially Dissolvec	Water	200.8	594874
MB 280-594821/1-A	Method Blank	Total Recoverable	Water	200.8	594821
LCS 280-594634/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	594874
LCS 280-594821/2-A	Lab Control Sample	Total Recoverable	Water	200.8	594821
LCSD 280-594821/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	594821

Client Sample ID: OUTFALL - 001 Date Collected: 11/22/22 11:30 Date Received: 11/22/22 13:30

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	594634	11/23/22 12:30	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	594874	11/30/22 07:50	LJS	EET DEN
Potentially Dissolvec	Analysis	200.8		1			595318	12/01/22 22:25	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	594821	11/30/22 07:50	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			595318	12/01/22 21:47	LMT	EET DEN

Laboratory References:

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

Job ID: 280-169501-1

Lab Sample ID: 280-169501-1 Matrix: Water

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-169501-1

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
Wisconsin	State	999615430	08-31-23

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

Eurotins lestAmerica, Denver					🐝 eurofins	
4955 Yarrow Street Arvada, CO 80002	Chain of	Custody R	ecord		Environment lesting	
Phone (303) 736-0100 Phone (303) 431-7171			ŝ			
Client Information	sampler: Thancey Cotternel	/ Bieni	/: Jis, Dylan T	Carrier Tracking No(s):	COC No:	_
Ilient Contact: Patrick Delaney	074-127 (f 02)	7 E-Mail: Dylan	.Bieniulis@Eurofinset.com	State of Origin:	Page:	_
Dompany: Grand Island Resources	SMd	ä	Analysis Re	quested	Job #:	-
Adress: 12567 West Cedar Road Suite 250	Due Date Requested:				Preservation Codes:	-
čity: Lakewood	TAT Requested (days):		f of the the mo		B - NOCH N - Nove B - NaOH N - None C - Zn Acetate O - AsNaO2	
state, Zip: CO, 80466	Compliance Project: Δ Yes Δ No		tlert br to tlert		E - Natric Acid P - Na204S E - NaHSO4 Q - Na2SO3	
215 - 414 - 6986	PO #: Advance Payment Required		ocond I (0		 F - MeUT K - N425203 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate 	
Email: odelanev@blackfoxmining.com	#OM		or No (ov sistem		I - Ice U - Acetone J - DI Water V - MCAA	
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821		e (Yes ble Mei		G K - EDTA W - PH 4-5 L - EDA Z - other (specify)	
site:	:#MOSS		Sample SD (Yi s2) (j: (j: (j: (j: (j:		of colorher:	
		mple Matrix ype (_{W=water} ,	Filtered 5 mm MS/Mi Potential permit lis - Total Rec f list) t list)		Number	
Sample Identification	Sample Date Time G=	comp, o=wasta/oil, grab) BT=Tissue, A=Air)	Fierfo Perfo 8.005 200.8 تm9q		Special Instructions/Note:	
	X	eservation Code:				6.000
DUITFALL - OD	11/23/22 11:30	M M	N X X		*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu	_
					Pb, Ag, Zn)	
					*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)	-
					-	_
					DH=7.0	1
					1. temp=4.	1
						T
						-
			280-169501 Chain of Cusion			-
					- Evgniger	-
Possible Hazard Identification			Sample Disposal (A fee may be	assessed if samples are reta	ained longer than 1 month)	
	oison B Unknown Rad	ological	Return To Client Special Instructions/QC Requireme	Disposal By Lab	rchive For Months	
Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:		-
Relinquished by:	Date/Time: 1.28 PW	Company	Received by:	Date/Time:	22 HIA Company OF	-
Relinquished by:	Date/Tirre:	Company	Received by:	Date/Time:	1330 Company 11.22.22	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	T
Custody Seals Intact: Custody Seal No.:		-	Cooler Temperature(s) °C and Other R	emarks: S [/R]	c cfa.	
					Ver: 01/16/2019	

Eurofins TestAmerica, Denver

Client: GS Mining Company LLC

Login Number: 169501 List Number: 1 Creator: Held, Wesley

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 280-169501-1

List Source: Eurofins Denver

APPENDIX B.3 DECEMBER 2022 OUTFALL-001 ANALYTICAL RESULTS



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Delaney GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427 Generated 12/21/2022 5:46:58 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-170030-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002







Eurofins Denver

Job Notes

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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

B - 1

Generated 12/21/2022 5:46:58 PM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Qualifiers

Quanters		📢
Metals		_
Qualifier	Qualifier Description	
В	Compound was found in the blank and sample.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	5
General Che	Security Qualifier Description	9
F1	MS and/or MSD recovery exceeds control limits	
н	Sample was prepped or analyzed beyond the specified holding time	
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.	
	,, _,	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	G
¤	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)	

TEQToxicity Equivalent Quotient (Dioxin)TNTCToo Numerous To Count

Job ID: 280-170030-1

Laboratory: Eurofins Denver

Narrative

Job ID: 280-170030-1

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Nederland, CO

Report Number: 280-170030-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

<u>RECEIPT</u>

The samples were received on 12/07/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.6 C.

The packaging of the low level mercury kit received for sample OUTFALL-001 (280-170030-1) was inadvertently opened during receipt/logging. The containers within the packaging were not opened. Containers were re-packed in the proper packaging with clean gloves and analysis proceeded. The client was notified after receipt.

TOTAL RECOVERABLE METALS (ICP)

Sample OUTFALL-001 (280-170030-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 12/13/2022 and analyzed on 12/15/2022.

Iron was detected in method blank MB 280-596499/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-170030-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 12/14/2022 and analyzed on 12/15/2022 and 12/16/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-170030-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 12/13/2022 and analyzed on 12/13/2022 and 12/14/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Sample OUTFALL-001 (280-170030-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were

Job ID: 280-170030-1 (Continued)

Laboratory: Eurofins Denver (Continued)

prepared on 12/12/2022 and analyzed on 12/13/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample OUTFALL-001 (280-170030-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 12/20/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample OUTFALL-001 (280-170030-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 12/20/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample OUTFALL-001 (280-170030-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 12/08/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL-001 (280-170030-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 12/13/2022.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-170030-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 12/08/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-170030-1) was analyzed for hexavalent chromium in account	ordance with 3500_0	CR_B. The samples were
analyzed on 12/08/2022.		

Chromium, hexavalent failed the recovery criteria high for the MSD of sample OUTFALL-001 (280-170030-1) in batch 280-596037. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample OUTFALL-001 (280-170030-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 12/08/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

<u>SULFIDE</u>

Sample OUTFALL-001 (280-170030-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 12/08/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 280-170030-1 (Continued)

Laboratory: Eurofins Denver (Continued)

HYDROGEN SULFIDE

Sample OUTFALL-001 (280-170030-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 12/13/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Sample OUTFALL-001 (280-170030-1) was analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 12/09/2022 and analyzed on 12/13/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: OUTFALL-001

5

Lab Sample ID: 280-170030-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.8		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	20	JB	100	9.1	ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Lead	0.49	J	1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Zinc	3.3	J	10	2.0	ug/L	1		200.8	Total
									Recoverable
Lead	0.44	J	1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Nickel	0.47	J	2.0	0.28	ug/L	1		200.8	Potentially
									Dissolved
Zinc	5.9	J	10	2.0	ug/L	1		200.8	Potentially
									Dissolved
Specific Conductance	230		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	8.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	23.4	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	8.2		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	23		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	230		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Method Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Job ID: 280-170030-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-170030-1	OUTFALL-001	Water	12/07/22 12:00	12/07/22 16:02

Job ID: 280-170030-1

	, , , , , , , , , ,		- /						
Client Sample ID: OUTFALL-001 Date Collected: 12/07/22 12:00							Lab Sam	ole ID: 280-17 Matrix:	'0030-1 : Water
Date Received: 12/07/22 16:02	Decult	Qualifian	ы	MDI	11		Drenered	Analyzad	
Moroury	Result	Quaimer	KL	0.20		<u>D</u>	Prepared	Analyzed	
Method: EDA 200 7 Dov 4.4	1.0 Motolo				lig/∟		12/09/22 10.23	12/13/22 10.30	1
Wethod: EPA 200.7 Rev 4.4 -	wetais	(ICP) - 10	lai Recov	erable					
Client Sample ID: OUTFALL-001 Date Collected: 12/07/22 12:00							Lab Sam	ole ID: 280-17 Matrix:	'0030-1 : Water
Date Received: 12/07/22 16:02									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20	JB	100	9.1	ug/L		12/13/22 11:29	12/15/22 00:26	1
Method: EPA 200.8 - Metals (6) - Total R	lecoverat	ole					
Client Sample ID: OUTFALL-001							Lab Sam	ole ID: 280-17	0030-1
Date Collected: 12/07/22 12:00								Matrix	: Water
Date Received: 12/07/22 16:02									
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/13/22 08:13	12/14/22 15:25	1
Cadmium	ND		1.0	0.088	ug/L		12/13/22 08:13	12/13/22 17:53	1
Chromium	ND		3.0	0.88	ug/L		12/13/22 08:13	12/13/22 17:53	1
Copper	ND		2.0	0.71	ug/L		12/13/22 08:13	12/14/22 15:25	1
Lead	0.49	J	1.0	0.23	ug/L		12/13/22 08:13	12/14/22 15:25	1
Zinc	3.3	J	10	2.0	ug/L		12/13/22 08:13	12/13/22 17:53	1
Method: EPA 200.8 - Metals (ICP/MS	6) - Potent	ially Diss	olved					
Client Sample ID: OUTFALL-001							Lab Sam	ole ID: 280-17	0030-1
Date Collected: 12/07/22 12:00 Date Received: 12/07/22 16:02								Matrix	: Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/14/22 08:15	12/16/22 11:37	1
Cadmium	ND		1.0	0.088	ug/L		12/14/22 08:15	12/15/22 17:00	1
Chromium	ND		3.0	0.88	ug/L		12/14/22 08:15	12/15/22 17:00	1
Copper	ND		2.0	0.71	ug/L		12/14/22 08:15	12/15/22 17:00	1
Lead	0.44	J	1.0	0.23	ug/L		12/14/22 08:15	12/15/22 17:00	1
Manganese	ND		2.0	0.51	ug/L		12/14/22 08:15	12/16/22 11:37	1
Nickel	0.47	J	2.0	0.28	ug/L		12/14/22 08:15	12/15/22 17:00	1
Selenium	ND		5.0	1.0	ug/L		12/14/22 08:15	12/15/22 17:00	1
Silver	ND		0.50	0.045	ug/L		12/14/22 08:15	12/15/22 17:00	1
Zinc	5.9	J	10	2.0	ug/L		12/14/22 08:15	12/15/22 17:00	1
Method: EPA 245.1 - Mercury		A)							
Client Sample ID: OUTFALL-001							Lab Sam	ole ID: 280-17	0030-1
Date Collected: 12/07/22 12:00								Matrix	: Water
Date Received: 12/07/22 16:02	Desult	Qualifier		MD:	l lmit	-	Drenewal	A mal:	
	Result		KL			D	repared		
mercury	ND		0.20	0.061	ug/L		12/12/22 18:15	12/13/22 17:19	1

Client Sample ID: OUTFALL-001

General Chemistry

Lab Sample ID: 280-170030-1 Matrix: Water

Date Collected: 12/07/22 12:00								Matrix	: water
Date Received: 12/07/22 16:02									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm			12/08/22 13:55	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			12/13/22 11:55	1
Chromium, hexavalent (SM 3500 CR B)	ND	F1	0.020	0.0040	mg/L			12/08/22 11:03	1
pH adj. to 25 deg C (SM 4500 H+ B	8.2	HF	0.1	0.1	SU			12/08/22 14:31	1
Temperature (SM 4500 H+ B)	23.4	HF	1.0	1.0	Degrees C			12/08/22 14:31	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			12/08/22 15:51	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			12/13/22 17:23	1
Field pH (SM4500 S2 H)	8.2		1.0	1.0	SU			12/13/22 17:23	1
Field Temperature (SM4500 S2 H)	23		1.0	1.0	Celsius			12/13/22 17:23	1
Specific Conductance (SM4500 S2 H)	230		2.0	2.0	umhos/cm			12/13/22 17:23	1
Sulfide (SM4500 S2 H)	ND		4.0	4.0	mg/L			12/13/22 17:23	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-007 Date Collected: 12/07/22 12:00 Date Received: 12/07/22 16:02						Lab Sample ID: 280-170030-1 Matrix: Water			
Analyte Chromium, trivalent (SM3500 CR B)	Result ND	Qualifier H	RL 0.020	MDL 0.020	Unit mg/L	<u> </u>	Prepared	Analyzed	Dil Fac

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001 Date Collected: 12/07/22 12:00							Lab Sample ID: 280-170030-1 Matrix: Water			
Date Received: 12/07/22 16:02										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chromium, hexavalent (SM 3500 CR	ND		0.020	0.0040	mg/L			12/08/22 10:52	1	
B)										

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001 Date Collected: 12/07/22 12:00							Lab San	nple ID: 280-17 Matrix	'0030-1 : Water
Date Received: 12/07/22 16:02		0				_	<u> </u>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L			12/20/22 17:24	1

Job ID: 280-170030-1

5 6

9

Method: 1631E - Mercury, Low Level (CVAFS) Lab Sample ID: MB 400-604622/3-A Matrix: Water Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water												Prep Type:	Tot	al/NA
Analysis Batch: 604717												Prep Batcl	ו: <mark>6</mark> 0)4622
	MB	MB												
Analyte	Result	Qualifier		RL		MDL	Unit		D	P	repared	Analyzed	_	Dil Fac
Mercury	ND			0.50		0.20	ng/L			12/1	2/22 16:00	12/13/22 09:4	18	1
Lab Sample ID: LCS 400-604	622/4-4							Cli	ient	Sar	nnle ID [.]	Lab Contro	ol Sa	mnle
Matrix: Water								•		-u	inpie indi	Prep Type:	Tot	al/NA
Analysis Batch: 604717												Prep Batcl	n: 60	04622
· ·····, ···· · · · · · · · · · · · · ·			Spike		LCS	LCS	;					%Rec		
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Mercury			5.00		4.97			ng/L		_	99	79 - 121		
Lab Sample ID: LCSD 400.60	A622/5_A						· ·	liont 9	Sam	nlo		Control Sa	nnle	Dun
Matrix: Wator	14022/J-A							ment c	Jam	hie		Prop Type:	Tot	
Analysis Batch: 60/717												Pron Batel	101	ai/11A
			Sniko			1.09	:n					%Rec	1. 00	RPD
Analyte					Result	0112	lifier	Unit		п	%Rec	Limits F	חפי	Limit
Mercury			5.00		4.94			na/L		_	99	79 - 121	1	20
													-	
Method: 200.7 Rev 4.4 - M	Aetals (ICP	')												
Lab Sample ID: MR 280 5964	00/1_0										nt Samn	No ID: Moth	od	Blank
Matrix: Water	195/ 1- A										Prop Type	ne ID. Metri		
Analysis Ratch: 596974											Teh Th	Prop Batel	.000	
Analysis Batch. 590074	MB	MR										Fiep Balci	1. 53	0433
Analyte	Result	Qualifier		RI		мпі	Unit		п	Р	renared	Analyzed		Dil Fac
Iron	18.8	J		100		9.1			-	12/1	3/22 11:29	12/14/22 23:0	00	1
							3/							
Lab Sample ID: LCS 280-596	499/2-A							Cli	ient	Sar	nple ID:	Lab Contro	ol Sa	mple
Matrix: Water										F	Prep Type	e: Total Red	cove	rable
Analysis Batch: 596874												Prep Batcl	ו: <mark>5</mark> 9	96499
			Spike		LCS	LCS	;					%Rec		
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Iron			10000		10100			ug/L			101	85 - 115		
Method: 200.8 - Metals (I	CP/MS)													
														
Lab Sample ID: MB 280-5963	518/1-A										ent Samp	Die ID: Meth	od	Blank
Matrix: water										F	rep type	e: Total Red	:ove	
Analysis Batch: 596619		мр										Prep Batci	1: 5:	96318
Awahata	MB						11-14		~	-		A		
	- Result	Qualifier		RL					ש	10/4	repared	Analyzed	21	
AISENIC	ND			5.U	~	0.50	ug/L			12/1	3/22 08:13	12/13/22 17:2	21 04	1
Caumium	ND			1.0	0	0.088	ug/L			12/1	3/22 08:13	12/13/22 17:2	21	1
Chiromium				~ ~		0.00				1014	2/22 00.40	10/10/00 17 /	14	
Copper	ND			3.0		0.88	ug/L			12/1	3/22 08:13	12/13/22 17:2	21	1
	ND ND			3.0 2.0		0.88 0.71	ug/L ug/L			12/1 12/1	3/22 08:13 3/22 08:13	12/13/22 17:2 12/13/22 17:2	21 21	1
Lead	ND ND ND			3.0 2.0 1.0		0.88 0.71 0.23	ug/L ug/L ug/L			12/1 12/1 12/1	3/22 08:13 3/22 08:13 3/22 08:13	12/13/22 17:2 12/13/22 17:2 12/13/22 17:2	21 21 21	1 1 1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-596318/2-A **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total Recoverable Analysis Batch: 596619 Prep Batch: 596318 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Arsenic 40.0 37.2 ug/L 93 89 - 111 Cadmium 40.0 41.8 ug/L 104 89 - 111 Chromium 40.0 39.4 ug/L 99 86 - 115 40.0 38.8 97 90 - 115 Copper ug/L 40.0 Lead 38.7 ug/L 97 88 - 115 Zinc 40.0 40.6 ug/L 101 88 - 115

Lab Sample ID: LCSD 280-596318/3-A **Matrix: Water**

Analysia Batak E06640

Analysis Batch: 596619							Prep Ba	atch: 59	96318
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	40.0	39.0		ug/L		97	89 - 111	5	20
Cadmium	40.0	39.0		ug/L		97	89 - 111	7	20
Chromium	40.0	39.0		ug/L		98	86 - 115	1	20
Copper	40.0	37.8		ug/L		94	90 - 115	3	20
Lead	40.0	38.2		ug/L		95	88 - 115	1	20
Zinc	40.0	39.8		ug/L		100	88 - 115	2	20

Lab Sample ID: MB 280-596256/1-B

Matrix: Water Analysis Batch: 596920

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.088	ug/L		12/14/22 08:15	12/15/22 16:49	1
Chromium	ND		3.0	0.88	ug/L		12/14/22 08:15	12/15/22 16:49	1
Copper	ND		2.0	0.71	ug/L		12/14/22 08:15	12/15/22 16:49	1
Lead	ND		1.0	0.23	ug/L		12/14/22 08:15	12/15/22 16:49	1
Nickel	ND		2.0	0.28	ug/L		12/14/22 08:15	12/15/22 16:49	1
Selenium	ND		5.0	1.0	ug/L		12/14/22 08:15	12/15/22 16:49	1
Silver	ND		0.50	0.045	ug/L		12/14/22 08:15	12/15/22 16:49	1
Zinc	ND		10	2.0	ug/L		12/14/22 08:15	12/15/22 16:49	1

Lab Sample ID: MB 280-596256/1-B **Matrix: Water**

Analysis Batch: 596971

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/14/22 08:15	12/16/22 11:29	1
Manganese	ND		2.0	0.51	ug/L		12/14/22 08:15	12/16/22 11:29	1

Lab Sample ID: LCS 280-596256/2-B **Matrix: Water**

Analysis Batch: 596920 Prep Batch: 596402 Spike LCS LCS %Rec Analyte Added **Result Qualifier** Limits Unit D %Rec Cadmium 40.0 39.6 ug/L 99 89 - 111 Chromium 40.0 40.4 ug/L 101 86 - 115 Copper 40.0 40.9 102 90 - 115 ug/L

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Eurofins Denver

Client Sample ID: Method Blank E

Prep Type: Total Recoverable

Client Sample ID: Lab Control Sample Dup

Prep Type: I	Potentially Dissolved
	Prep Batch: 596402

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

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

Prep Batch: 596402

Spike

40.0

40.0

40.0

40.0

40.0

Added

LCS LCS

40.5

40.1

39.3

41.4

43.0

Result Qualifier

Unit

ug/L

ug/L

ug/L

ug/L

ug/L

Analysis Batch: 596920

Matrix: Water

Analyte

Lead

Nickel

Silver

Zinc

Selenium

Lab Sample ID: LCS 280-596256/2-B

Method: 200.8 - Metals (ICP/MS) (Continued)

Prep Batch: 596402

2 3 4 5 6 7 8 9

 %
 98
 85 - 114

 L
 103
 90 - 114

 %
 108
 88 - 115

 Client Sample ID: Lab Control Sample

 Prep Type: Potentially Dissolved

Client Sample ID: Lab Control Sample

D %Rec

101

100

Prep Type: Potentially Dissolved

%Rec

Limits

88 - 115

86 - 115

Lab Sample ID: LCS 280-596256/2-B Matrix: Water

Analysis Batch: 596971	Onika	1.00	1.00			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Prep Batch: 596402
	Бріке	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	40.0	38.7		ug/L		97	89 - 111
Manganese	40.0	39.0		ug/L		98	87 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-596 Matrix: Water	370/1-A								С	lie	nt Samı	ole ID: M Prep Ty	ethod I pe: Tot	Blank al/NA
Analysis Batch: 596650												Ргер Ва	itch: 5	16370
		MB	мв											
Analyte	Re	sult	Qualifier		RL		MDL Unit		<u>D</u>	Pı	repared	Analyz	zed	Dil Fac
Mercury		ND			0.20	0	.061 ug/L		1	2/1:	2/22 18:15	12/13/22	16:59	1
Lab Sample ID: LCS 280-596	6370/2-A							Cli	ent S	Sar	nple ID:	Lab Cor	trol Sa	mple
Matrix: Water												Prep Ty	pe: Tot	al/NA
Analysis Batch: 596650												Prep Ba	tch: 59	6370
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Mercury				5.00		4.97		ug/L		_	99	90 - 110		
_ Lab Sample ID: 280-170030-	1 MS								С	lie	nt Sam	ole ID: O	UTFAL	L-001
Matrix: Water												Prep Ty	pe: Tot	al/NA
Analysis Batch: 596650												Prep Ba	itch: 59	6370
	Sample	Sam	ple	Spike		MS	MS					%Rec		
Analyte	Result	Qual	lifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Mercury	ND			5.00		4.84		ug/L		_	97	80 - 120		
_ Lab Sample ID: 280-170030-	1 MSD								С	lie	nt Sam	ole ID: O	UTFAL	L-001
Matrix: Water												Prep Tv	pe: Tot	al/NA
Analysis Batch: 596650												Prep Ba	tch: 59	6370
	Sample	Sam	ple	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qual	lifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Mercury	ND			5.00		4.77		ug/L		_	95	80 - 120	2	10

Job ID: 280-170030-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-5960	61/5							Client Sa	mple ID: Metho	d Blank
Analysis Batch: 596061									Prep Type. I	Otal/NA
Analysis Batch. 550001	MB	MB								
Analyte	Result	Qualifier		RL		MDL Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND			2.0		2.0 umh	os/cm		12/08/22 13:55	1
Lab Sample ID: LCS 280-5960	061/4						Clien	t Sample I	D: Lab Control	Sample
Matrix: Water							-		Prep Type: T	otal/NA
Analysis Batch: 596061										
			Spike		LCS	LCS			%Rec	
Analyte			Added		Result	Qualifier	Unit	D %Rec	Limits	
Specific Conductance			1410		1430		umhos/cm	101	90 - 110	
Lab Sample ID: 280-170030-1	DU							Client Sa	mple ID: OUTFA	LL-001
Matrix: Water									Prep Type: T	otal/NA
Analysis Batch: 596061										
	Sample Sam	nple			DU	DU				RPD
Analyte	Result Qua	lifier			Result	Qualifier	Unit	D	RP	D Limit
Specific Conductance	230				232		umhos/cm		0.	3 10
Method: SM 2540D - Solid	ds, Total S	uspend	ed (TS	SS)						
 		-								
Lab Sample ID: MB 280-5965	13/2							Client Sa	mple ID: Metho	d Blank
Matrix: Water									Prep Type: T	otal/NA
Analysis Batch: 596513										
	MB	MB					_	_		
Analyte	Result	Qualifier		RL		MDL Unit	D	Prepared	Analyzed	Dil Fac
Iotal Suspended Solids	ND			4.0		1.1 mg/L	-		12/13/22 11:55	1
Lab Sample ID: LCS 280-596 Matrix: Water	513/1						Clien	t Sample I	D: Lab Control Prep Type: T	Sample otal/NA
Analysis Batch: 596513										
· · · · · · · · · · · · · · · · · · ·			Spike		LCS	LCS			%Rec	
Analyte			Added		Result	Qualifier	Unit	D %Rec	Limits	
Total Suspended Solids			501		455		mg/L	91	79 - 114	
Method: SM 3500 CR B - 0	Chromium	, Hexav	alent							
										
Lab Sample ID: MB 280-5960	37/10							Client Sa	mple ID: Metho	d Blank
Matrix: water									Prep Type: T	otal/NA
Analysis Batch: 596037										
Amelia	MB Davit	MB		-			_	D	A	D'I 5
Analyte Chromium hovevalent	Result	Qualifier				MDL Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium, nexavalent	ND		(0.020	0.	0040 mg/L	-		12/08/22 10:17	1
Lab Sample ID: LCS 280-5960	037/8						Clien	t Sample I	D: Lab Control	Sample
Matrix: Water							2		Prep Type: T	otal/NA
Analysis Batch: 596037										
			Spike		LCS	LCS			%Rec	
Analyte			Added		Result	Qualifier	Unit	D %Rec	Limits	
Chromium, hexavalent			0.100		0.101		mg/L	101	91 - 112	

Job ID: 280-170030-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSD 280 Matrix: Water	-596037/9					C	lient Sar	nple	ID: Lal	o Control S Prep Ty	Sample pe: Tot	e Dup tal/NA
Analysis Batch: 596037			Smiles		.					9/ D oo		000
Analyte			Spike Added	Res	ult	Qualifier	Unit	п	%Rec	%Rec Limits	RPD	L imit
Chromium, hexavalent			0.100	0.09	92		mg/L		99	91 - 112	2	20
								0				1 004
Lab Sample ID: 280-17003 Matrix: Water	U-1 IVIS							Clie	ent San	IPIE ID: OI		L-001
Analysis Batch: 596037										перту	pe. 10	
· ·····, ··· · · · · · · · · · · · · ·	Sample	Sample	Spike	, I	IS	MS				%Rec		
Analyte	Result	Qualifier	Added	Res	ult	Qualifier	Unit	D	%Rec	Limits		
Chromium, hexavalent	ND	F1	0.100	0.1	04		mg/L		104	91 - 112		
Lab Sample ID: 280-17003	0-1 MSD							Clie	ent San	nole ID: Ol	JTFAL	L-001
Matrix: Water	• • • • • • • • • • • • • • • • • • • •							•		Prep Ty	pe: Tot	tal/NA
Analysis Batch: 596037												
	Sample	Sample	Spike	M	D	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Res	ult	Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Limit
Chromium, hexavalent	ND	F1	0.100	0.1	17	F1	mg/L		117	91 - 112	12	20
Lab Sample ID: 280-17003	0-1 DU							Clie	ent San	nple ID: Ol	JTFAL	L-001
Matrix: Water										Prep Ty	pe: Tot	tal/NA
Analysis Batch: 596037												
	Sample	Sample		I	U	DU						RPD
Analyte	Result	Qualifier		Res	ult	Qualifier	Unit	<u>D</u>			RPD	Limit
Chromium, hexavalent	ND	F1		0.02	26		mg/L				NC	20
Lab Sample ID: MB 280-59	6017/3-A							Clie	ent San	nple ID: M	ethod	Blank
Lab Sample ID: MB 280-59 Matrix: Water	6017/3-A							Clie	ent San	nple ID: Mo Prep Type	ethod e: Diss	Blank olved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037	06017/3-A							Clie	ent San	nple ID: Mo Prep Type	ethod e: Diss	Blank solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037	06017/3-A	MB MB			-			Clie	ent San	nple ID: Mo Prep Type	ethod e: Diss	Blank solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte	06017/3-A	MB MB sult Qualifier		RL	<u>N</u>	ADL Unit	D	Clie	ent San repared	Prep Type	ethod e: Diss	Blank solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent	06017/3-A 	MB MB Isult Qualifier	(RL	N 0.0	IDL Unit 040 mg/L	D	Clie P	ent San repared	nple ID: Mo Prep Type 	ethod e: Diss red 10:23	Blank colved Dil Fac
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5	96017/3-A 	MB MB esult Qualifier	(RL 0.020	N 0.0	/IDL <u>Unit</u> 040 mg/L	D	Clie t Sa	ent San repared mple ID	Prep Type <u>Analyz</u> 12/08/22 2: Lab Con	ethod a: Diss ced 10:23	Blank colved Dil Fac 1 ample
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water	96017/3-A 	MB MB sult Qualifier	(RL 0.020	N 0.0	IDL Unit 040 mg/L	D	Clie t Sai	ent San repared mple ID	Prep Type 	ethod e: Diss ad 10:23	Blank colved Dil Fac 1 ample colved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037	96017/3-A Re 96017/1-A	MB MB esult Qualifier	C	RL 0.020	N 0.0	IDL <u>Unit</u> 040 mg/L	D	Clie P t Sa	ent San repared mple ID	Prep Type <u>Analyz</u> 12/08/22 C: Lab Con Prep Type	ethod e: Diss and 10:23 atrol Sa e: Diss	Blank solved Dil Fac 1 ample solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037	96017/3-A 	MB MB esult Qualifier	(RL 0.020	 0.0 \$\$	IDL Unit 040 mg/L LCS	D_ Clien	Clie P t Sa	repared mple ID	Analyz Prep Type Analyz 12/08/22 D: Lab Con Prep Type %Rec	ethod e: Diss red 10:23 - htrol Sa e: Diss	Blank solved Dil Fac 1 ample solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037 Analyte	96017/3-A 96017/1-A	MB MB sult Qualifier	Spike Added	RL 0.020	N 0.0 S ult	IDL Unit 040 mg/L LCS Qualifier	Clien	Clie t Sar	repared mple ID	Prep Type Prep Type <u>Analyz</u> 12/08/22 D: Lab Com Prep Type %Rec Limits 01 412	ethod e: Diss red 10:23 - atrol Sa e: Diss	Blank colved Dil Fac 1 ample colved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent	96017/3-A 96017/1-A	MB MB sult Qualifier ND	Spike Added 0.100	RL 0.020 L(Res 0.1	N 0.0 S ult 01	IDL Unit 040 mg/L LCS Qualifier	Clien Unit mg/L	Clie t Sar 	repared mple IC	Analyz Prep Type Analyz 12/08/22 D: Lab Com Prep Type %Rec Limits 91 - 112	ethod e: Diss and 10:23 - atrol Sa e: Diss	Blank solved Dil Fac 1 ample solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analyte Chromium, hexavalent	96017/3-A 96017/1-A 	MB MB esult Qualifier ND	Spike Added 0.100	RL 0.020 L0 Res 0.1	N 0.0 2 3 1 1 0 1	<u>IDL</u> <u>Unit</u> 040 mg/L LCS <u>Qualifier</u>	Clien Unit mg/L	Clie P t Sar D nple	repared mple ID <u>%Rec</u> 101 ID: Lal	Analyz Prep Type 2 Analyz 12/08/22 2: Lab Com Prep Type %Rec Limits 91 - 112 5 Control \$	ethod e: Diss red 10:23 - atrol Sa e: Diss Sample	Blank solved Dil Fac 1 ample solved e Dup
Lab Sample ID: MB 280-59Matrix: WaterAnalysis Batch: 596037AnalyteChromium, hexavalentLab Sample ID: LCS 280-5Matrix: WaterAnalysis Batch: 596037AnalyteChromium, hexavalentLab Sample ID: LCSD 280-5Matrix: Water	96017/3-A 96017/1-A -596017/2-A	MB MB sult Qualifier	Spike Added 0.100	RL 0.020	N 0.0 S ult 01	IDL Unit 040 mg/L LCS Qualifier	Unit mg/L Clien	Clie P t Sar _ D mple	repared mple ID <u>%Rec</u> 101 ID: Lal	Analyz Prep Type Analyz 12/08/22 D: Lab Com Prep Type %Rec Limits 91 - 112 D Control S Prep Type	ethod e: Diss add 10:23 - atrol Sa e: Diss Sample e: Diss	Blank solved Dil Fac 1 ample solved e Dup solved
Lab Sample ID: MB 280-59Matrix: WaterAnalysis Batch: 596037AnalyteChromium, hexavalentLab Sample ID: LCS 280-5Matrix: WaterAnalysis Batch: 596037AnalyteChromium, hexavalentLab Sample ID: LCSD 280-6Matrix: WaterAnalyteChromium, hexavalentLab Sample ID: LCSD 280-6Matrix: WaterAnalysis Batch: 596037	96017/3-A 96017/1-A -596017/2-A	MB MB esult Qualifier	Spike Added 0.100	RL 0.020 L0 Res 0.1	N 0.0 S ult 01	IDL Unit 040 mg/L LCS Qualifier	Unit mg/L Slient Sar	Clie P t Sar _ D _	repared mple IC <u>%Rec</u> 101 ID: Lal	Analyz Prep Type Analyz 12/08/22 D: Lab Com Prep Type %Rec Limits 91 - 112 D Control S Prep Type	ethod e: Diss add 10:23 atrol Sa e: Diss Sample e: Diss	Blank solved Dil Fac 1 ample solved e Dup solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: LCSD 280-7 Matrix: Water Analysis Batch: 596037 Analysis Batch: 596037	96017/3-A 96017/1-A -596017/2-A	MB MB esult Qualifier	Spike Added 0.100	RL 0.020 L0 Res 0.1	N 0.0 S ult 01	<u>IDL</u> <u>Unit</u> 040 mg/L LCS <u>Qualifier</u> C LCSD	Unit Clien Unit mg/L client Sar	Clie P t Sar D nple	repared mple ID <u>%Rec</u> 101 ID: Lal	Analyz Prep Type Analyz 12/08/22 C: Lab Com Prep Type %Rec Limits 91 - 112 Control S Prep Type %Rec Limits	ethod e: Diss and 10:23 e: Diss Sample e: Diss	Blank solved Dil Fac 1 ample solved e Dup solved RPD
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: LCSD 2800 Matrix: Water Analysis Batch: 596037 Analysis Batch: 596037 Analysis Batch: 596037	96017/3-A 96017/1-A -596017/2-A	MB MB sult Qualifier	Spike Added 0.100 Spike Added	RL 0.020	N 0.0 S ult 01	IDL Unit 040 mg/L LCS Qualifier C LCSD Qualifier	Unit Clien mg/L client Sar	Clie P t Sar D mple	repared mple IC <u>%Rec</u> 101 ID: Lal	Analyz Prep Type Analyz 12/08/22 D: Lab Com Prep Type %Rec Limits 91 - 112 D Control S Prep Type %Rec Limits 91 - 112	ethod e: Diss add 10:23 - atrol Sa e: Diss Sample e: Diss	Blank colved Dil Fac 1 ample colved e Dup colved RPD Limit 20
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCSD 280 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent	96017/3-A 96017/1-A -596017/2-A	MB MB sult Qualifier	Spike Added 0.100 Spike Added 0.100	RL 0.020 LC 0.1 LC Res 0.1	N 0.0 S JIt 01 S D JIt 01	IDL Unit 040 mg/L LCS Qualifier C LCSD Qualifier	Unit mg/L stient Sar	Clie P t Sar _ D _ nple	repared mple IC <u>%Rec</u> 101 ID: Lal	Analyz Prep Type Analyz 12/08/22 2: Lab Com Prep Type %Rec Limits 91 - 112 0 Control S Prep Type %Rec Limits 91 - 112	ethod e: Diss atrol Sa e: Diss Sample e: Diss APD 0	Blank solved Dil Fac 1 ample solved e Dup solved RPD Limit 20
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: LCSD 2800 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: LCSD 2800 Matrix: Water Analysis Batch: 596037 Matrix: Water Analysis Batch: 596037 Lab Sample ID: LCSD 2800 Matrix: Water Analysis Batch: 596037 Lab Sample ID: 280-17003	96017/3-A 96017/1-A -596017/2-A 0-1 MS	MB MB sult Qualifier ND	Spike Added 0.100 Spike Added 0.100	RL 0.020 LC Res 0.1	N 0.0 S slt 01 S D ult 01	10L Unit 040 mg/L LCS Qualifier C LCSD Qualifier	Unit mg/L client Sar	Clie P t Sar D mple _ D Clie	repared mple IC <u>%Rec</u> 101 ID: Lal <u>%Rec</u> 101	Analyz Prep Type Analyz 12/08/22 D: Lab Com Prep Type %Rec Limits 91 - 112 Control S Prep Type %Rec Limits 91 - 112 %Rec Limits 91 - 112 %Rec Limits 91 - 112	ethod e: Diss and the diss e: Diss Sample e: Diss <u>RPD</u> 0 JTFAL	Blank solved Dil Fac 1 ample solved e Dup solved RPD Limit 20
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: LCSD 2800 Matrix: Water Analysis Batch: 596037 Analysis Batch: 596037 Analysis Batch: 596037 Lab Sample ID: LCSD 2800 Matrix: Water Chromium, hexavalent Lab Sample ID: 280-17003 Matrix: Water	96017/3-A 96017/1-A -596017/2-A 0-1 MS	MB MB esult Qualifier ND	Spike Added 0.100 Spike Added 0.100	RL 0.020 LC Res 0.1	■ 0.0 31t 01 30	10L Unit 040 mg/L LCS Qualifier C Qualifier	Unit mg/L Unit unit mg/L	Clie P t San _ D _ D _ nple _ D _ Clie	repared mple ID <u>%Rec</u> 101 ID: Lal <u>%Rec</u> 101	Analyz Prep Type Analyz 12/08/22 D: Lab Com Prep Type %Rec Limits 91 - 112 Control S Prep Type %Rec Limits 91 - 112 MRec Limits 91 - 112 MRec Limits 91 - 112	ethod e: Diss and the diss e: Diss Sample e: Diss <u>RPD</u> 0 UTFAL e: Diss	Blank solved Dil Fac 1 ample solved e Dup solved RPD Limit 20 L-001 solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037Analyte Chromium, hexavalentLab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037Analyte Chromium, hexavalentLab Sample ID: LCSD 280-7 Matrix: Water Analysis Batch: 596037Analyte Chromium, hexavalentLab Sample ID: LCSD 280-7 Matrix: Water Analysis Batch: 596037Analyte Chromium, hexavalentLab Sample ID: LCSD 280-7 Matrix: Water Analysis Batch: 596037Analyte Chromium, hexavalentLab Sample ID: 280-17003 Matrix: Water Analysis Batch: 596037	96017/3-A 96017/1-A -596017/2-A 0-1 MS	MB MB sult Qualifier	Spike Added 0.100 Spike Added 0.100	RL 0.020 LC Res 0.1	N 0.0 S slt 01 S D lt 01	IDL Unit 040 mg/L LCS Qualifier C Qualifier	Unit mg/L stient Sar	Clie P t Sar D D D Clie	ent San repared mple ID <u>%Rec</u> 101 ID: Lal <u>%Rec</u> 101 ent San	Analyz Prep Type Analyz 12/08/22 D: Lab Com Prep Type %Rec Limits 91 - 112 D Control S Prep Type %Rec Limits 91 - 112 D Control S Prep Type	ethod e: Diss atrol Sa e: Diss Sample e: Diss <u>RPD</u> 0 UTFAL e: Diss	Blank solved Dil Fac 1 ample solved e Dup solved RPD Limit 20 L-001 solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: LCSD 2800 Matrix: Water Analysis Batch: 596037 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: 280-17003 Matrix: Water Analysis Batch: 596037 Analysis Batch: 596037 Analysis Batch: 596037 Analysis Batch: 596037	96017/3-A 96017/1-A -596017/2-A 0-1 MS Sample	MB MB sult Qualifier ND Sample Qualifier	Spike Added 0.100 Spike Added 0.100	RL 0.020 L(Res 0.1 LC: Res 0.1	N 0.0 S III 01 S III 01 S	MDL Unit 040 mg/L LCS Qualifier C Qualifier MS	Unit Mg/L Client Sar Unit Mg/L	Clie P t Sal D nple	ent San repared mple ID <u>%Rec</u> 101 ID: Lal <u>%Rec</u> 101 ent San	Analyz Prep Type Analyz 12/08/22 D: Lab Com Prep Type %Rec Limits 91 - 112 Control S Prep Type %Rec Limits 91 - 112 DI - 11	ethod e: Diss and trol Sa e: Diss Sample e: Diss <u>RPD</u> 0 UTFAL e: Diss	Blank solved Dil Fac 1 ample solved e Dup solved RPD Limit 20 L-001 solved
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596037 Analyte Chromium, hexavalent Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 596037 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: LCSD 280-7 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: LCSD 280-7 Matrix: Water Analyte Chromium, hexavalent Lab Sample ID: 280-17003 Matrix: Water Analysis Batch: 596037 Analysis Batch: 596037 Analysis Batch: 596037 Analysis Batch: 596037	96017/3-A 96017/1-A -596017/2-A 0-1 MS Sample Result	MB MB sult ND Qualifier Sample Qualifier	Spike Added 0.100 Spike Added 0.100	RL 0.020 LC Res 0.1	N 0.0 S JIL 01 S D JIL 01 S D JIL 01	MDL Unit 040 mg/L LCS Qualifier C Qualifier MS Qualifier	Unit mg/L Unit mg/L	Clie P t Sal D D Clie _ D	repared mple IC %Rec 101 ID: Lal %Rec 101 ent San	Analyz Prep Type Analyz 12/08/22 D: Lab Com Prep Type %Rec Limits 91 - 112 Control S Prep Type %Rec Limits 91 - 112 Different S 91 - 112 NRec Limits 91 - 112 NRec Limits 91 - 112 NRec Limits 91 - 112	ethod e: Diss and 10:23 - htrol Sa e: Diss Sample e: Diss <u>RPD</u> 0 JTFAL e: Diss	Blank solved Dil Fac 1 ample solved e Dup solved RPD Limit 20 L-001 solved

Job ID: 280-170030-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-17003	0-1 MSD							Clie	ent Sam	nole ID: Ol	UTFAL	L-001
Matrix: Water										Prep Type	e: Diss	solved
Analysis Batch: 596037												
····· , ··· ····	Sample Sar	nple	Spike	MSD	MSD					%Rec		RPD
Analyte	Result Qua	alifier	Added	Result	Qualif	fier L	Jnit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent	ND		0.100	0.103		n	ng/L		103	91 - 112	0	20
Lab Sample ID: 280-17003	0-1 DU							Clie	ent Sam	nole ID: Ol	UTFAL	L-001
Matrix: Water										Prep Type	e: Diss	solved
Analysis Batch: 596037												
	Sample Sar	nple		DU	DU							RPD
Analyte	Result Qua	alifier		Result	Qualif	fier L	Jnit	D			RPD	Limit
Chromium, hexavalent	ND			ND		n	ng/L				NC	20
Method: SM 4500 H+ B	- pH											
Lab Sample ID: LCS 290 E	06452/5						Clie	at Sa	mala ID		trol S	omnlo
Lab Sample ID: LCS 200-5	90152/5						Cile	nt Sai	npie iD	Dron Tu		
Matrix: Water										Prep Ty	pe: Io	tal/NA
Analysis Batch: 596152			0	1.00	1.00					0/ D = =		
Analyta			Spike	LUS	LUS	6 I	l		% D = =	%Rec		
Analyte				Result	Quain				%Rec			
pH adj. to 25 deg C			7.00	7.1		2	50		101	99 - 101		
Method: SM 4500 S2 D	- Sulfide, To	tal										
Lab Comple ID: MD 280 50	6090/44										athad	Blank
Lab Sample ID: WB 200-59	0000/11							CIIE	ant San			
Matrix. Water										Prep Ty	pe. 10	lai/NA
Analysis Batch: 596060												
	MD	MD										
Amaluán	MB	MB		Ы		1			venered	Anoly		
Analyte	MB Result	MB Qualifier	0	RL 050	$\frac{MDL}{1022} \frac{U}{m}$	Jnit	[<u> </u>	repared	Analyz	zed	Dil Fac
Analyte Sulfide	MB Result ND	MB Qualifier	0.	RL 050 0	MDL <u>U</u> 0.022 m	Jnit ng/L	[<u> </u>	repared	Analyz	zed 15:20	Dil Fac 1
Analyte Sulfide	MB Result ND 96080/9	MB Qualifier	0.	RL 050 0	MDL U	Jnit ng/L	[D P	repared	Analyz 12/08/22	zed 15:20	Dil Fac 1
Analyte Sulfide Lab Sample ID: LCS 280-55 Matrix: Water	MB Result ND 96080/9	MB Qualifier	0.	RL 050 0	MDL U	Jnit ng/L	Clie	<u>)</u> P nt Sai	repared mple ID	Analyz 12/08/22 : Lab Cor Prep Ty	trol Sape: To	Dil Fac 1 ample tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-59 Matrix: Water Analysis Batch: 596080	MB Result ND 96080/9	MB Qualifier	0.	RL 050 0	MDL U	Jnit ng/L	Clie	D P	repared mple ID	Analyz 12/08/22 D: Lab Cor Prep Ty	ntrol Sape: To	Dil Fac 1 ample tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-59 Matrix: Water Analysis Batch: 596080	MB Result ND 96080/9	MB Qualifier	0.	RL 050 0	MDL U 0.022 m	Jnit ng/L	Clie	<u>P</u> nt Sai	repared mple ID	Analyz 12/08/22 C: Lab Cor Prep Ty %Rec	trol Sape: To	Dil Fac 1 ample tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-59 Matrix: Water Analysis Batch: 596080 Analyte	MB <u>Result</u> ND 96080/9	MB Qualifier	O. Spike	RL 050 0 LCS Result	MDL U 0.022 n LCS Qualif	Jnit ng/L		D P nt Sai	repared mple ID %Rec	Analyz 12/08/22 2: Lab Cor Prep Ty %Rec Limits	ntrol Sape: To	Dil Fac 1 ample tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-59 Matrix: Water Analysis Batch: 596080 Analyte Sulfide	MB <u>Result</u> ND 96080/9	MB Qualifier	Spike Added 0.499	RL 050 0 LCS Result 0.497	MDL U 0.022 n LCS Qualif	Jnit ng/L	Clier Jnit	<u>D</u> P nt Sar	mple ID	Analyz 12/08/22 2: Lab Cor Prep Ty %Rec Limits 81 - 122	trol Sape: To	Dil Fac 1 ample tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-59 Matrix: Water Analysis Batch: 596080 Analyte Sulfide	MB Result ND 96080/9	MB Qualifier	Spike Added 0.499	RL 050 0 LCS Result 0.497	MDL U 0.022 n LCS Qualif	Jnit ng/L fier L	Clier Jnit ng/L	D P nt Sar	mple ID %Rec 100	Analyz 12/08/22 2: Lab Cor Prep Ty %Rec Limits 81 - 122	2ed 15:20 htrol Sa pe: To	Dil Fac 1 ample tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280-	MB Result ND 96080/9 	MB Qualifier	0. Spike Added 0.499	RL 050 0 LCS Result 0.497	MDL U 0.022 n LCS Qualif	Jnit ng/L fier L n	Clier Jnit ng/L ent Sa	D <u>P</u> nt Sar D 	mple ID %Rec 100 ID: Lat	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122	ntrol Sape: To	Dil Fac 1 ample tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water	MB Result ND 96080/9	MB Qualifier	0. Spike Added 0.499	RL 050 0 LCS Result 0.497	MDL U 0.022 n LCS Qualif	Jnit ng/L fier L r Cli	Clier Jnit ng/L ent Sa	D <u>P</u> nt Sar D mple	mple ID %Rec 100 ID: Lat	Analyz 12/08/22 2: Lab Cor Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty	atrol Sampl Sample: To	Dil Fac 1 ample tal/NA e Dup tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080	MB Result ND 96080/9	MB Qualifier	0. Spike Added 0.499	RL 050 0 LCS Result 0.497	MDL U .022 n LCS Qualif	Jnit ng/L fier L n Cli	Clier Dnit ng/L ent Sa	D P nt Sar D mple	mple ID %Rec 100 ID: Lat	Analyz 12/08/22 2: Lab Cor Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty	atrol Sape: To Sample: To	Dil Fac 1 ample tal/NA e Dup tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080	MB Result ND 96080/9	MB Qualifier	Spike Added 0.499	RL 0 050 0 LCS Result 0.497	MDL U .022 n LCS Qualif	Jnit ng/L fier <u>r</u> Cli	Clier Jnit ng/L ent Sa	D <u>P</u> nt Sar D mple	mple ID %Rec 100 ID: Lat	Analyz 12/08/22 2: Lab Cor Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec	red 15:20 htrol Sa pe: To Sampl pe: To	Dil Fac 1 ample tal/NA e Dup tal/NA RPD
Analyte Sulfide Lab Sample ID: LCS 280-59 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte	MB Result ND 96080/9	MB Qualifier	Spike Added 0.499 Spike Added	RL 050 LCS Result 0.497 LCSD Result	LCS Qualif	Jnit ng/L fier L fier L	I Clien Jnit ng/L ent Sa Jnit	D P nt Sar D mple	repared mple ID <u>%Rec</u> 100 ID: Lat	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec Limits	red 15:20 pe: To Sampl pe: To RPD	Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit
Analyte Sulfide Lab Sample ID: LCS 280-59 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte Sulfide	MB Result ND 96080/9 	MB Qualifier	Spike Added 0.499 Spike Added 0.499	RL 050 0 LCS Result 0.497 LCSD Result 0.527	LCS Qualif	Jnit ng/L fier L fier L	Unit Jnit ng/L ent Sa Jnit ng/L	D P nt Sar _ D mple _ D	mple ID %Rec 100 ID: Lak	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec Limits 81 - 122	2ed 15:20 ntrol Sa pe: Tor Sampl pe: Tor (RPD 6	Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte Sulfide Method: SM4500 S2 H -	MB Result ND 96080/9 	MB Qualifier	Spike Added 0.499 Spike Added 0.499	RL 0 050 0 LCS Result 0.497 0.497 LCSD Result 0.527 0.527	LCS Qualif	Jnit ng/L fier L fier L	Unit Dnit ng/L ent Sa Jnit ng/L	D P nt Sar _ D mple _ D	mple ID %Rec 100 ID: Lak	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec Limits 81 - 122	2ed 15:20 ntrol Sa pe: To Sampl pe: To 6	Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 <u>Analyte</u> Sulfide Method: SM4500 S2 H -	MB Result ND 96080/9 	MB Qualifier	Spike Added 0.499 Spike Added 0.499	RL 050 0 050 0 0 LCS Result 0.497 LCSD Result 0.527 de 0.527 0	LCS Qualif	Jnit ng/L fier L fier L	Jnit ng/L ent Sa Jnit ng/L	D P nt Sar _ D mple	mple ID %Rec 100 ID: Lak <u>%Rec</u> 106	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 5 Control S Prep Ty %Rec Limits 81 - 122	2ed 15:20 ntrol Sa pe: Tor Sampl pe: Tor (RPD) 6	Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte Sulfide Method: SM4500 S2 H - Lab Sample ID: MB 280-59	MB Result ND 96080/9 	MB Qualifier	Spike Added 0.499 Spike Added 0.499	RL 050 0 050 0 0 LCS Result 0.497 LCSD Result 0.527 de 0 0	LCS Qualif	Jnit ng/L fier L fier L	Jnit ng/L ent Sa Jnit ng/L	D P nt Sar _ D mple _ D Clie	mple ID %Rec 100 ID: Lat %Rec 106 ent Sam	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec Limits 81 - 122	red 15:20 htrol Sa pe: To Sampl pe: To RPD 6 ethod	Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 Blank
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte Sulfide Method: SM4500 S2 H - Lab Sample ID: MB 280-59 Matrix: Water	MB Result ND 96080/9 	MB Qualifier	0. Spike Added 0.499 Spike Added 0.499 n Sulfi	RL 050 0 050 0 0 LCS Result 0.497 LCSD Result 0.527 de 0 0.527	MDL U .022 n LCS Qualif	Jnit ng/L fier L fier L	Unit Jnit ng/L ent Sa	D P nt Sar D mple D Clie	mple ID %Rec 100 ID: Lat %Rec 106 ent Sam	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec Limits 81 - 122	2ed 15:20 atrol Sa pe: To Sampl pe: To 6 ethod pe: To	Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 Blank tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte Sulfide Method: SM4500 S2 H - Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596588	MB Result ND 96080/9 	MB Qualifier	Spike Added 0.499 Spike Added 0.499 n Sulfi	RL 050 0 050 0 0 LCS Result 0.497 LCSD Result 0.527 de 0 0	MDL U .022 n LCS Qualif	Jnit ng/L fier L fier L	Unit ng/L ant Sa Jnit ng/L	D P nt Sar _ D mple _ D Clie	mple ID %Rec 100 ID: Lat %Rec 106 ent Sam	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec Limits 81 - 122	red 15:20 atrol Sa pe: Tor Sampl pe: Tor (RPD 6 ethod pe: Tor	Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 Blank tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte Sulfide Method: SM4500 S2 H - Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596588	MB Result ND 96080/9 	MB Qualifier	Spike Added 0.499 Spike Added 0.499 n Sulfi	RL 050 0 050 0 0 LCS Result 0.497 LCSD Result 0.527 de 0 0	MDL U .022 n LCS Qualif	Jnit ng/L fier L fier L	Clier Jnit ng/L ent Sa Jnit ng/L	D P nt Sar _ D mple _ D Clie	mple ID %Rec 100 ID: Lat %Rec 106 ent Sam	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 0 Control 3 Prep Ty %Rec Limits 81 - 122	ethod	Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 Blank tal/NA
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte Sulfide Method: SM4500 S2 H - Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596588 Analyte	MB Result ND 96080/9 	MB Qualifier	Spike Added 0.499 Spike Added 0.499	RL 0 050 0 LCS Result 0.497 0.497 LCSD Result 0.527 0 de 0	MDL U .022 n LCS Qualif	Jnit ng/L fier L fier L	Unit ng/L ent Sa Jnit ng/L	D P	repared mple ID <u>%Rec</u> 100 ID: Lat <u>%Rec</u> 106	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 5 Control S Prep Ty %Rec Limits 81 - 122 5 Control S Prep Ty %Rec Limits 81 - 122	2ed 15:20 ntrol Sa pe: Tor Sampl pe: Tor 6 ethod pe: Tor 2ed	Dil Fac
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte Sulfide Method: SM4500 S2 H - Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596588 Analyte Un-ionized Hydrogen Sulfide	MB Result ND 96080/9 -596080/10 -5960	MB Qualifier Hydroge MB Qualifier	Spike Added 0.499 Spike Added 0.499	RL 0 050 0 LCS Result 0.497 0.497 LCSD Result 0.527 0.527 de 1.0	MDL U .022 n LCS Qualif Qualif	Jnit ng/L fier L fier L n Jnit ng/L	Unit ng/L ent Sa Jnit ng/L	D P nt Sar D mple D Clie	repared mple ID %Rec 100 ID: Lak %Rec 106	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec Limits 81 - 122	2ed 15:20 ntrol Sa pe: Tor Sampl pe: Tor (RPD 6 ethod pe: Tor 2ed 17:23	Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 Blank tal/NA Dil Fac 1
Analyte Sulfide Lab Sample ID: LCS 280-53 Matrix: Water Analysis Batch: 596080 Analyte Sulfide Lab Sample ID: LCSD 280- Matrix: Water Analysis Batch: 596080 Analyte Sulfide Method: SM4500 S2 H - Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 596588 Analysis Batch: 596588 Analyte Un-ionized Hydrogen Sulfide Field pH	MB Result ND 96080/9 	MB Qualifier	Spike Added 0.499	RL 0 050 0 LCS Result 0.497 0.497 LCSD Result 0.527 0.527 de 1.0 1.0 1.0	MDL U .022 n LCS Qualif MDL U 1.0 n 1.0 S	Jnit ng/L fier L fier L n fier L n fier SU	Jnit ng/L ent Sa Jnit ng/L	D P nt Sar D D mple D D Clie	repared mple ID %Rec 100 ID: Lak %Rec 106	Analyz 12/08/22 2: Lab Corr Prep Ty %Rec Limits 81 - 122 0 Control S Prep Ty %Rec Limits 81 - 122 0 Control S 0 Contro	zed 15:20 ntrol Sape: Tor Sampl pe: Tor RPD 6 ethod pe: Tor 17:23 17:23	Dil Fac ample tal/NA e Dup tal/NA RPD Limit 10 Blank tal/NA Dil Fac 1 1

Method: SM4500 S2 H - Unionized Hydrogen Sulfide (Continued)

Lab Sample ID: MB 280-596588/1 Matrix: Water Analysis Batch: 596588							Client Sam	ple ID: Methoo Prep Type: To	l Blank otal/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			12/13/22 17:23	1
Sulfide	ND		4.0	4.0	mg/L			12/13/22 17:23	1

QC Association Summary

Job ID: 280-170030-1

Metals

Filtration Batch: 596256

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-596256/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-596256/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
Prep Batch: 596318					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-596318/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-596318/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-596318/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
Prep Batch: 596370					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-596370/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-596370/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-170030-1 MS	OUTFALL-001	Total/NA	Water	245.1	
280-170030-1 MSD	OUTFALL-001	Total/NA	Water	245.1	
Prep Batch: 596402					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	596256
MB 280-596256/1-B	Method Blank	Potentially Dissolvec	Water	200.8	596256
LCS 280-596256/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	596256
Prep Batch: 596499					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Total Recoverable	Water	200.7	
MB 280-596499/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-596499/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
Analysis Batch: 596	619				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Total Recoverable	Water	200.8	596318
MB 280-596318/1-A	Method Blank	Total Recoverable	Water	200.8	596318
LCS 280-596318/2-A	Lab Control Sample	Total Recoverable	Water	200.8	596318
LCSD 280-596318/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	596318
Analysis Batch: 596	650				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Total/NA	Water	245.1	596370
MB 280-596370/1-A	Method Blank	Total/NA	Water	245.1	596370
LCS 280-596370/2-A	Lab Control Sample	Total/NA	Water	245.1	596370
280-170030-1 MS	OUTFALL-001	Total/NA	Water	245.1	596370
280-170030-1 MSD	OUTFALL-001	Total/NA	Water	245.1	596370
Analysis Batch: 596	725				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Iotal Recoverable	vvater	200.8	596318

QC Association Summary

Job ID: 280-170030-1

10

Metals

Analysis Batch: 596874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	596499
MB 280-596499/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	596499
LCS 280-596499/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	596499
Analysis Batch: 5969	20				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	596402
MB 280-596256/1-B	Method Blank	Potentially Dissolvec	Water	200.8	596402
LCS 280-596256/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	596402
Analysis Batch: 5969	171				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	596402
MB 280-596256/1-B	Method Blank	Potentially Dissolvec	Water	200.8	596402
LCS 280-596256/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	596402
Prep Batch: 604622					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Total/NA	Water	1631E	
MB 400-604622/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-604622/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-604622/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
Analysis Batch: 6047	'17				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Total/NA	Water	1631E	604622
MB 400-604622/3-A	Method Blank	Total/NA	Water	1631E	604622
LCS 400-604622/4-A	Lab Control Sample	Total/NA	Water	1631E	604622
LCSD 400-604622/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	604622
General Chemistr	<u>v</u>				
	J				

Filtration Batch: 596017

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-596017/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-596017/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-596017/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-170030-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-170030-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-170030-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 596037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	596017
280-170030-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-596017/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	596017
MB 280-596037/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-596017/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	596017
LCS 280-596037/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-596017/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	596017

Lab Sample ID

LCSD 280-596037/9

280-170030-1 MS

280-170030-1 MS

280-170030-1 MSD

280-170030-1 MSD

280-170030-1 DU

280-170030-1 DU

Lab Sample ID 280-170030-1

MB 280-596061/5

LCS 280-596061/4

280-170030-1 DU

Lab Sample ID

MB 280-596080/11

LCS 280-596080/9

Lab Sample ID

LCS 280-596152/5

280-170030-1

LCSD 280-596080/10

280-170030-1

Analysis Batch: 596061

Analysis Batch: 596080

General Chemistry (Continued)

Client Sample ID

OUTFALL-001

OUTFALL-001

OUTFALL-001

OUTFALL-001

OUTFALL-001

OUTFALL-001

Client Sample ID

Lab Control Sample

Client Sample ID

Lab Control Sample

Client Sample ID

Lab Control Sample

OUTFALL-001

Lab Control Sample Dup

OUTFALL-001

Method Blank

OUTFALL-001

Method Blank

OUTFALL-001

Lab Control Sample Dup

Analysis Batch: 596037 (Continued)

Prep Type	Matrix	Method	Prep Batch	
Total/NA	Water	SM 3500 CR B		
Dissolved	Water	SM 3500 CR B	596017	5
Total/NA	Water	SM 3500 CR B		
Dissolved	Water	SM 3500 CR B	596017	
Total/NA	Water	SM 3500 CR B		
Dissolved	Water	SM 3500 CR B	596017	
Total/NA	Water	SM 3500 CR B		
				8
Prep Type	Matrix	Method	Prep Batch	9
Total/NA	Water	SM 2510B		
Total/NA	Water	SM 2510B		10
Total/NA	Water	SM 2510B		
Total/NA	Water	SM 2510B		
Prep Type	Matrix	Method	Prep Batch	
Total/NA	Water	SM 4500 S2 D		12
Total/NA	Water	SM 4500 S2 D		
Total/NA	Water	SM 4500 S2 D		
Total/NA	Water	SM 4500 S2 D		
Prep Type	Matrix	Method	Prep Batch	
Total/NA	Water	SM 4500 H+ B		
Total/NA	Water	SM 4500 H+ B		
	Total/NA Dissolved Total/NA Dissolved Total/NA Dissolved Total/NA Dissolved Total/NA Dissolved Total/NA Prep Type Total/NA Total/NA	Total/NA Water Dissolved Water Total/NA Water Total/NA Water Dissolved Water Dissolved Water Total/NA Water Dissolved Water Total/NA Water Dissolved Water Total/NA Wa	Total/NAWaterSM 3500 CR BDissolvedWaterSM 3500 CR BTotal/NAWaterSM 3500 CR BDissolvedWaterSM 3500 CR BDissolvedWaterSM 3500 CR BTotal/NAWaterSM 3500 CR BDissolvedWaterSM 3500 CR BDissolvedWaterSM 3500 CR BDissolvedWaterSM 3500 CR BDissolvedWaterSM 3500 CR BTotal/NAWaterSM 3500 CR BTotal/NAWaterSM 2510BTotal/NAWaterSM 2510BTotal/NAWaterSM 2510BTotal/NAWaterSM 2510BTotal/NAWaterSM 4500 S2 DTotal/NAWaterSM 4500 H+ BTotal/NAWaterSM 4500 H+ BTotal/NAWater <td>Total/NAWaterSM 3500 CR BTotal/NAWaterSM 3500 CR B596017DissolvedWaterSM 3500 CR B596017Total/NAWaterSM 2510BPrep BatchTotal/NAWaterSM 2510BPrep BatchTotal/NAWaterSM 2510BPrep BatchTotal/NAWaterSM 2510BPrep BatchTotal/NAWaterSM 4500 S2 DPrep BatchTotal/NAWaterSM 4500 S2 DPrep BatchTotal/NAWaterSM 4500 S2 DTotal/NAWaterSM 4500 S2 DTotal/NAWaterTotal/NAWaterSM 4500 S2 DPrep BatchTotal/NAWaterSM 4500 S2 DPrep BatchTotal/NAWaterSM 4500 H+ BPrep BatchTotal/NAWater</td>	Total/NAWaterSM 3500 CR BTotal/NAWaterSM 3500 CR B596017DissolvedWaterSM 3500 CR B596017Total/NAWaterSM 2510BPrep BatchTotal/NAWaterSM 2510BPrep BatchTotal/NAWaterSM 2510BPrep BatchTotal/NAWaterSM 2510BPrep BatchTotal/NAWaterSM 4500 S2 DPrep BatchTotal/NAWaterSM 4500 S2 DPrep BatchTotal/NAWaterSM 4500 S2 DTotal/NAWaterSM 4500 S2 DTotal/NAWaterTotal/NAWaterSM 4500 S2 DPrep BatchTotal/NAWaterSM 4500 S2 DPrep BatchTotal/NAWaterSM 4500 H+ BPrep BatchTotal/NAWater

Analysis Batch: 596513

Analysis Batch: 596152

Lab Sample ID 280-170030-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
MB 280-596513/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-596513/1	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 596588

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
280-170030-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	
MB 280-596588/1	Method Blank	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 597379

Lab Sample ID 280-170030-1	Client Sample ID OUTFALL-001	Prep Type Total Recoverable	Prep Type Matrix Total Recoverable Water		Prep Batch	
Analysis Batch: 59	97380					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	

280-170030-1

OUTFALL-001

Potentially Dissolvec Water

SM3500 CR B

Job ID: 280-170030-1

Client Sample ID: OUTFALL-001 Date Collected: 12/07/22 12:00 Date Received: 12/07/22 16:02

Lab Sample ID: 280-170030-1 Matrix: Water

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	604622	12/09/22 16:25	VLC	EET PEN
							Completed:	12/12/22 09:30	1	
Total/NA	Analysis	1631E		1			604717	12/13/22 10:56	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	596499	12/13/22 11:29	PFM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			596874	12/15/22 00:26	KRP	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			200 mL	200 mL	596256	12/09/22 21:00	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	596402	12/14/22 08:15	PFM	EET DEN
Potentially Dissolvec	Analysis	200.8		1			596920	12/15/22 17:00	LMT	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			200 mL	200 mL	596256	12/09/22 21:00	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	596402	12/14/22 08:15	PFM	EET DEN
Potentially Dissolvec	Analysis	200.8		1			596971	12/16/22 11:37	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	596318	12/13/22 08:13	PFM	EET DEN
Total Recoverable	Analysis	200.8		1			596725	12/14/22 15:25	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	596318	12/13/22 08:13	PFM	EET DEN
Total Recoverable	Analysis	200.8		1			596619	12/13/22 17:53	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	596370	12/12/22 18:15	KMS	EET DEN
Total/NA	Analysis	245.1		1			596650	12/13/22 17:19	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			596061	12/08/22 13:55	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	596513	12/13/22 11:55	ASP	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	596017	12/08/22 09:54	LRB	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	596037	12/08/22 10:52	LRB	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	596037	12/08/22 11:03	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			596152	12/08/22 14:31	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	596080	12/08/22 15:51	SJD	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			597380	12/20/22 17:24	DNM	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			597379	12/20/22 17:22	DNM	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			596588	12/13/22 17:23	ZPM	EET DEN

Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-170030-1

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
Wisconsin	State	999615430	08-31-23

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23

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

12 13

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-170030-1

Laboratory: Eurofins Pensacola (Continued)

Authority	Program	Identification Number	Expiration Date	
Kentucky (UST)	State	53	06-30-23	
Kentucky (WW)	State	KY98030	12-31-22	
Louisiana (All)	NELAP	30976	06-30-23	
Louisiana (DW)	State	LA017	12-31-22	
Maryland	State	233	09-30-23	
Michigan	State	9912	06-30-23	
North Carolina (WW/SW)	State	314	12-31-22	
Oklahoma	NELAP	9810	08-31-23	
Pennsylvania	NELAP	68-00467	01-31-23	
South Carolina	State	96026	06-30-23	
Tennessee	State	TN02907	06-30-23	
Texas	NELAP	T104704286	09-30-23	
US Fish & Wildlife	US Federal Programs	A22340	06-30-23	
USDA	US Federal Programs	P330-21-00056	05-17-24	
Virginia	NELAP	460166	06-14-23	
West Virginia DEP	State	136	03-31-23	

Eurofins TestAmerica, Denver	Chain of Cu	stody Rec	ord		🐝 eurofins	Environment Testing America
Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171						
Client Information	^{Sampler:} BM	Lab PM: Bieniulis	, Dylan T	r Tracking No(s):	COC No:	
Client Contact Patrick Delaney	Phone: 303-506-1	0 (8 Dylan.Bi	State eniulis@Eurofinset.com	of Origin:	Page:	
Company: Grand Island Resources	PWSID:		Analysis Reques	ted	Job #:	
Address: 12567 West Cedar Road Suite 250	Due Date Requested:			Lenu	Preservation Coc	des: M - Herane
City: Lakewood	TAT Requested (days):		H_002H FE() an Desired	neM br	B - NaOH C - Zn Acetate	N - None 0 - AsNaO2
State, Zip. CO, 80466	Compliance Project: Δ Yes Δ No		s, sm4 аlent C В FILT I - Unio	to tied is eleta	E - NaHSO4	P - Na204S Q - Na2SO3 B M25503
Phone: 315-414-6986	Po#: Advance Payment Required	(c	27 - 00 Cr (LA cr (LA salc) H_S2_0 M_J) (First M elds	G - Amchlor H - Ascorbic Acid	N - Na23203 S - H2SO4 T - TSP Dodecahydrate
Email: pdelaney@blackfoxmining.com	WO #	or N	و، ۲54(۳۲ Cr ai nt Cr ai nt Cr (ر ۲00	Metals ecover it list)	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821	e (Xes	es of l (: :) :) :) :) :) :) :)	bevios otal Ro mneq r	r - EDA L - EDA	vv - рп 4-э Z - other (specify)
First half of the month event + QUONTENTY LL HO	SSOW#:	Iqms2	Y) G2 Condi Seolvei Condi C	IIy Diss 46.1 - T throm (of other:	
	Sample Type Sample (C=comp	Matrix (w=water, s=solid, 0=waster/old	M/2M model 1	61705001 - 8.1 (1sil 1im 7, 7, 2005 / 2. 901 10 11sd 1s 1sd 10 11sd 1s	al Number	
Sample Identification	Sample Date Time G=grab	BT=Tissue, A=Air)		1(Eit ber ber ber	P Special Ir	nstructions/Note:
OUTFALL-001	00:2122/E/21	N N		× ×	*First half of the m metals permit list Pb, Mn, Ni, Se, A	ronth potentially dissolved = 200.8 (As, Cd, Cr, Cu, g, Zn)
					*First half of the n	nonth total recoverable
					Cd, Cr, Cu, Pb, Z	= 200.7 (Fe), 200.8 (As, n), and 245.1 (Hg)
					inge gelaninker -	
					CUW EVE	120
					.tem	<u>)=4vC</u>
			280-170030 Chain of Custody		PH-	t Ů
					iam gar naturi a	
Possible Hazard Identification	oison B Unknown Radiologic	al	Sample Disposal (A fee may be asses	sed if samples are retai	ined longer than r	1 month) Months
Deliverable Requested: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements:			
Empty Kit Relinquished by:	Date:	Tir	ne:	Method of Shipment:		
Relinquistnad-top:	Date/Time: 1217 12022 16:02	Company	Received by: CMM	CI Guillen	209/2	company DC-1
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:		Company
Custody Seals Intact: Custody Seal No.: ∆ Yes ∆ No			Cooler Temperature(s) °C and Other Remarks	AN Zors	H17 Q	FO. C
			• • •			Ver: 01/16/2019
			10 11 12 13	7 8 9	5 6	

12/21/2022

Page 26 of 31

Eurofins Denver						
4955 Yarrow Street Arvada, CO 80002 Dhone: 303.736 0100 Eav. 303.131.7171	Chain o	f Custody Re	cord		😴 eurofins	Environment Testing
Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bieniuli	s, Dvlan T	Carrier Tracking No(s):	COC No: 280-638886.1	
Client Contact: Shinnin/Deconition	Phone:	E-Mail:		State of Origin:	Page:	
Company: Company: Errorfoo Fraironnoot Todito Construction			reditations Required (See note):		Job #:	
Euroinis Environment resung sourneast, Address	Due Date Beaucread.				280-170030-1	
3355 McLemore Drive,	12/21/2022		Analysis Re	guested	Preservation Codes	s: M - Hexane
City: Pensacola	TAT Requested (days):				B - NGCH B - NaOH C - 7n Acetate	N - None O - AsNaO2
State, Zp. ,	1	``			E - NaHSO4	P - Na204S Q - Na2SO3 R - Na2S2O3
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:				F - MeOH G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email:	MO #;	OF No			I - Ice J - Di Water	U - Acetone V - MCAA
Project Name: Nederland, CO	Project #: 28022821	сэ д) (1 10 s		K - EDTA L - EDA	Y - Trizma Z - other (specify)
Site:	SSOW#:	alqms:	eb SD (Xe	o foon	Other:	
Samnle Identification - Client ID (Lah ID)	Sample Cate	Sample Matrix e Type (w=water, i S=solid, i C=comp, o=wateroid, i	96150112 אפולארא אלאא 15315-Pr	: : : : : : : : : :		
		Preservation Code: X				ructions/mole.
OUTFALL-001 (280-170030-1)	12/7/22 12:00 Mountain	Water	×			
Note: Since laboratory accreditations are subject to change, Eurofins TestAmei	rica places the ownership of method, ana	lyte & accreditation compliance	upon our subcontract laboratories. This san	nple shipment is forwarded under chain-o	f-custody. If the laborato	ry does not currently
maintain accreditation in the State of Origin listed above for analysis/lests/matr TestAmerica attention immediately. If all requested accreditations are current.	rix being analyzed, the samples must be s to date, return the signed Chain of Custoc	shipped back to the Eurofins Tes dy attesting to said compliance to	tAmerica laboratory or other instructions will Eurofins TestAmerica.	I be provided. Any changes to accreditati	ion status should be brou	ght to Eurofins
Possible Hazard Identification			Sample Disposal (A fee may be	assessed if samples are retain	ed longer than 1 m	ionth)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Return 10 Unent Special Instructions/QC Requireme	Uisposai by Lab Aro ents:	nive For	Months
Empty Kit Relinquished by:	Date:	Tir	ne:	Method of Shipment:		
Relinquished by:	Date/Time: Date/Time: 10 10 10	Company 25	Received by:	Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:	- Daterringe: 20	Ogia)	Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No		•	Cooler Temperature(s) ^o C and Other F	temarks: 1, しこ28	-	
	•				r	Ver: 06/08/2021
	5 5		11 12 13	7 8 9 10	5 6	2 3 4

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Eurofins Denver 4955 Yarrow Street	Chain of Cu	stody Red			s eurofins	
Arvada, CO 80002 Phone: 303-736-0100 Fax: 303-431-7171			500	<u>10101</u>		Environment Testing
Client Information (Sub Contract Lab)	Sampler.	Lab PM: Bieniulis	, Dylan T	Carrier Tracking No(s):	COC No: 280-638886.1	
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dylan.Bî	eniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1	
Company: Eurofins Environment Testing Southeast,		Acc	reditations Required (See note):		Job #: 280-170030-1	
Address: 3355 McLemore Drive,	Due Date Requested: 12/21/2022		Analysis Re	aquested	Preservation Coc	les: M - Hexane
City: Pensacola	TAT Requested (days):				A - HCL B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: FL, 32514	T				D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3 R - Na2S2O3
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO#:	(F - MeOH G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email:	;# OM	OL NO	(0)	aduated (1977)	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Nederland, CO	Project #: 28022821	səY) e	er or h	tainer t	K - EDTA L - EDA	Y - Trizma Z - other (specify)
Site:	SSOW#:	Idmes	də də	of con	Other:	
	Sample Type Sample (C=comp.	Matrix (W=water, S=solid, O=waste/oil, eld	31E/1631E_Pr	nadmuM Ist		
Sample Identification - Client IJ (Lab IJ)	Sample Date Time G=grab)	ation Code' X			Special In	structions/Note:
OUTFALL-001 (280-170030-1)	12/7/22 12:00 Mountain	Water	×			
) 						

Note: Since laboratory accreditations are subject to change, Eurofins TestAmeric maintain accreditation in the State of Origin listed above for analysis/tests/matrix TestAmerica attention immediately. If all requested accreditations are current to	ca places the ownership of method, analyte & acord theing analyzed, the samples must be shipped bac to date, return the signed Chain of Custody attesting	editation compliance uk to the Eurofins Test to said compliance to	pon our subcontract laboratories. This sar America laboratory or other instructions will Eurofins TestAmerica	ple shipment is forwarded under chain-of-of- be provided. Any changes to accreditation	custody. If the labor n status should be br	atory does not currently ought to Eurofins
Possible Hazard Identification			Sample Disposal (A fee may be	assessed if samples are retained	ed longer than 1	month)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Special Instructions/QC Requirem	Disposal By Lab Archiv ents:	ive For	Months
Emoty Kit Relinguished by:	Date.			Method of Shinment		
Relinquished by:	Date/Time: #	Company	IG. Ranaiyad hyr			Commond
lat the	12/8/22 15:35	F 7402	iveceived by.			Company
	Date/Time:	Company	Received by:	Date/Time:		Company
C/ 1 Relinquished by:	Date/Time:	Company	Received by:	Date Ting: 20	Ogian	Company
Custody Seals Intact: Custody Seal No.: ∆ Yes ∆ No			Cooler Temperature(s) ^o C and Other F	temarks: 1, 6 2, 28		
						Ver: 06/08/2021
			12 13 14	7 8 9 10	-5 6	

12/21/2022



Client: GS Mining Company LLC

Login Number: 170030 List Number: 1 Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
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.	False	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 280-170030-1

List Source: Eurofins Denver

Client: GS Mining Company LLC

Login Number: 170030 List Number: 2 Creator: Roberts, Alexis J

Job Number: 2	280-170030-1
---------------	--------------

List Source: Eurofins Pensacola

List Creation: 12/09/22 03:32 PM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.6°C IR8
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	N/A	

True

True

N/A

<6mm (1/4").

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Delaney GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427 Generated 1/6/2023 4:11:52 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-170661-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002







Eurofins Denver

Job Notes

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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

B - 1

Generated 1/6/2023 4:11:52 PM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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Qualifiors

QC

RL RPD

TEF

TEQ

TNTC

RER

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Qualifiers		3
Metals	Qualifier Description	
<u> </u>		
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	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	6
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	

Job ID: 280-170661-1

Laboratory: Eurofins Denver

Narrative

Job ID: 280-170661-1

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Nederland, CO

Report Number: 280-170661-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

<u>RECEIPT</u>

The samples were received on 12/21/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-170661-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 01/04/2023.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-170661-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 12/29/2022 and analyzed on 12/30/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: OUTFALL-001

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.55	J	1.0	0.23	ug/L	1	_	200.8	Total
									Recoverable
Lead	0.60	J	1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Zinc	8.6	J	10	2.0	ug/L	1		200.8	Potentially
									Dissolved

Lab Sample ID: 280-170661-1

1 2 3 4 5 6 7 8 9 10 11 12

Client: GS Mining Company LLC Project/Site: Nederland, CO

	Hatha d Daarada daa	Destand	I I
Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Client: GS Mining Company LLC Project/Site: Nederland, CO

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-170661-1	OUTFALL-001	Water	12/20/22 01:00	12/21/22 12:15

Client: GS Mining Company LLC Project/Site: Nederland, CO

5

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-00 Date Collected: 12/20/22 01:00 Date Received: 12/21/22 12:15)1						Lab Sam	ple ID: 280-17 Matrix	0661-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		12/29/22 08:16	12/30/22 02:26	1
Lead	0.55	J	1.0	0.23	ug/L		12/29/22 08:16	12/30/22 02:26	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001 Date Collected: 12/20/22 01:00 Date Received: 12/21/22 12:15							Lab Sam	ple ID: 280-17 Matrix	'0661-1 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.088	ug/L		01/04/23 09:30	01/04/23 22:21	1
Copper	ND		2.0	0.71	ug/L		01/04/23 09:30	01/04/23 22:21	1
Lead	0.60	J	1.0	0.23	ug/L		01/04/23 09:30	01/04/23 22:21	1
Silver	ND		0.50	0.045	ug/L		01/04/23 09:30	01/04/23 22:21	1
Zinc	8.6	J	10	2.0	ug/L		01/04/23 09:30	01/04/23 22:21	1

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-597890/1-A

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 598360

Analysis Batch: 598136								Prep Batch:	597890
-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		12/29/22 08:16	12/30/22 00:38	1
Lead	ND		1.0	0.23	ug/L		12/29/22 08:16	12/30/22 00:38	1

Lab Sample ID: LCS 280-597890/2-A Matrix: Water Analysis Batch: 598136

Analysis Batch: 598136							Prep Ba	atch: 597890
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Copper	40.0	39.7		ug/L		99	90 - 115	
Lead	40.0	39.7		ug/L		99	88 - 115	

Lab Sample ID: MB 280-597996/1-E Matrix: Water Analysis Batch: 598553

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.088	ug/L		01/04/23 09:30	01/04/23 22:06	1
Copper	ND		2.0	0.71	ug/L		01/04/23 09:30	01/04/23 22:06	1
Lead	ND		1.0	0.23	ug/L		01/04/23 09:30	01/04/23 22:06	1
Silver	ND		0.50	0.045	ug/L		01/04/23 09:30	01/04/23 22:06	1
Zinc	ND		10	2.0	ug/L		01/04/23 09:30	01/04/23 22:06	1

Lab Sample ID: LCS 280-597996/2-E Matrix: Water

Analysis Batch: 598553

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved Prep Batch: 598360

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cadmium	40.0	40.7		ug/L		102	89 - 111	
Copper	40.0	40.5		ug/L		101	90 - 115	
Lead	40.0	40.9		ug/L		102	88 - 115	
Silver	40.0	41.5		ug/L		104	90 - 114	
Zinc	40.0	41.8		ug/L		105	88 - 115	

QC Association Summary

Job ID: 280-170661-1

Metals

Filtration Batch: 597682

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-170661-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	
Prep Batch: 597890					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170661-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-597890/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-597890/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
Filtration Batch: 597	/996				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-597996/1-E	Method Blank	Potentially Dissolvec	Water	FILTRATION	
LCS 280-597996/2-E	Lab Control Sample	Potentially Dissolvec	Water	FILTRATION	
Analysis Batch: 598	136				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170661-1	OUTFALL-001	Total Recoverable	Water	200.8	597890
MB 280-597890/1-A	Method Blank	Total Recoverable	Water	200.8	597890
LCS 280-597890/2-A	Lab Control Sample	Total Recoverable	Water	200.8	597890
Prep Batch: 598360					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-170661-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	597682
MB 280-597996/1-E	Method Blank	Potentially Dissolvec	Water	200.8	597996
LCS 280-597996/2-E	Lab Control Sample	Potentially Dissolvec	Water	200.8	597996

Analysis Batch: 598553

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-170661-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	598360
MB 280-597996/1-E	Method Blank	Potentially Dissolvec	Water	200.8	598360
LCS 280-597996/2-E	Lab Control Sample	Potentially Dissolvec	Water	200.8	598360

Job ID: 280-170661-1

Matrix: Water

Lab Sample ID: 280-170661-1

Client Sample ID: OUTFALL-001 Date Collected: 12/20/22 01:00 Date Received: 12/21/22 12:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	597682	12/23/22 15:30	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	598360	01/04/23 09:30	ADL	EET DEN
Potentially Dissolvec	Analysis	200.8		1			598553	01/04/23 22:21	LRD	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	597890	12/29/22 08:16	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			598136	12/30/22 02:26	LMT	EET DEN

Laboratory References:

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

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-170661-1

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
Wisconsin	State	999615430	08-31-23

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

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1/6/2023

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Client: GS Mining Company LLC

Login Number: 170661 List Number: 1 Creator: Scull, Jacob E

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 280-170661-1

List Source: Eurofins Denver

APPENDIX C SURFACE WATER ANALYTICAL RESULTS

APPENDIX C.1 OCTOBER 2022 SURFACE WATER ANALYTICAL RESULTS

🛟 eurofins

Environment Testing

ANALYTICAL REPORT

Eurofins Denver 4955 Yarrow Street Arvada, CO 80002 Tel: (303)736-0100

Laboratory Job ID: 280-168251-1

Client Project/Site: Wastewater Discharge - Nederland, CO

For:

GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427

Attn: Patrick Delaney

bla B- 1-

Authorized for release by: 11/7/2022 3:31:44 PM

Dylan Bieniulis, Project Manager I (303)736-0138 Dylan.Bieniulis@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Method Summary	9
Sample Summary	10
Client Sample Results	11
QC Sample Results	16
QC Association	25
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Certification Summary	32
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Definitions/Glossary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO Job ID: 280-168251-1

Qualifiers

PRES

QC RER

RL

RPD

TEF TEQ

TNTC

Presumptive Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Quaimers		3
Metals		
Qualifier	Qualifier Description	4
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.	5
General Che	emistry	
Qualifier	Qualifier Description	
Н	Sample was prepped or analyzed beyond the specified holding time	
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	O
¤	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	

CASE NARRATIVE

Project: Wastewater Discharge - Nederland, CO

Report Number: 280-168251-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/26/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.6 C.

2 extra low mercury kit containers were received for each sample listed on the chain of custody: 2022-02 (280-168251-1), 2022-02 (280-168251-2), 2022-02-DUPLICATE (280-168251-3). The extra set of containers for low level mercury analysis received for each sample were logged for storage but were not needed for analysis.

TOTAL RECOVERABLE METALS (ICP)

Client: GS Mining Company LLC

Job ID: 280-168251-1

Narrative

Laboratory: Eurofins Denver

Project/Site: Wastewater Discharge - Nederland, CO

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 10/28/2022 and analyzed on 10/29/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 11/02/2022.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Zinc failed the recovery criteria high for the MS and MSD of sample 2022-02 (280-168251-1) in batch 280-592167. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 10/27/2022 and analyzed on

Job ID: 280-168251-1

Eurofins Denver

11/7/2022

Job ID: 280-168251-1 (Continued)

Laboratory: Eurofins Denver (Continued)

10/28/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 11/01/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 11/03/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 11/03/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 10/31/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 11/01/2022.

For the following samples, the high quantity of solids in liquid matrix required use of less than nominal volume for method analysis: 2022-02 (280-168251-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 10/26/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 10/26/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 11/01/2022.

Sample 2022-02 (280-168251-1) did not equilibrate to within 0.05 pH units after three measurements but its duplicate did therefore the sample was not rerun.

Job ID: 280-168251-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 10/27/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 11/02/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Samples 2022-02 (280-168251-1), 2022-02-FB (280-168251-2) and 2022-02-DUPLICATE (280-168251-3) were analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 10/31/2022 and analyzed on 11/03/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

RL

0.50

100

2.0

1.0

10

2.0

1.0

2.0

10

2.0

4.0

0.1

1.0

1.0

1.0

2.0

MDL Unit

0.20 ng/L

9.1 ug/L

0.71 ug/L

0.23 ug/L

2.0 ug/L

0.71 ug/L

0.23 ug/L

0.51 ug/L

2.0 ug/L

1.1 mg/L

0.1 SU

1.0

1.0 SU

1.0

2.0 umhos/cm

Degrees C

Celsius

2.0 umhos/cm

Result Qualifier

2.8

49 J

1.4 J

0.86 J

5.2 J

1.0 J

0.89 J

3.5

23

7.2

8.1

22

23

14 F1

8.1 HF

22.2 HF

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Client Sample ID: 2022-02

Analyte

Mercury

Copper

Lead

Zinc

Copper

Lead

Zinc

Manganese

Specific Conductance

pH adj. to 25 deg C

Field Temperature

Specific Conductance

Client Sample ID: 2022-02-FB

Temperature

Field pH

Total Suspended Solids

Iron

Prep Type

Total/NA

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Potentially Dissolved

Potentially Dissolved

Potentially

Dissolved

Potentially Dissolved

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Lab Sample ID: 280-168251-1

Dil Fac D Method

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1631E

200.8

200.8

200.8

200.8

200.8

200.8

200.8

SM 2510B

SM 2540D

SM 4500 H+ B

SM 4500 H+ B

SM4500 S2 H

SM4500 S2 H

SM4500 S2 H

200.7 Rev 4.4

	5	5
	8	
	9	
		3

Lab Sample ID: 280-168251-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	22	J	100	9.1	ug/L	1	_	200.7 Rev 4.4	Total
									Recoverable
Zinc	34		10	2.0	ug/L	1		200.8	Potentially
									Dissolved
Specific Conductance	4.2		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	8.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.6	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	8.9		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	23		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	4.2		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02-DUPLICATE

Lab Sample ID: 280-168251-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	2.7		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	53	J	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.84	J	2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	0.83	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	5.3	J	10	2.0	ug/L	1		200.8	Total Recoverable
Copper	0.75	J	2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	0.90	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client Sample ID: 2022-02-DUPLICATE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	5.3		2.0	0.51	ug/L	1	_	200.8	Potentially
									Dissolved
Zinc	16		10	2.0	ug/L	1		200.8	Potentially
									Dissolved
Specific Conductance	220		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	1.6	J	4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH adj. to 25 deg C	8.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	23.0	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	8.3		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	23		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	220		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Job ID: 280-168251-1

Lab Sample ID: 280-168251-3

Method Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	рН	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-168251-1	2022-02	Water	10/26/22 13:00	10/26/22 15:42
280-168251-2	2022-02-FB	Water	10/26/22 13:10	10/26/22 15:42
280-168251-3	2022-02-DUPLICATE	Water	10/26/22 13:15	10/26/22 15:42

Client Sample Results

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO Job ID: 280-168251-1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: 2022-02 Date Collected: 10/26/22 13:00							Lab Sam	ole ID: 280-16 Matrix	58251-1 : Water	
Date Received: 10/26/22 15:42										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	2.8		0.50	0.20	ng/L		10/31/22 15:00	11/03/22 10:22	1	
Client Sample ID: 2022-02-FB							Lab Sam	ole ID: 280-16	68251-2	
Date Collected: 10/26/22 13:10								Matrix	: Water	
Date Received: 10/26/22 15:42										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	ND		0.50	0.20	ng/L		10/31/22 15:00	11/03/22 10:37	1	
Client Sample ID: 2022-02-DUPL	ICATE						Lab Sam	ole ID: 280-16	68251-3	
Date Collected: 10/26/22 13:15								Matrix	: Water	
Date Received: 10/26/22 15:42										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	2.7		0.50	0.20	ng/L		10/31/22 15:00	11/03/22 10:45	1	
Method: EPA 200.7 Rev 4.4 -	Metals	(ICP) - T	otal Recov	erable						
		(, .								
Client Sample ID: 2022-02							Lab Sam	ole ID: 280-16	68251-1	
Date Collected: 10/26/22 13:00								Matrix	: Water	
Date Received: 10/26/22 15:42										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Iron	49	J	100	9.1	ug/L		10/28/22 09:29	10/29/22 03:01	1	
Client Sample ID: 2022-02-FB Date Collected: 10/26/22 13:10							Lab Sample ID: 280-168251-2 Matrix: Water			
Date Received: 10/26/22 15:42										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Iron	22	J	100	9.1	ug/L		10/28/22 09:29	10/29/22 03:14	1	
Client Sample ID: 2022-02-DUPL Date Collected: 10/26/22 13:15	ICATE						Lab Sam	ole ID: 280-16 Matrix	58251-3 : Water	
Date Received: 10/26/22 15:42										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Iron	53	J	100	9.1	ug/L		10/28/22 09:29	10/29/22 03:18	1	
Method: EPA 200.8 - Metals	(ICP/MS	6) - Total	Recoverab	le						
	-						Lab Carry		0054 4	
Date Collected: 10/26/22 13:00								Matrix	: Water	
Date Received: 10/26/22 15:42										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	ND		5.0	0.50	ug/L		10/27/22 15:15	10/28/22 09:31	1	
Cadmium	ND		1.0	0.088	ug/L		10/27/22 15:15	10/28/22 09:31	1	
Chromium	ND		3.0	0.88	ug/L		10/27/22 15:15	10/28/22 09:31	1	
Copper	1.4	J	2.0	0.71	ug/L		10/27/22 15:15	10/28/22 09:31	1	
Lead	0.86	J	1.0	0.23	ug/L		10/27/22 15:15	10/28/22 09:31	1	
Zinc	5.2	J	10	2.0	ug/L		10/27/22 15:15	10/28/22 09:31	1	
Client Sample ID: 2022-02-FB Date Collected: 10/26/22 13:10							Lab Sam	ole ID: 280-16 Matrix	8251-2 : Water	

Date Received: 10/26/22 15:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/27/22 15:15	10/28/22 09:40	1
Client Sample Results

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: 2022-02-FB Date Collected: 10/26/22 13:10 Date Received: 10/26/22 15:42							Lab Sam	ole ID: 280-16 Matrix:	8251-2 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.088	ug/L		10/27/22 15:15	10/28/22 09:40	1
Chromium	ND		3.0	0.88	ug/L		10/27/22 15:15	10/28/22 09:40	1
Copper	ND		2.0	0.71	ug/L		10/27/22 15:15	10/28/22 09:40	1
Lead	ND		1.0	0.23	ug/L		10/27/22 15:15	10/28/22 09:40	1
Zinc	ND		10	2.0	ug/L		10/27/22 15:15	10/28/22 09:40	1
Client Sample ID: 2022-02-DUPLI Date Collected: 10/26/22 13:15 Date Received: 10/26/22 15:42	CATE						Lab Samı	ole ID: 280-16 Matrix:	8251-3 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/27/22 15:15	10/28/22 09:42	1
Cadmium	ND		1.0	0.088	ug/L		10/27/22 15:15	10/28/22 09:42	1
Chromium	ND		3.0	0.88	ug/L		10/27/22 15:15	10/28/22 09:42	1
Copper	0.84	J	2.0	0.71	ug/L		10/27/22 15:15	10/28/22 09:42	1
Lead	0.83	J	1.0	0.23	ug/L		10/27/22 15:15	10/28/22 09:42	1
Zinc	5.3	J	10	2.0	ug/L		10/27/22 15:15	10/28/22 09:42	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: 2022-02 Date Collected: 10/26/22 13:00

Date Received: 10/26/22 15:42

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/02/22 08:33	11/02/22 15:17	1
Cadmium	ND		1.0	0.088	ug/L		11/02/22 08:33	11/02/22 15:17	1
Chromium	ND		3.0	0.88	ug/L		11/02/22 08:33	11/02/22 15:17	1
Copper	1.0	J	2.0	0.71	ug/L		11/02/22 08:33	11/02/22 15:17	1
Lead	0.89	J	1.0	0.23	ug/L		11/02/22 08:33	11/02/22 15:17	1
Manganese	3.5		2.0	0.51	ug/L		11/02/22 08:33	11/02/22 15:17	1
Nickel	ND		2.0	0.28	ug/L		11/02/22 08:33	11/02/22 15:17	1
Selenium	ND		5.0	1.0	ug/L		11/02/22 08:33	11/02/22 15:17	1
Silver	ND		0.50	0.045	ug/L		11/02/22 08:33	11/02/22 15:17	1
Zinc	14	F1	10	2.0	ug/L		11/02/22 08:33	11/02/22 15:17	1

Client Sample ID: 2022-02-FB Date Collected: 10/26/22 13:10

Date Received: 10/26/22 15:42 Analyte **Result Qualifier** MDL Unit Dil Fac RL D Prepared Analyzed Arsenic ND 5.0 0.50 ug/L 11/02/22 08:33 11/02/22 15:23 1 Cadmium ND 1.0 0.088 ug/L 11/02/22 08:33 11/02/22 15:23 1 Chromium ND 3.0 0.88 ug/L 11/02/22 08:33 11/02/22 15:23 1 Copper ND 2.0 0.71 ug/L 11/02/22 08:33 11/02/22 15:23 1 Lead ND 1.0 0.23 ug/L 11/02/22 08:33 11/02/22 15:23 1 ND 2.0 0.51 ug/L 11/02/22 08:33 11/02/22 15:23 Manganese 1 Nickel ND 2.0 0.28 ug/L 11/02/22 08:33 11/02/22 15:23 1 Selenium ND 5.0 11/02/22 08:33 11/02/22 15:23 1.0 ug/L 1 Silver ND 0.50 0.045 ug/L 11/02/22 08:33 11/02/22 15:23 1 Zinc 34 10 2.0 ug/L 11/02/22 08:33 11/02/22 15:23 1

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Job ID: 280-168251-1

Lab Sample ID: 280-168251-1 Matrix: Water

Lab Sample ID: 280-168251-2

Matrix: Water

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Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Lab Sample ID: 280-168251-3 Matrix: Water

Client Sample ID: 2022-02-DUPLICATE Date Collected: 10/26/22 13:15 Date Received: 10/26/22 15:42

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/02/22 08:33	11/02/22 15:25	1
Cadmium	ND		1.0	0.088	ug/L		11/02/22 08:33	11/02/22 15:25	1
Chromium	ND		3.0	0.88	ug/L		11/02/22 08:33	11/02/22 15:25	1
Copper	0.75	J	2.0	0.71	ug/L		11/02/22 08:33	11/02/22 15:25	1
Lead	0.90	J	1.0	0.23	ug/L		11/02/22 08:33	11/02/22 15:25	1
Manganese	5.3		2.0	0.51	ug/L		11/02/22 08:33	11/02/22 15:25	1
Nickel	ND		2.0	0.28	ug/L		11/02/22 08:33	11/02/22 15:25	1
Selenium	ND		5.0	1.0	ug/L		11/02/22 08:33	11/02/22 15:25	1
Silver	ND		0.50	0.045	ug/L		11/02/22 08:33	11/02/22 15:25	1
Zinc	16		10	2.0	ug/L		11/02/22 08:33	11/02/22 15:25	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: 2022-02 Date Collected: 10/26/22 13:00 Date Received: 10/26/22 15:42							Lab Sam	ole ID: 280-16 Matrix:	8251-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		11/01/22 09:06	11/01/22 13:05	1
Client Sample ID: 2022-02-FB Date Collected: 10/26/22 13:10 Date Received: 10/26/22 15:42							Lab Sam	ole ID: 280-16 Matrix:	8251-2 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		11/01/22 09:06	11/01/22 13:23	1
Client Sample ID: 2022-02-DUPLI Date Collected: 10/26/22 13:15 Date Received: 10/26/22 15:42	CATE						Lab Sam	ole ID: 280-16 Matrix:	8251-3 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		11/01/22 09:06	11/01/22 13:26	1

General Chemistry

Client Sample ID: 2022-02 Date Collected: 10/26/22 13:00 Date Received: 10/26/22 15:42							Lab San	nple ID: 280-168251-1 Matrix: Water		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Specific Conductance (SM 2510B)	23		2.0	2.0	umhos/cm			10/31/22 11:42	1	
Total Suspended Solids (SM 2540D)	7.2		4.0	1.1	mg/L			11/01/22 13:16	1	
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			10/26/22 18:06	1	
pH adj. to 25 deg C (SM 4500 H+ B	8.1	HF	0.1	0.1	SU			11/01/22 16:02	1	
Temperature (SM 4500 H+ B)	22.2	HF	1.0	1.0	Degrees C			11/01/22 16:02	1	
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			10/27/22 12:02	1	
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			11/02/22 16:30	1	
Field pH (SM4500 S2 H)	8.1		1.0	1.0	SU			11/02/22 16:30	1	
Field Temperature (SM4500 S2 H)	22		1.0	1.0	Celsius			11/02/22 16:30	1	
Specific Conductance (SM4500 S2 H)	23		2.0	2.0	umhos/cm			11/02/22 16:30	1	
Sulfide (SM4500 S2 H)	ND		4.0	4.0	mg/L			11/02/22 16:30	1	

Client Sample Results

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

280-168251-2 Matrix: Water

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General Chemistry									
Client Sample ID: 2022-02-FB Date Collected: 10/26/22 13:10 Date Received: 10/26/22 15:42							Lab Sam	ple ID: 280-16 Matrix	8251-2 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	4.2		2.0	2.0	umhos/cm			10/31/22 11:42	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			11/01/22 13:16	1
Chromium, hexavalent (SM 3500 CR	ND		0.020	0.0040	mg/L			10/26/22 18:08	1
pH adi, to 25 deg C (SM 4500 H+ B	8.9	HF	0.1	0.1	SU			11/01/22 16:09	1
Temperature (SM 4500 H+ B)	22.6	HE	1.0	1.0	Degrees C			11/01/22 16:09	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	ma/L			10/27/22 12:04	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			11/02/22 16:30	1
Field pH (SM4500 S2 H)	8.9		1.0	1.0	SU			11/02/22 16:30	1
Field Temperature (SM4500 S2 H)	23		1.0	1.0	Celsius			11/02/22 16:30	1
Specific Conductance (SM4500 S2	4.2		2.0	2.0	umhos/cm			11/02/22 16:30	1
Sulfide (SM4500 S2 H)	ND		4.0	4.0	mg/L			11/02/22 16:30	1
Client Sample ID: 2022-02-DUPL Date Collected: 10/26/22 13:15	ICATE						Lab Sam	ple ID: 280-16 Matrix	8251-3 : Water
Date Received: 10/26/22 15:42	Result	Qualifier	RI	МП	Unit	п	Propared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	220		20	2.0	umhos/cm		Trepared	10/31/22 11:42	1
Total Suspended Solids (SM	1.6	J	4.0	1.1	mg/L			11/01/22 13:16	1
Chromium, hexavalent (SM 3500 CR	ND		0.020	0.0040	mg/L			10/26/22 18:08	1
pH adi, to 25 deg C (SM 4500 H+ B	8.3	HF	0.1	0.1	SU			11/01/22 16:13	1
Temperature (SM 4500 H+ B)	23.0	HE	1.0	1.0	Degrees C			11/01/22 16:13	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	ma/L			10/27/22 12:04	1
Un-ionized Hydrogen Sulfide (SM4500	ND		1.0	1.0	mg/L			11/02/22 16:30	1
Field pH (SM4500 S2 H)	8.3		1.0	1.0	SU			11/02/22 16:30	1
Field Temperature (SM4500 S2 H)	23		1.0	10	Celsius			11/02/22 16:30	1
Specific Conductance (SM4500 S2	220		2.0	2.0	umhos/cm			11/02/22 16:30	1
Sulfide (SM4500 S2 H)	ND		4.0	4.0	mg/L			11/02/22 16:30	1
General Chemistry - Total Re	ecovera	able							
Client Sample ID: 2022-02							Lab Sam	ple ID: 280-16	68251-1
Date Collected: 10/26/22 13:00								Matrix	: Water
Date Received: 10/26/22 15:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND	Н	0.020	0.020	mg/L		-	11/03/22 14:25	1

Chromium, trivalent (SM3500 CR B)	ND	H	0.020	0.020	mg/L		-	11/03/22 14:25	1
Client Sample ID: 2022-02-FB							Lab Sam	ple ID: 280-16	8251-2
Date Collected: 10/26/22 13:10								Matrix:	Water
Date Received: 10/26/22 15:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND	Н	0.020	0.020	mg/L			11/03/22 14:25	1

Client Sample Results

Job ID: 280-168251-1

8

Client: GS Mining Company LLC	
Project/Site: Wastewater Discharge - Nederland, CO	

General Chemistry - Total Recoverable

Client Sample ID: 2022-02-DUPLI Date Collected: 10/26/22 13:15 Date Received: 10/26/22 15:42	ICATE						Lab Sam	nple ID: 280-16 Matrix:	8251-3 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND	H	0.020	0.020	mg/L		•	11/03/22 14:25	1
General Chemistry - Dissolv	ed								
Client Sample ID: 2022-02							Lab Sam	ple ID: 280-16	8251-1
Date Collected: 10/26/22 13:00								Matrix	Water
Date Received: 10/26/22 15:42	Decult	Qualifier	Ы	MDI	11		Drenered	Analyzad	
Chromium, hovovolont (SM 2500 CP	Result	Qualifier	RL			D	Prepared	Analyzed	
B)	ND		0.020	0.0040	mg/L			10/20/22 10.11	I
Client Sample ID: 2022-02-FB							Lab Sam	ple ID: 280-16	8251-2
Date Collected: 10/26/22 13:10								Matrix:	Water
Date Received: 10/26/22 15:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			10/26/22 18:13	1
Client Sample ID: 2022-02-DUPL							Lab Sam	ple ID: 280-16	8251-3
Date Collected: 10/26/22 13:15								Matrix:	Water
Date Received: 10/26/22 15:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			10/26/22 18:13	1
General Chemistry - Potentia	ally Dis	solved							
Client Sample ID: 2022-02							Lab Sam	nle ID: 280-16	8251-1
Date Collected: 10/26/22 13:00							Lub Our	Matrix	Water
Date Received: 10/26/22 15:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L		-	11/03/22 14:26	1
Client Sample ID: 2022-02-FB							Lab Sam	nple ID: 280-16	8251-2
Date Collected: 10/26/22 13:10								Matrix	Water
Date Received: 10/26/22 15:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L			11/03/22 14:26	1
Client Sample ID: 2022-02-DUPL							Lab Sam	nple ID: 280-16	8251-3
Date Collected: 10/26/22 13:15								Matrix	Water
Date Received: 10/26/22 15:42									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L			11/03/22 14:26	1

QC Sample Results Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-168251-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-59	9016/3-A									Cli	ent Sam	ple ID: M	ethod	Blank
Matrix: Water												Prep Ty	pe: To	tal/NA
Analysis Batch: 599102												Prep Ba	atch: 5	599016
		MB	MB											
Analyte	Re	sult	Qualifier		RL		MDL	Unit		<u>D</u>	Prepared	Analyz	zed	Dil Fac
Mercury		ND			0.50		0.20	ng/L		11/	02/22 16:00) 11/03/22	09:59	1
Lab Sample ID: LCS 400-50	0016/4-0								Clie	nt Sa		Lah Cor	trol S	amplo
Matrix: Water	55010/ 4 -A								Cile	int Se		Pron Ty	ne To	
Analysis Batch: 599102												Pron Ba	atch: 5	00016
Analysis Daten. 000102				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Mercurv				5.00		5.29			na/L		106	79 - 121		
Lab Sample ID: LCSD 400-	599016/5-A							C	Client Sa	ample	D: Lab	Control	Samp	le Dup
Matrix: Water												Prep Ty	pe: To	tal/NA
Analysis Batch: 599102												Prep Ba	atch: 5	599016
				Spike		LCSD	LCS	D				%Rec		RPD
Analyte				Added		Result	Qua	lifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury				5.00		5.42			ng/L		108	79_121	2	20
Lab Sample ID: 280-16825	I-1 MS										Clier	it Sample	ID: 20	022-02
Matrix: water												Prep ly	pe: Io	
Analysis Batch: 599102	0	•		0								Ргер Ва	atch: 5	699016
Annabada	Sample	Sam	pie	Spike		MS	MS		11	_	0/ D	%Rec		
Analyte	Result	Quai		Added		Result	Qua	litter		Ľ	%Rec _			
Mercury	2.0			5.00		0.09			ng/L		100	11-125		
Method: 200.7 Rev 4.4 -	Metals (ICP)												
I ab Sample ID: MB 280-59	1484/1-0									Cli	ont Sam	nle ID: M	othod	Blank
Matrix: Water											Pren Tvr	pic ib. in pe: Total l	Recov	erable
Analysis Batch: 591726												Pren Ba	tch: 5	591484
Analysis Baten. 001720		мв	мв									Пор Вс		
Analyte	Re	sult	Qualifier		RL		MDL	Unit		DI	Prepared	Analyz	zed	Dil Fac
Iron		ND			100		9.1	ug/L			28/22 09:29	9 10/29/22	00:52	1
								U						
Lab Sample ID: LCS 280-59	91484/2-A								Clie	nt Sa	mple ID:	Lab Cor	ntrol S	ample
Matrix: Water											Prep Typ	e: Total l	Recov	erable
Analysis Batch: 591726												Prep Ba	atch: 5	591484
				Spike		LCS	LCS	;				%Rec		
Analyte				Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Iron				10000		10200			ug/L		102	85 - 115		
	4.00										0	4.0		
Lab Sample ID: 280-16825'	I-1 WIS										Ciler Drog Tree	it Sample	ט: 20 מיניים	U22-U2
Matrix: Water											гер тур			
Analysis Dalch: 591/20	Samala	Sam	nlo	Spike		ме	Me					%Pee	itteri: 5	51404
Analyte	Rocult	Qual	lifier			Recult	0113	lifior	Unit	п	%Rec	/intec		
Iron	49	J		10000		10200	gua				101	70_130		
		-							J. –					

QC Sample Results Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Sample Sample

49 J

Result Qualifier

MB MB

ND

ND

ND

ND

ND

ND

Result Qualifier

Job ID: 280-168251-1

Prep Batch: 591484

RPD

1

Client Sample ID: 2022-02 **Prep Type: Total Recoverable**

Client Sample ID: 2022-02 **Prep Type: Total Recoverable**

%Rec

Limits

70 - 130

%Rec

102

D

С

п

RPD

Limit

Dil Fac

1

1

1

1

1

20

lient Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 591408

Analyzed

		-		
 10/27/22	15:15	10/28/22	09:18	
10/27/22	15:15	10/28/22	09:18	
10/27/22	15:15	10/28/22	09:18	
10/27/22	15:15	10/28/22	09:18	
10/27/22	15:15	10/28/22	09:18	
10/27/22	15:15	10/28/22	09:18	

Prepared

Lab Sample ID: LCS 280-591408/2-A **Matrix: Water**

Prep Batch: 591408 Spike LCS LCS %Rec Analyte Added **Result Qualifier** Unit %Rec Limits D Arsenic 40.0 40.5 ug/L 101 89 - 111 Cadmium 40.0 39.7 ug/L 99 89 - 111 Chromium 40.0 39.7 ug/L 99 86 - 115 Copper 40.0 39.6 ug/L 99 90 - 115 40.0 Lead 39.7 ug/L 99 88 - 115 Zinc 40.0 38.8 ug/L 97 88 - 115

Lab Sample ID: 280-168251-1 MS **Matrix: Water**

Analysis Batch: 591631

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		40.0	39.2		ug/L		98	79 - 120	
Cadmium	ND		40.0	38.3		ug/L		96	89 - 111	
Chromium	ND		40.0	38.0		ug/L		95	86 - 115	
Copper	1.4	J	40.0	38.8		ug/L		93	90 - 115	
Lead	0.86	J	40.0	41.2		ug/L		101	88 - 115	
Zinc	5.2	J	40.0	42.0		ug/L		92	88 - 115	

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10000	10200

MSD MSD

Result Qualifier

MDL Unit

0.50 ug/L

0.088 ug/L

0.88 ug/L

0.71 ug/L

0.23 ug/L

2.0 ug/L

Unit

ug/L

Spike

Added

Lab Sample ID: 280-168251-1 MSD
Matrix: Water
Analysis Batch: 591903
Sample S

Lab Sample ID: 280-168251-1 MSD

Matrix: Water

Matrix: Water

Analyte

Arsenic

Copper

Lead

Zinc

Cadmium

Chromium

Analysis Batch: 591631

Analyte

Iron

Analysis Batch: 591726

Analysis Batch: 591903									Prep Ba	itch: 59) 1484
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	47	J	10000	10200		ug/L		102	70 - 130	1	20

RL

5.0

1.0

3.0

2.0

1.0

10

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-591408/1-A

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Analysis Batch: 591631

Client Sample ID: 2022-02

Prep Batch: 591408

Prep Type: Total Recoverable

Method: 200.8 - Metals (ICP/MS) (Continued)

Client Sample ID: 2022-02 **Prep Type: Total Recoverable**

Lab Sample ID: 280-168251-1 MSD **Matrix: Water** Analysis Batch: 591631

Analysis Batch: 591631			0						Prep Ba	atch: 5	91408
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		40.0	39.5		ug/L		99	79 - 120	1	20
Cadmium	ND		40.0	40.4		ug/L		101	89 - 111	5	20
Chromium	ND		40.0	39.0		ug/L		97	86 - 115	2	20
Copper	1.4	J	40.0	40.7		ug/L		98	90 - 115	5	20
Lead	0.86	J	40.0	40.5		ug/L		99	88 - 115	2	20
Zinc	52	J	40.0	44 1		ua/l		97	88 - 115	5	20

Lab Sample ID: MB 280-591717/1-B Matrix: Water Analysis Batch: 592167

-	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/02/22 08:33	11/02/22 15:11	1
Cadmium	ND		1.0	0.088	ug/L		11/02/22 08:33	11/02/22 15:11	1
Chromium	ND		3.0	0.88	ug/L		11/02/22 08:33	11/02/22 15:11	1
Copper	ND		2.0	0.71	ug/L		11/02/22 08:33	11/02/22 15:11	1
Lead	ND		1.0	0.23	ug/L		11/02/22 08:33	11/02/22 15:11	1
Manganese	ND		2.0	0.51	ug/L		11/02/22 08:33	11/02/22 15:11	1
Nickel	ND		2.0	0.28	ug/L		11/02/22 08:33	11/02/22 15:11	1
Selenium	ND		5.0	1.0	ug/L		11/02/22 08:33	11/02/22 15:11	1
Silver	ND		0.50	0.045	ug/L		11/02/22 08:33	11/02/22 15:11	1
Zinc	ND		10	2.0	ug/L		11/02/22 08:33	11/02/22 15:11	1

Lab Sample ID: LCS 280-591717/2-B Matrix: Water Analysis Batch: 592167

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved Prep Batch: 591813

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 591813

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	39.3		ug/L		98	89 - 111	
Cadmium	40.0	41.0		ug/L		103	89 - 111	
Chromium	40.0	39.5		ug/L		99	86 - 115	
Copper	40.0	39.6		ug/L		99	90 - 115	
Lead	40.0	39.8		ug/L		100	88 - 115	
Manganese	40.0	40.0		ug/L		100	87 - 115	
Nickel	40.0	40.5		ug/L		101	86 - 115	
Selenium	40.0	41.0		ug/L		102	85 - 114	
Silver	40.0	40.3		ug/L		101	90 - 114	
Zinc	40.0	41.5		ug/L		104	88 - 115	

Lab Sample ID: 280-168251-1 MS **Matrix: Water** Analysis Batch: 592167

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		40.0	40.4		ug/L		101	79 - 120	
Cadmium	ND		40.0	42.0		ug/L		105	89 - 111	
Chromium	ND		40.0	39.7		ug/L		99	86 - 115	
Copper	1.0	J	40.0	40.2		ug/L		98	90 - 115	
Lead	0.89	J	40.0	41.1		ug/L		101	88 - 115	

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Client Sample ID: 2022-02

Prep Batch: 591813

Prep Type: Potentially Dissolved

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-168251 Matrix: Water Analysis Batch: 592167	-1 MS						Prej	Cliei p Type:	nt Sample Potential Prep B	e ID: 20 ly Diss atch: 5	22-02 olved 91813
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Manganese	3.5		40.0	42.9		ug/L		98	87 - 115		
Nickel	ND		40.0	39.6		ug/L		99	86 - 115		
Selenium	ND		40.0	38.8		ug/L		97	85 - 114		
Silver	ND		40.0	40.7		ug/L		102	70 - 130		
Zinc	14	F1	40.0	63.4	F1	ug/L		124	88 - 115		
_ Lab Sample ID: 280-168251	-1 MSD							Clie	nt Sample	ə ID: 20	22-02
Matrix: Water							Pre	p Type:	Potentia	ly Diss	olved
Analysis Batch: 592167									Prep B	atch: 5	J1813
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analvte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

Analyte	Result Qualifie	er Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND	40.0	39.9	ug/L		100	79 - 120	1	20
Cadmium	ND	40.0	39.5	ug/L		99	89 - 111	6	20
Chromium	ND	40.0	39.3	ug/L		98	86 - 115	1	20
Copper	1.0 J	40.0	39.4	ug/L		96	90 - 115	2	20
Lead	0.89 J	40.0	40.9	ug/L		100	88 - 115	1	20
Manganese	3.5	40.0	41.5	ug/L		95	87 - 115	3	20
Nickel	ND	40.0	39.1	ug/L		98	86 - 115	1	20
Selenium	ND	40.0	39.0	ug/L		97	85 - 114	0	20
Silver	ND	40.0	39.7	ug/L		99	70 - 130	2	20
Zinc	14 F1	40.0	61.6	F1 ug/L		120	88 - 115	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-591895/ [,] Matrix: Water Analysis Batch: 592071	1-A	МР							Clie	ent Samp	ole ID: Me Prep Typ Prep Ba	ethod be: Tot tch: 59	Blank al/NA 91895
Analysis	NIB Desuit	MB					1				A	I	
Analyte	Result	Qualifier		RL			Unit	L	<u> </u>	repared	Analyz	ea	DIIFac
Mercury	ND			0.20	0	0.061 ι	ug/L		11/0	1/22 09:06	11/01/22	12:54	1
- Lab Sample ID: LCS 280-591895	/ 2-A							Clier	nt Sai	mple ID:	Lab Con	trol Sa	ample
Matrix: Water											Prep Typ	e: Tot	al/NA
Analysis Batch: 592071											Pren Ba	tch: 59	1895
Analysis Baton. 002071			Spiko		1.09	109					% Poc		
			эріке			L03			_	~·-	%Rec		
Analyte			Added		Result	Quali	itier	Unit	D	%Rec	Limits		
Mercury			5.00		4.99			ug/L		100	90 - 110		
_ Lab Sample ID: LCSD 280-59189)5/3-A						С	lient Sa	mple	ID: Lab	Control S	Sample	e Dup
Matrix: Water											Prep Typ	be: Tot	al/NA
Analysis Batch: 592071											Pron Ba	tch: 5	1895
Analysis Baton. 002071			Spiko				`				% Poc		
			эріке			LUGL	, 		_	~·-	/0ReC		
Analyte			Added		Result	Quali	itier	Unit	<u>D</u>	%Rec	Limits	RPD	Limit
Mercury			5.00		5.00			ug/L		100	90 - 110	0	10

QC Sample Results Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-168251-1

Method: 245.1 - Mercury (CVAA) (Continued)

	· / ·		- /								
Lab Sample ID: 280-168251-	1 MS								Clier	nt Sample ID): 2022-02
Matrix: Water										Prep Type	: Total/NA
Analysis Batch: 592071										Prep Batc	h: 591895
	Sample Sa	ample	Spike		MS	MS				%Rec	
Analyte	Result Q	ualifier	Added		Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	ND		5.00		4.93		ug/L		99	80 - 120	
Lab Sample ID: 280-168251-	1 MSD								Clier	it Sample ID): 2022-02
Matrix: Water										Prep Type	: Total/NA
Analysis Batch: 592071										Prep Batc	h: 591895
	Sample S	ample	Spike		MSD	MSD				%Rec	RPD
Analyte	Result Q	ualifier	Added		Result	Qualifier	Unit	D	%Rec	Limits I	RPD Limit
Mercury	ND		5.00		4.95		ug/L		99	80 - 120	0 10
Method: SM 2510B - Con	ductivity,	Specific	: Cond	ucta	ance						
Lab Sample ID: MB 280-5918	08/5							Clie	ent Sam	nle ID: Meth	nod Blank
Matrix: Water										Prep Type	: Total/NA
Analysis Batch: 591808											
	м	в мв									
Analyte	Resu	It Qualifier		RL		MDL Unit	D	Р	repared	Analyzed	Dil Fac
Specific Conductance	N	D		2.0		2.0 umho	s/cm		· ·	10/31/22 11:	42 1
Lab Sample ID: LCS 280-591	808/4						Clien	t Sa	mple ID	: Lab Contro	ol Sample
Matrix: Water										Prep Type	: Total/NA
Analysis Batch: 591808											
			Spike		LCS	LCS				%Rec	
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	
Specific Conductance			1410		1400		umhos/cm		99	90 - 110	
Method: SM 2540D - Soli	ds, Total	Suspend	led (TS	SS)							
Lab Sample ID: MB 280-5919	90/2							Clie	ent Sam	ple ID: Meth	nod Blank
Matrix: Water										Prep Type	: Total/NA
Analysis Batch: 591990											
	М	в мв									
Analyte	Resu	It Qualifier		RL	1	MDL Unit	D	Р	repared	Analyzed	Dil Fac
Total Suspended Solids	N	D		4.0		1.1 mg/L				11/01/22 13:	16 1
Lab Sample ID: LCS 280-591	990/1						Clien	t Sa	mple ID	Lab Contro	ol Sample
Matrix: Water										Prep Type	: Total/NA
Analysis Batch: 591990											
· ·····, · · · · · · · · · · · · · · ·			Spike		LCS	LCS				%Rec	
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids			503		442		mg/L		88	79 - 114	
Lab Sample ID: MB 280-5921	22/3							Clie	ent Sam	ple ID: Meth	od Blank
Matrix: Water										Prep Type	: Total/NA
Analysis Batch: 592122											
	М	в мв									
Analyte	Resu	It Qualifier		RL	I	MDL Unit	D	Р	repared	Analyzed	Dil Fac
Total Suspended Solids	N	D		4.0		1.1 mg/L				11/02/22 12:	03 1

QC Sample Results

		QC	Sam	ple Resi	ults							
Client: GS Mining Company L Project/Site: Wastewater Disc	LC harge - Nec	lerland, CO	-						Job ID: 2	80-168	251-1	2
Method: SM 2540D - Sc	olids, Tota	I Suspend	ded (TS	S) (Cont	inued)							
Lab Sample ID: LCS 280-5 Matrix: Water Analysis Batch: 592122	92122/1					Cli	ient Sa	mple ID	: Lab Coi Prep Ty	ntrol Sa pe: Tot	ample al/NA	4
			Spike	LCS	LCS				%Rec			5
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits			
Total Suspended Solids			503	474		mg/L		94	79 - 114			
Lab Sample ID: LCSD 280 Matrix: Water	-592122/2					Client S	Sample	ID: Lat	Control Prep Ty	Sample pe: Tot	e Dup al/NA	7
Analysis Batch: 592122			Spiko						% Boc		חסס	8
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Total Suspended Solids			500	422		mg/L	<u> </u>	84	79 - 114	12	20	9
Method: SM 3500 CR B	- Chromi	um, Hexa	valent									10
Lab Sample ID: MB 280-59 Matrix: Water Analysis Batch: 591394	1394/10	MR MR					Clie	ent Sam	nple ID: M Prep Ty	ethod pe: Tot	Blank al/NA	
Analyte	Re	wo wo sult Qualifier		RL	MDL Unif	ŀ	D P	repared	Analy	zed	Dil Fac	
Chromium, hexavalent		ND Qualifier		0.020 0.0	0040 mg/l	<u> </u>			10/26/22	18:05	1	13
Lab Sample ID: LCS 280-5 Matrix: Water	91394/8					Cli	ient Sa	mple ID	: Lab Coi Prep Ty	ntrol Sa pe: Tot	ample al/NA	
Analysis Datch. 591594			Spike	LCS	LCS				%Rec			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chromium, hexavalent			0.100	0.0980		mg/L		98	91 - 112			
Lab Sample ID: LCSD 280 Matrix: Water	-591394/9				1	Client S	Sample	ID: Lat	Control Prep Ty	Sample pe: Tot	e Dup al/NA	
Analysis Batch: 591394			Snike	LCSD					%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chromium, hexavalent			0.100	0.0990		mg/L		99	91 - 112	1	20	
Lab Sample ID: 280-16825 Matrix: Water	1-1 MS							Clie	nt Sample Prep Ty	e ID: 20 pe: Tot	22-02 al/NA	
Analysis Batch: 591394		. .	• •						~~ -			
Analyto	Sample	Sample	Spike	MS	MS Qualifier	Unit	П	% Pac	%Rec			
Chromium, hexavalent	ND		0.100	0.0991	Quaimer	_ ma/L		99	91 - 112			
Lab Sample ID: 280-16825	1.1 MSD							Clie	nt Sample	20 יחו מ	22-02	
Matrix: Water									Danple			
									Prep Iy	pe: Tot	al/NA	
Analysis Batch: 591394	Sample	Sample	Snike	שפח	MSD				WRec	pe: Tot	al/NA	
Analysis Batch: 591394	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	pe: Tot	RPD Limit	

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

QC Sample Results

Job ID: 280-168251-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-16825 Matrix: Water	1-1 DU								Clie	nt Sample Prep Ty	e ID: 20 pe: To)22-02 tal/NA
Analysis Batch: 591394												
	Sample	Sample			DU	DU						RPD
Analyte	Result	Qualifier			Result	Qualifier	Unit	D			RPD	Limit
Chromium, hexavalent	ND				0.00629	J	mg/L				NC	20
Lab Sample ID: MB 280-59 Matrix: Water	1390/3-A							Cli	ent San	nple ID: M Prep Typ	ethod e: Diss	Blank solved
Analysis Batch: 591394												
Analyte	Re	sult Qualifier		RI		MDI Unit			Prenared	Δnalv	zed	Dil Fac
Chromium hexavalent				0.020	0.0	$0040 \frac{\text{om}}{\text{mg/l}}$			repareu	10/26/22	18.10	1
		11D		0.020	0.	oo io iiig/E				10/20/22	10.10	•
Lab Sample ID: LCS 280-59	91390/1-A						Cli	ent Sa	mple IC): Lab Coi	ntrol Sa	ample
Matrix: Water										Prep Typ	e: Diss	olved
Analysis Batch: 591394												
			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chromium, hexavalent			0.100		0.0976		mg/L		98	91 - 112		
Lab Sample ID: LCSD 280-	501300/2-0						liont 9	Sample	UD: La		Sampl	
Matrix: Water	391390/2-A	•						ampie		Pron Tyn		
Analysis Batch: 591394										пер тур	C. DI33	
Analysis Baten. oo roo4			Spike		LCSD	LCSD				%Rec		RPD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent			0.100		0.0987		mg/L		99	91 - 112	1	20
Lab Sample ID: 280-16825	1-1 MS								Clie	nt Sample) ID: 20	22-02
Matrix: Water										Prep Typ	e: Diss	solved
Analysis Batch: 591394												
	Sample	Sample	Spike		MS	MS		_	a. –	%Rec		
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit	D	%Rec			
Chromium, hexavalent	ND		0.100		0.0970		mg/L		97	91 - 112		
Lab Sample ID: 280-16825	1-1 MSD								Clie	nt Sample) ID: 20	22-02
Matrix. Water Analysis Patch: 501204										гер тур	e. Diss	olveu
Analysis Batch. 591594	Sample	Sample	Snike		MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier			Result	Qualifier	Unit	п	%Rec	/intec	RbD	Limit
Chromium hexavalent			0 100		0.0985		ma/l		98	91 - 112	1	20
	ne ine		0.100		0.0000		iiig/ E		00	01-112	•	20
Lab Sample ID: 280-16825	1-1 DU								Clie	nt Sample	D: 20	22-02
Matrix: Water										· Prep Typ	e: Diss	olved
Analysis Batch: 591394												
	Sample	Sample			DU	DU						RPD
Analyte	Result	Qualifier			Result	Qualifier	Unit	D			RPD	Limit
Chromium, hexavalent	ND				ND		mg/L				NC	20

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Method: SM 4500 H+ B - pH

Analysis Batch: 592061

Analysis Batch: 592061

Analysis Batch: 591500

Matrix: Water

pH adj. to 25 deg C

Matrix: Water

pH adj. to 25 deg C

Matrix: Water

Matrix: Water

Analyte

Analyte

Analyte

Sulfide

Temperature

Lab Sample ID: LCS 280-592061/73

Lab Sample ID: 280-168251-1 DU

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-591500/11

Lab Sample ID: LCS 280-591500/9

QC Sample Results

Spike

Added

Sample Sample

8.1 HF

22.2 HF

Result Qualifier

MB MB

ND

Result Qualifier

7.00

LCS LCS

DU DU

8.2

22.3

Result Qualifier

MDL Unit

0.022

7.1

Result Qualifier

Unit

SU

Unit

SU

Degrees C

D

Job ID: 280-168251-1

Prep Type: Total/NA

Prep Type: Total/NA

RPD

2

0.5

Client Sample ID: Lab Control Sample

D %Rec

D

101

%Rec

Limits

99 - 101

Client Sample ID: 2022-02

Limit 5 10 **Client Sample ID: Method Blank** Prep Type: Total/NA

RPD

Dil Fac

Analyzed

Prep Type: Total/NA

Client Sample ID: 2022-02

Prep Type: Total/NA

	Client Sample ID: Lab Control Sam	nle
ng/L	10/27/22 11:56	1

Client Sample ID: Lab Control Sample Dup

Prepared

Prep Type: Total/NA

Analysis Batch: 591500								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Sulfide	0.499	0.528		mg/L		106	81 - 122	

RL

0.050

Lab Sample ID: LCSD 280-591500/10 Matrix: Water

Analysis Batch: 591500									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sulfide	0.499	0.531		mg/L		106	81 - 122	1	10

Lab Sample ID: 280-168251-1 MS **Matrix: Water** Analysis Batch: 591500

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Sulfide	ND		0.499	0.473		mg/L		95	81 - 122		
Lab Sample ID: 280-168251	-1 MSD							Clie	nt Sample	D: 20	22-02
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 591500											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sulfide	ND		0.499	0.479		mg/L		96	81 - 122	1	10

Prep Type: Total/NA

Client Sample ID: Method Blank

Method: SM4500 S2 H - Unionized Hydrogen Sulfide

Lab Sample ID: MB 280-592172/1 Matrix: Water Analysis Batch: 592172

MB	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND		1.0	1.0	mg/L			11/02/22 16:30	1
ND		1.0	1.0	SU			11/02/22 16:30	1
ND		1.0	1.0	Celsius			11/02/22 16:30	1
ND		2.0	2.0	umhos/cm			11/02/22 16:30	1
ND		4.0	4.0	mg/L			11/02/22 16:30	1
	MB Result ND ND ND ND	MB MB Result Qualifier ND	MB MB Result Qualifier RL ND 1.0 ND 1.0 ND 1.0 ND 2.0 ND 4.0	MB MB Result Qualifier RL MDL ND 1.0 1.0 1.0 ND 1.0 1.0 1.0 ND 1.0 1.0 1.0 ND 2.0 2.0 2.0 ND 4.0 4.0 4.0	MBResultQualifierRLMDLUnitND1.01.01.0mg/LND1.01.0SUND1.01.0CelsiusND2.02.0umhos/cmND4.04.0mg/L	MBResultQualifierRLMDLUnitDND1.01.01.0mg/LND1.01.0SUND1.01.0CelsiusND2.02.0umhos/cmND4.04.0mg/L	MB ResultQualifierRLMDLUnitDPreparedND1.01.01.0mg/LIndextIndextIndextIndextIndextND1.01.01.0SUIndextIndextIndextIndextIndextIndextND1.01.01.0CelsiusIndextIndextIndextIndextIndextIndextIndextND2.02.0umhos/cmIndext </td <td>MB MB Result Qualifier RL MDL Unit D Prepared Analyzed ND 1.0 1.0 mg/L 11/02/22 16:30 11/02/22 16:30 ND 1.0 1.0 SU 11/02/22 16:30 ND 1.0 1.0 Celsius 11/02/22 16:30 ND 2.0 2.0 umhos/cm 11/02/22 16:30 ND 4.0 4.0 mg/L 11/02/22 16:30</td>	MB MB Result Qualifier RL MDL Unit D Prepared Analyzed ND 1.0 1.0 mg/L 11/02/22 16:30 11/02/22 16:30 ND 1.0 1.0 SU 11/02/22 16:30 ND 1.0 1.0 Celsius 11/02/22 16:30 ND 2.0 2.0 umhos/cm 11/02/22 16:30 ND 4.0 4.0 mg/L 11/02/22 16:30

Prep Type

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Total Recoverable

Prep Type

Matrix

Water

Water

Water

Water

Water

Water

Water

Matrix

Water

Water

Water

Water

Water

Water

Water

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Client Sample ID

2022-02-DUPLICATE

Lab Control Sample

Client Sample ID

2022-02-DUPLICATE

Lab Control Sample

2022-02

2022-02

2022-02

2022-02

2022-02

2022-02

2022-02-FB

Method Blank

2022-02-FB

Method Blank

Metals

Prep Batch: 591408

Lab Sample ID

280-168251-1

280-168251-2

280-168251-3

MB 280-591408/1-A

LCS 280-591408/2-A

280-168251-1 MS

Lab Sample ID

280-168251-1

280-168251-2

280-168251-3

MB 280-591484/1-A

LCS 280-591484/2-A

280-168251-1 MS

280-168251-1 MSD

280-168251-1 MSD

Prep Batch: 591484

Job ID: 280-168251-1

Method

200.8

200.8

200.8

200.8

200.8

200.8

200.8

Method

200.7

200.7

200.7

200.7

200.7 200.7

200.7

6 7 <u>Prep Batch</u> 10

Prep Batch

Analysis Batch: 591	631				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-168251-1	2022-02	Total Recoverable	Water	200.8	591408
280-168251-2	2022-02-FB	Total Recoverable	Water	200.8	591408
280-168251-3	2022-02-DUPLICATE	Total Recoverable	Water	200.8	591408
MB 280-591408/1-A	Method Blank	Total Recoverable	Water	200.8	591408
LCS 280-591408/2-A	Lab Control Sample	Total Recoverable	Water	200.8	591408
280-168251-1 MS	2022-02	Total Recoverable	Water	200.8	591408
280-168251-1 MSD	2022-02	Total Recoverable	Water	200.8	591408

Filtration Batch: 591717

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-168251-1	2022-02	Potentially Dissolvec	Water	Poten_Diss_Met	
280-168251-2	2022-02-FB	Potentially Dissolvec	Water	Poten_Diss_Met	
280-168251-3	2022-02-DUPLICATE	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-591717/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-591717/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
280-168251-1 MS	2022-02	Potentially Dissolvec	Water	Poten_Diss_Met	
280-168251-1 MSD	2022-02	Potentially Dissolvec	Water	Poten_Diss_Met	

Analysis Batch: 591726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168251-1	2022-02	Total Recoverable	Water	200.7 Rev 4.4	591484
280-168251-2	2022-02-FB	Total Recoverable	Water	200.7 Rev 4.4	591484
280-168251-3	2022-02-DUPLICATE	Total Recoverable	Water	200.7 Rev 4.4	591484
MB 280-591484/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	591484
LCS 280-591484/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	591484
280-168251-1 MS	2022-02	Total Recoverable	Water	200.7 Rev 4.4	591484
280-168251-1 MSD	2022-02	Total Recoverable	Water	200.7 Rev 4.4	591484
Prep Batch: 591813					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168251-1	2022-02	Potentially Dissolvec	Water	200.8	591717

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Metals (Continued)

Prep Batch: 591813 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-168251-2	2022-02-FB	Potentially Dissolvec	Water	200.8	591717
280-168251-3	2022-02-DUPLICATE	Potentially Dissolvec	Water	200.8	591717
MB 280-591717/1-B	Method Blank	Potentially Dissolvec	Water	200.8	591717
LCS 280-591717/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	591717
280-168251-1 MS	2022-02	Potentially Dissolvec	Water	200.8	591717
280-168251-1 MSD	2022-02	Potentially Dissolvec	Water	200.8	591717
Prep Batch: 591895					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-168251-1	2022-02	Total/NA	Water	245.1	
280-168251-2	2022-02-FB	Total/NA	Water	245.1	
280-168251-3	2022-02-DUPLICATE	Total/NA	Water	245.1	
MB 280-591895/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-591895/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-591895/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
280-168251-1 MS	2022-02	Total/NA	Water	245.1	
280-168251-1 MSD	2022-02	Total/NA	Water	245.1	

Analysis Batch: 591903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168251-1 MSD	2022-02	Total Recoverable	Water	200.7 Rev 4.4	591484

Analysis Batch: 592071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168251-1	2022-02	Total/NA	Water	245.1	591895
280-168251-2	2022-02-FB	Total/NA	Water	245.1	591895
280-168251-3	2022-02-DUPLICATE	Total/NA	Water	245.1	591895
MB 280-591895/1-A	Method Blank	Total/NA	Water	245.1	591895
LCS 280-591895/2-A	Lab Control Sample	Total/NA	Water	245.1	591895
LCSD 280-591895/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	591895
280-168251-1 MS	2022-02	Total/NA	Water	245.1	591895
280-168251-1 MSD	2022-02	Total/NA	Water	245.1	591895

Analysis Batch: 592167

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-168251-1	2022-02	Potentially Dissolvec	Water	200.8	591813
280-168251-2	2022-02-FB	Potentially Dissolvec	Water	200.8	591813
280-168251-3	2022-02-DUPLICATE	Potentially Dissolvec	Water	200.8	591813
MB 280-591717/1-B	Method Blank	Potentially Dissolvec	Water	200.8	591813
LCS 280-591717/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	591813
280-168251-1 MS	2022-02	Potentially Dissolvec	Water	200.8	591813
280-168251-1 MSD	2022-02	Potentially Dissolvec	Water	200.8	591813

Prep Batch: 599016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168251-1	2022-02	Total/NA	Water	1631E	
280-168251-2	2022-02-FB	Total/NA	Water	1631E	
280-168251-3	2022-02-DUPLICATE	Total/NA	Water	1631E	
MB 400-599016/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-599016/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-599016/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Eurofins Denver

10

Job ID: 280-168251-1

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Water

Matrix

Water

Water

Water

Water

Water

Water

Water

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Client Sample ID

Client Sample ID

2022-02-DUPLICATE

Lab Control Sample

Lab Control Sample Dup

2022-02

2022-02

2022-02

2022-02-FB

Method Blank

Job ID: 280-168251-1

Prep Batch

Prep Batch

599016

599016

599016

Method

Method

1631E

1631E

1631E

1631E

1631E

1631E

1631E

1631E

1 2 3 4 5 6 7 8 9

General Chemistry

Metals (Continued)

Analysis Batch: 599102

Lab Sample ID

Lab Sample ID

280-168251-1

280-168251-2

280-168251-3

MB 400-599016/3-A

280-168251-1 MS

LCS 400-599016/4-A

LCSD 400-599016/5-A

280-168251-1 MS

Prep Batch: 599016 (Continued)

Filtration Batch: 591390

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-168251-1	2022-02	Dissolved	Water	FILTRATION	
280-168251-2	2022-02-FB	Dissolved	Water	FILTRATION	
280-168251-3	2022-02-DUPLICATE	Dissolved	Water	FILTRATION	
MB 280-591390/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-591390/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-591390/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-168251-1 MS	2022-02	Dissolved	Water	FILTRATION	
280-168251-1 MSD	2022-02	Dissolved	Water	FILTRATION	
280-168251-1 DU	2022-02	Dissolved	Water	FILTRATION	

Analysis Batch: 591394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168251-1	2022-02	Dissolved	Water	SM 3500 CR B	591390
280-168251-1	2022-02	Total/NA	Water	SM 3500 CR B	
280-168251-2	2022-02-FB	Dissolved	Water	SM 3500 CR B	591390
280-168251-2	2022-02-FB	Total/NA	Water	SM 3500 CR B	
280-168251-3	2022-02-DUPLICATE	Dissolved	Water	SM 3500 CR B	591390
280-168251-3	2022-02-DUPLICATE	Total/NA	Water	SM 3500 CR B	
MB 280-591390/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	591390
MB 280-591394/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-591390/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	591390
LCS 280-591394/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-591390/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	591390
LCSD 280-591394/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-168251-1 MS	2022-02	Dissolved	Water	SM 3500 CR B	591390
280-168251-1 MS	2022-02	Total/NA	Water	SM 3500 CR B	
280-168251-1 MSD	2022-02	Dissolved	Water	SM 3500 CR B	591390
280-168251-1 MSD	2022-02	Total/NA	Water	SM 3500 CR B	
280-168251-1 DU	2022-02	Dissolved	Water	SM 3500 CR B	591390
280-168251-1 DU	2022-02	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 591500

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
280-168251-1	2022-02	Total/NA	Water	SM 4500 S2 D	
280-168251-2	2022-02-FB	Total/NA	Water	SM 4500 S2 D	

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

General Chemistry (Continued)

Analysis Batch: 591500 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-168251-3	2022-02-DUPLICATE	Total/NA	Water	SM 4500 S2 D	
MB 280-591500/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-591500/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-591500/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-168251-1 MS	2022-02	Total/NA	Water	SM 4500 S2 D	
280-168251-1 MSD	2022-02	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 591808

Lab Sample ID 280-168251-1	Client Sample ID 2022-02	Prep Type Total/NA	Matrix Water	Method SM 2510B	Prep Batch
280-168251-2	2022-02-FB	Total/NA	Water	SM 2510B	
280-168251-3	2022-02-DUPLICATE	Total/NA	Water	SM 2510B	
MB 280-591808/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-591808/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 591990

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method Prep Batch
280-168251-1	2022-02	Total/NA	Water	SM 2540D
280-168251-2	2022-02-FB	Total/NA	Water	SM 2540D
280-168251-3	2022-02-DUPLICATE	Total/NA	Water	SM 2540D
MB 280-591990/2	Method Blank	Total/NA	Water	SM 2540D
LCS 280-591990/1	Lab Control Sample	Total/NA	Water	SM 2540D

Analysis Batch: 592061

Lab Sample ID 280-168251-1	Client Sample ID 2022-02	Total/NA	Matrix Water	Method Prep Batch SM 4500 H+ B
280-168251-2	2022-02-FB	Total/NA	Water	SM 4500 H+ B
280-168251-3	2022-02-DUPLICATE	Total/NA	Water	SM 4500 H+ B
LCS 280-592061/73	Lab Control Sample	Total/NA	Water	SM 4500 H+ B
280-168251-1 DU	2022-02	Total/NA	Water	SM 4500 H+ B

Analysis Batch: 592122

Lab Sample ID MB 280-592122/3	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
LCS 280-592122/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-592122/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 592172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168251-1	2022-02	Total/NA	Water	SM4500 S2 H	
280-168251-2	2022-02-FB	Total/NA	Water	SM4500 S2 H	
280-168251-3	2022-02-DUPLICATE	Total/NA	Water	SM4500 S2 H	
MB 280-592172/1	Method Blank	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 592290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168251-1	2022-02	Total Recoverable	Water	SM3500 CR B	
280-168251-2	2022-02-FB	Total Recoverable	Water	SM3500 CR B	
280-168251-3	2022-02-DUPLICATE	Total Recoverable	Water	SM3500 CR B	

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

General Chemistry

Analysis Batch: 592291

Lab Sample ID 280-168251-1	Client Sample ID 2022-02	Prep Type Potentially Dissolvec	Matrix Water	Method SM3500 CR B	Prep Batch
280-168251-2	2022-02-FB	Potentially Dissolvec	Water	SM3500 CR B	
280-168251-3	2022-02-DUPLICATE	Potentially Dissolvec	Water	SM3500 CR B	

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Lab Sample ID: 280-168251-1 Matrix: Water

Date Collected: 10/26/22 13:00 Date Received: 10/26/22 15:42

Client Sample ID: 2022-02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	599016	10/31/22 15:00	VLC	EET PEN
							Completed:	11/01/22 10:00	1	
Total/NA	Analysis	1631E		1			599102	11/03/22 10:22	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	591484	10/28/22 09:29	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			591726	10/29/22 03:01	KRP	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	591717	10/28/22 21:30	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	591813	11/02/22 08:33	LJS	EET DEN
Potentially Dissolvec	Analysis	200.8		1			592167	11/02/22 15:17	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	591408	10/27/22 15:15	MCR	EET DEN
Total Recoverable	Analysis	200.8		1			591631	10/28/22 09:31	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	591895	11/01/22 09:06	MAB	EET DEN
Total/NA	Analysis	245.1		1			592071	11/01/22 13:05	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			591808	10/31/22 11:42	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	591990	11/01/22 13:16	ASP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	591390	10/26/22 17:43	SJD	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	591394	10/26/22 18:11	SJD	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	591394	10/26/22 18:06	SJD	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			592061	11/01/22 16:02	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	591500	10/27/22 12:02	LRB	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			592291	11/03/22 14:26	DNM	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			592290	11/03/22 14:25	DNM	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			592172	11/02/22 16:30	ZPM	EET DEN

Client Sample ID: 2022-02-FB Date Collected: 10/26/22 13:10 Date Received: 10/26/22 15:42

Lab Sample ID: 280-168251-2 Matrix: Water

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	599016	10/31/22 15:00	VLC	EET PEN
							Completed:	11/01/22 10:00	1	
Total/NA	Analysis	1631E		1			599102	11/03/22 10:37	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	591484	10/28/22 09:29	LJS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			591726	10/29/22 03:14	KRP	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	591717	10/28/22 21:30	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	591813	11/02/22 08:33	LJS	EET DEN
Potentially Dissolvec	Analysis	200.8		1			592167	11/02/22 15:23	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	591408	10/27/22 15:15	MCR	EET DEN
Total Recoverable	Analysis	200.8		1			591631	10/28/22 09:40	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	591895	11/01/22 09:06	MAB	EET DEN
Total/NA	Analysis	245.1		1			592071	11/01/22 13:23	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			591808	10/31/22 11:42	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	591990	11/01/22 13:16	ASP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	591390	10/26/22 17:43	SJD	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	591394	10/26/22 18:13	SJD	EET DEN

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

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Lab Sample ID: 280-168251-2 Matrix: Water

Lab Sample ID: 280-168251-3

Matrix: Water

Date Collected: 10/26/22 13:10 Date Received: 10/26/22 15:42

Client Sample ID: 2022-02-FB

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	591394	10/26/22 18:08	SJD	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			592061	11/01/22 16:09	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	591500	10/27/22 12:04	LRB	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			592291	11/03/22 14:26	DNM	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			592290	11/03/22 14:25	DNM	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			592172	11/02/22 16:30	ZPM	EET DEN

Client Sample ID: 2022-02-DUPLICATE Date Collected: 10/26/22 13:15 Date Received: 10/26/22 15:42

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Amount Number or Analyzed Run Factor Amount Analyst Lab Total/NA Prep 1631E 599016 10/31/22 15:00 VLC EET PEN 40 mL 40 ml Completed: 11/01/22 10:00 1 Total/NA 599102 EET PEN Analysis 1631E 1 11/03/22 10:45 VLC **Total Recoverable** Prep 200.7 50 mL 50 mL 591484 10/28/22 09:29 LJS EET DEN Total Recoverable 200.7 Rev 4.4 591726 10/29/22 03:18 KRP EET DEN Analysis 1 Potentially Dissolvec Filtration Poten Diss Met 1.0 mL 1.0 mL 591717 10/28/22 21:30 LRD EET DEN Potentially Dissolvec Prep 200.8 50 mL 50 mL 591813 11/02/22 08:33 LJS FFT DFN Potentially Dissolvec Analysis 200.8 1 592167 11/02/22 15:25 LMT EET DEN Total Recoverable 200.8 50 mL 50 mL 591408 10/27/22 15:15 MCR EET DEN Prep **Total Recoverable** Analysis 200.8 1 591631 10/28/22 09:42 LMT EET DEN Total/NA 245.1 30 mL 591895 11/01/22 09:06 MAB 50 mL FFT DFN Prep Total/NA Analysis 245.1 1 592071 11/01/22 13:26 KMS EET DEN Total/NA 10/31/22 11:42 KEG Analysis SM 2510B 1 591808 FFT DFN Total/NA Analysis SM 2540D 250 mL 250 mL 591990 11/01/22 13:16 ASP EET DEN 1 Filtration FILTRATION 1.0 mL 1.0 mL 591390 10/26/22 17:43 SJD Dissolved EET DEN Dissolved SM 3500 CR B 2 mL 591394 10/26/22 18:13 SJD Analysis 1 2 mL EET DEN Total/NA 2 mL Analysis SM 3500 CR B 1 2 mL 591394 10/26/22 18:08 SJD EET DEN Total/NA Analysis SM 4500 H+ B 1 592061 11/01/22 16:13 KEG EET DEN Total/NA Analysis SM 4500 S2 D 1 2 mL 2 mL 591500 10/27/22 12:04 LRB EET DEN Potentially Dissolvec Analysis SM3500 CR B 592291 11/03/22 14:26 DNM EET DEN 1 **Total Recoverable** Analysis SM3500 CR B 1 592290 11/03/22 14:25 DNM EET DEN Total/NA Analysis SM4500 S2 H 592172 11/02/22 16:30 ZPM EET DEN

Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Laboratory: Eurofins Denver

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

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Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
lowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-23

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23

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

Accreditation/Certification Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-168251-1

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Laboratory: Eurofins Pensacola (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
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

Phone (303) / 35-0100 Phone (303) 431-/11/1	Chain of Cus	stody Red	cord					senrorins	Environment Testing America
		Lab PM:			0	arrier Tracking No(s):		COC No:	
Client Information FOR This project,	BM	Bieniulis	, Dylan T						
ALLENTROMACE MOVEN	100 - 10 - 10 - 10 - 10	Dylan.B	eniulis@Euro	ofinset.com		state of Origin:		Page:	
Company: Grand Island Resources	:DISMd			Anal	ysis Requ	lested		Job #:	
Address: Due 12567 West Cedar Road Suite 250	ue Date Requested:		100			<u>К</u> ип: цзи		Preservation Codes	
City. TAT Lakewood	AT Requested (days):		an a	FR) and (calc) ER) and	pəziu	om ədi DəM br		A - HCL B - NaOH C - Zn Acetate	I - Hexane - None - AsNaO2
State, Zip: CO, 80466	ompliance Project: ∆ Yes ∆ No			5, SM4 B FILTI B FILTI	oinU - (s	t to tler ne clett	*	D - Nitric Acid E - NaHSO4	- Na204S - Na2SO3
Phone: 303 -5061 018 Adv	o #: dvance Payment Required	(D - T5 d Trivs Cr (LAI		l first I M eldi		F - MeOH G - Amchlor H - Ascorbic Acid	- Na2S2O3 - H2SO4 - TSD Dodershudrate
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Site: Surface Water Sampling	SOW#:	dwes	ar) az	ran Hex rai Hex	sbifide Sulfide Mero	ssiO yl 7 - 1.81 Anom	of con	Other:	
	Sample Sample Sample (C=Comp	Matrix (W=water, s=solid, d Filtered	W/SW unoj	B - Specific Temp	E - Low Lev Diftus nago - 0_22_0 - 0_22_0 - 0_22_0	8 - Potential 1 list) 7 / 2005 / 7 9 half of the	, Number 1		
Sample Identification	Sample Date Time G=grab)	BT=Tissue, A=Air)	Pert	2 3200 2 3200 2 3200	1631 Hydr	7 200. 7 200. 7 200.	401	Special Inst	uctions/Note:
2077-02	0/26/07 12: M G			$\frac{1}{2}$		×		* Surface water pote	tially dissolved metals
707707102	5 101 2012 · 00 G		>					Ni, Se, Ag, Zn)	s, ca, cr, cu, Pb, Mn,
	0 00. C17 097/10		-		<>			 *Surface water total 	ecoverable metals list
2022-02-PUDITCATE	0/16/22 15.10 6			× > × × × ×			22	= 200.7 (Fe), 200.8 (Zn), and 245.1 (Hg)	As, Cd, Cr, Cu, Pb,
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								temor	5°C,
			280-168251	Chain of O	ustody				
Possible Hazard Identification	h B 🗌 Unknown 🗌 Radiologica		Sample Disp	iosal (A fee To Client	may be as	sessed if sampl e sposal Bv Lab	ss are retain	ned longer than 1 m	o nth) Months
Deliverable Requested: I, II, III, IV, Other (specify)			Special Instru	ictions/QC F	tequirement				
Empty Kit Relinquished by:	Date:	μ	le:	$\left \right\rangle$		Method of Shipm	ent:		
Relinquished by:	3:42 DM (0/2% /22	Company	Received	A Here		Date	Time:	(1)-7, (ompany
Reinquished by: Date	ate/Time	Company	Received b			Date	Time:		ompany
Relinquished by: Date	ate/Time:	Company	Received by			Date	Time:		ompany
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			Cooler Tem	perature(s) °C a	and Other Rem	arksy 24	512	いいた	
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Chain of Custody Record



Arvada, CO 80002	5	hain c	of Cus	tody Kec	ord	=					S Environment Testing	
Phone: 303-736-0100 Fax: 303-431-7171	Sampler:			Lab PM:			Carrie	er Tracking No(s	:()	COC No:		_
Client Information (Sub Contract Lab)				Bieniulis,	Dylan T					280-633816.1		
Client Contact: Shipping/Receiving	Phone:			E-Mail: Dylan.Bie	eniulis@et.eurc	ofinsus.com	State Colo	of Origin: Irado		Page: Page 1 of 1		
Company: Eurofins Environment Testing Southeast,				Accr	editations Required	d (See note):				Job #: 280-168251-1	_	
Address: 3355 McLemore Drive,	Due Date Requeste	÷				Analvs	is Reques	ted		Preservation C	odes: - M - Hevane	r
city: Pensacola	TAT Requested (da	ys):		a de c						B - HCL B - NaOH C 70 Acetate	N - None O - AsNaO2	
state, Zip; FL, 32514					-48					 D - Nitric Acid E - NaHSO4 	P - Na204S Q - Na2S03 R - Na2S203	
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	HO#			(F - MeOH G - Amchlor H - Ascorbic Acic	S - H2SO4 T - TSP Dodecahydrate	
Email:	;# OM			OL NO	- (0					I - Ice J - DI Water	U - Acetone V - MCAA	
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821			sət) ə	87 OL N					K - EDTA L - EDA	Y - Pri 4-9 Y - Trizma Z - other (specify)	
Site:	SSOW#:			Idmes	də. də			-		of con		
Samula Mantification – Clivet ID /1 eb (D)	Common Commo	Sample	Sample Type (C=comp,	Matrix (W=water, s=solid, O=waste/oil, ee	631E/1631E_Pr					niedmuk) listo		r
	Saliple Date	X	Preserva	tion Code:								E
2022-02 (280-168251-1)	10/26/22	13:00 Mountoin		Water	×			2		-		1
2022-02 (280-168251-1MS)	10/26/22	13:00 Mountain	WS	Water	×					+		
2022-02-FB (280-168251-2)	10/26/22	13:10 Mountain		Water	×					1	-	
2022-02-DUPLICATE (280-168251-3)	10/26/22	13:15 Mountain		Water	×					1		
		5								1		1
Note: Since laboratory accreditations are subject to change, Eurofins TestA maintain accreditation in the State of Origin listed above for analysis/lests/m TestAmerica attention immeciately. If all requested accreditations are curre	merica places the ownership natrix being analyzed, the sa int to date, return the signed	o of method, ar mples must be Chain of Cust	lalyte & accrec shipped back ody attesting to	litation compliance u to the Eurofins Test said complicance to	oon out subcontrac America laboratory Eurofins TestAme	ct laboratories.	lhis sample shi ions will be prov	oment is forward vided. Any char	ded under chai nges to accredi	n-of-custody. If the lal tation status should be	oratory does not currently s brought to Eurofins	
Possible Hazard Identification					Sample Dispo	sal (A fee m	ay be asses	sed if samp	oles are reta	ined longer than	1 1 month)	—
Unconfirmed	:				Return T	o Client	Dispo	sal By Lab]	rchive For	Months	
Deliverable Requested: I, II, II, IV, Other (specify)	Primary Delivera	able Rank: 2			special Instruct	tions/QC Rec	luirements:					
Empty Kit Relinquished by:		Date:		Tim	e:			Method of Ship	oment:			
	Date/Time: OD2722	22 1	536	Company CTA DEH	Received by:			Da	te/Time:		Company	
Relinquished by:	Date/Time:			Company	Received by:			Da	te/Time:		Company	
Relinquished by:	Date/Time:			Company	Received by:	X	J	N ^{Da}	1.3°S 3	9 08:60	Company	
Custody Seals Intact: Custody Seal No.: △ Yes △ No					Cooler Tempe	srature(s) °C and	Other Remarks	3	E Je C	PK		
											Var. 06/08/2021	1



Client: GS Mining Company LLC

Login Number: 168251 List Number: 1 Creator: Rystrom, Joshua R

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 280-168251-1

List Source: Eurofins Denver

Client: GS Mining Company LLC

Login Number: 168251 List Number: 2 Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	2.2°C IR8
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Pensacola

List Creation: 10/28/22 11:29 AM

APPENDIX C.2 NOVEMBER 2022 SURFACE WATER ANALYTICAL RESULTS



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Delaney GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427 Generated 12/8/2022 8:32:46 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-169645-1

Eurofins Denver 4955 Yarrow Street Arvada CO 80002







Eurofins Denver

Job Notes

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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

B - 1

Generated 12/8/2022 8:32:46 PM

Authorized for release by Dylan Bieniulis, Project Manager I Dylan.Bieniulis@et.eurofinsus.com (303)736-0138

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PRES

QC

RER

RL RPD

TEF

TEQ

TNTC

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Qualifiers		
Metals		
Qualifier	Qualifier Description	
В	Compound was found in the blank and sample.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	2
General Che	emistry	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
Н	Sample was prepped or analyzed beyond the specified holding time	
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.	
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	4
%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	

Job ID: 280-169645-1

Laboratory: Eurofins Denver

Narrative

Job ID: 280-169645-1

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Nederland, CO

Report Number: 280-169645-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

<u>RECEIPT</u>

The samples were received on 11/28/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.9 C.

The unpreserved plastic 500mL bottle submitted for sample 2022-02 (280-169645-1) with a container label indicating the container is for Specific Conductivity, TSS, and pH analysis was received empty. The laboratory will use the 500mL plastic bottle of unpreserved sample volume submitted for the 2022-02-MS (280-169645-1 MS) for the parent sample analysis. No corrective action required. The client was notified on 11/28/2022.

TOTAL RECOVERABLE METALS (ICP)

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 11/30/2022 and analyzed on 12/01/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/30/2022 and analyzed on 12/01/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/30/2022 and 12/06/2022 and analyzed on 12/01/2022 and 12/06/2022.

Cadmium and Zinc were detected in method blank MB 280-594821/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 280-169645-1 (Continued)

Laboratory: Eurofins Denver (Continued)

TOTAL MERCURY (CVAA)

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 12/03/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 12/08/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500 CR3 B. The samples were analyzed on 12/08/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 11/29/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 11/29/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 11/29/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 11/29/2022.

Chromium, hexavalent failed the recovery criteria high for the MS of sample 2022-02-MS (280-169645-1) in batch 280-594932. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 11/29/2022 and 12/05/2022.

Sample 2022-02-FB (280-169645-3) did not equilibrate to within 0.05 pH units after three measurements. This was observed in a previous analysis thus the sample was not rerun.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 280-169645-1 (Continued)

Laboratory: Eurofins Denver (Continued)

SULFIDE

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 12/02/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 12/06/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Samples 2022-02 (280-169645-1), 2022-02-FB (280-169645-3) and 2022-02-DUPLICATE (280-169645-4) were analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 11/30/2022 and analyzed on 12/01/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client Sample ID: 2022-02

Lab Sample ID: 280-169645-1

Lab Sample ID: 280-169645-3

Lab Sample ID: 280-169645-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Mercury	1.8		0.50	0.20	ng/L	1	1631E	Total/NA
Iron	37	J	100	9.1	ug/L	1	200.7 Rev 4.4	Total
								Recoverable
Cadmium	0.13	J	1.0	0.088	ug/L	1	200.8	Total
								Recoverable
Copper	0.78	J	2.0	0.71	ug/L	1	200.8	Total
	0.05		4.0					Recoverable
Lead	0.95	J	1.0	0.23	ug/L	1	200.8	lotal
Zinc	5 5		10	2.0	ug/l	1	200.8	Recoverable
ZIIIC	5.5	J	10	2.0	ug/L	I	200.0	Recoverable
lead	0.63		1.0	0.23	ua/l		200.8	Potentially
2000	0.00	0		0.20	ug/L		200.0	Dissolved
Manganese	1.6	J	2.0	0.51	ug/L	1	200.8	Potentially
-					-			Dissolved
Zinc	8.9	J	10	2.0	ug/L	1	200.8	Potentially
								Dissolved
Specific Conductance	230		2.0	2.0	umhos/cm	1	SM 2510B	Total/NA
pH adj. to 25 deg C	8.2	HF	0.1	0.1	SU	1	SM 4500 H+ B	Total/NA
Temperature	23.4	HF	1.0	1.0	Degrees C	1	SM 4500 H+ B	Total/NA
Sulfide	0.036	J	0.050	0.022	mg/L	1	SM 4500 S2 D	Total/NA
Field pH	8.2		1.0	1.0	SU	1	SM4500 S2 H	Total/NA
Field Temperature	23		1.0	1.0	Celsius	1	SM4500 S2 H	Total/NA
Specific Conductance	230		2.0	2.0	umhos/cm	1	SM4500 S2 H	Total/NA

Client Sample ID: 2022-02-FB

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	4.5	J	10	2.0	ug/L	1	_	200.8	Potentially
									Dissolved
pH adj. to 25 deg C	6.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	23.9	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	6.4		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	24		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02-DUPLICATE

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.9		0.50	0.20	ng/L	1	_	1631E	Total/NA
Iron	39	J	100	9.1	ug/L	1		200.7 Rev 4.4	Total
Lead	0.74	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	3.9	JB	10	2.0	ug/L	1		200.8	Total
Lead	0.62	J	1.0	0.23	ug/L	1		200.8	Potentially
Manganese	1.7	J	2.0	0.51	ug/L	1		200.8	Potentially
Zinc	8.6	J	10	2.0	ug/L	1		200.8	Potentially
Specific Conductance	230		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	8.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	23.4	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Sulfide	0.032	J	0.050	0.022	mg/L	1		SM 4500 S2 D	Total/NA
Field pH	8.3		1.0	1.0	SU	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

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Detection Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO Job ID: 280-169645-1

Client Sample ID: 2022-02-DUPLICATE (Continued)						Lab Sample ID: 280-169645-4				
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Field Temperature	23		1.0	1.0	Celsius	1	_	SM4500 S2 H	Total/NA	
Specific Conductance	230		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA	

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN
Poten_Diss_Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: GS Mining Company LLC Project/Site: Nederland, CO

Client Sample ID	Matrix	Collected	Received
2022-02	Water	11/28/22 11:30	11/28/22 16:07
2022-02-FB	Water	11/28/22 11:35	11/28/22 16:07
2022-02-DUPLICATE	Water	11/28/22 11:40	11/28/22 16:07
	Client Sample ID 2022-02 2022-02-FB 2022-02-DUPLICATE	Client Sample IDMatrix2022-02Water2022-02-FBWater2022-02-DUPLICATEWater	Client Sample ID Matrix Collected 2022-02 Water 11/28/22 11:30 2022-02-FB Water 11/28/22 11:35 2022-02-DUPLICATE Water 11/28/22 11:40

Job ID: 280-169645-1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: 2022.02							Lab Sami	alo ID: 280-14	0645-1
Data Colloctod: 11/28/22 11:30							Lab Salin	pie ID. 200-it Matriv	· Wator
Date Conected: 11/20/22 11:30								Wath	. Water
Date Received. 11/20/22 10.07	Decult	Qualifier	ы	MDI	11		Drenered	Analyzad	
	Result	Quaimer	KL			<u>D</u>	11/20/22 15:10	Allalyzeu	
wercury	1.0		0.50	0.20	ng/L		11/30/22 15.10	12/01/22 12.19	I
Client Sample ID: 2022-02-FB							Lab Sam	nle ID [.] 280-16	9645-3
Date Collected: 11/28/22 11:35							Lub Ourin	Matrix	· Wator
Date Received: 11/28/22 16:07								matrix	· ···
Analyte	Result	Qualifier	RI	мрі	Unit	р	Prepared	Analyzed	Dil Fac
Mercury		duamor	0.50	0.20	na/l		11/30/22 15:10	12/01/22 12:34	1
	ne.		0.00	0.20	11g/ E		100022 10110		
Client Sample ID: 2022-02-DUPL	ICATE						Lab Sam	ole ID: 280-16	9645-4
Date Collected: 11/28/22 11:40								Matrix	: Water
Date Received: 11/28/22 16:07									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9		0.50	0.20	ng/L		11/30/22 15:10	12/01/22 12:41	1
					0				
Method: EPA 200.7 Rev 4.4	 Metals 	(ICP) - To	otal Recov	erable					
Client Sample ID: 2022-02							Lab Sam	pie ID: 280-16	9645-1
Date Collected: 11/28/22 11:30								Matrix	: Water
Date Received: 11/28/22 16:07						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	37	J	100	9.1	ug/L		11/30/22 14:42	12/01/22 17:32	1
Client Sample ID: 2022 02 EB							Lab Sam	ala ID: 280.44	0645 2
Data Colloctod: 11/28/22 11:35							Lab Sam	pie ID. 200-it Matriv	· Wator
Date Collected: 11/20/22 11:55								Watrix	. water
Date Received: 11/20/22 10:07	Beault	Qualifiar	ы	МП	Unit	_	Branarad	Applyzod	
	Result	Quaimer	RL				Prepareu	Analyzeu	
	ND		100	9.1	ug/L		11/30/22 14:42	12/01/22 16:03	I
Client Sample ID: 2022-02-DUPI							Lab Sam	nle ID [.] 280-16	9645-4
Date Collected: 11/28/22 11:40							Lub Ourin	Matrix	· Wator
Date Received: 11/28/22 16:07								matrix	· ···
Analyte	Result	Qualifier	RI	мы	Unit	п	Prenared	Analyzed	Dil Fac
	20		100	9.1			11/30/22 14:42	12/01/22 18:07	1
		.	100	0.1	ug/L		11/00/22 14.42	12/01/22 10:07	
Method: EPA 200.8 - Metals	(ICP/MS	6) - Total I	Recoverab	le					
Client Sample ID: 2022-02							Lab Sam	ple ID: 280-16	9645-1
Date Collected: 11/28/22 11:30								Matrix	: Water
Date Received: 11/28/22 16:07									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/06/22 07:58	12/06/22 22:14	1
Cadmium	0.13	J	1.0	0.088	ug/L		12/06/22 07:58	12/06/22 22:14	1
Chromium	ND		3.0	0.88	ug/L		12/06/22 07:58	12/06/22 22:14	1
Copper	0.78	J	2.0	0.71	ug/L		12/06/22 07:58	12/06/22 22:14	1
Lead	0.95	J	1.0	0.23	ug/L		12/06/22 07:58	12/06/22 22:14	1
Zinc	5.5	J	10	2.0	ug/L		12/06/22 07:58	12/06/22 22:14	1
									0045 0
Client Sample ID: 2022-02-FB							Lab Sam	pie ום: 280-16	9645-3
Date Collected: 11/28/22 11:35								Matrix	: water
Date Received: 11/28/22 16:07				·		_	_ .		-
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/30/22 07:50	12/01/22 22:02	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: 2022-02-FB Date Collected: 11/28/22 11:35 Date Received: 11/28/22 16:07							Lab Sam	ple ID: 280-16 Matrix:	9645-3 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.088	ug/L		11/30/22 07:50	12/01/22 22:02	1
Chromium	ND		3.0	0.88	ug/L		11/30/22 07:50	12/01/22 22:02	1
Copper	ND		2.0	0.71	ug/L		11/30/22 07:50	12/01/22 22:02	1
Lead	ND		1.0	0.23	ug/L		11/30/22 07:50	12/01/22 22:02	1
Zinc	ND		10	2.0	ug/L		11/30/22 07:50	12/01/22 22:02	1
Client Sample ID: 2022-02-DUPLI Date Collected: 11/28/22 11:40 Date Received: 11/28/22 16:07	CATE						Lab Sam	ple ID: 280-16 Matrix:	9645-4 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/30/22 07:50	12/01/22 22:04	1
Cadmium	ND		1.0	0.088	ug/L		11/30/22 07:50	12/01/22 22:04	1
Chromium	ND		3.0	0.88	ug/L		11/30/22 07:50	12/01/22 22:04	1
Copper	ND		2.0	0.71	ug/L		11/30/22 07:50	12/01/22 22:04	1
Lead	0.74	J	1.0	0.23	ug/L		11/30/22 07:50	12/01/22 22:04	1
Zinc	3.9	JB	10	2.0	ug/L		11/30/22 07:50	12/01/22 22:04	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: 2022-02 Date Collected: 11/28/22 11:30

Date Received: 11/28/22 16:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/30/22 07:50	12/01/22 22:32	1
Cadmium	ND		1.0	0.088	ug/L		11/30/22 07:50	12/01/22 22:32	1
Chromium	ND		3.0	0.88	ug/L		11/30/22 07:50	12/01/22 22:32	1
Copper	ND		2.0	0.71	ug/L		11/30/22 07:50	12/01/22 22:32	1
Lead	0.63	J	1.0	0.23	ug/L		11/30/22 07:50	12/01/22 22:32	1
Manganese	1.6	J	2.0	0.51	ug/L		11/30/22 07:50	12/01/22 22:32	1
Nickel	ND		2.0	0.28	ug/L		11/30/22 07:50	12/01/22 22:32	1
Selenium	ND		5.0	1.0	ug/L		11/30/22 07:50	12/01/22 22:32	1
Silver	ND		0.50	0.045	ug/L		11/30/22 07:50	12/01/22 22:32	1
Zinc	8.9	J	10	2.0	ug/L		11/30/22 07:50	12/01/22 22:32	1

Client Sample ID: 2022-02-FB Date Collected: 11/28/22 11:35

Date Received: 11/28/22 16:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/30/22 07:50	12/01/22 22:38	1
Cadmium	ND		1.0	0.088	ug/L		11/30/22 07:50	12/01/22 22:38	1
Chromium	ND		3.0	0.88	ug/L		11/30/22 07:50	12/01/22 22:38	1
Copper	ND		2.0	0.71	ug/L		11/30/22 07:50	12/01/22 22:38	1
Lead	ND		1.0	0.23	ug/L		11/30/22 07:50	12/01/22 22:38	1
Manganese	ND		2.0	0.51	ug/L		11/30/22 07:50	12/01/22 22:38	1
Nickel	ND		2.0	0.28	ug/L		11/30/22 07:50	12/01/22 22:38	1
Selenium	ND		5.0	1.0	ug/L		11/30/22 07:50	12/01/22 22:38	1
Silver	ND		0.50	0.045	ug/L		11/30/22 07:50	12/01/22 22:38	1
Zinc	4.5	J	10	2.0	ug/L		11/30/22 07:50	12/01/22 22:38	1

Eurofins Denver

5

8

Lab Sample ID: 280-169645-1

Lab Sample ID: 280-169645-3

Matrix: Water

Matrix: Water

5

8

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: 2022-02-DUPLICATE Date Collected: 11/28/22 11:40

Lab Sample ID: 280-169645-4 Matrix: Water

Date Received: 11/28/22 16:07									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/30/22 07:50	12/01/22 22:40	1
Cadmium	ND		1.0	0.088	ug/L		11/30/22 07:50	12/01/22 22:40	1
Chromium	ND		3.0	0.88	ug/L		11/30/22 07:50	12/01/22 22:40	1
Copper	ND		2.0	0.71	ug/L		11/30/22 07:50	12/01/22 22:40	1
Lead	0.62	J	1.0	0.23	ug/L		11/30/22 07:50	12/01/22 22:40	1
Manganese	1.7	J	2.0	0.51	ug/L		11/30/22 07:50	12/01/22 22:40	1
Nickel	ND		2.0	0.28	ug/L		11/30/22 07:50	12/01/22 22:40	1
Selenium	ND		5.0	1.0	ug/L		11/30/22 07:50	12/01/22 22:40	1
Silver	ND		0.50	0.045	ug/L		11/30/22 07:50	12/01/22 22:40	1
Zinc	8.6	J	10	2.0	ug/L		11/30/22 07:50	12/01/22 22:40	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: 2022-02 Date Collected: 11/28/22 11:30 Date Received: 11/28/22 16:07							Lab Sam	ole ID: 280-16 Matrix:	9645-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		12/03/22 13:04	12/03/22 18:15	1
Client Sample ID: 2022-02-FB Date Collected: 11/28/22 11:35 Date Received: 11/28/22 16:07							Lab Sam	ole ID: 280-16 Matrix:	9645-3 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		12/03/22 13:04	12/03/22 18:28	1
Client Sample ID: 2022-02-DUPL Date Collected: 11/28/22 11:40 Date Received: 11/28/22 16:07	ICATE						Lab Sam	ole ID: 280-16 Matrix:	9645-4 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		12/03/22 13:04	12/03/22 18:31	1

General Chemistry

Client Sample ID: 2022-02 Date Collected: 11/28/22 11:30 Date Received: 11/28/22 16:07							Lab Sam	nple ID: 280-16 Matrix	9645-1 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm		-	11/29/22 09:45	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			11/29/22 13:22	1
Chromium, hexavalent (SM 3500 CR B)	ND	F1	0.020	0.0040	mg/L			11/29/22 10:59	1
pH adj. to 25 deg C (SM 4500 H+ B	8.2	HF	0.1	0.1	SU			11/29/22 11:57	1
Temperature (SM 4500 H+ B)	23.4	HF	1.0	1.0	Degrees C			11/29/22 11:57	1
Sulfide (SM 4500 S2 D)	0.036	J	0.050	0.022	mg/L			12/02/22 15:05	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			12/06/22 16:38	1
Field pH (SM4500 S2 H)	8.2		1.0	1.0	SU			12/06/22 16:38	1
Field Temperature (SM4500 S2 H)	23		1.0	1.0	Celsius			12/06/22 16:38	1
Specific Conductance (SM4500 S2 H)	230		2.0	2.0	umhos/cm			12/06/22 16:38	1
Sulfide (SM4500 S2 H)	ND		4.0	4.0	mg/L			12/06/22 16:38	1

RL

2.0

4.0

0.1

1.0

1.0

1.0

1.0

2.0

4.0

0.050

0.020

MDL Unit

1.1 mg/L

0.0040 mg/L

0.1 SU

0.022 mg/L

1.0 mg/L

1.0 SU

1.0 Celsius

4.0 mg/L

2.0 umhos/cm

2.0 umhos/cm

1.0 Degrees C

D

Prepared

Result Qualifier

ND

ND

ND

6.4 HF

23.9 HF

ND

ND

6.4

24

ND

ND

General Chemistry

Analyte

B)

S2 H)

Client Sample ID: 2022-02-FB
Date Collected: 11/28/22 11:35
Date Received: 11/28/22 16:07

Specific Conductance (SM 2510B)

Total Suspended Solids (SM 2540D)

Chromium, hexavalent (SM 3500 CR

pH adj. to 25 deg C (SM 4500 H+ B

Un-ionized Hydrogen Sulfide (SM4500

Field Temperature (SM4500 S2 H)

Specific Conductance (SM4500 S2 H)

Date Collected: 11/28/22 11:40

Client Sample ID: 2022-02-DUPLICATE

Temperature (SM 4500 H+ B)

Sulfide (SM 4500 S2 D)

Field pH (SM4500 S2 H)

Sulfide (SM4500 S2 H)

Lab Sample	ID: 280-169645-3
	Matrix: Water

Analyzed

11/29/22 09:45

11/29/22 13:22

11/29/22 11:01

12/05/22 17:38

12/05/22 17:38

12/02/22 15:06

12/06/22 16:38

12/06/22 16:38

12/06/22 16:38

12/06/22 16:38

12/06/22 16:38

Job ID: 280-169645-1

Dil Fac

1

1

1

1

1

1

1

1

1

1

1

Lab Sample	ID: 280-169645-4
	Matrix: Water

Date Received: 11/28/22 16:07									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm			11/29/22 09:45	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			11/29/22 13:22	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			11/29/22 11:02	1
pH adj. to 25 deg C (SM 4500 H+ B	8.3	HF	0.1	0.1	SU			11/29/22 12:07	1
Temperature (SM 4500 H+ B)	23.4	HF	1.0	1.0	Degrees C			11/29/22 12:07	1
Sulfide (SM 4500 S2 D)	0.032	J	0.050	0.022	mg/L			12/02/22 15:06	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			12/06/22 16:38	1
Field pH (SM4500 S2 H)	8.3		1.0	1.0	SU			12/06/22 16:38	1
Field Temperature (SM4500 S2 H)	23		1.0	1.0	Celsius			12/06/22 16:38	1
Specific Conductance (SM4500 S2 H)	230		2.0	2.0	umhos/cm			12/06/22 16:38	1
Sulfide (SM4500 S2 H)	ND		4.0	4.0	mg/L			12/06/22 16:38	1

General Chemistry - Total Recoverable

Client Sample ID: 2022-02 Date Collected: 11/28/22 11:30 Date Received: 11/28/22 16:07							Lab Sam	nple ID: 280-16 Matrix	9645-1 : Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND	Н	0.020	0.020	mg/L		-	12/08/22 09:22	1
Client Sample ID: 2022-02-FB							Lab Sam	nple ID: 280-16	9645-3
Date Collected: 11/28/22 11:35								Matrix	: Water
Date Received: 11/28/22 16:07									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND	Н	0.020	0.020	mg/L			12/08/22 09:22	1
Client Sample ID: 2022-02-DUPL	ICATE						Lab San	nple ID: 280-16	9645-4
Date Collected: 11/28/22 11:40								Matrix	: Water
Date Received: 11/28/22 16:07									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND	Н	0.020	0.020	mg/L			12/08/22 09:22	1

Job ID: 280-169645-1

General Chemistry - Dissolved

Client Sample ID: 2022-02 Date Collected: 11/28/22 11:30 Date Received: 11/28/22 16:07							Lab Sam	ple ID: 280-16 Matrix:	9645-1 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR	ND		0.020	0.0040	mg/L			11/29/22 11:04	1
_B)					U U				
Client Sample ID: 2022-02-FB							Lab Sam	ple ID: 280-16	9645-3
Date Collected: 11/28/22 11:35								Matrix:	Water
Date Received: 11/28/22 16:07									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			11/29/22 11:06	1
Client Sample ID: 2022-02-DUPL Date Collected: 11/28/22 11:40	ICATE						Lab Sam	ple ID: 280-16 Matrix:	9645-4 Water
Date Received: 11/28/22 16:07	Desult	Overlifier			11		Duran and	A so a los so a l	
Chromium, hovevelent (SM 2500 CD	Result	Qualifier	RL			D	Prepared	Analyzed	
B)	ND		0.020	0.0040	mg/L			11/29/22 11.21	I
General Chemistry - Potenti	ally Dis	solved					Lob Som	nlo ID: 290.46	0645.4
Date Collected: 11/28/22 11:30							Lap Sam	Matrix:	Water
Date Received: 11/28/22 16:07									
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) _(SM3500 CR B)	ND		0.020	0.020	mg/L			12/08/22 09:24	1
Client Sample ID: 2022-02-FB Date Collected: 11/28/22 11:35 Date Received: 11/28/22 16:07							Lab Sam	ple ID: 280-16 Matrix:	9645-3 Water
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L			12/08/22 09:24	1
Client Sample ID: 2022-02-DUPL	ICATE						Lab Sam	ple ID: 280-16	9645-4
Date Collected: 11/28/22 11:40								Matrix	Water
Date Received: 11/28/22 16:07						_	_ .		
Analyte	Result	Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		0.020	0.020	mg/L			12/08/22 09:24	1

Job ID: 280-169645-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-60)2962/3-A								Clie	ent Samp	ole ID: Meth	od E	Blank
Matrix: Water											Prep Type:	Tota	al/NA
Analysis Batch: 603035											Prep Batcl	1: <mark>60</mark>	2962
		MB MB											
Analyte	Re	sult Qualifier		RL		MDL	Unit		D P	repared	Analyzed		il Fac
Mercury		ND		0.50		0.20	ng/L		11/3	80/22 16:00	12/01/22 10:0)9	1
	02062/4 4							Clie	nt Sa		Lob Contro		mala
Matrix: Wator	02902/4-A							Cile	iii 3a	inple iD.	Prop Type:	Tot:	
Apolycic Potch: 602025											Prop Batel	1010	2062
Analysis Batch. 003035			Sniko		1.05	105					%Rec	1. 00	2302
Analyte					Result	0112	lifior	Unit	п	%Rec	/intec		
Mercury	·		5.00		4 58	Quu		ng/l		92	79 . 121		
			0.00		1.00			ng/E		02	101121		
Lab Sample ID: LCSD 400	-602962/5-A						C	lient Sa	ample	ID: Lab	Control Sai	nple	Dup
Matrix: Water											Prep Type:	Tota	al/NA
Analysis Batch: 603035											Prep Batcl	1: <mark>60</mark>	2962
			Spike		LCSD	LCS	D				%Rec		RPD
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits F	PD	Limit
Mercury			5.00		4.62			ng/L		92	79_121	1	20
<u> </u>													
Lab Sample ID: 280-16964	5-1 MS								C	Client Sa	mple ID: 20	22-0	2-MS
Matrix: Water											Prep Type:	Tota	al/NA
Analysis Batch: 603035											Prep Batcl	1: <mark>60</mark>	2962
	Sample	Sample	Spike		MS	MS			_		%Rec		
Analyte	Result	Qualifier	Added		Result	Qua	lifier	Unit	<u>D</u>	%Rec	Limits		
Mercury	1.8		5.00		6.19			ng/L		87	71 - 125		
Method: 200.7 Rev 4.4	- Metals (ICP)											
Γ													
Lab Sample ID: MB 280-59	94892/1-A								Clie	ent Samp	Die ID: Meth	od E	slank
Matrix: water										rep typ	e: lotal Red	:ove	
Analysis Batch: 595332											Prep Batci	1: 59	4892
Amelyte	Da			ы			11				A makers of	-	
	KE			100					U P	10/22 14:42	401/02 16:	<u> </u>	
		ND		100		9.1	uy/L		11/0	0/22 14.42	12/01/22 10.	00	1
Lab Sample ID: LCS 280-5	94892/2-A							Clie	nt Sa	mple ID:	Lab Contro	l Sa	mple
Matrix: Water								-	F	Prep Typ	e: Total Red	ove	rable
Analysis Batch: 595332											Prep Batcl	1: 59	4892
····· , ··· ·····			Spike		LCS	LCS	;				%Rec		
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Iron	·		10000		10500			ug/L		105	85 - 115		
								-					
Lab Sample ID: 280-16964	5-1 MS								C	Client Sa	mple ID: 20	22-0 2	2-MS
Matrix: Water									F	Prep Typ	e: Total Red	:ove	rable
Analysis Batch: 595332											Prep Batcl	ו: <mark>59</mark>	4892
	Sample	Sample	Spike		MS	MS					%Rec		
Analyte	Result	Qualifier	Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Iron	37	J	10000		10300			ug/L		103	70 - 130		

Job ID: 280-169645-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 280-169645-1 MSD Matrix: Water								Cliei Prep Ty	nt Sample pe: Total F	ID: 20 Recove	22-02 erable
Analysis Batch: 595332									Prep Ba	tch: 59	94892
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	37	J	10000	10400		ug/L		103	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-5948 Matrix: Water Analysis Batch: 595318	21/1-A						Client Samp Prep Type	le ID: Method : Total Recov Prep Batch: {	l Blank /erable 594821
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/30/22 07:50	12/01/22 21:19	1
Cadmium	0.195	J	1.0	0.088	ug/L		11/30/22 07:50	12/01/22 21:19	1
Chromium	ND		3.0	0.88	ug/L		11/30/22 07:50	12/01/22 21:19	1
Copper	ND		2.0	0.71	ug/L		11/30/22 07:50	12/01/22 21:19	1
Lead	ND		1.0	0.23	ug/L		11/30/22 07:50	12/01/22 21:19	1
Zinc	4.00	J	10	2.0	ug/L		11/30/22 07:50	12/01/22 21:19	1

Lab Sample ID: LCS 280-594821/2-A Matrix: Water

Analysis Batch: 595318

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	40.1		ug/L		100	89 - 111	
Cadmium	40.0	39.8		ug/L		100	89 - 111	
Chromium	40.0	39.5		ug/L		99	86 - 115	
Copper	40.0	40.3		ug/L		101	90 - 115	
Lead	40.0	41.0		ug/L		103	88 - 115	
Zinc	40.0	40.4		ug/L		101	88 - 115	

Lab Sample ID: LCSD 280-594821/3-A Matrix: Water

Analysis Batch: 595318

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	40.0	41.5		ug/L		104	89 - 111	4	20
Cadmium	40.0	38.8		ug/L		97	89 - 111	3	20
Chromium	40.0	40.2		ug/L		100	86 - 115	2	20
Copper	40.0	40.7		ug/L		102	90 - 115	1	20
Lead	40.0	39.5		ug/L		99	88 - 115	4	20
Zinc	40.0	40 1		ua/l		100	88 - 115	1	20

Lab Sample ID: MB 280-595529/1-A Matrix: Water

Analysis Batch: 595811

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/06/22 07:58	12/06/22 22:11	1
Cadmium	ND		1.0	0.088	ug/L		12/06/22 07:58	12/06/22 22:11	1
Chromium	ND		3.0	0.88	ug/L		12/06/22 07:58	12/06/22 22:11	1
Copper	ND		2.0	0.71	ug/L		12/06/22 07:58	12/06/22 22:11	1
Lead	ND		1.0	0.23	ug/L		12/06/22 07:58	12/06/22 22:11	1

MD MD

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Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 595529

Prep Batch: 594821

Prep Batch: 594821

Nickel

QC Sample Results

Job ID: 280-169645-1

Client: GS Mining Company Li												JOD ID: 2	80-16	964	5-1
Project/Site: Nederland, CO															
Method: 200.8 - Metals (ICP/MS)	(Cc	ontinue	d)											- 1
Lab Sample ID: MB 280-595	529/1-A									Clie	ent Samp	ole ID: M	ethod	l Bla	ink
Matrix: Water											rep typ	e: Iotal	Recov	/era	DIE
Analysis Batch: 595811		мв	мв									Ргер Ва	atch: t	5955)Z9
Analyta	Ba		NB		ы			Init	,	ם ר	ronorod	Analy	-od		Eaa
			Quaimer		10					- <u>-</u>	6/22 07·58	12/06/22	22·11		
		ND			10		2.0	ug/L		12/0	0/22 07.00	12/00/22	22.11		
Lab Sample ID: LCS 280-59	5529/2-A								Clie	nt Sai	nple ID:	Lab Cor	ntrol S	Sam	ple
Matrix: Water										F	Prep Typ	e: Total	Recov	/era	ble
Analysis Batch: 595811												Prep Ba	atch: {	5955	529
				Spike		LCS	LCS					%Rec			
Analyte				Added		Result	Quali	fier	Unit	D	%Rec	Limits			_
Arsenic				40.0		41.1			ug/L		103	89 - 111			
Cadmium				40.0		39.5			ug/L		99	89 - 111			- 7
Chromium				40.0		39.6			ug/L		99	86 - 115			
Copper				40.0		40.6			ug/L		102	90 - 115			
Lead				40.0		39.1			ug/L		98	88 - 115			
Zinc				40.0		40.8			ug/L		102	88 - 115			
- Loh Samala ID: 280, 160645	4 MC									~	lient Co		2022	0.2.1	Me
Lab Sample ID: 280-169645	-1 1412										lient Sa	mple ID:	2022-	-02-1	
Matrix: Water											rep typ	e: Total	Recov		
Analysis Batch: 595611	Sampla	Sam	nlo	Sniko		МЗ	MS					Preр Da	aton: c	5955	29
Analyto	Bosult	Oua	lifior			Posult	Ouali	fior	Unit	п	%Pac	/intec			
	ND	Qua		40.0		42 A	Quan	nei			106	70 120			_
Cadmium	0.13			40.0		40.6			ug/L		100	80 111			
Chromium		5		40.0		40.0			ug/L		101	86 115			
Copper	0.78			40.0		41.3			ug/L		102	90 115			
Lead	0.95	.1		40.0		41.5			ug/L		101	88 - 115			
Zinc	5.5	J		40.0		46.7			ua/L		103	88 - 115			
		-							3,-						
Lab Sample ID: 280-169645	-1 MSD										Client	t Sample	• ID: 2	022·	-02
Matrix: Water										F	Prep Typ	e: Total	Recov	/era	ble
Analysis Batch: 595811												Prep Ba	atch: {	5955	529
	Sample	Sam	nple	Spike		MSD	MSD					%Rec		R	₹PD
Analyte	Result	Qua	lifier	Added		Result	Quali	fier	Unit	D	%Rec	Limits	RPD) <u>Li</u>	imit
Arsenic	ND			40.0		42.0			ug/L		105	79 - 120	1		20
Cadmium	0.13	J		40.0		41.1			ug/L		102	89 - 111	1		20
Chromium	ND			40.0		41.2			ug/L		103	86 - 115	1		20
Copper	0.78	J		40.0		41.4			ug/L		101	90 - 115	0)	20
Lead	0.95	J		40.0		41.8			ug/L		102	88 - 115	1		20
Zinc	5.5	J		40.0		46.9			ug/L		104	88 - 115	0)	20
- Lob Somalo ID: MB 280 50/	1024/4 D										nt Com				
Lab Salliple ID. Wib 200-554 Matrix: Wator	1034/ I-D									Drop	ant Samp	Die ID. IVI			unk vod
Mallix, Waler Analysis Batch: 595318										Fiel	луре. г	Drop R	iy Dis atch: /	5019	7eu 274
Analysis Datell. 333310		MR	мв									Lich Do	aton. t	5540	, , , , ,
Analyte	R	sult	Qualifier		RI		י וסא	Unit	г) P	repared	Δnalv	zed	ווח	Fac
Arsenic		ND	quanter		5.0		0.50	Ja/l	'	11/3	0/22 07:50	12/01/22	22.19		1
Cadmium					1.0	ſ	0.88	9,⊏ 10/I		11/3	0/22 07:50	12/01/22	22.10		1
Chromium		ND			3.0	, c	0.88	_g,∟ Ja∖I		11/3	0/22 07:50	12/01/22	22.19		1
Copper		ND			2.0		0.71	Ja/L		11/3	0/22 07:50	12/01/22	22:19		· · · 1
Lead		ND			1.0		0.23	Ja/I		11/3	0/22 07:50	12/01/22	22:19		1
Manganese		ND			2.0		0.51	Ja/L		11/3	0/22 07:50	12/01/22	22:19		1
J								J. –							

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11/30/22 07:50 12/01/22 22:19

2.0

0.28 ug/L

ND

1

5

9

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-594634/1-B Matrix: Water

latrix: Water							Prep Type: Potentially Dise						
Analysis Batch: 595318								Prep Batch:	594874				
	MB	MB											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
Selenium	ND		5.0	1.0	ug/L		11/30/22 07:50	12/01/22 22:19	1				
Silver	ND		0.50	0.045	ug/L		11/30/22 07:50	12/01/22 22:19	1				
Zinc	ND		10	2.0	ug/L		11/30/22 07:50	12/01/22 22:19	1				

Lab Sample ID: LCS 280-594634/2-B Matrix: Water Analysis Batch: 595318

Analysis Batch: 595318							Prep Batch: 594874
-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	40.0	40.3		ug/L		101	89 - 111
Cadmium	40.0	39.1		ug/L		98	89 - 111
Chromium	40.0	39.4		ug/L		99	86 - 115
Copper	40.0	39.7		ug/L		99	90 - 115
Lead	40.0	39.8		ug/L		99	88 - 115
Manganese	40.0	39.4		ug/L		99	87 - 115
Nickel	40.0	39.2		ug/L		98	86 - 115
Selenium	40.0	39.6		ug/L		99	85 - 114
Silver	40.0	38.7		ug/L		97	90 - 114
Zinc	40.0	40.4		ug/L		101	88 - 115

Lab Sample ID: 280-169645-1 MS Matrix: Water Analysis Batch: 595318

Analysis Batch: 595318									Prep Batch: 594874
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		40.0	40.1		ug/L		100	79 - 120
Cadmium	ND		40.0	38.7		ug/L		97	89 - 111
Chromium	ND		40.0	39.5		ug/L		99	86 - 115
Copper	ND		40.0	40.4		ug/L		101	90 - 115
Lead	0.63	J	40.0	40.9		ug/L		101	88 - 115
Manganese	1.6	J	40.0	41.1		ug/L		99	87 - 115
Nickel	ND		40.0	39.0		ug/L		98	86 - 115
Selenium	ND		40.0	40.5		ug/L		101	85 - 114
Silver	ND		40.0	38.8		ug/L		97	70 - 130
Zinc	8.9	J	40.0	47.2		ug/L		96	88 - 115

Lab Sample ID: 280-169645-1 MSD Matrix: Water Analysis Batch: 595318

Client Sample ID: 2022-02 Prep Type: Potentially Dissolved

Prep Batch: 594874

Client Sample ID: 2022-02-MS

Prep Type: Potentially Dissolved

-											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		40.0	41.2		ug/L		103	79 - 120	3	20
Cadmium	ND		40.0	40.4		ug/L		101	89 - 111	4	20
Chromium	ND		40.0	39.1		ug/L		98	86 - 115	1	20
Copper	ND		40.0	40.1		ug/L		100	90 - 115	1	20
Lead	0.63	J	40.0	41.2		ug/L		101	88 - 115	1	20
Manganese	1.6	J	40.0	41.5		ug/L		100	87 - 115	1	20
Nickel	ND		40.0	39.2		ug/L		98	86 - 115	0	20
Selenium	ND		40.0	41.0		ug/L		103	85 - 114	1	20

Job ID: 280-169645-1

Method: 200.8 - Metals (ICP/MS)	(Contin	ued)									
Lab Sample ID: 280-169645	-1 MSD								Clien	t Sample	ID: 20	22-02
Matrix: Water								Prep	o Type: F	Potentiall	y Diss	olved
Analysis Batch: 595318										Prep Ba	, tch: 5	94874
	Sample	Sample	Spike	MS	D MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	Resu	lt Quali	fier	Unit	D	%Rec	Limits	RPD	Limit
Silver	ND		40.0	40.	9		ug/L		102	70 - 130	5	20
Zinc	8.9	J	40.0	48.	8		ug/L		100	88 - 115	3	20
Method: 245.1 - Mercury	(CVAA)											
_ Lab Sample ID: MB 280-59	5442/1-A							Clie	ent Sami	ole ID: Me	ethod	Blank
Matrix: Water										Prep Typ	e: To	tal/NA
Analysis Batch: 595516										Prep Ba	tch: 5	95442
· ····, · · · · · · · · · · · · · · · ·		MB MB										
Analyte	Re	esult Qualif	ier	RL	MDL U	Unit	1	D P	repared	Analyz	ed	Dil Fac
Mercury		ND		0.20	0.061 L	ug/L		12/0	3/22 13:04	12/03/22	17:25	1
 							Clie	nt Co		Lah Can	tral C	mala
Lab Sample ID: LCS 260-58	5442/2-A						Cile	nt Sai	inple ID:			
Watrix: Water										Prep Typ		
Analysis Batch: 595516			Spika	10						Ргер Ва	tcn: 5	95442
Analyta			Spike	Baau		fior	Unit	_	% Bee	%Rec		
Mercury			5.00	5.0					100	90 - 110		
			0.00	0.0	•		~ <u>9</u> , _			00 110		
Lab Sample ID: 280-169645	-1 MS							C	lient Sa	mple ID:	2022-()2-MS
Matrix: Water										Prep Typ	be: To	tal/NA
Analysis Batch: 595516										Prep Ba	tch: 5	95442
-	Sample	Sample	Spike	М	S MS					%Rec		
Analyte	Result	Qualifier	Added	Resu	lt Quali	fier	Unit	D	%Rec	Limits		
Mercury	ND		5.00	4.9	4		ug/L		99	80 - 120		
 Lab Sample ID: 280-169645									Clien	t Samnlo	יחו 20	22-02
Matrix: Water									onen	Pron Tvr	10. 20	
Analysis Batch: 595516										Dron Ba	tch: 5	95 <i>1</i> /7
Analysis Daten. 555510	Sample	Sample	Sniko	MS						%Rec		RPD
Analyte	Result	Qualifier	babbA	Resu	lt Quali	fier	Unit	п	%Rec	l imits	RPD	Limit
Mercury	ND		5.00	5.0	1		ug/L		100	80 - 120	1	10
 Mothod: SM 2510BCo	nductivit	w Snoci	ific Conc	luctance			•					
Wethod: SW 2510B - CO	nuuctivii	ly, Speci		luciance	,							
Lab Sample ID: MB 280-594	879/5							Clie	ent Sam	ole ID: Me	ethod	Blank
Matrix: Water										Prep Tv	e: To	tal/NA
Analysis Batch: 594879												_
		MB MB										
Analyte	Re	esult Qualif	ier	RL	MDL U	Unit	I	D P	repared	Analyz	ed	Dil Fac
Specific Conductance		ND		2.0	2.0 L	umhos	/cm			11/29/22 ()9:45	1

Lab Sample ID: LCS 280-594879/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 594879 Spike LCS LCS %Rec Result Qualifier Unit Added Limits Analyte D %Rec Specific Conductance 1410 1420 101 90 - 110 umhos/cm

Job ID: 280-169645-1

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Method: SM 2510B - Conductivity, Specific Conductance (Continued) Lab Sample ID: 280-169645-1 DU Client Sample ID: 2022-02 Matrix: Water Prep Type: Total/NA Analysis Batch: 594879 RPD Sample Sample DU DU **Result Qualifier** Result Qualifier RPD Limit Analyte Unit D Specific Conductance 230 230 umhos/cm 0.4 10 Method: SM 2540D - Solids, Total Suspended (TSS) Lab Sample ID: MB 280-594944/2 **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Analysis Batch: 594944 MB MB Analyzed **Result Qualifier** RL MDL Unit Dil Fac Analyte D Prepared 4.0 ND 1.1 mg/L 11/29/22 13:22 **Total Suspended Solids** 1 Lab Sample ID: LCS 280-594944/1 **Client Sample ID: Lab Control Sample** Matrix: Water **Prep Type: Total/NA** Analysis Batch: 594944 LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit п %Rec Total Suspended Solids 501 468 mg/L 93 79 - 114 Method: SM 3500 CR B - Chromium, Hexavalent **Client Sample ID: Method Blank** Lab Sample ID: MB 280-594932/15 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 594932 MB MB Analyte **Result Qualifier** RI MDL Unit Dil Fac D Prepared Analyzed 0.020 11/29/22 10:59 Chromium, hexavalent ND 0.0040 mg/L Lab Sample ID: LCS 280-594932/13 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 594932 Spike LCS LCS %Rec Result Qualifier Analyte Added Unit D %Rec Limits Chromium, hexavalent 0.100 0.105 mg/L 105 91 - 112 Lab Sample ID: LCSD 280-594932/14 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA Analysis Batch: 594932 Spike LCSD LCSD %Rec RPD Added **Result Qualifier** Unit D %Rec Limits RPD Limit Analyte Chromium, hexavalent 0.100 0.104 mg/L 104 91 - 112 20 Lab Sample ID: 280-169645-1 MS Client Sample ID: 2022-02-MS **Matrix: Water** Prep Type: Total/NA Analysis Batch: 594932 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec ND F1 0 100 0.119 F1 mg/L Chromium, hexavalent 119 91 - 112

Job ID: 280-169645-1

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Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-16964 Matrix: Water	5-1 MSD							Clie	nt Sample Prep Ty	e ID: 20 pe: Tot	22-02 tal/NA
Analysis Batch: 594932											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent	ND	F1	0.100	0.0973		mg/L		97	91 - 112	20	20
Lab Sample ID: 280-16964 Matrix: Water	5-1 DU							Clie	nt Sample Prep Ty	e ID: 20 pe: Tot	22-02 tal/NA
Analysis Batch: 594932									
Analysis	Sample	Sample		DU	DU	11					RPD
	Result	Qualifier		Result	Qualifier	Unit	D				Limit
Chromium, hexavalent	ND	F1		ND		mg/L				NC	20
Lab Sample ID: MB 280-59 Matrix: Water	94901/3-A						Clie	ent San	nple ID: M Prep Typ	ethod e: Diss	Blank olved
Analysis Batch: 594932											
Analysis	-	MB MB					D -		. .	- 4 4	
	Re		RL	-			<u> </u>	repared		zed	Dil Fac
Chromium, hexavalent		ND	0.020) 0.	0040 mg/L				11/29/22	11:04	1
Lab Sample ID: LCS 280-5 Matrix: Water	94901/1-A					Cli	ent Sar	nple IC): Lab Cor Prep Typ	ntrol Sa e: Diss	ample solved
Analysis Batch: 594932			.								
Ameliate			Spike	LCS	LCS	11		0/ D = =	%Rec		
Analyte			Added	Result	Qualifier		<u>D</u>	%Rec			
Chromium, nexavalent			0.100	0.102		mg/∟		102	91-112		
Lab Sample ID: LCSD 280 Matrix: Water	-594901/2-A	k			C	Client S	ample	ID: Lal	o Control Prep Typ	Sample: Diss	e Dup olved
Analysis Batch: 594932			.						~ -		
Ameliate			Spike	LCSD	LCSD	11		0/ D = =	%Rec		RPD
			Addea	Result	Qualifier		D	%Rec			
Chromium, nexavalent			0.100	0.102		mg/∟		102	91-112	0	20
Lab Sample ID: 280-16964 Matrix: Water	5-1 MS						C	lient S	ample ID: Prep Typ	2022-(e: Diss	02-MS
Analysis Batch: 594932											
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chromium, hexavalent	ND		0.100	0.105		mg/L		105	91 - 112		
Lab Sample ID: 280-16964 Matrix: Water	5-1 MSD							Clie	nt Sample Prep Typ	e ID: 20 e: Diss	22-02 olved
Analysis Batch: 594932											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent	ND		0.100	0.105		mg/L		105	91 - 112	0	20
Lab Sample ID: 280-16964 Matrix: Water	5-1 DU							Clie	nt Sample Prep Typ	e ID: 20 e: Diss	22-02 olved
Analysis Batch: 594932											
	Sample	Sample		DU	DU						RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	<u>D</u>			RPD	Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-59	94929/27					Clie	ent Sa	mple ID	: Lab Cor	ntrol Sa	mple
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 594929			Omilia						0/ D = =		
Analyta			Spike	Booul	t Ouglifier	Unit	п	% Baa	%ReC		
Analyte			Added	Resul				100			
pH adj. to 25 deg C			7.00	7.0	J	30		100	99 - 101		
Lab Sample ID: LCS 280-59	95679/50					Clie	ent Sa	mple ID	: Lab Cor Prep Ty	ntrol Sa	ample al/NA
Analysis Batch: 595679										po. 10	
Analysis Baten. 000010			Spike	LCS	LCS				%Rec		
Analyte			Added	Resul	t Qualifier	Unit	D	%Rec	Limits		
pH adj. to 25 deg C			7.00	7.	1	SU		101	99 - 101		
Method: SM 4500 S2 D	- Sulfide,	Total									
Lab Sample ID: MB 280-59	5425/11						Clie	ent Sam	nple ID: M	ethod	Blank
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 595425											
		MB MB									
Analyte	Re	sult Qualifier		RL	MDL Unit		D P	repared	Analy	zed	Dil Fac
Sulfide		ND	(0.050	0.022 mg/L				12/02/22	14:51	1
Lab Sample ID: LCS 280-59	95425/9					Clie	ent Sa	mple ID	: Lab Cor	ntrol Sa	ample
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 595425											
			Spike	LCS	S LCS				%Rec		
Analyte			Added	Resul	t Qualifier	Unit	D	%Rec	Limits		
Sulfide			0.500	0.462	2	mg/L		92	81 - 122		
Γ											_
Lab Sample ID: LCSD 280-	595425/10				(Client S	ample	ID: Lat	o Control	Sample	e Dup
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 595425											
			Spike	LCSI	D LCSD				%Rec		RPD
Analyte			Added	Resul	t Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sulfide			0.500	0.474	1	mg/L		95	81 - 122	3	10
	4 140										
Lab Sample ID: 280-16964	D-1 IVIS						, c	lient S	ample ID:	2022-0	12-1415
Matrix: water									Prep Ty	pe: 10	al/NA
Analysis Batch: 595425	Comula	0	0						0/ D		
A sech de	Sample	Sample	Бріке			11.14	_	0/ D	%Rec		
Analyte Sulfide	Result		Added	Resul			<u>D</u>	%Rec			
Suilide	0.036	J	0.500	0.450	0	mg/L		84	81 - 122		
Lab Sample ID: 280-16964								Clie	nt Sample	20	22-02
Matrix: Wator								Cilei	Drop Tv	no: Tot	
Analysis Ratch: 595425									Fieh iy	pe. 101	
Analysis Datoll. 333423	Sampla	Sample	Spiko	мег					%Rec		RDU
Analyte	Pocult	Qualifier		Paqui	t Auglifier	Unit	п	%Rec	/intec	RDU	Limit
Sulfide	0.026		0 500	C 44		ma/l		20 01	81 100	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10
Sunde	0.030	J	0.500	0.44;	,	mg/∟		02	01-122	3	10

Prep Type: Total/NA

Client Sample ID: Method Blank

Method: SM4500 S2 H - Unionized Hydrogen Sulfide

Lab Sample ID: MB 280-595772/6 Matrix: Water Analysis Batch: 595772

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Un-ionized Hydrogen Sulfide	ND		1.0	1.0	mg/L			12/06/22 16:38	1
Field pH	ND		1.0	1.0	SU			12/06/22 16:38	1
Field Temperature	ND		1.0	1.0	Celsius			12/06/22 16:38	1
Specific Conductance	ND		2.0	2.0	umhos/cm			12/06/22 16:38	1
Sulfide	ND		4.0	4.0	mg/L			12/06/22 16:38	1

QC Association Summary

Job ID: 280-169645-1

Metals

Filtration Batch: 594634

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 280-594634/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-594634/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
Prep Batch: 594821					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-3	2022-02-FB	Total Recoverable	Water	200.8	
280-169645-4	2022-02-DUPLICATE	Total Recoverable	Water	200.8	
MB 280-594821/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-594821/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-594821/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
Filtration Batch: 5948	843				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Potentially Dissolvec	Water	Poten_Diss_Met	
280-169645-3	2022-02-FB	Potentially Dissolvec	Water	Poten_Diss_Met	
280-169645-4	2022-02-DUPLICATE	Potentially Dissolvec	Water	Poten_Diss_Met	
280-169645-1 MS	2022-02-MS	Potentially Dissolvec	Water	Poten_Diss_Met	
280-169645-1 MSD	2022-02	Potentially Dissolvec	Water	Poten_Diss_Met	
Prep Batch: 594874					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Potentially Dissolvec	Water	200.8	594843
280-169645-3	2022-02-FB	Potentially Dissolvec	Water	200.8	594843
280-169645-4	2022-02-DUPLICATE	Potentially Dissolvec	Water	200.8	594843
MB 280-594634/1-B	Method Blank	Potentially Dissolvec	Water	200.8	594634
LCS 280-594634/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	594634
280-169645-1 MS	2022-02-MS	Potentially Dissolvec	Water	200.8	594843
280-169645-1 MSD	2022-02	Potentially Dissolvec	Water	200.8	594843
Prep Batch: 594892					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total Recoverable	Water	200.7	
280-169645-3	2022-02-FB	Total Recoverable	Water	200.7	
280-169645-4	2022-02-DUPLICATE	Total Recoverable	Water	200.7	
MB 280-594892/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-594892/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-169645-1 MS	2022-02-MS	Total Recoverable	Water	200.7	
280-169645-1 MSD	2022-02	Total Recoverable	Water	200.7	
Analysis Batch: 5953	318				

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Potentially Dissolvec	Water	200.8	594874
280-169645-3	2022-02-FB	Potentially Dissolvec	Water	200.8	594874
280-169645-3	2022-02-FB	Total Recoverable	Water	200.8	594821
280-169645-4	2022-02-DUPLICATE	Potentially Dissolvec	Water	200.8	594874
280-169645-4	2022-02-DUPLICATE	Total Recoverable	Water	200.8	594821
MB 280-594634/1-B	Method Blank	Potentially Dissolvec	Water	200.8	594874
MB 280-594821/1-A	Method Blank	Total Recoverable	Water	200.8	594821
LCS 280-594634/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	594874
LCS 280-594821/2-A	Lab Control Sample	Total Recoverable	Water	200.8	594821
LCSD 280-594821/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	594821

QC Association Summary

Job ID: 280-169645-1

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Metals (Continued)

Analysis Batch: 595318 (Continued)

Lab Sample ID 280-169645-1 MS	Client Sample ID 2022-02-MS	Prep Type Potentially Dissolvec	Matrix Water	Method 200.8	Prep Batch 594874
280-169645-1 MSD	2022-02	Potentially Dissolvec	Water	200.8	594874

Analysis Batch: 595332

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total Recoverable	Water	200.7 Rev 4.4	594892
280-169645-3	2022-02-FB	Total Recoverable	Water	200.7 Rev 4.4	594892
280-169645-4	2022-02-DUPLICATE	Total Recoverable	Water	200.7 Rev 4.4	594892
MB 280-594892/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	594892
LCS 280-594892/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	594892
280-169645-1 MS	2022-02-MS	Total Recoverable	Water	200.7 Rev 4.4	594892
280-169645-1 MSD	2022-02	Total Recoverable	Water	200.7 Rev 4.4	594892

Prep Batch: 595442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total/NA	Water	245.1	
280-169645-3	2022-02-FB	Total/NA	Water	245.1	
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	245.1	
MB 280-595442/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-595442/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-169645-1 MS	2022-02-MS	Total/NA	Water	245.1	
280-169645-1 MSD	2022-02	Total/NA	Water	245.1	

Analysis Batch: 595516

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total/NA	Water	245.1	595442
280-169645-3	2022-02-FB	Total/NA	Water	245.1	595442
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	245.1	595442
MB 280-595442/1-A	Method Blank	Total/NA	Water	245.1	595442
LCS 280-595442/2-A	Lab Control Sample	Total/NA	Water	245.1	595442
280-169645-1 MS	2022-02-MS	Total/NA	Water	245.1	595442
280-169645-1 MSD	2022-02	Total/NA	Water	245.1	595442

Prep Batch: 595529

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total Recoverable	Water	200.8	
MB 280-595529/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-595529/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-169645-1 MS	2022-02-MS	Total Recoverable	Water	200.8	
280-169645-1 MSD	2022-02	Total Recoverable	Water	200.8	

Analysis Batch: 595811

Lab Sample ID 280-169645-1	Client Sample ID	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch 595529
MB 280-595529/1-A	Method Blank	Total Recoverable	Water	200.8	595529
LCS 280-595529/2-A	Lab Control Sample	Total Recoverable	Water	200.8	595529
280-169645-1 MS	2022-02-MS	Total Recoverable	Water	200.8	595529
280-169645-1 MSD	2022-02	Total Recoverable	Water	200.8	595529

QC Association Summary

Job ID: 280-169645-1

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Metals

Prep Batch: 602962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total/NA	Water	1631E	
280-169645-3	2022-02-FB	Total/NA	Water	1631E	
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	1631E	
MB 400-602962/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-602962/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-602962/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
280-169645-1 MS	2022-02-MS	Total/NA	Water	1631E	
Analysis Batch: 6030	35				
Lab Sample ID 280-169645-1	Client Sample ID	Prep Type Total/NA	Matrix Water	Method 1631E	Prep Batch 602962
280-169645-3	2022-02-FB	Total/NA	Water	1631E	602962

200-109043-3	2022-02-FD	IUlai/INA	vvalei	103 TE	002902
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	1631E	602962
MB 400-602962/3-A	Method Blank	Total/NA	Water	1631E	602962
LCS 400-602962/4-A	Lab Control Sample	Total/NA	Water	1631E	602962
LCSD 400-602962/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	602962
280-169645-1 MS	2022-02-MS	Total/NA	Water	1631E	602962

General Chemistry

Analysis Batch: 594879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total/NA	Water	SM 2510B	
280-169645-3	2022-02-FB	Total/NA	Water	SM 2510B	
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	SM 2510B	
MB 280-594879/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-594879/4	Lab Control Sample	Total/NA	Water	SM 2510B	
280-169645-1 DU	2022-02	Total/NA	Water	SM 2510B	

Filtration Batch: 594901

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
280-169645-1	2022-02	Dissolved	Water	FILTRATION	
280-169645-3	2022-02-FB	Dissolved	Water	FILTRATION	
280-169645-4	2022-02-DUPLICATE	Dissolved	Water	FILTRATION	
MB 280-594901/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-594901/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-594901/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-169645-1 MS	2022-02-MS	Dissolved	Water	FILTRATION	
280-169645-1 MSD	2022-02	Dissolved	Water	FILTRATION	
280-169645-1 DU	2022-02	Dissolved	Water	FILTRATION	

Analysis Batch: 594929

Lab Sample ID 280-169645-1	Client Sample ID 2022-02	Prep Type Total/NA	Matrix Water	Method SM 4500 H+ B	Prep Batch
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	SM 4500 H+ B	
LCS 280-594929/27	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 594932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Dissolved	Water	SM 3500 CR B	594901
280-169645-1	2022-02	Total/NA	Water	SM 3500 CR B	

General Chemistry (Continued)

Analysis Batch: 594932 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-3	2022-02-FB	Dissolved	Water	SM 3500 CR B	594901
280-169645-3	2022-02-FB	Total/NA	Water	SM 3500 CR B	
280-169645-4	2022-02-DUPLICATE	Dissolved	Water	SM 3500 CR B	594901
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	SM 3500 CR B	
MB 280-594901/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	594901
MB 280-594932/15	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-594901/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	594901
LCS 280-594932/13	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-594901/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	594901
LCSD 280-594932/14	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-169645-1 MS	2022-02-MS	Dissolved	Water	SM 3500 CR B	594901
280-169645-1 MS	2022-02-MS	Total/NA	Water	SM 3500 CR B	
280-169645-1 MSD	2022-02	Dissolved	Water	SM 3500 CR B	594901
280-169645-1 MSD	2022-02	Total/NA	Water	SM 3500 CR B	
280-169645-1 DU	2022-02	Dissolved	Water	SM 3500 CR B	594901
280-169645-1 DU	2022-02	Total/NA	Water	SM 3500 CR B	
Analysis Batch: 5949	44				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total/NA	Water	SM 2540D	
280-169645-3	2022-02-FB	Total/NA	Water	SM 2540D	
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	SM 2540D	
MB 280-594944/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-594944/1	Lab Control Sample	Total/NA	Water	SM 2540D	
Analysis Batch: 5954	25				

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total/NA	Water	SM 4500 S2 D	
280-169645-3	2022-02-FB	Total/NA	Water	SM 4500 S2 D	
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	SM 4500 S2 D	
MB 280-595425/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-595425/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-595425/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-169645-1 MS	2022-02-MS	Total/NA	Water	SM 4500 S2 D	
280-169645-1 MSD	2022-02	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 595679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-3	2022-02-FB	Total/NA	Water	SM 4500 H+ B	
LCS 280-595679/50	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 595772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total/INA	water	SIV14000 SZ FI	
280-169645-3	2022-02-FB	Total/NA	Water	SM4500 S2 H	
280-169645-4	2022-02-DUPLICATE	Total/NA	Water	SM4500 S2 H	
MB 280-595772/6	Method Blank	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 596003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Total Recoverable	Water	SM3500 CR B	

Eurofins Denver

Job ID: 280-169645-1

General Chemistry (Continued)

Analysis Batch: 596003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-3	2022-02-FB	Total Recoverable	Water	SM3500 CR B	
280-169645-4	2022-02-DUPLICATE	Total Recoverable	Water	SM3500 CR B	

Analysis Batch: 596004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-169645-1	2022-02	Potentially Dissolvec	Water	SM3500 CR B	
280-169645-3	2022-02-FB	Potentially Dissolvec	Water	SM3500 CR B	
280-169645-4	2022-02-DUPLICATE	Potentially Dissolvec	Water	SM3500 CR B	

Client Sample ID: 2022-02 Date Collected: 11/28/22 11:30 Date Received: 11/28/22 16:07

Lab Sample ID: 280-169645-1 Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	602962	11/30/22 15:10	VLC	EET PEN
							Completed:	12/01/22 09:30	1	
Total/NA	Analysis	1631E		1			603035	12/01/22 12:19	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	594892	11/30/22 14:42	MCR	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			595332	12/01/22 17:32	KRP	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	594843	11/28/22 22:30	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	594874	11/30/22 07:50	LJS	EET DEN
Potentially Dissolvec	Analysis	200.8		1			595318	12/01/22 22:32	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	595529	12/06/22 07:58	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			595811	12/06/22 22:14	LRD	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	595442	12/03/22 13:04	PFM	EET DEN
Total/NA	Analysis	245.1		1			595516	12/03/22 18:15	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			594879	11/29/22 09:45	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	594944	11/29/22 13:22	ASP	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	594901	11/29/22 10:37	LRB	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	594932	11/29/22 11:04	LRB	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	594932	11/29/22 10:59	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			594929	11/29/22 11:57	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	595425	12/02/22 15:05	LRB	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			596004	12/08/22 09:24	DNM	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			596003	12/08/22 09:22	DNM	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			595772	12/06/22 16:38	ZPM	EET DEN

Client Sample ID: 2022-02-FB Date Collected: 11/28/22 11:35 Date Received: 11/28/22 16:07

Lab Sample ID: 280-169645-3 Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	602962	11/30/22 15:10	VLC	EET PEN
							Completed:	12/01/22 09:30	1	
Total/NA	Analysis	1631E		1			603035	12/01/22 12:34	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	594892	11/30/22 14:42	MCR	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			595332	12/01/22 18:03	KRP	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	594843	11/28/22 22:30	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	594874	11/30/22 07:50	LJS	EET DEN
Potentially Dissolvec	Analysis	200.8		1			595318	12/01/22 22:38	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	594821	11/30/22 07:50	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			595318	12/01/22 22:02	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	595442	12/03/22 13:04	PFM	EET DEN
Total/NA	Analysis	245.1		1			595516	12/03/22 18:28	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			594879	11/29/22 09:45	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	594944	11/29/22 13:22	ASP	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	594901	11/29/22 10:37	LRB	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	594932	11/29/22 11:06	LRB	EET DEN

Initial

Amount

2 mL

2 mL

Dil

1

1

1

1

1

1

Factor

Run

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total Recoverable

Client Sample ID: 2022-02-FB Date Collected: 11/28/22 11:35 Date Received: 11/28/22 16:07

Batch

Туре

Analysis

Analysis

Analysis

Analysis

Analysis

Potentially Dissolvec Analysis

Batch

Method

SM 3500 CR B

SM 4500 H+ B

SM 4500 S2 D

SM3500 CR B

SM3500 CR B

SM4500 S2 H

Lab Sample ID: 280-169645-3 Matrix: Water

Analyst

LRB

Lab Sample ID: 280-169645-4

Lab

EET DEN

EET DEN

EET DEN

EET DEN

EET DEN

EET DEN

Matrix: Water

Prepared

or Analyzed

11/29/22 11:01

12/05/22 17:38 KEG

12/02/22 15:06 LRB

12/08/22 09:24 DNM

12/08/22 09:22 DNM

12/06/22 16:38 ZPM

Batch

Number

594932

595679

595425

596004

596003

595772

Final

Amount

2 mL

2 mL

Client Sample ID: 2022-02-DUPLICATE Date Collected: 11/28/22 11:40 Date Received: 11/28/22 16:07

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	602962	11/30/22 15:10	VLC	EET PEN
							Completed:	12/01/22 09:30	1	
Total/NA	Analysis	1631E		1			603035	12/01/22 12:41	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	594892	11/30/22 14:42	MCR	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			595332	12/01/22 18:07	KRP	EET DEN
Potentially Dissolvec	Filtration	Poten Diss Met			250 mL	250 mL	594843	11/28/22 22:30	LRD	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	594874	11/30/22 07:50	LJS	EET DEN
Potentially Dissolvec	Analysis	200.8		1			595318	12/01/22 22:40	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	594821	11/30/22 07:50	LJS	EET DEN
Total Recoverable	Analysis	200.8		1			595318	12/01/22 22:04	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	595442	12/03/22 13:04	PFM	EET DEN
Total/NA	Analysis	245.1		1			595516	12/03/22 18:31	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			594879	11/29/22 09:45	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	594944	11/29/22 13:22	ASP	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	594901	11/29/22 10:37	LRB	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	594932	11/29/22 11:21	LRB	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	594932	11/29/22 11:02	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			594929	11/29/22 12:07	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	595425	12/02/22 15:06	LRB	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			596004	12/08/22 09:24	DNM	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			596003	12/08/22 09:22	DNM	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			595772	12/06/22 16:38	ZPM	EET DEN

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100 EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001 Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-169645-1

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
lowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
Wisconsin	State	999615430	08-31-23

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23

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

Client: GS Mining Company LLC Project/Site: Nederland, CO

Job ID: 280-169645-1

Laboratory: Eurofins Pensacola (Continued)

Authority	Program	Identification Number	Expiration Date	
Kentucky (UST)	State	53	06-30-23	
Kentucky (WW)	State	KY98030	12-31-22	
Louisiana (All)	NELAP	30976	06-30-23	
Louisiana (DW)	State	LA017	12-31-22	
Maryland	State	233	09-30-23	
Michigan	State	9912	06-30-23	
North Carolina (WW/SW)	State	314	12-31-22	
Oklahoma	NELAP	9810	08-31-23	
Pennsylvania	NELAP	68-00467	01-31-23	
South Carolina	State	96026	06-30-23	
Tennessee	State	TN02907	06-30-23	
Texas	NELAP	T104704286	09-30-23	
US Fish & Wildlife	US Federal Programs	A22340	06-30-23	
USDA	US Federal Programs	P330-21-00056	05-17-24	
Virginia	NELAP	460166	06-14-23	
West Virginia DEP	State	136	03-31-23	

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Total Number of containers Total Number of containers Total Number of containers Total Number of containers F - MeOI G - Nithing F - MeOI H - Ascord H - Ascord H - Ascord H - Ascord H - Ascord H - Ascord H - Colver K - EDA H - Ascord H - Ascord K - EDA Nithing S - Surface S - Surface	200.8 - Potentially Dissolved Metals (First half of the permit list) 200.7 / 200.8 / 245.1 - Total Recoverable Metals and (First half of the month permit list)	Z 2510B - Specific Conductance, 2540D - TSS, SM450 pH / Temp Z 3500_CR_B - Total Hexavalent Cr and Trivalent Cr (Z 3500_CR_B - Dissolved Hexavalent Cr (LAB FILTER Potentially Dissolved Trivalent Cr (calc) S SM4500_SZ_D - Sulfide and SM3550_SZ_H - Unionit Hydrogen Sulfide (calc) Z 1631E - Low Level Mercury (ETA Pensacola)	2 2 2 Article 2 2 2 Field Filtered Sample (Yes or No) 2 2 Perform MS/MSD (Yes or No)	No No Sample M Sample (M G=grab) un=n Preservation	Project: A Yes A Payment Required Ja one Fall Sample Date Time Date 1: 20	Compliane Po # Advance CONCO NO Project # 2802282 SSOW#	506-1618 Decomporione edentand: 00- International Contractions	Lakewood State.Zp: C0, 80466 Phone: <u>912:912:912:91:92</u> Email:DYMC \SO TJY <u>project Name:</u> Wastewater Discharge - A Strace Water Sampling Surface Water Sampling
- Preserv:	month lercury	Analysis Rec		rwaiu.	equested:	Due Date R	Suite 250	Grand Island Resources Address: 12567 West Cedar Road S
Page:	State of Origin:	s@Eurofinset.com	E-Mail: Dylan Bieniulis	1618	3-506-	Phone:30	oke Moran	Client Contact: Ratrick Delaney By Ot
COC No:	Carrier Tracking No(s):	in T	Lab PM: Bieniulis, Dyla	lorarn	rooke N	Sampler:	01e (200) 40 1-7 1-7	Client Information
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Eurofins Denver								394 A. 29			i		
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Client Information (Sub Contract Lab)				Bieniuli	s, Dylan T					~	80-637707.1		Т
Client Contact: Shipping/Receiving	Phone:			E-Mail: Dylan.E	lieniulis@et	. eurofinsus	s.com	State of Origi Colorado	ï		age: 'age 1 of 1		
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State, Zip: FL, 32514	T										0 - Nitric Acid E - NaHSO4	P - Na2045 Q - Na2SO3 R - Na2S2O3	
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO#;				ar gan						MeUn 3 - Amchlor 1 - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate	
Email:	:# OM			OL No	~ (o)					S	- Ice I - DI Water	U - Acetone V - MCAA W - pH 4-5	
Project Name: Nederland, CO	Project #: 28022821			297) 9	a or P					itainer	(- EDTA EDA	Y - Trizma Z - other (specify)	
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Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=Air) IÎ	91 91					2	Special	Instructions/Note:	
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Note: Since laboratory accreditations are subject to change, Eurofins TestAmeric. maintain accreditation in the State of Origin listed above for analysis/tests/matrix. TestAmerica attention immediately. If all requested accreditations are current to u	a places the ownership being analyzed, the sa date, return the signed	o of method, and mples must be Chain of Custo	alyte & accred shipped back ody attesting to	itation compliance to the Eurofins Te: said complicance	upon out subo stAmerica labo to Eurofins Te	contract labora tratory or othe sstAmerica.	atories. This r instructions	ample shipment is will be provided. ⊅	forwarded und vny changes to	ler chain-of-ci accreditation	ustody. If the labo status should be	pratory does not currently brought to Eurofins	
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					4	23					5		



Client: GS Mining Company LLC

Login Number: 169645 List Number: 1 Creator: Naylis, Patrick J

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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.	False	CONTAINER RECEIVED EMPTYSEE NARRATION
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 280-169645-1

List Source: Eurofins Denver

Client: GS Mining Company LLC

Login Number: 169645 List Number: 2 Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	0.7°C IR8
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Pensacola

List Creation: 11/30/22 12:19 PM

APPENDIX C.3 DECEMBER 2022 SURFACE WATER ANALYTICAL RESULTS

No observable flow, therefore no samples collected.

APPENDIX D CHAIN OF CUSTODY (COC) FORMS

Eurofins TestAmerica, Denver 4955 Yarrow Street

Chain of Custody Record

Seurofins Environment Testing

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Chain of Custody Form	To Information (If different from report to)	tact Name:	lress:	State Zip	ne:	alilix.com	. ov	1.1.1.1	()	Driin kiin ater . of Containers b (Cheek One Only ab (Cheek One Only		96	11 96	ELL-FB 98	9	90	90	-FB 96		CS Info:	Deliver Via:	Date/Time: 3 Relinquished By:
	nnd Island Remiticen	OKE MORAN CON	dar Dr Ste, 250 Adr	state CO zip 80228 city	0-1618 Pho	rivera@novamelem	Marcolorado, edu	and day car	Sample Matrix (Select One Onl	Soil Sludge	Sample II	CROSS WELL	COMPLIANCE WE	COMPLIANCE WE	CARIBOU WELL	CROSS PORTAL	CARIBOU PORTAI	CARIBOU PORTAI		HIN FOOT CLOUT	HA THEFT FOR THIS	Date/Time: Received By:
	Report To Information Comnany Name: 6	Contact Name: 200	Address: 12567 W.Coc	citylake wood:	Phone: 303 - 506	Email: Sergio,	Sample Collector: BA			Waste Water	Date Time	12/20/22 13:00	12/20/22 13:30	12/20/22 13:30	12/02/11:30	12/20/22 12:15	12/20/22 11:15	12/20/22 11:15		Instructions: C. L.	eross Alph	Relinquished By:

Mational Testing	Ger	neral Compliance
Laboratories, Ltd.	Order Number:	2207451
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Order Date:	11/11/2022
Quality Water Analysis	Sample Numbe	r:
1-800-458-3330	Product:	Custom Compliance
	Paid: No Payment	Method: P.O.:
Sold To:	TSR: EF	
Grand Island Resources		For Laboratory Use ONLY
Brooke Moran		Lab Accounting Information:
Lakewood CO 80	0228	Payment \$:
303-506-1618		Check #:
bmolsonm@g.emporia.edu		Lab Comments/Special Instructions:
Date Sampled : 12 120122		
Time Sampled: See below place lie with	apr Time e.g. 3:00pm = 15:00	Color, Order & Foaming Agents
	PST	
Client Name: Grand Island Resp	NICES	
Phone Number: 303-506-161	8	
Fax Number: 0/0		
PWS ID# (if applicable): n/m		State Forms:
Sample ID or Source: See below		Lab Sample Information:
Source Type: Spring X Well	Municipal 🔲 Surface	Date Received://
X Other: mine effluent		Time Received::
City & State: Nederland, CO		Received By:
(If Different than	Above)	Sample receipt criteria checked & acceptable.
Sample Collected By: Mooke V	Usran	Deviations from acceptable sample receipt criteria noted on PSA form.
(Sign		
Sample Collected By: DY OUNCE IV (I) (Please	se Print)	
Form Completed By: BrookP. A	Aran	
MPLE ID'S:	10:10	
CROSS PORTAL	13:00	
CROSS WELL	13:30	
COMPLIANCE WELL	-FB 13:30	
CARIBOUL PORTAL	11:15	
CARIBOU PORTAL-FI	3 11:15	
CHATPOUL DELL	11:30	ANALYSIS AND/OR INVALIDATE RESULTS

### APPENDIX E FIELD SHEETS

and the second second

SWAMP	Field Data	Sheet (Mat	or Chomiet	ne 9 Dinema	Dest 1								
*StationID	. 207:	2 - 01	of Gliefilist	ly & Discre	te Probe) -	Eventiype	=WQ	Entereoring	Pb(1a6seru(Min2i0a0	1%date) 🌾	va	Pg	of Pgs
*Eundines	010		and a second	*Date (mm/d	d/yyyy):	120	1202	*Group:	nla			*Agency: 🙀	n/a
*Domonal	2 .			ArrivalTime:	13:20	DepartureTir	ne: 15:3	*SampleTin	e (1st sample):	Na	-	*Protocol: y	Va
*i enstien	(DIN)			"Purpose (circ	e all that apply);	WaterChem) W	aterTox FieldO	bs FieldMeasur	re	*PurposeFai	ilure: Na		
Location:	Banie I naiwee	Midchannel	OpenWater	*GPS/DGPS	Lat (d	d.ddddd)	Long (d	dd.dddd)	OCCUPATIO	N METHOD:	Walk-in Bridg	je R/V	Other
GPS Device:	613 Way	1 points	5 APP	Target:	39,97	904	-105,5	57585	STARTING B	ANK (facing	downstream)	LBY RB / N	A
Datum: NAL	J83	Accuracy ( ft	m) 1,20	*Actual:	39,97	-8993	-105,	575798	Po	oint of Sample	e (if Integrated, I	then -88 in dba	ise)
Field Ob	servations	SampleTy	pe = FieldO	bs)		WADEABILITY:	BEAUFORT	Λ	DISTANCE		STREAM WI	DTH (m): 10	la
SIT	E ODOR:	None Sulfide	s,Sewage,Petr	oleum,Mixed,C	ther	Y/N/Unk	attachment):	4	FROM BANK (m):	n/a	WATER DEP	TH (m): 🕥	la
SK	CODE:	Clear, Partly	Cloudy Over	ast For		WIND	Q	HYDROMODI	FICATION None	Bridge, Pipes,	ConcreteChannel	, GradeControl, (	Culvert.
OTHER	PRESENCE	AVascular Nor		here Tree T		DIRECTION	W⊲⊕⊳E	AerialZipline, C	Other	۷ ا	10 LOCATIO	N (to sample): U	US/DS/WI/
DOMINAN	TSUBSTRATE	Bedrock Co	noroto Cohble	Crewel Oand	ash,Other	1(110111).		dor	WB & LB assigned	d when facing	1: (RB/LB/I	3B/US/DS/	##)-
WATE	RCI APITY A	Pringer (and h	Here Couple	Gravel, Sand	, Mua, Unk, Ol	her	tion of the later	StationCod	le_yyyy_mm_dd_i	uniquecode):	OCT-20	122-01	_west
MAT	EPODOD 10/0	Viviear (see bo	billom), Cloudy	(>4" vis), Murk	y (<4" vis)	PRECIP	PITATION:	None, Fog, I	Drizzle, Rain, Sr	wor	2: (RB/LB/	3B/US/DS/	"west?
WATE	BCOLOD.	Vivone, Sulfide	es, Sewage, Pe	etroleum, Mixe	d, Other	PRECI	PITATION (las	t 24 hrs):	Unknown, <1	",)>1", None	OCT-2	022-01	north
OPEED	KOULOR:	Colorless, Gi	reen, Yellow, B	rown /	Â	L					3: (RB/LB/I	3B/US/DS/	##)-south
OBSER	VED FLOW:	NA, Qry Wate	erbody Bed) No	Obs Flow, Iso	plated Pool, Tr	ickle (<0.1cfs),	0.1-1cfs, 1-50	ofs, 5-20cfs, 20	)-50cfs, 50-200	cfs, >200cfs	1001-2	0 42-01	-300.0
Field Me	asurements	(SampleTy	/pe = Field	Aeasure; M	ethod = Fie	ld)				. 18			
N/A	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pН	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units )		
SUBSURF/MID BOTTOM/REP	" n/a	n/a	220	n/a	n/a	n/a	n/a	n/a	nla	nla	n/a		
SUBSURF/MID BOTTOM/REP	W .									a chara			
SUBSURF/MID	V .									-			
Instrument	-						and an international systems of the second						
Calib. Date	Е												
Samples	Taken (# of	containers	filled) . Mo	thod=Mate	r Grah	Field Due VE			11				
SAMPLE TY	PE: Grab / Ir	teorated	COLLE		UTALT.		S / NO: (Sample	l ype = Grab / Inti	egrated; LABEL_I	D = FieldQA; ci	reate collection re	cord upon data e	ntry
NI/A	DepthCollec	Incorrection	COLLE	CTION EQUIP		Indiv bottle (b)	y hand, by pole	e, by bucket);	Teflon tubing; K	emmer; Pole	& Beaker; Othe	er	
N/M	(m)	inorganics	Bacteria	Chla	TSS / SSC	TOC / DOC	Total Hg	Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface	e	A CONTRACTOR OF	an production of the state of the	Anatorian anatoriana arabi hananan arab	needines works of the control of the second s	alantez er zentez ar anarren er e	001090807W2012604201W7059282926	PALITARY MULTIPLES	an an analysis and an	ananiyan tirki ang sa	arradan tagtar berlekining t	ALL POTON AND A PROMOTION OF A LOCAL	antry and an and a state
Sub/Surface	e						-						
SNOV	Shan	900	visibl	o na	des	- C B	nII a	I No.	Flow	00	nnn	lima	
	13.2.4	T	A12. 64	C VII	LN	CIE	CREC	a, it	11000,	1100	an p	11 19	en
Run:	T					1	r	10					
Sample ID #:		>tt	ACT			-		Sa	mple Processing	Date:			
	Site Code	- UFI	THE	- 00	LE	AN	AC	TIC	AL	RF	POR	2	
ļ	Sile Code:	Eda	200	Long Ro				10	0.00		A. 1		+
	# Small Wells	FAL	HE	ALE!	ACE	AH		AL	大均	<b>Z</b> DĚ	317-		
	# Large Wells			1			E I	Bow of	0 10	P	10		
	Empty Wells												
Yellow +	MPN												<b></b>
	# Small Wells												
	# Large Wells					+							
Yellow +	False												
Fluorescence (+)	Positives MPN												
Temp/Time	Start		'hook										
		[417]. C	FIELD DUP	LICATES	14 Hr. Check		1	8 Hr. Check		22 Hr. (	Check, if needed		
	Normal Sample # Duplicate Sample	#					Normal Sample	ŧ	L/				
		MPN	Ļ		95% Cl		ouplicate Samp	10 #	MPN			95% Cl	
TOTAL	Normal			LUWEI		NDLMI	Normal				Lower		Jpper
COLIFORM	Viean			Pass	Need	s Review	Duplicate Mean						
E. COLI	Normal Duplicate			and the sole was done was done also done to			Normal				Pass	Need	Is Review
BLANKS	Vean Jeld Semale			Pass	Need	s Review	Mean				Pass	Need	s Review
Mean = Maca	tormal and Di	utilati il		Pass	Need	s Review	Lab Sample #				Pass	Need	s Review
Sampler Signatu	ire / Date / Time An	which is then comp ived:	ared to the individua Placed in	I corresponding CI's Incubator By / De	to determine accepte / Time:	otability of data			[+	Pood Pre			
Processor / Date	e / Time:		Pulled fro	m Incubator By /	Date / Time:				Trays F	veau by:			
NOTES	A		I. anou ite	includion by / 1					Entered	i into database:			

Brooke moran 10/20/22

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Chelling, agreese, marked

SMARLE		Inone Alter				4 D 1 1 1	and the second second	The second se	IDOI DOADD	/16 LL 00 00	24			
SWAMP		THE TOT	ater Ch	emisti	y & Discre	ne Probe) - t	zventrypo#	AAM COLOR	Entered Wd-	or arsen wind and	7/dalie)	NA	Pg c	of Pgs
*StationID:	101	2-0	) dans		*Date (mm/o	dd/yyyy):	126	12022	*Group: 1/1	10			*Agency:	via
*Funding:	<u>n/a</u>				ArrivalTime:	12:57	DepartureTim	e:13:33	*SampleTime	e (1st sample):	13:00	2	*Protocol: V	ila
*Personnel:	BM.	RETC	9 1		*Purpose (circ	cle all that apply):	WaterChem Wa	terTox FieldOb	FieldMeasure		*PurposeFail	ure: n/a	7	
*Location:	Bank Thalweg	Midchann	el OpenV	Vater	*GPS/DGP	S Lat (dd	I.ddddd)	Long (de	id.ddddd)	OCCUPATIO	N METHOD:	Walk-in Bridg	je R/V	Other
GPS Device:	SPS WA	YPOU	NISA	1PP	Target:	39,97	5787	-105,5	569328	STARTING B	ANK (facing d	lownstream):	LB (RB) NA	A
Datum: NAD8	33	Accuracy (	ft m): ( ,	40	*Actual:	39,97	5873	-105.5	569305	Po	int of Sample	(if Integrated,	then -88 in dba	se)
<b>Field Obs</b>	ervations (	Sample	rype = F	FieldO	bs)		WADEABILITY:	BEAUFORT	2	DISTANCE	2,11	STREAM WI	DTHY	25"
SITE	ODOR:	None,Sull	fides,Sew	age,Petr	oleum,Mixed,	Other	YN / Unk	SCALE (see attachment):	3	FROM BANK	3,6	WATER DEP	TH (m): 4	40"
erv	0005	Class Da		6	2	nine and a state of the second	WIND		HYDROMODIP	ICATION: None	Bridge, Pipes,	ConcreteChanne	I, GradeControl, C	Culvert,
SKI	CODE:	Clear, Pa	ray Cloud	y Overc	ast, Fog		DIRECTION	W- E	AerialZipline, O	ther		LOCATIO	DN (to sample): L	JS / DS / WI /')
OTHERP	RESENCE:	Vasculai	Nonvascu	lar, DilyS	heen,Foam,T	rash,Other	(nom):	2	dev	AB & LB assigned	AE-to-	OCT-2	-022-(	JZ_NW,
DOMINANT	SUBSTRATE:	Bedrock,	Concrete	, Cobble	Gravel, San	d, Mud, Unk, Ot	her		StationCode	e yyyy mm dd	uniquecode):	OCT-2	022-0	2-east
WATER	CLARITY:	Clear (se	e bottom)	, Cloudy	(>4" vis), Mu	rky (<4" vis)	PRECIP	TATION:	None, Fog, D	rizzle, Rain, Sr	Wor	ACT 7	020-0-	2 40 12
WATE	RODOR:	None, Su	lfides, Se	wage, Po	etroleum, Mix	ed, Other	PRECIF	PITATION (las	t 24 hrs):	Unknown, <1	",)>1", None	0.126	V26-0.	6-5701727
WATER	RCOLOR:	Colorless	Green, \	rellow, E	Irown	- Site Ministration	<u> </u>					S: (BB/LB/	BBLUSIDS/	marell 7
OBSERV	ED FLOW:	NA, Dry V	Vaterbody	/ Bed, N	o Obs Flow, Is	solated Pool, Tr	ickle (<0.1cfs),	0.1-1cfs, 1-5c	fs, 5-20cfs, 20	-50cfs, 50-200	cfs, >200cfs	VC1-20	11-04-	northl
Field Mea	surements	(Sample	•Type =	Field	Veasure; N	lethod = Fie	eld)							
	DepthCollec	Velocity	(fos) Air	r Temp	Water Tem	рр	O ₂ (mo/L)	0. (%)	Specific	Salinity (not)	Turbidity	Stage Ht		
	-	- stocky (		(°C)	(°C)	гі <b>ч</b>	~2 (mg/L)	· · · · · · · · · · · · · · · · · · ·	(uS/cm)	Gaminy (ppt)	(ntu)	(units		
SUBSURF/MID/ BOTTOM/REP	۱″	4.2	21	10	50	\$3	n/a	nla	0.3	nla	nla	nla		
SUBSURF/MID/ BOTTOM/REP														
SUBSURF/MID/														
BOTTOM/REP	<u> </u>	<u> </u>												
Instrument:					VAKTON	10AKTON			RIVELAB					
Samples	Takon /# cf	contelle	ore fill-	d) 55	the delta	or Crob	Field Dura	DNO 10	NUL 201 112			 		
CAMPLET	DE Contra	Contain			anou=wat		Inieid Dup YE	NU: (Sample	ype = Grab / Int	egrated; LABEL_	וט = ו-ieldQA; c	reate collection re	ecora upon data e	entry
SAWPLE IY	DepthColler			COLLE	ECTION EQU	IMENT:	inaiv bottle (b	y nand, gy pol	e, by bucket);	etion tubing; h	Dissolved	a Beaker; Oth	ier	
	<del>(m)</del>	Inorgani	ics Ba	acteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Mercury	Total Metals	Metals	Organics	Toxicity	VOAs
Sub/Surface		9	n	10	n/a	1	na	surfilles	2		1	nla	nla	nla
Sub/Surface														
SOLOW	al bi	NI IN	1000	2 5	NOG	in 41.	0 0.	colina		Same	1	FIE	LD BL	ANK
DEVE	a c franci		~v~3(	di kanad (	~~ · ·	A A IN	e mur	e ur cl	at	Shinks	ry s	ITE MA	OLI -A	TE
										7		- w	16161	s Sector
Run:	T	1			1			1 1	IS	ample Processino	Date:			lan in styrik in stary in card and in constant in systems
Sample ID #-		,									T		I	
	Site Code:	AH		4										
		14	/ 1	T										
	# Small Wells							1						
	# Large Wells							+						
	Empty Wells													
Yellow +	MPN													
	# Small Wells													
	# Large Wells		an a											
Yellow +	False													
(+)	MPN													
Temp/Time	Start		4Hr. Check			14 Hr. Che	ck	1	18 Hr. Check		22 Hr.	Check, if needed		
	Normal Sample :	ł		FIELD DL	IPLICATES			Normal Sample	e#		LAB DUPLICA	TES		
	Duplicate Samp	e#	201			95% CI		Duplicate Sam	ple#	MON			95% Cl	
TOTAL	Normal	WIP	14		LOWEI	ao /0 Gi	upper	Norma		VIEW		Lower	0070 01	Upper
COLIFORM	Duplicate							Duplicate				C year bills with one site year does with with to		
E. COLI	Mean Normal				Pass	Ne	eds Review	Mean Normal				Pass	Net	eds Review
	Duplicate Mean				Pass	Ne	eds Review	Duplicate Mean				Pass	Ne	eds Review
BLANKS	Field Sample #				Pass	Ne	eds Review	Lab Sample #				Pass	Ner	eds Review
Mean = Mean of I	Normal and Duplica	te, which is the	n compared t	o the individ	tual corresponding	CI's to determine ac	ceptability of data		1	ITrou	s Read Bur			
Processor / Dol	a / Time:	Anveu.		Pulled	from Incubator By	A Date / Time:	an termeters and sector to the termination of the	4+07/62010/00/00/00/00/00/00/00/00/00/00/00/00/	n der Transport of the Larbert party Larency of	Ento	a rodu by.			
I JULESSOL / Dat	or fille.			In alled	norn nicupator b	ov / Date / Hitte:				1Ente	IEU IIIU DAIADASE			

Broche Morran 10/26/22

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IDENTIF Sample Lo Sample Co	TCATION ocation <u>C</u>	ber h	WELL		Date (/	0/27/2 Sa	2 Sta	$\frac{1100}{8} \text{ sm} = \frac{1100}{100} \text{ sm}$	Pr Stop time <u>2 : 1</u>	$O$ Page $\underline{\ }$ of $\$
WEATHI Ambient Precipitat	ER CONDI Air Temper tion: Nonel	TIONS rature: ☐ Rain□	35° Snow He	°C□	°FX Not	t Measured		Wind: Heavy	ſoderate□ Lig	iht
INITIAL W Static Wat	ELL MEASUF er Level-2-8	Total Dep	Measureme oth 205 Top	nts in feet	made from	n top of we	II casin rval_∕∖	<u>g)</u> <u>/</u> <u>A</u> Borehole Diam	neter(inches)	(0-40ft)
2-inch = Well Casin	0.1632 gal g ID <u>h /01</u> W	/ft 4-inc /ell Casing	h = 0.6528 OD <u>*</u> Pro	gal/ft 6- otective Cas	inch = 1. sing Sticku	4688 gal/ ph_2 Well	ft Ca Casing	sing Volume: <u>20</u> Stickup <u>/。2</u> Feet of	28 gallons Water n/a	8 (90-2054)
FINAL WEI	L MEASURE er Level 281	MENTS	205Total V	olume Purg	ed/ <u>624</u> Satu	urated Bore	hole V	olume (gal) 158Max	Pumping Rate	in la
INSTRUM pH Meter Buffer 7 Buffer 7 Turbidity FIELD PAR	IENT CAL         Meter Nur         Measured         Measured         Meter:	IBRATIO nber <u>A</u> Value <del>7.</del> Value <del>7.</del> Standar ASUREME	N Temp. 17.3 Temp. 77.1 Temp. 77.1 Temp. 77.1 Tomp. 77.1 NTS DURING	¶ ℃ ℃ Measured	Conducti Standard ( Standard ( Value <u>y</u>	vity Meter <u>).447</u> mS/c <u>).447</u> mS/c (2NTU	: Mete m Mea m Mea Standar	r Number CM /- asured Value asured Value5 rd cNTU Measu	- 2 / 04 mS/cm Te mS/cm Te red Value <u>^ /a</u>	01479 mp. <u>17</u> °C mp. <u>17</u> °C
Time	Volume (gallons)	рН	Cond. (μS/cm)	Temp. °C 2 °Fl	U Vi	Turbidity sual Est.⊠ leasured□		C	Comments	
11:00	0	7.3	0,3 0,4	90 60		5				
						nanarona ang kana ang				
Sample Date	e Samp Time	le D e cfs	vischarge □ gpm⊠	pH	Cond (µS/cr	d. 7 m)	`emp. (°C)	Turbidity Visual Est.⊠ Measu red□		
10/27/	22 12:0	)0[	7.0	7.3	0.9	nato.	0	5		
Duplicate S Field Blank	ample-02	(sample c	ontrol numb	er/time <u>n/</u>	a	anna a dhara dheanna an maga		)		
Rinsate Sar	nple-04	(sample c	ontrol numb	er/time	10			)		
Matrix Spil	ce-MS	(sample c	ontrol numbe	er/time	6		that y is any discourse when	)		
•		(sample o	control numb	per/time_/	la			)		
Notes: Sam Sampler's S	Apled N Signature	tion por	+.*6	5- (-1 7-1-1-	-40-	FE) &	4之	(15-205	, f2)	
	. 12		- 11	10 COV	<u> </u>	ILI	12			

Contraction of the second

IDENTIFICATIO Sample Location C	OMPLIA	HOE	WEL	LΓ	Date 10/2 =	122	Star	t Time 12 2009	Pro	oject Number:
Sample Control Nur	mber n/c	λ	N Carro Mar-	Second L	1-1-1	Sam	plers	ZAA	stop time terri	Jrage01
WEATHER CONI	DITIONS	200		$\sim$				DM, TC,	RL	
Precipitation: Nor	enature:	Snow H		FA	Not Measu	ired C		Vind: Heavy N	loderate□ Ligh	nt
INITIAL WELL MEAS	UREMENTS	Measureme	ents in feet	made	e from top of	f well	casin	rartiy Cloudyas		ULD ED OIL
Static Water Level-2	🙎 Total De	pth <u>165</u> Top	o of Screen	65	Filter Pack	Interv	al <u>n/</u>	A Borehole Diam	neter(inches)	(U-50++)
2-inch = 0.1632 g	al/ft 4-inc	h = 0.6528	8 gal/ft 6	-inch	= 1.4688	gal/ft	Cas	ing Volume: 18	<u>5</u> gallons	(50-165+7)
Well Casing ID <u>N / 0</u>	Well Casing	OD _ Pr	otective Ca	ising S	stickup <u>n/a</u> V	Vell Ca	asing S	Stickup <u>l</u> OFeet of	Water n la	
FINAL WELL MEASU	REMENTS	- PUM	F				Maria - an a calasas		an a	
Static Water Level	Total Dept	h165Total V	olume Pur	ged55	4 Saturated I	Boreho	ole Vo	lume (gal) USMay	Pumping Rate	nla
INSTRUMENT CA	LIBRATIC	<u>N</u>			- (			(801)	( ) uniping nate	ind
pH Meter: Meter N Buffer 7 Measure	umber UAI	<u>TONØI</u>	Zac	Con	ductivity Mo	eter:	Meter	Number CM1-	2104-0	1479
Buffer 7 Measure	d Value 7.	Temp. $7$		Stand	dard <u>0,447</u> n	nS/cm	Mea	sured Value	mS/cm Ter	np. <u>17</u> °C
Turbidity Meter:	Standa	rd/2NTU	Measured	l Valu	e n/a N	TU Sta	andar	do ONTU Measu	red Value	np. <u> </u>
FIELD PARAMETER	<b><i>MEASUREME</i></b>	NTS DURING	<b>G PURGING</b>	2				Superior		
Time Volume	e pH	Cond.	Temp	).	Turbidit	ty		C	Comments	
(gallons	)	(μS/cm)	°CDI °F		Visual Es	t.Q				
12:00 0	72	0.4	4	1.0						
12:25 555	7.2	0.3	1.	20	5					
(0.0) 0000	10 00	No 2	10	0						
			1							
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			**************************************							
			and a state of the second second						·····	
FINAL SAMPLE P	ARAMETE	CRS		1						
Date Ti	nple   L		pH		Cond.	Ter	np.	Turbidity		
Duit		L gping			μs/cm)	(*	C)	Visual Est XI Measu		
								red		
10/27/22 12:	30 10	), 4	7.3	1	0.3	4.	,80	5		
Duplicate Sample-02	(sample c	ontrol numb	er/time_n	10				)		/
Field Blank-03	(sample c	ontrol numb	er/time <u>C(</u>	OMF	PLIANC	EI	NE	JU-FB)		
Rinsate Sample-04	(sample c	ontrol numb	er/time <u></u>	/a				)		
Matrix Spike-MS	(sample c	ontrol numb	er/time_/	10				)		
where the second s	(sample of	control numb	per/time			-1		)		
Notes: sample	dat	MPII	* 6E	2 (-	-1 - 5n - f	4)	V L	4 1 115-16	5 fr	
Sampler's Signature	Venter	ne m	MAI	n	10/27	17	.7	12000	- 17)	
	0000	11	vv u	1	10121	1				

200

]	IDENTIF	ICATION						O DAIP	~~~				
	Sample Lo	cation CA	RIPON	INFI		Г	Data 10/02	100	Stort '	Time 10:00 c	Proj	ect Number:	
1	Sample Co	ontrol Numb	oer v	10		L	all 10/ 47	Samo	Jorg (		stop time $4 \cdot 10$	Pageof	
1	WEATHE	ER CONDI	TIONS			N.		_ Samp	ticis t	SM, TC, H	<l< td=""><td></td></l<>		
5	Ambient A	Air Temper	ature:	350	°СП	oFIG	Not Measu	red D	<b>XX</b> 7	ind Hours	Anderste T. T 14		
]	Precipitat	ion: Nonel	□ Rain□	Snow He	eavvD Mo	oderat	e Light	Sunny		arthy Cloudy	Inderate Light	R	
I	INITIAL WE	ELL MEASUR	REMENTS	Measureme	ents in feet	made	e from top of	Fwell ca	asing)	intry Cloudy co	al	10 21 00	
9	Static Wate	er Levet 52	- Total De	pth 165 Top	o of Screen	25	Filter Pack	Interval	n/n	Borehole Diam	optor(inchoc)	(0 - 2677)	
1	2-inch = 0	0.1632 gal	/ft 4-inc	h = 0.6528	Roal/ft 6	inch	- 1 /699	Tol/ft	Cacin		ieter (incries) 6/	(26 - 165 ff)	
١	Well Casing	DID IOW	lell Casing		otoctive Ca	-inch	- 1.4000 į	sal/it	Casin	ig volume: 10	2 gallons		
1	Well nurge	d with \		DULANE		ising 3	uckup <u>r10</u> v	vell cas	ing Sti	ickup <u>2, t</u> reet of	Water 11/0		
I	FINAL WEI		MENTS	EVIVIU_								an a	
-	Static Wate	er Level 521	Total Denti	h/65TotalV		rad	7/d at unated 5	)	- M-1-	1.71/2.		1-	
1	INSTRUM	IENT CAL	IRRATIC	NN	olume Pul	geu <u>ri</u>	<u>saturated</u>	sorenoi	e volu	ime (gal) <u>-f (</u> Fivia)	Reprint Rate C	10.	
ĩ	pH Meter:	Meter Nur	nber Da	Eton (	)/	Con	Inotivity Mr.	tom M	Latan N	Inter CALL-		010-00	
ľ	Buffer 7	Measured V	Value 7	Temn Fr	2°C	Ston	dard 0 UN	Ster: M	leter N	Number C////	2104-	014-74	
F	Buffer 7	Measured V	Value 7.	Temp $7$	°C	Stan	dard 442m	15/cm	Moasu	ired Value 0.5	mS/cm Tem	p. <u>17</u> °C	
7	Turbidity	Meter: n /	Standa	rd h ANTU	Measured	Valu	elo a NT	IS/CIII I	ivieasu	NTLL Magaz	mS/cm Tem	p. <u>17</u> C	
F	FIELD PARA	METER ME	ASUREME	NTS DURING	G PURGING		······································	U Stat	iuai u <u>«</u>	in IO Ivieasu	red value	NIU	
	Time	Volume	рН	Cond	Temp		Turbidit						
		(gallons)		(uS/cm)	0010100		Vigual Ea	,y		C	omments		
2		(8)		(µJ) citi)			Measure			2.2			
	10:00	0	20	0.7	1.0		Micasurec						
	11:00	107	TIL	0.5	0	9							
	14.00	482	7.0	0.4	4	ø 	5						
	<b> </b>												
									-				
	<b> </b> +												
	<b> </b>												
					and the second se								
						1							
			-	Second Se									
F	INAL SA	MPLE PAI	RAMETE	RS									
F	INAL SA Sample	MPLE PAI	RAMETE le D	CRS Discharge	pH		Cond.	Tem	p.	Turbidity			
F	FINAL SA Sample Date	MPLE PAI	RAMETE le D e cfs	Discharge □ gpm⊡	pH	(	Cond. µS/cm)	Temj (°C)	p.	Turbidity Visual			
F	TINAL SA Sample Date	MPLE PAI	RAMETE le D e cfs	CRS Discharge □ gpm⊠	pH	(	Cond. µS/cm)	Temj (°C)	p.	Turbidity Visual Est. Measu			
ŀF	Sample	MPLE PAI	RAMETE le D cfs	CRS Discharge □ gpm⊠	pH	(	Cond. µS/cm)	Temj (°C)	p.	Turbidity Visual Est.⊠ Measu red□			
ŀ	Sample Date	MPLE PAI Samp Time	RAMETE le D cfs	CRS Discharge □ gpm	рН 7.0	(	Cond. $\mu$ S/cm)	Temj (°C)	p.	Turbidity Visual Est. Measu red			
F	FINAL SA Sample Date	MPLE PAI Samp Time	RAMETE le D cfs	RS Discharge □ gpm,⊑ ,5	рН 7,0	(	Cond. µS/cm)	Temj (°C)	p.	Turbidity Visual Est. Measu red			
F	FINAL SA Sample Date 10/29/2 Duplicate S	MPLE PAI Samp Time	RAMETE le D cfs O 2 (sample c	CRS Discharge □ gpm⊠ 	рН 7,0 er/time_()	( (	Cond. µS/cm)	Temj (°C)	p.	Turbidity Visual Est. Measu red			
F D Fi	FINAL SA Sample Date U/27/2 Duplicate So ield Blank	MPLE PAI Samp Time 22 14 : O ample-02 -03	RAMETE le D cfs O 2 (sample c (sample c	CRS Discharge gpm 5 ontrol numb ontrol numb	pH 7,0 er/time_/_	( [] []	Cond. µS/cm)	Temj (°C)	p.	Turbidity Visual Est. Measu red 5 )			
F D F R	FINAL SA Sample Date UV29/2 Duplicate Samield Blank	MPLE PAI Samp Time 22 14 : O ample-02 -03 nple-04	RAMETE le D cfs O 2 (sample c (sample c (sample c	CRS Discharge Discharge gpm ↓ , 5 ontrol numb ontrol numb ontrol numb	pH 7,0 er/time er/time	( 1 a 1 a	Cond. µS/cm)	Temj (°C)	p	Turbidity Visual Est. Measu red 5 			
F D Fi R M	Sample         Sample         Date $U/27/2$ Ouplicate Sample         ield Blank         insate Sam         fatrix Spik	MPLE PAI Samp Time 22 14:0 ample-02 -03 aple-04 e-MS	RAMETE le D cfs 0 2 (sample c (sample c (sample c (sample c	CRS Discharge gpm⊠ 5 ontrol numb ontrol numb ontrol numb ontrol numb	pH 7.0 er/time_ er/time_ er/time_ er/time_	( 10 10 10	Cond. µS/cm)	Temj (°C) 4-	p	Turbidity Visual Est. Measu red 5 			

				,	
Notes: sampled	via part. t	*6\$(-1-26	FE) & 45 (	15-165	ft
Sampler's Signature	Broshe	Moran	10/27/22		

	IDENTIF	ICATION					IG DATA SI		D	·
	Sample Lo	ocation C	ROSS	POR-	TAL_	Date 0/2:	7/22 Sta	art Time 11:30	Ston time 2 200	Page of
	Sample Co	ontrol Numb	per	А			Sampler	STAA - I	stop time <u>t 2200</u>	rage01
N/A	WEATH	ER CONDI	TIONS A	J/A U	MDER	GRON	ND	BM, TC, K		
	Ambient A	Air Temper	rature: _	n/a	°CD °F	D Not Meas	ured 🛛	Wind: Heavy	Anderate Light	· <b>□</b>
11:	Precipitat	tion: Nonel	□ Rain□	Snow He	avy Mode	rate Light	] Sunny□	Partly Cloudy	Digiti	L famal
V/A	INITIAL WI	ELL MEASU	REMENTS	Measureme	ents in feet ma	ade from top o	of well casir	ng) N/A		
	Static Wate	er Level <u>n/(</u>	Total De	pth <u>n/a</u> Top	of Screen 🕥	A Filter Pack	Interval in	A Borehole Diar	neter(inches) in	los
	2-inch = 0	0.1632 gal	/ft 4-inc	h = 0.6528	gal/ft 6-in	ch = 1.4688	gal/ft Ca	sing Volume: In	a gallons	t the fl
	Well Casing	g IDM AW	/ell Casing	OD n a Pr	otective Casin	g Stickups a	Nell Casing	Stickun A East a	FMater 10 (G	
	Well purge	ed with:	la			Bouckup	even casing	Suckup <u>rov</u> reet 0	Water W/A	
NI /A	FINAL WEL	L MEASURE	MENTS N	1A						
VA	Static Wate	er Leveln/at	Total Dept	nho Total V	olume Purger	Asaturated	Borehole V	olume (gal)	V Dumping Date (	In
	INSTRUM	MENT CAL	IBRATIC	N		Paralacca	Dor choice v	oranne (gar)	x Fumping Rate /	in
	pH Meter:	Meter Nur	nber <u>0</u> A	ETONOI	C	onductivity M	eter: Mete	r Number CMI-	-2104-0	11179
	Buffer 7.1	)Measured	Value 7.1	_ Temp. 17.3	³ ℃ St	andard 9447	mS/cm Me	asured Value 0,	5 mS/cm Tem	nitor
	Buffer 7.0	Measured	Value 700	) Temp. 17.	°C St	andard 0, 447	nS/cm Me	asured Value 0.	5 mS/cm Tem	$p \downarrow \neq \circ C$
	Turbidity	Meter: <u>n/a</u>	2 Standar	rd h/aNTU	Measured V	aluen a N	TU Standa	rd h ANTU Measu	red Value n/g	NTU
	FIELD PAR	AMETER ME	ASUREME	NTS DURING	<u>G PURGING</u>					
	Time	Volume	pН	Cond.	Temp.	Turbidi	ity	(	Comments	
		(gallons)		(µS/cm)	°CO °FO	Visual E	st.			
						Measure	d			
	11:35	n/a	7.9	0.4	4.70	5				
										and and a constant and a second s
		3								
					Markana and a start and a s					99
					and the system of the second					
]	FINAL SA	MPLE PA	RAMETE	RS						
	Sample	e Samp	le D	ischarge	pH	Cond.	Temp.	Turbidity		
	Date	Time	e cfsl	□ gpm□		(µS/cm)	(°C)	Visual		
								Est. Measu		
				1			<u> </u>	red		
	10/27/2	2211:31	0 1	n/a	7.9	0.4	4.7	5	-	
1	Duplicate S	ample-02	(sample c	ontrol numb	er/time		d	<u>ا</u> ر	1	I
T	Field Rlank	-03	(cample of	ontrol mumi-	au/time a		******	)		
1	ivia Dially		(sample C	JUILOI IIUIIID				)		

_____)

Rinsate Sample-04 (sample control number/time_____)

Matrix Spike-MS (sample control number/time____

(sample control number/time_____)

Notes: MINE EFFLUENT, SAMPLED AT JULIET DITCH. Sampler's Signature Motor 10/27/22

	IDENTIF	<b>ICATION</b>	<u></u>		0		10/	100	12.0.0	Proje	ect Number;
	Sample Lo	cation CA	KIE	OU PUI	CTAL	D	Date <u>V/2 7</u>	122 St	art Time <u>13-00</u>	Stop time <u> 3:30</u> ]	Page_/_of /
ALIA	WEATHR	R CONDI	er	NA	.n. a.C	ap 1	in mall	_ Sampler	BM.TC.H	< _	
NIH	Ambient A	Air Temper	ature:	nla	°CD	°FD	Not Measu	red 🗆	Wind: Heavy	Moderate Light	7
	Precipitat	ion: None	] Rain[	] Snow□ He	eavy Mo	derate	e□ Light□	Sunny□	Partly Cloudy	And the for the second s	
N/A	INITIAL WE	ELL MEASUR	EMENTS	6 (Measureme	ents in feet	made	e from top of	well casi	ng)NIA		
	Static Wate	er Level <u>/1/0</u>	liotal D	epth /////Top	o of Screen	<u>n/c</u>	Filter Pack I	nterval k	20 Borehole Dia	neter(inches)/h	7
	2-Incn = 0	J.1632 gal	$\pi$ 4-ir	ich = 0.6528	s gal/ft 6-	-inch	= 1.4688 §	gal/tt Ca	sing Volume: <u>n</u>	allons	
	Well nurge	d with N	ell Casin	g OD <u>AZA</u> Pr	otective Ca	sing S	tickup	Vell Casing	stickup <u>n //</u> Feet c	of Water n/a.	
NIA	FINAL WEL	L MEASURE	MENTS	V/A				*****	5		
	Static Wate	er Level	otal Dep	th <u>h</u> otal V	olume Purg	ed 1	Saturated E	Borehole \	olume (gal)	x Pumping Rate	la
	INSTRUM	IENT CAL	BRATI	ON		~				2104 01	1,-0
	Buffer 7	Measured V	$\frac{1000}{2}$	Temp 17	290	Conc	ductivity Me	s/cm Met	er Number C/M/-	- 2104-01 6 mS/m Tom	4701
	Buffer 7	Measured V	alue 7	0 Temp. 17	HPC	Stand	dard 0.447m	iS/cm Me	asured Value 0	5 mS/cm Temp	17°C
	Turbidity	Meter: <u>n /</u>	ured Value	NTU							
	FIELD PARA	AMETER ME	ASUREN	IENTS DURIN	G PURGING	i					
	Time	Volume	рН	Cond.	Temp		Turbidit	Y.		Comments	
		(ganons)	· ,*.	(µS/cm)	CE +		Visual Es Measureo				
	13:00	n/a	Q 2	0.3	5.0		5				
		<u> </u>	0=						an a		
			00000000000000000000000000000000000000		1					ana katalan ang kananan katalan katalan sa sasa	
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			*****								
	FINAL SA	MPLEPA	RAMET	TERS	1		<u> </u>				
	Sample	e Samn	le	Discharge	nH		Cond	Temn	Turbidity	1	
	Date	Time	e c	fs gpm	P P P		$(\mu S/cm)$	(°C)	Visual		
									Est 🖾 Measu		
	10/0-	40.000		1	0.0		2.7	~	red		-
	10/2-H	2215.0	01	NA	8,3	(	J. 7	5	5		
	Duplicate S	Sample-02	(sample	control numb	per/time					_)	
•	Field Blank	<b>c-03</b>	(sample	control numb	per/time_/	la				)	
	Rinsate Sar	nple-04	(sample	e control num	ber/time h	/a	-			)	
	Matrix Snil	ce-MS	(sample	control numb	er/time IA	10				-/	
			(annul		hou/time - 10	In				.,	
	λτ. ΔΔ.	NE -	(sample		$\leq \wedge \wedge \wedge$	1/1A	ED A	TD	ONID 20	_)	
	Notes: ////	NEE	FFU	UENI.	0 STAIN	TL	n		UNU OR	0	

Sampler's Signature Witche Wortah 10/27/22

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	Field Data S	Sheet (Wate	r Chemist	ry & Discre	ete Probe) - E	eventType=	WQ	ERGE-BPARD-	b ⁽¹ a6se ¹¹ (Mn2i0a08)	Adate) n/	a	Pg of	f Pgs
*StationID:	2022	2-01		*Date (mm/	dd/yyyy):	128	122	*Group: M	10			*Agency: m	la
*Funding:	nla			ArrivalTime	12:00	DepartureTim	e:2:15	*SampleTime	e (1st sample):	nla		*Protocol: m	1a
*Personnel:	BM.	KL		*Purpose (cir	cle all that apply):	WaterChem Wa	terTox FieldO	bs FieldMeasure		*PurposeFaile	re: N (N		_
*Location:	Bank Thalwes	g Midchannel	OpenWater	*GPS/DGP	S Lat (dd	.ddddd)	Long (d	dd.ddddd)	OCCUPATION	N METHOD:	Walk-in Bridg	e R/V	Other
GPS Device:	GPS W	aypoint	ts App	Target:	39,97	2904	-105.	57585	STARTING B	ANK (facing d	ownstream):	LB) RB / NA	
Datum: NAD	83	Accuracy ( ft	1.20	*Actual:	39,97	8993	-105.	575798	Poi	nt of Sample	(if Integrated, I	hen -88 in dbas	se)
Field Obs	servations	(SampleTyp	oe = FieldC	)bs)		WADEABILITY:	BEAUFORT SCALE (see	5	DISTANCE FROM BANK	nla	STREAM WI	DTH (m): n/	'a
SITE	ODOR:	None Sulfide	s,Sewage,Pe	troleum,Mixed,	Other	Y/N/Unk	attachment):		(m):		WATER DEP	TH (m):	a
SKY	CODE:	Clear, Partly	Cloudy, Over	cast, Fog		WIND	NA DE	HYDROMODIF AerialZipline, O	ICATION: None	Bridge, Pipes,	ConcreteChanne LOCATIC	, GradeControl, C N (to sample): U	S / DS
OTHERF	RESENCE:	Vascular,Nor	nvascular,Oily	Sheen,Foam,T	rash,Other	(from): W	Ť	PHOTOS (	RB & LB assigned	when facing	1: (RB/LB/	BB/US/DS/	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
DOMINANT	SUBSTRATE	Bedrock, Co	ncrete, Cobbl	e, Gravel, San	d, Mud, Unk, Ot	ner		StationGod	e www.mm_dd_u	iniquecede):	101-20	22-01.	west
WATER	RCLARITY:N	Clear (see bo	ottom), Cloud	y (>4" vis), Mu	rky (<4" vis)	PRECIPI	TATION:	None, Fog, D	rizzle, Rain, Sn	wo	2: (RB/LB/	BB/US7DS/	
WATE	RODOR:n/0	None, Sulfide	es, Sewage, F	Petroleum, Mix	ed, Other	PRECIF	PITATION (las	st 24 hrs):	Unknown, <1"	', >1", None	NUV-L	022 01	
WATE	RCOLOR: 1/0	Colorless, G	reen, Yellow,	Brown							3: (RB/LB/	077-0	IL Scat
OBSER	VED FLOW:	NA, Dry Wat	erbody Bed	No Obs Flow, I	solated Pool, Tr	ickle (<0.1cfs),	0.1-1cfs, 1-5	cfs, 5-20cfs, 20	-50cfs, 50-200	cfs, >200cfs	1100-0	0 2 2 0	
riela Mea	asurements	s (SampleTy	/pe = Field	ivieasure; l	viethod = Fie	id)		Specific	1				
	DepthCollec (m)	Velocity (fps	) Air Temp	Water Tem (°C)	р _{рН}	O ₂ (mg/L)	O ₂ (%)	Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units		
SUBSURF/MID BOTTOM/REP	n/a	nla	28.2	onla	nla	nla	nla	nla	nla	nla	nla		
SUBSURF/MID BOTTOM/REP	N/												
SUBSURF/MID BOTTOM/REP	W ,												
Instrument			Ambie	N.									
Calib. Date	Talaan (4) a		nia.										
Samples	Taken (# o	r containers	s filled) - N	lethod=wa	ter_Grab	Field Dup YES	S / NO: (Sample	eType = Grab / Int	legrated; LABEL_	ID = FieldQA; c	reate collection r	ecord upon data e	entry
SAMPLE IN	DepthColle	Integrated	COLI	ECTION EQU		Indiv bottle (b	y hand, by po	le, by bucket); Dissolved	Teflon tubing; K	Dissolved	& Beaker; Oth	ier	
NA	(m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Mercury	Total Metals	Metals	Organics	Toxicity	VOAs
Sub/Surfac	e												
Sub/Surfac	s:												
NOV	NATER	FLO	NING	- SAI	NPLE	SITE	COVE	RED	IN S	NOW	1. 10	OSES	SCAT
NEA	KBY.	NO V	NATE	ER SI	AMPL	ING.	0						
										_			
Run:								s	ample Processing	Date:			
Sample ID #:		N											
	Site Code:	INY	A										
	# Small Wells												
	# Large Wells												_
Vellow	Empty Wells												
reliow +	MIPIN												
	# Small Wells					_							
Yellow +	# Large Wells												
Fluorescence	Positives						<b> </b>	ļļ					
(+)	1010-151							J					
(+) Temp/Time	Start	74.	Check		14 Hr Cho			18 Hr. Check		20 11-	Check if pooded		
(+) Temp/Time	Start	4Hr	. Check FIELD I	DUPLICATES	14 Hr. Che	ck		18 Hr. Check		22 Hr	. Check, if needed TES		
(+) Temp/Time	Start Normal Sample Duplicate Samp	4Hr # Die #	. Check FIELD I	DUPLICATES	14 Hr. Che	ck	Normal Samp Duplicate Sar	18 Hr. Check		22 Hr LAB DUPLICA	. Check, if needed		
(+) Temp/Time	Start Normal Sample Duplicate Samp	# ble # MPN	. Check FIELD I	DUPLICATES	14 Hr. Che 95% Cl	ck	Normal Samp Duplicate Sar	18 Hr. Check le # nple #	MPN	22 Hr LAB DUPLICA	Check, if needed	95% Cl	Upper
(+) Temp/Time TOTAL COLIFORM	Normal Sample Duplicate Samp Normal Duplicate	4Hr # Je # MPN	. Check FIELD I		14 Hr. Che	uhhai	Normal Samp Duplicate Sar Normal Duplicate	18 Hr. Check	MPN	22 Hr LAB DUPLICA	. Check, if needed TES Lower	95% Cl	Upper
(+) Temp/Time TOTAL COLIFORM E. COLI	Normal Sample Duplicate Sample Duplicate Sample Duplicate Mean Normal	#. Je # MPN	. Check FIELD I	Lower Pass	14 Hr. Che	ck opper eds Review	Normal Samp Duplicate Sar Normal Duplicate Mean Normal	I8 Hr. Check	MPN	22 Hr LAB DUPLICA 	Check, if needed TES Lower Pass	95% Cl	Upper eds Review
(+) Temp/Time TOTAL COLIFORM E. COLI	Normal Sample Duplicate Sample Duplicate Sample Duplicate Mean Normal Duplicate Mean Sector	# Je # MPN	Check FIELD I	DUPLICATES	14 Hr. Che	ck opport eds Review	Normal Samp Duplicate Sar Normal Duplicate Mean Normal Duplicate Mean	IB Hr. Check	MPN	22 Hr LAB DUPLICA 	Check, I needed TES Lower Pass Pass	95% CI	Dpper eds Review
(+) Temp/Time TOTAL COLIFORM E. COLI BLANKS	Nirrs Slart Normal Sample Duplicate Sam Duplicate Mean Normal Duplicate Mean Field Sample #	#	Check FIELD I	Pass Pass	14 Hr. Che 95% CJ.	eds Review eds Review eds Review	Normal Samp Duplicate Sar Normal Duplicate Mean Normal Duplicate Mean Lab Sample #	18 Hr. Check	MPN	22 Hr LAB DUPLICA	Check, if needed TES Lower Pass Pass Pass Pass	95% Cl	Upper eds Review eds Review eds Review
(+) Temp/Time TOTAL COLIFORM E. COLI BLANKS Mean = Mean o Sampler Signa	Normal Start Normal Sample Duplicate Sam Duplicate Mean Normal Duplicate Mean Field Sample # Normal and Duplicate (Normal and Duplicate for Normal and Duplicature / Date / Time	#	Check FIELD I	Pass Pass Vidual correspondin ed in Incubator B	14 Hr. Che 95% CJ	ck opper eds Review eds Review eds Review ceptability of data	Normal Samp Duplicate Sar Normal Duplicate Mean Normal Duplicate Mean Lab Sample #	18 Hr. Check	MPN	22 Hr	Check, if needed TES Lower Pass Pass Pass Pass	95% Cl	Opper eds Review eds Review eds Review

Brooke Moran 11/28/22

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SWAMP Field D	ata Sheet (Wat	er Chemist	ry & Discret	te Probe) - I	EventType=	WQ	ERQL BOARD	h(1_6_14/120-0	18(hate)	10	Da l of	1 Dec
*StationID: 20	22-02		*Date (mm/d	ld/vvvv):	128	12023	*Group:	ola	(ridae) VI	*	Agency:	I Pgs
*Funding:	9		ArrivalTime:	11:25	DepartureTim	e-11:50	*SampleTim	e (1et comple):	11.20		Protocol:	9
*Personnel: n	01		*Purpose (circl	le all that apply):	WaterChem W	aterTox FieldO	bs FieldMeasure	e (TSL sample).	*PumoseEail	1150: 10		a
*Location: Bank Th	alweg Midchannel	OpenWater	*GPS/DGPS	Lat (do	(ddddd)	Long (d	dd ddddd)				1	
GPS Device:	WAYDON	NTC AM	T-mat	29 921	5707	Long (u		OCCOPATIC	ON METHOD:	Walk-in Bridge	R/V	Other
Datum: NAD83	Accuracy ( ft.	6100	Target:	20 01	576 F	-105,	201522	STARTING	BANK (facing o	lownstream): LE	B / RB / NA	
Field Observatio	ns (Sample Ty	ne = FieldO	Actual:	201017	2013	BEALLEOPT	264305		oint of Sample	(if Integrated, the	en -88 in dbase)	
SITE ODOR:	None Sulfid	Source Det	way		WADEABILITY: Y / N / Unk	SCALE (see	1	FROM BANK	(12"	STREAM WIDT	"H (m): 24 1	n
OTE ODOR.	None,Sulid	es, Sewage, Petr	oleum, Mixed, C	Uther	14/15/15	attachment):	HYDROMODIE	(m):		WATER DEPTH	1 (m): 4.25	sin
SKY CODE:	Clear, Partl	y Cloudy, Overc	ast, Fog	••••••••••••••••••••••••••••••••••••••	DIRECTION	N-	AerialZipline, C	Other	e, Bridge, Pipes,	LOCATION	FradeControl, Culv (to sample): US /	DS (WI)
OTHERPRESENC	E: Vascular,No	nvascular,OilyS	Sheen,Foam,Tr	ash,Other	(from): W	$\sim_1$	PHOTOS (	RB & LB assigne	d when facing	1: (RB/LB/BE	2 / US / DS / ##)	1
DOMINANTSUBSTR	ATE: Bedrock, Co	oncrete, Cobble	Gravel, Sand	, Mud, Unk, Ot	her		StationCod	e_yyyy_mm_dd	uniquecode):	10x_202	12-02	above
WATERCLARITY	Clear (see b	oottom), Cloudy	(>4" vis), Mur	(<4" vis)	PRECIP	TATION:	None, Fog, D	Drizzle, Rain, S	now	2: (RB/LB/BE	2/US/DS/##)	Enve2
WATERODOR:	(None) Sulfic	les, Sewage, P	etroleum, Mixe	d, Other	PRECI	PITATION (las	t 24 hrs):	Unknown, <1	", >1", None	NOV-20	22-0206	pove3
WATERCOLOR	Colorless, Q	Freen, Yellow, E	Brown							3: (RB / LB / BE	) / US / DS / ##)	adul.
OBSERVED FLOW	V: NA, Dry Wa	terbody Bed, N	o Obs Flow, Is	olated Pool, Tri	ickle (<0.1cfs),	0.1-1cfs 1-50	ofs, 5-20cfs, 20	-50cfs, 50-200	cfs, >200cfs	NOV_20	122-024	south
Field Measurem	ents (SampleT	ype = Fieldl	Measure; M	ethod = Fie	ld)			Sec. Sec.				
DepthC	Collec Velocity (for	Air Temp	Water Temp		0 (	0 ///	Specific		Turbidity	Stage Ht		
(m	)	ferof	(°C)	рн	O₂ (mg/L)	O ₂ (%)	Conductivity (uS/cm)	Salinity (ppt)	(ntu)	(units)		
SUBSURF/MID/ BOTTOM/REP	0,53	128.4	2.6	8.5	n/a	n/a	0.3	n/a	1.3	nla		
SUBSURF/MID/ BOTTOM/REP									10-	i an a		
SUBSURF/MID/ BOTTOM/REP												
Instrument: n/o	a n/a	Ambien	+ Vaktor	Oakton 11/28/22	na	n/a n/a	Bluelab	n/a	Newtry	n/a		
Samples Taken (	# of container	s filled) - Me	thod=Wate	r Grab	Field Dup YES	/ NO: (Sample	Type = Grab Inte	egrated: LABEL	ID = FieldOA: cr	reate collection room	rd upon doto onto	
SAMPLE TYPE: Gra	b) Integrated	COLLE	CTION EQUIF	PMENT:	Indiv bottle (by	hand by pole	e by bucket): 1	Teflon tubing: I	Commor: Polo	Parkan Other	id opon data entry	
DepthC	ollec Inorganics	Bacteria	Chla	TSS/SSC	TOC / DOC	Total Ha	Dissolved	Total Matela	Dissolved	a peaker, Other		
Sub/Surface 1/	1 0	10/0	10	1007000	100/200	Total Lig	Mercury	Total Metals	Metals	Organics	loxicity	VOAs
Sub/Surface		MA	nin	ann	nin	1	2	1	1	nlai	n/a r	1/a
COMMENTS:												
COLLEC	TED I	DUPLIC	ATES	SFACE	BUT	PLE	NEY,	OF R	MATE	TO SA	MPLE	24
Run:					1		Se	ample Processing	Date:			
Sample ID #:		/	λ	- 1							1 1	
Site Co	de:	14	4-	HE	FAS	Dimm	5#		AN	ALV	470	A
	N	-/ /	1	100	100	and and and a		an Constant	1111	1167	110	
# Small We	lls			KE	370	KTI		RA	AA B	EURI	FIA	15
# Large We	lls									and the second second		The American Contraction of the
Yellow + MPN	s											
# Small We	lls			_								
#Large W/s	lls											
Yellow+ Eshe												
Fluorescence Positives												
Temp/Time Prod												
State	I4Hr	FIELD DU	PLICATES	14 Hr. Chec	ĸ		18 Hr. Check		22 Hr.	Check, if needed		
Normal Sar Duplicate S	nple # ample #					Normal Sample	#					
	MPN			95% CI		Subucate Sam	518 #	MPN			95% CI	
			LOMOI			Normal				Lower	Upp	ber
TOTAL Normal				- And - sum and some same size have not		Dunligate	the second					
TOTAL Normal COLIFORM Duplicate Mean			Pass	Nee	ds Review	Mean				Pass	Neede	Review
TOTAL Normal COLIFORM Duplicate Mean E. COLI Normal Duplicate			Pass	Nee	ds Review	Mean Normal Duplicate				Pass	Needs F	Review
TOTAL Normal COLIFORM Duplicate Mean E. COLI Normal Duplicate Mean BLANKS Field Samole			Pass Pass Pass	Nee	ds Review ds Review	Mean Normal Duplicate Mean				Pass Pass	Needs R	Review Review
TOTAL Normal COLIFORM Duplicate Mean E. COLI Normal Duplicate Mean BLANKS Field Sample Mean = Mean of Normal and D	uplicate, which is then con	npared to the individu	Pass Pass Pass	Neer Neer Neer	ds Review ds Review ds Review	Mean Normal Duplicate Mean Lab Sample #				Pass Pass Pass Pass	Needs R Needs R Needs R	Review Review Review
TOTAL Normal Duplicate Mean E. COLI Normal Duplicate Mean BLANKS Field Sample # Mean = Mean of Normal and D Sampler Signature / Date /	uplicate, which is then cor	npared to the individu	Pass Pass Pass Jal corresponding C in Incubator By / D	Need Need Need Need Need Need Need Need	ds Review ds Review ds Review optability of data	Mean Normal Duplicate Mean Lab Sample #		Trays	Read By:	Pass Pass Pass	Needs R Needs R Needs R	Review Review Review

Broke Moran 11/28/22

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<b>IDENTIFIC</b>	ATION						ASH	561	Dr	niect Number N/A
Sample Loca	ation <u>CR</u>	.055	WELL	en la	Date 11/2	9/22	Star	t Time 11:00 S	top time 12.3	OPage of
Sample Cont	trol Numb	er	n/a			Sam	plers	BM&KL	T	
Ambient Air	r Tompor	TIONS	0 40						. /	
Precipitation	n: None	ature: ] Rain□	Snow He		FIN Not Mea	sured L		Vind: Heavy□ M	loderate Lig	ht□
INITIAL WELL	L MEASUR	EMENTS (	Measureme	nts in feet	made from ton	_ Sunr		Partly Cloudy		1 (0 110 (1)
Static Water	Level-33	Total Dep	th205Top	of Screen	15 Filter Pac	k Interv	aln	A Borehole Diam	q eter(inchos) =	- (0-40++)
2-inch = 0.2	1632 gal	/ft 4-inc	h = 0.6528	gal/ft 6-	-inch = 1.4688	gal/ft	(ac	ing Volume: 20	and and and	5 (40-205 Ft)
Well Casing II	on/a w	ell Casing	OD * Pro	otective Cas	sing Stickup	Well C	sing S	Stickup 1.7 Feet of	<u>Unter</u>	0
Well purged	with: 🛛 🗸	VELL	PUM	P	sing selekup <u>rijo</u>	WVCII CC	ising s	reet of	water	
FINAL WELL	MEASURE	<b>MENTS</b>						and a second		
Static Water	Level <u>-3</u> 3 T	otal Depth	20Stotal Vo	olume Purg	ged <u>624</u> Saturated	d Boreh	ole Vo	lume (gal) <u> 5</u> 2Max	Pumping Rate	nla
INSTRUME	NT CAL	IBRATIO	N							
Buffer Z N	Meter Nun	nber <u>OAN</u>	TONOL		Conductivity N	Aeter:	Meter	Number $CMI -$	2104-	01479
Buffer 4 N	Acasured V	Value 4.0	Temp 1/a	200	Standard 0,44	mS/cm	Meas	sured Value	mS/cm Te	mp. <u>16</u> °C
Turbidity M	eter:New	tr Standar	d h aNTU	Measured	Value to / 0	JTU St	andaro	IN/ONTLI Measure	<u>ms/cm Te</u>	mp. <u>10</u> °C
FIELD PARAM	<b>IETER ME</b>	ASUREME	NTS DURING	<b>PURGING</b>	i valao <u>ny or</u> i	10 50	anuar		ieu value <u>ri/s</u>	<u>A</u> NIU
Time	Volume	рН	Cond.	Temp	. Turbio	ditv		C	omments	]
	(gallons)		(µS/cm)	°C 🖾 °F	□ Visual I	Est.		C	onnients	
		_			Measur	ed				
10:30	0	7.1	0.3	6.1	0 1.0	1				
11:30	624	7.5	0.2	6.5	0 10	1				
						The second second				
FINAL SAM	PLE PAI	RAMETE	RS							
Sample	Samp	le D	ischarge	pH	Cond.	Tei	np.	Turbidity		
Date	Time		⊐ gpm⊠		(µS/cm)	(°	C)	Visual		
								Est. Measu		
11/20/00	11-7	0	7 0	76	0 2	1		red		
11/21/22	1100	U	TOU	700	0.5	6.	5	1.01		
Duplicate San	nple-02	(sample co	ontrol number	er/time	nla	_		)		
Field Blank-0	3	(sample co	ontrol number	er/time	nla			)		
Ringate Sama	10.04	(commis o			10/0	<u>.</u>		)		
Killsate Samp	16-04	(sample c	ontrol numb	er/time	<u> </u>			)		
Matrix Spike-	MS	(sample co	ontrol numbe	er/time	n/0	1		)		
		(sample c	ontrol numb	er/time	nla			)		
Notes: SAN	APLET	> VIA	PORT	· * /	5/1/-1-1	INDI	) 0	(11- (IF	-20E 1	217
Comul. 1 C				0	8 619	UT1	) 0	7200	205 1	TI
Sampler's Sig	nature –	BINT	10 11	MAN	0 11/-	2011	17.7	7		
		1000				-11	en he			

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IDENTIFI Sample Loo Sample Con WEATHE	CATION cation <u>CO M</u> ntrol Number R CONDIT	APLIA er TIONS	NCE W	ELL	D	ate <u>11/29</u>	<u>hz</u> Sampl	Start lers	Time <u>(1:30</u> St 3M&KL	Projec op time <u>l <b>2*30</b></u> F	ct Number: v1/0, Pageof }
Ambient A	ir Tempera	ture:	7.3		°FØ	Not Measur	ed 🛛	W	ind: Heavy Mo	oderate Light	]
Precipitati	IN MEASUR	KainLI	Snow Hea	avy Mo	derate	from top of	Sunny	L Pa	artly Cloudy	011	(n-50GL)
Static Wate	er Level-39	Total Dep	th 165 Top	of Screen	65	Filter Pack In	nterval	n/a	2 Borehole Diame	eter(inches)	(60-10-6-6+)
2-inch = 0	).1632 gal/	ft 4-incl	1 = 0.6528	gal/ft 6-	inch	= 1.4688 g	al/ft	Casi	ng Volume: 185	> gallons	90-10011,
Well Casing	IDn/a W	ell Casing (	DD X Pro	tective Cas	sing St	tickup n/a W	ell Cas	ing St	ickup 1,0 Feet of	Water n/a	
Well purgeo	d with: 📐	IELL	PUMF	>		• • • • • •					
FINAL WEL	L MEASURE	MENTS	110								1
Static Wate	er Level <u>-39</u> T	otal Depth	165 Total Vo	olume Purg	ed ⁵⁵	Saturated Bo	orehol	e Vol	ume (gal <u>) 115</u> Max	Pumping Rate 🔊	la
INSTRUM	Motor Nur	BRATIO	N		Com	In attraction Mad	tom N	[otom]	Tumber CMI-	2104-014	79
Buffer 7 Buffer 7 Turbidity	Measured V Measured V Measured V	Value $\overline{7}$ , ( Value $\overline{7}$ , ( Value $\overline{7}$ , ( Value $\overline{7}$ , (	Temp. <u>16.2</u> Temp. <u>16.7</u>	°C °C Measured	Stand Stand Value	lard 0,447 m lard 0,447 m lard 0,447 m en/a_NT	S/cm I S/cm I U Star	Meas Meas ndard	ured Value 0.5 ured Value 0.5 <u>Ma</u> NTU Measur	mS/cm Temp mS/cm Temp red Value	. <u>16</u> °C . <u>16</u> °C NTU
FIELD PARA	AMETER ME	ASUREME	NTS DURING	<b>PURGING</b>							1
Time	Volume (gallons)	рН	Cond. (µS/cm)	Temp °C/2(°F	□	Turbidity Visual Est Measured			Ca	omments	
11:30	0	7.4	0.3	4.0	10	1.8		FIE	ELD FILT	ERED W	1JTA-1
12:00	555	7.2	0.2	4.2	0	1.4	1	PEI	RISTALLC	PUMP (	
								NI-	TRIC-PRE	SERVEL	>
							1	B0-	THE ANT	BOTT	LE FOR
							1	RA	DIONUCLI	DES,	
		ennen myssemilisinseenseennedere									
								4893-6823697365-694			
									an a	ander and a start with the start of the face of the face of the start of the face of the start of the	
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									in en la primie de la prime de la complete de la c		
										an ar ar ann an	
								o poma (o contante esperi			
FINAL SA	MPLE PA	RAMETE	ERS		T						
Sampl	e Samp	le I	)ischarge	pH		Cond.	Ten	np.	Turbidity		
Date	11110		L gpm			(µS/cm)	(*(	り	Est D Measu		
									red		
11/291	12 12:0	1 00	0.4	7.1		0.2	Ч.	20	1.4		
Deulisste	100	(		4:00	1	10/0			191	5.1211.0.1	
Duplicate 3	Sample-02	(sample c	control nume	per/time		1011		Section of	) )	DUPLICA	TE AND
Field Blank	k-03	(sample c	control numb	er/time <u>CC</u>	DWIF	LANCE	= W	EU	<u>-+B</u> )	MATRIX	SPIKE
Rinsate Sar	mple-04	(sample o	control numb	per/time		n/a			)	INFO AV	AILABLE
Matrix Spil	ke-MS	(sample c	ontrol numb	per/time		nla			)	IN LAB	REPORT
		(sample	control num	ber/time		n/a			)	4 - 2 Bally,	
Notes: < A	ANDIE	D A-	- WELL	*1	5 (	-1-5n	ft)	) Q	4-115-	INE EL	
110100. 3F	I'VIT CE				8,	1 20	11/		12110	102 (7)	
Sampler's	Signature	BUDO	ke V	NOCO	m	. 11/2	9/	22	-		

IDENTIF Sample Lo Sample Co WEATHI Ambient A Precipitat INITIAL WI Static Wate 2-inch = ( Well Casing Well purge FINAL WEL Static Wate INSTRUM pH Meter: Buffer 7 Buffer 7 Buffer 4	ICATION cation CA ontrol Num ER CONDI Air Tempe ion: Nonel ELL MEASUR er Level_3 0.1632 ga g ID A Q V ed with: L MEASURE er Level_3 Meter Num Measured Measured Meter: New METER ME	RIGO ber n/a TIONS rature: Rain REMENTS Total Depti MENTS Total Depti MENTS Total Depti IBRATIO mber OA Value 7.0 Value 4.0	$\frac{1}{7.5^{\circ}}$ Snow Ha (Measureme pth] $(5$ Top h = 0.6528 OD $\times$ Pro- PUM D Total V N TONOL 2 Temp. (67) 2 Temp. (67) 3 Total V N N N N N N N N N N N N N	$C \square \circ$ $C \square \circ$ C	Date <u>11 / 22</u> FX Not Mease erate A Light nade from top of S Filter Pack ng Stickup / 0 d //// Saturated Conductivity M tandard 0.447 tandard 0.447 Value / 0 N	Sured □ Sured □ Sunn of well of I Sunn of well of I Sunn of well of I Sunn of well of Borehot Neter: N mS/cm TU Sta	Star Star plers Star (y) Casing Cas sing S ble Vo Meter Meas andarc	EET t Time <u>09:30</u> BM2EL Vind: Heavy M Partly Cloudy and Borehole Dian ing Volume: <u>16</u> Stickup <u>2.4</u> Feet of lume (gal) Max Number <u>CM1</u> sured Value <u>0.5</u> sured Value <u>0.5</u>	Pro Stop time <u>14:0</u> Adderate Ligh Adderate Ligh (neter(inches) gallons Water / A Comping Rate / Comping Rate / Compi	ject Number: $N/a$ Page lof 1 $t\Box$ (0 - 26 + ) (26 - 165 + ) (26 - 165 + ) u/a u/79 u/a u/79 u/a u/79 u/a u/79 u/a u/79 u/a
Time	Volume (gallons)	рН	Cond. (µS/cm)	Temp. ℃⊠℃F口	Turbid Visual E Measure	ity st.□ ed⊠		C	comments	
9:30	0	6.5	0.1	9.0	3.5		Fil	Iters from	1 ala 1	NOTO
13:30	483	6.7	0.3	5.4	2,1		Ver	moved	sterna	MA want
							on	es are	an orde	Cold
							01	OVON 20	catad	with
							500	liment	LAREL	NAU 1 N I
							RU	UVICILIA	(	
								No		
	and a second									
	Contraction of the second s									
	and definition of the second									
										-
FINAL SA	MPLE PA	RAMETE	RS							
Date	Samp	le D	ischarge	pH	Cond.	Tem	ıp.	Turbidity		
Date	1 1110		_ gpm		(µS/cm)	(°C	C)	Visual		
								Est. Measu		
11/29/2	2 13:3	0	2.5	6.7	0,3	5,1	10	2.1		
Duplicate Sa	ample-02	(sample co	ontrol numbe	er/time	n/a			)		
Field Blank-	-03	(sample co	ontrol numbe	er/time	nla			)		
Rinsate Sam	ple-04	(sample co	ontrol numb	er/time	nla			)		
Matrix Spike	e-MS	(sample co	ontrol numbe	er/time	nla			)		
		(sample c	ontrol numb	er/time	n In			``````````````````````````````````````		

 $\frac{(\text{sample control number/time} n/a)}{\text{Notes: SAMPLED VIA PORT. } (-1-26 \text{ ft}) & 4\frac{1}{2}(15-165 \text{ ft})}$   $\frac{(15-165 \text{ ft})}{\text{Sampler's Signature}} & \frac{(16-165 \text{ ft})}{(16-165 \text{ ft})} & \frac{(16-165 \text{ ft})}{(16-16$ 

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IDENTIFIC Sample Loca Sample Con WEATHER Ambient Ai Precipitatio INITIAL WEL Static Water 2-inch = 0. Well Casing I Well purged FINAL WELL Static Water INSTRUME pH Meter: I Buffer I Buffer I Muffer I Muffer I	CATION ation	ROSS ture:V Total Dept Total Depth Total Depth IENTS tal Depth BRATIO Der_OA talue 7.0 Standar	Snow□       He         Measureme       Measureme         othTop       h = 0.6528         ODTotal Vo       Pro         nTotal Vo       N         NTemp.10.7       Multiple of the second	C□ °F□     ready□ Moderau     nts in feet mad     of Screen gal/ft 6-inch     otective Casing S     olume Purged     OCon     °C Stan     Veasured Value	Date $1/29$ Not Measur te Light <b>e from top of</b> Filter Pack Ir = 1.4688 g Stickup W Stickup W Stickup W Stickup Met dard 0.447m dard 0.447m dard 0.447m Met Met		art Time S s BM K KL Wind: Heavy□ M Partly Cloudy□ mg) Borehole Diam sing Volume: stickup Feet of Volume (gal) Max er Number C M I - vasured Value ray on TU Measu	F Stop time foderate□ Li neter(inches) gallons Water Comping Rate Comping Rate Comping Rate Comping Rate Comping Rate Comping Rate Comping Rate Comping Rate	Project Number: $\wedge / 0$ Page_of ght ght e 01479 emp. <u>16</u> °C emp. <u>16</u> °C
FIELD PARAN	METER MEAS	SUREME	NTS DURING	<u>PURGING</u>				iou vuluo <u>s i</u>	
Time	Volume (gallons)	pН	Cond. (μS/cm)	Temp. ℃©(°F□	Turbidity Visual Est. Measured		C	omments	
11:00	na	8.2	10.3	4.9	1.4				
								99 99 99 99 99 99 99 99 99 99 99 99 99	
yh er									
				Managara da Kanana Managara da Kanana mangara pas					
ETNIAT CARA									
Sample	Sample	AMETE	KS	TT	<u> </u>	773			
Date	Time	cfs[	□ gpm□	рн	US/cm)	(°C)	Turbidity Visual		

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11 1	1	0r		(poreni)		v isuai		
						Est. Measu		
				-		Teuci		
11/29/22	11:00	n/a	8.2	0,3	4.90	1.4		
Duplicate Samp	ple-02 (sam	ple control numbe	er/time	n/a		)	Lesson and the second se	
Field Blank-03	(sam	ple control numbe	er/time	nla		)		
Rinsate Sample	-04 (sam	ple control number	er/time	n/a		)		
Matrix Spike-M	IS (sam	ple control numbe	er/time	n/a		)		

_)

Matrix Spike-MS (sample control number/time_ N/M n/a (sample control number/time____

Notes:

 $^{ab} x$ 

N/A-

Brooke Moran 11/29/22 Sampler's Signature

	IDENTIF Sample Lo Sample Co WEATHI	TICATION ocation CA ontrol Number ER CONDI	RIBO Der <u>h/0</u> TIONS	U POR	GROUND	<b>WATI</b>	ER SAMPLIN	G DA	<b>TA SH</b>	EET rt Time <u>12:30</u> S BMkドレ	Proj top time <u>13:00</u>	ect Number: $N/d$ Page <u> </u> of ]
	Precipitat INITIAL WI	ion: Nonel ELL MEASUI	Rain Rain	Snow He Measurement	eavy□ Mc ents in feet	°F□ oderat made	Not Measu e Light e from top of	red E Sunr <b>f well</b>	ny	Wind: Heavy□ M Partly Cloudy□ g)	loderate□ Light	
N/A <	2-inch = 0 Well Casin Well purge	0.1632 ga g ID W ed with:	/ft 4-inc /ell Casing	h = 0.6528 OD Pr	3 gal/ft 6 otective Ca	-inch sing S	_ Fliter Pack 1 = 1.4688 ( Stickup V	interv gal/ft Vell Ca	al t Cas	Borehole Diam sing Volume: Stickup Feet of	eter(inches) gallons Water	
	FINAL WEI Static Water DH Meter: Buffer 7 Buffer 4 Turbidity FIELD PAR	L MEASURE er Level	MENTS Total Depth IBRATIO nberOAK Value 7. ( Value 4. ( Value 4. ( Standar ASUREME	Total V TONO TONO Temp.][67 Temp.] Temp.] Tom Tom Tom Tom Tom Tom Tom Tom	olume Purg L°C L°C Measured	ged Cond Stand Stand I Valu	Saturated I ductivity Mo dard 0.447 n dard 0.447 n dard 0.447 n dard 0.447 n	Boreh eter: nS/cm nS/cm TU St	ole Vo Meter Mea Mea andar	blume (gal) Max Number C M l Isured Value0.5 Isured Value0.5 dMNTU Measured	Pumping Rate 2104–0 mS/cm Temp mS/cm Temp red Value <u>r/a</u>	1479 5.16°C 5.16°C _NTU
	Time	Volume (gallons)	рН	Cond. (µS/cm)	Temp °CØ °F		Turbidit Visual Es Measured	.y t.□ 1ÌX		С	omments	
	12:30	nla	8.6	0.5	0.7	0	120=	3	No	observed	d flow	from
									Co	vibou Por	tal int	to Pond
									31	A-lee cov	ierina H	ne pond
									ha	d to be	broken	Up
									Wr	tha scal	ling bar	in
									00	der to n	etneve	water
					1				UN	der the i	ice. Som	e
									Sec	liment (	observe	d
								_	mi	xed wit	h the i	Ce.
	FINAL SA	MPLEPA	PAMETE	DC								
	Sample	e Samp	le D e cfsl	ischarge □ gpm□	рН	(	Cond. (µS/cm)	Ter (°	mp. C)	Turbidity Visual Est.□ Measu		
	11/20	1 12:3	30 1	n/a	8.6	<	0.5	0,	70	red 2		
	Duplicate S	ample-02	(sample co	ontrol numb	er/time		n/	a		)	DUDUICI	
	Field Blank	-03	(sample co	ontrol numb	er/time C	AR	BOU	PO	DR.	TAL-FB	NAM	TIE AND
	Rinsate San	nple-04	(sample c	ontrol numh	er/time		10/0	λ		)	WATRIX	SPIKE
	Matrix Spik	e-MS	(sample co	ontrol numb	er/time		n/	a		)	INFO A	VAILABLE
			(sample c	ontrol numb	per/time		nla	r		)	IN LAB	REPORT

Notes:

Sampler's Signature Molan 11/29/22

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	SWAMP F	ield Data S	Sheet (Wate	r Chemistr	y & Discrete	e Probe) - E	EventType=	WQ	ERGL-BPARP	b ⁽¹ a6se ¹ u/Mn2i0a0	⁸ /date) N/c	2	Pa )	of Pas
*	StationID:	202:	2-01		*Date (mm/dd	(1/1/1/2	119	12022	*Group: M	la			*Agency:	1/a
•	Funding:	n/c	1		ArrivalTime:	1:51	DepartureTim	ne: 13:02	*SampleTime	e (1st sample):	nla		*Protocol: Y	1/a
*	Personnel: 🖡	3M			*Purpose (circle	all that apply): (	WaterChem	aterTox FieldO	bs FieldMeasure	$\mathbf{D}$	*PurposeFail	ure: N/a		17.01
ŀ	Location	Bank Thalweg	g Midchannel	OpenWater	*GPS/DGPS	Lat (do	i.ddddd)	Long (d	dd.ddddd)	OCCUPATIO	N METHOD:	Walk-in) Bridg	ge R/V	Other
¢	GPS Device:	SPS WA	NPOINT	SAPP	Target:	39,97	-904	-105.5	57585	STARTING B	ANK (facing d	lownstream): (	LB) RB / N	A
C	Datum: NAD8	3	Accuracy ( ft	1.20	*Actual:	39,97	28993	-105.	575798	Po	int of Sample	(if Integrated,	then -88 in dba	ase)
I	Field Obs	ervations	(SampleTyp	oe = FieldOb	os)		WADEABILITY	BEAUFORT	2	DISTANCE	inta	STREAM WI	DTH (m): 🕥 /	a
	SITE	ODOR:	None Sulfide	s,Sewage,Petro	leum,Mixed,Ot	her	Y/N Unk	attachment):	4	(m):	MIN	WATER DEP	PTH (m): 10/	a
	SKY	CODE:	Clear, Partly	Cloudy, Overca	ast, Fog		WIND	(De De T	HYDROMODIF AerialZipline, C	ICATION None	Bridge, Pipes,	ConcreteChanne	I, GradeControl, ON (to sample):	Culvert, US / DS / WI /
	OTHERP	RESENCE	1 Vascular, Nor	wascular,OilySl	heen,Foam,Tra	sh,Other	(from):	O.	PHOTOS (	RB & LB assigne	d when facing	1: (RB/LB/	BB/US/DS/	·##) =
	DOMINANTS	SUBSTRATE:	Bedrock, Co	ncrete, Cobble,	Gravel, Sand,	Mud, Unk, Ot	her $n/a$		-dev StationCod	e_yyyy_mm_dd_	uniquecode):	DEC 22 -	2022-0	21_A
_	WATER	CLARITY:n/	Clear (see bo	ottom), Cloudy	(>4" vis), Murk	y (<4" vis)	PRECIP	ITATION:	None Fog, D	rizzle, Rain, Si	now	2: (RB/LB/	BB/US/DS/	##) B
_	WATER	RODOR:n/o	None, Sulfide	es, Sewage, Pe	etroleum, Mixeo	l, Other	PRECI	PITATION (las	st 24 hrs):	Unknown, <1	", >1", None	DEC22	-2022	-01C
	WATER	COLOR: n/c	Colorless, G	reen, Yellow, B	rown							3: (RB / LB /	BB/US/DS/	·##)* •
	OBSERV	ED FLOW:	(NA) Dry Wat	erbody Bed, No	Obs Flow Iso	lated Pool, Tr	ickle (<0.1cfs),	0.1-1cfs, 1-5	cfs, 5-20cfs, 20	-50cfs, 50-200	cfs, >200cfs	DEC 22	2-202	2-01-D
F	Field Mea	surements	s (SampleTy	/pe = FieldN	Aeasure; M	ethod = Fie	eld)							
	-	DepthCollec (m)	Velocity (fps	Air Temp	Water Temp (°C)	pН	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units	x	
	SUBSURF/MID/ BOTTOM/REP	n/a	nla	21.60	nla	nla	n/a	n/a	n/a	nla	n/a	nla		
	SUBSURF/MID/ BOTTOM/REP													
	SUBSURF/MID/													
ŀ	BOTTOM/REP			Aut ant										
	Calib. Date:			n/a										
1	Samples 1	Taken (# of	f containers	s filled) - Me	thod=Wate	r_Grab	Field Dup YE	S / NO: (Sample	Type = Grab / Int	egrated; LABEL_	ID = FieldQA; c	reate collection r	ecord upon data	entry
5	SAMPLE TY	PE: Grab /	Integrated	COLLE	CTION EQUIP	MENT:	Indiv bottle (b	y hand, by po	le, by bucket);	Teflon tubing; I	Kemmer; Pole	& Beaker; Oth	ner	-
ίΓ		DepthCollec	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved	Total Metals	Dissolved	Organics	Toxicity	VOAs
	Sub/Surface	(11)							Mercury		Metals			
	Sub/Surface													
		SIBLI	E FLO	W-N	IO SA	MPU	ES TI	AKEN	Ч, I Is	ample Processin	n Date:			
	Sample ID #		-				_				g Bato.			
		Site Code:		-1-								-		
			IN	/	1		_	-						
Ī		# Small Wells									-			
		# Large Wells					-	1						
· 1	Yellow +	Empty Wells MPN											_	
		# Small Wells					_							
		#Large Wells							-					
	Yellow +	Falco												
	Fluorescence	Positives												
ļ.	Temp/Time	Start	2Hr	Check		14 Hr Che	ick		18 Hr. Check		22 1	Check is poorded		
f		Namela	- Fau	FIELD DU	PLICATES	[. //ii. one					LAB DUPLICA	TES		
		Normal Sample Duplicate Samp	# ole #					Duplicate Sar	le# nple#					
			MPN		LUWSI	95% Cl	ophai	- Karala		MPN		Lower	95% CI	Upper
	TOTAL COLIFORM	Normal Duplicate						Normal Duplicate						
ŀ	E. COLI	Mean Normal			Pass	Ne	eds Review	Mean Normal				Pass	N	eeds Review
		Duplicate Mean			Pass	Ne	eds Review	Duplicate Mean				Pass	N	eeds Review
ľ	BLANKS	Field Sample #			Pass	Ne	eds Review	Lab Sample #				Pass	Ne	eeds Review
ŀ	Mean = Mean of I Sampler Signat	Normal and Duplic ture / Date / Time	ate, which is then co Arrived:	mpared to the individ Placed	tual corresponding ( I in Incubator Bv /	CI's to determine ac Date / Time:	ceptability of data			ITrav	vs Read Bv:			
	Processor / Dat	e / Time:		Pulled	from Incubator By	/ Date / Time:				Ente	ered into database	8:		
	1 10000001 / Dat									Lenie				

\$600he Moran 12/19/22

*StationID:	2022	-02		*Date (mm/dd	/yyyy): 12	119	12022	*Group:	n	01		Agei
*Fundina:	nla			ArrivalTime:	2:35	DepartureTim	e:12:46	*SampleTime	(1st sample):	n/a		*Prote
*Personnel:	RM			*Purpose (circle	all that apply):	WaterChem Wa	terTox FieldOb	s FieldMeasure	5	*PurposeFa	ailure: y	nla
ocation: E	ank Thalweg	Midchannel C	penWater	*GPS/DGPS	Lat (do	,ddddd)	Long (do	d.dddd)	OCCUPATIO	N METHOD	: Walk-in B	ridge R/
PS Device:	DC INA	YOUNT	CAD	Target	20 9=	75781	-105	569378	STARTING B	ANK (facing	downstream	) IB
atum: NAD8	3 AVI	Accuracy (ft/m	NI 20	*Actual	20 0-	15872	-ING F	10205	Po	int of Sampl	e (if Integrate	d. then -8
Tield Ohe		Accounted ( In [ In	FieldOh	Actual:	D'10-11	2012	BEAUFORT	6-1705	DISTANCE		STREAM	
Field Obs	ervations (S	Sample l yp	e = FieldOb	is)		WADEABILITY: Y / N / Unk	SCALE (see	(	FROM BANK	n/a	SIREAN	
SITE	ODOR: (	None, Sulfides	Sewage,Petro	eum,Mixed,O	ther		attachment):		(m):	Reidan Dinor	WATER D	EPTH (m
SKY	CODE:	Clear, Partly C	Cloudy, Overca	ast, Fog		WIND	W-	AerialZipline, O	ther	Bridge, Pipes	LOCA	TION (to s
OTHERP	RESENCEN	Vascular.Non	ascular.OilvSl	neen.Foam,Tra	ash,Other	(from):SIN	K	PHOTOS (F	KB & LB assigne	d when facing	1: (RB/L	3/BB/U
DOMINANT	SUBSTRATE:	Bedrock, Con	crete, Cobble,	Gravel, Sand.	Mud, Unk, O	ther $n/\alpha$		dow StationGode	nstream; RENAI	ME to uniquecode):	DEC22	2.20
WATER	CLARITYINA	Clear (see ho	tom) Cloudy	(>4" vis) Murk	v (<4" vis)	PRECIP	ITATION:	None, Fog. D	rizzle, Rain, S	now	2: (RB/L	B/BB/U
MATE		Nono Sulfido	Sowage Pe	troleum Mixe	d Other	PRECI	PITATION /las	t 24 hrs):	Unknown <1	" >1" None	DEC2	2-2
		Caladana Ca	S, Gewaye, re				TIMION (Ido		ondrown, si	, ,	3: (RB / L	B/BB/U
WATER		Coloness, Gr	en, reliow, bi		1.1. I.D. I.T.		044-6-45	fe E 00+fe 00	E0.45 E0 200	afa >200afa	DEC 2	22
OBSERV	ED FLOW:	NA, Dry Wate	rbody Bed, No	Obs Flow, Iso	blated Pool, I	1ckie (<0.1cts),	0.1-105, 1-50	cis, 5-20cis, 20	-50015, 50-200	CIS, >200CIS	0000	-
Field Mea	surements	(SampleTy	pe = FieldN	leasure; M	ethod = Fi	eld)	1	Creatific	1			
	DepthCollec (m)	Velocity (fps)	Air Temp (20) F	Water Temp (°C)	рН	O ₂ (mg/L)	O ₂ (%)	Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	(units	⊣t )
SUBSURF/MID/ BOTTOM/REP	n/a	n/a	21.4°	n/a	nla	n/a	nla	n/a	nla	n/a	n/o	1
SUBSURF/MID/												
BOTTOM/REP												
SUBSURF/MID/ BOTTOM/REP												
Instrument:			Ambient	-								
Calib. Date:	1		nla									
Samples	Taken (# of	containers	filled) - Me	ethod=Wate	er_Grab	Field Dup YE	S / NO: (Sample	Type = Grab / Int	tegrated; LABEL	_ID = FieldQA	; create collecti	on record u
	and the second						Concernation and an and an and		T-Ban tubinar			011
SAMPLE TY	PE: Grab / I	ntegrated	COLLE	ECTION EQUI	PMENT:	Indiv bottle (b	y hand, by po	le, by bucket);	Tellon tubing;	Kemmer; Po	ble & Beaker;	Other
Sample Ty	PE: Grab / I	ntegrated Inorganics	COLLE Bacteria	CTION EQUI	PMENT: TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolve Metals	d Organie	cs T
Sub/Surface	PE: Grab / I DepthCollec (m)	ntegrated Inorganics	COLLE Bacteria	CTION EQUI	PMENT: TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolve Metals	d Organie	cs T
SAMPLE TY Sub/Surface Sub/Surface COMMENTS	PE: Grab / II DepthCollec (m) a : : : : : : : : : : : : : : : : : :	Inorganics	COLLE Bacteria				Total Hg	Dissolved Mercury	Total Metals	Kemmer; Po	d Organie	cs T
SAMPLE TY Sub/Surface Sub/Surface COMMENTS	PE: Grab / II DepthCollec (m) a : : : : : : : : : : : : : :	Inorganics	COLLE Bacteria	Chi a	TSS/SSC		Total Hg	le, by bucket); Dissolved Mercury	Total Metals	Kemmer; Po	d Organie	cs T
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V	PE: Grab / II DepthCollec (m)	Inorganics	COLLE Bacteria				Total Hg	le, by bucket); Dissolved Mercury	Total Metals	Metals	d Organic	cs T
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #:	PE: Grab / II DepthCollec (m)	Inorganics	COLLE Bacteria		MENT: TSS/SSC		Total Hg	le, by bucket); Dissolved Mercury	Total Metals	Remmer; Po	d Organi	Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #:	PE: Grab / II DepthCollec (m) S: ISIBL Site Code:		COLLE Bacteria				Total Hg	le, by bucket); Dissolved Mercury	Total Metals	Netrals	d Organia	Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #:	PE: Grab / II DepthCollec (m) S: ISIBL Site Code:		COLLE Bacteria				Y hand, by po	le, by bucket); Dissolved Mercury	Sample Processi	Remmer; PC	d Organia	Ctner
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V	PE: Grab / II DepthCollec (m) 3 3 5: ISIBL Site Code: # Small Wells		COLLE Bacteria				Y hand, by po	le, by bucket); Dissolved Mercury	Sample Processin	Remmer; PC	d Organia	Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #:	PE: Grab / II DepthCollec (m) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		COLLE Bacteria				Y hand, by po	le, by bucket); Dissolved Mercury	Sample Processi	Remmer; PC	d Organia	Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow 4	PE: Grab / II DepthCollec (m) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		COLLE Bacteria				Y hand, by po	le, by bucket); Dissolved Mercury	Sample Processin	Remmer; PC	d Organi	Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow +	PE: Grab / II DepthCollec (m) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		COLLE Bacteria				Y hand, by po	le, by bucket); Dissolved Mercury	Sample Processin	Remmer; PC	d Organia	Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow +	PE: Grab / II DepthCollec (m) Site Code: Site Code: # Small Wells # Small Wells # Small Wells # Small Wells		COLLE Bacteria				Y hand, by po	le, by bucket); Dissolved Mercury	Sample Processi	Remmer; PC	d Organic	Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS WO V Run: Sample ID #: Yellow +	PE: Grab / II DepthCollec (m) SISIBL SIBL Site Code: # Small Wells # Small Wells # Small Wells # Large Wells # Large Wells		COLLE Bacteria				y hand, by po	le, by bucket); Dissolved Mercury	Sample Processi	Remmer; PC	d Organia	Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS WO V Run: Sample ID # Yellow + Fluorescence	PE: Grab / I DepthCollec (m) Site Code: Site Code: # Small Wells # Small Wells		COLLE Bacteria				y hand, by po	le, by bucket); Dissolved Mercury	Sample Processi	Remmer; PC		Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID # Yellow + Fluorescence (+)	PE: Grab / I DepthCollec (m) Site Code: Site Code: Site Code:		COLLE Bacteria				y hand, by po	le, by bucket); Dissolved Mercury	Sample Processi	Remmer; PC	d Organia	Cther
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow + Fluorescence (+) Temp/Time	PE: Grab / I DepthCollec (m) Site Code: Site Code: Site Code:		COLLE Bacteria				y hand, by po	le, by bucket); Dissolved Mercury	Sample Processi	Remmer; PC	d Organid	eeded
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow + Fluorescence (+) Temp/Time	PE: Grab / I DepthCollec (m) Site Code: Site Code: Site Code:		COLLE Bacteria				Normal Sam	le, by bucket); Dissolved Mercury Second Second Sec	Sample Processi	Remmer; PC	d Organid Organid	eeded
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow + Fluorescence (+) Temp/Time	PE: Grab / I DepthCollec (m) Site Code: Site Code:	Inorganics	COLLE Bacteria				vy hand, by po Total Hg	le, by bucket); Dissolved Mercury Second Second Sec	Sample Processin	Remmer; PC	d Organid	eeded 95
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow + Fluorescence (+) Temp/Time 2000	PE: Grab / I DepthCollec (m) Site Code: Site Code:	Inorganics	COLLE Bacteria				V hand, by po	le, by bucket); Dissolved Mercury Second Second Sec	Sample Processin	Remmer; PC	d Organid Organid	eeded
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow + Yellow + Yellow + Yellow + Temp/Time TOTAL COLLFORM	PE: Grab / I DepthCollec (m) Site Code: Site Code:	Inorganics	COLLE Bacteria				V hand, by po	le, by bucket); Dissolved Mercury	Sample Processii	Remmer; PC	d Organie	eeded 95
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow + Yellow + Yellow + Yellow + ToTAL COLLFORM E. COLI	PE: Grab / I DepthCollec (m) Site Code: Site Code:	Inorganics	COLLE Bacteria		PMENT: TSS / SSC MPL	Indiv bottle (t TOC / DOC	V hand, by po	le, by bucket); Dissolved Mercury	Sample Processii	Remmer; PC	d Organie	Peded
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow + Yellow + Yellow + Yellow + Temp/Time TOTAL COLIFORM E. COU	PE: Grab / II DepthCollec (m) Site Code: Site Code: # Small Wells # Small Wells # Small Wells # Large Wells False Positives MPN Start Normal Sample Duplicate Mean Normal Duplicate Mean Normal	Inorganics	COLLE Bacteria	Chi a	PMENT: TSS / SSC PMPL	Indiv bottle (t	y hand, by po Total Hg Total Hg HEEN Normal Duplicate Sam Duplicate Sam Normal Duplicate Mean Normal	le, by bucket); Dissolved Mercury	Sample Processin	Remmer; PC	d Organic Organic	eded
SAMPLE TY Sub/Surface Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow + Yellow + Yellow + Yellow + ToTAL COLIFORM E. COLI BLANKS	PE: Grab / I DepthCollec (m) Site Code: Site Code:	Inorganics	COLLE Bacteria	Chi a Chi a UO SA UO SA UU UU UU UU UU UU UU UU UU U	PMENT: TSS / SSC PMPL	Indiv bottle (t TOC / DOC	y hand, by po Total Hg Total Hg HEEN Normal Duplicate Mormal Duplicate Mormal Duplicate Mormal Duplicate Mormal Duplicate Mormal	le, by bucket); Dissolved Mercury	Sample Processin	Remmer; PC	d Organic Organic	eded
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID #: Yellow + Yellow + Yellow + Fluorescence (+) Temp/Time TOTAL COLIFORM E. COLI BLANKS Mean = Mean c	PE: Grab / I DepthCollec (m)	Attraction of the state of the	COLLE Bacteria	Chi a Chi a UO SA	PMENT: TSS / SSC PMPL	Indiv bottle (t TOC / DOC	Normal Duplicate Mean Lab Sample :	le, by bucket); Dissolved Mercury	Sample Processin	Remmer; PC	d Organic Organic	eded
SAMPLE TY Sub/Surface Sub/Surface COMMENTS NO V Run: Sample ID # Yellow + Yellow + Yellow + Yellow + Collform E. COLI BLANKS Mean = Mean c Sample Sign	PE: Grab / II DepthCollec (m) Site Code: Site Code: Sit	Arrived:	COLLE Bacteria	Chi a Chi a UO SA	PMENT: TSS / SSC PMPL	Indiv bottle (t TOC / DOC	y hand, by po Total Hg Total Hg HEEN Normal Sample Normal Sample i Duplicate Sa Normal Duplicate Mean Normal Duplicate i Mean	le, by bucket); Dissolved Mercury	Sample Processin	Ammer, PC	d Organic Organic	veded

			G	ROUND W	ATER SAMPLING	G DATA SHE	EET		1
IDENTIFICA	TION	000			10 10	100	10 . 00	Proje	ct Number: N/O
Sample Locati	ion <u>CR</u>	055	WELL		_ Date 12/20	122 Star	t Time <u>17:00</u> St	op time <u>[3=15</u> I	Pageof
Sample Contro	ol Numbe	TONE	MA			Samplers	BM		
Ambient Air	Tompore	tura	1520		FX Not Measu	rad 🗖 🛛 W	Vind: Heavy M	derate I ight	R
Precipitation	: Nonel		Snow Hea	vy Mod	erate Light	Sunny I	Partly Cloudy		1
Static Water L	NOL-34	Total Do	th 105Top	of Scroop 1	Siltor Back I	well casing	A Borobolo Diama	g//	(0-40 ft)
2 - inch = 0.1	622 gal/	ft <i>1_inc</i>	h = 0.6528	gal/ft 6 in	$\underline{\bigcirc}$ Filler Fack i	ntervar <u>y (r</u>	ing Volume: 20	and and and a set of the set of t	(40-205ft,
Z-IIICII - U.I	032 gai	IL 4-IIIC		gal/IL 0-II	11CII - 1.4000 g	di/it Casing S	ing volume. 20		
Well purged w	ith: MI		DIMP	lective cash	ng Stickup <u>W</u> OW	/en casing s	Feet of	watern/a	
FINAL WELL M		VENTS	Unit						
Static Water L	evel-34 To	otal Dept	205Total Vo	lume Purge	d624Saturated E	Borehole Vo	lume (gal) 147 Max	Pumping Rate n/	0
INSTRUMEN	NT CALI	BRATIC	N	Ũ	• • • • • • • • • • • • • • • • • • •		(0 / ;		-
pH Meter: M	leter Num	ber <u>OAK</u>	TONAL	(	Conductivity Me	eter: Meter	Number CMI-	2104-01	+79
Buffer 7 M	easured V	alue 7. (	<u>)</u> Temp. 1811	°C S	standard <u>0,447</u> m	nS/cm Mea	sured Value 0.5	mS/cm Temp	. <u>16</u> ℃
Buffer M	easured V	alue 10	<u>)</u> Temp. <u>160</u>	Moorwood X	Standard 0,44 7m	S/cm Mea	sured Value 0.5	mS/cm Temp	NTU
FIFI D DARAM	ETER ME		NTS DURING	DURGING	value <u>w/w</u> NI	U Standard	u <u>www.</u> NIU Measur	ed value <u>nna</u>	NIU
	/olumo		Cond	Tomp	Turbidit			ammanta	
	volume vallons)	рп	(uS/cm)	ୁ କାର୍ଯ୍ୟ ବ୍ୟାସ	Visual Fs	.y		Jiiiiieiits	
	Sulleris				Measured				
17,500	Ø	6.7	0.4	5.2	47	Fil	old filter	od:	
12:00 1	17.4	61	AU	5 8	1.7	(D)	itric	000.000	1 201/100
1.7.00	eri	Vot		200	201	(O)	illa Cia	eserver	DUTTIER
						UE	pottle tor r	aaionuci	ides
								· · · · · · · · · · · · · · · · · · ·	
						SA	MPLES CO	LECTE	D
						W	ITH DISP	20SABL	<u> </u>
						cu	IP.		
		10- y. az j az i nar i na a dago dago dago dago dago dago dago d							
FINAL SAM	PLE PA	RAMET	ERS						
Sample	Samp	le	Discharge	pH	Cond.	Temp.	Turbidity		
Date	Time	e   cf	s□ gpm,⊠		(µS/cm)	(°C)	Visual		
				. An			Est. Measu		
10 10 - 1 -		0		1.0	0.11	00	red		
12/20/22	13:0	0	7,0	6.7	0.4	5.80	2.2		
Duplicate San	nple-02	(sample	control numb	er/time	nl	a	. )		
Field Blank-0	3	(sample	control numb	er/time	n/	٩	·)		
Rinsate Samp	le-04	(sample	control numb	er/time	nl	a	)		
Matrix Spike-	-MS	(sample	control numb	er/time	n	a	)		
		(sample	control num	oer/time	n/	a	)		
Notes: 5AM	PLED	VIA	PORT. +	* 65"(-	-1-40 ft	)&4	12" (15-20	)5f+)	
a 1 1 a'				60					

Sampler's Signature

Jusohe Moran 12/20/22

1. 220

IDENTIF Sample Lo Sample Co	ICATION ocation <u>CO</u> ontrol Numb	MPLI	ANCE	WELL	<u> </u>	Date 12/20	)/2: Sam	- Star	rt Time $13:00$	Pr Stop time <u>[3:4</u> ]	oject Number: $n/\alpha$ $\geq$ Page ] of ]		
Ambient A Precipitat	Air Temper ion: None ELL MEASUE	TIONS rature: Rain REMENTS	24.80 Snow□ He (Measureme	eavy□ Mo	°F derat	Not Meast e□ Light□ e from top o	ured E Sum f well	] N ny□ casin	Wind: Heavy□ N Partly Cloudy¤ g)	Aoderate□ Lig 0	h卤 11(0-50:£+)		
2-inch = ( Well Casing Well purge	D.1632 gal	/ft 4-ind /ell Casing	ch = 0.6528 OD $\times$ Pro	8 gal/ft 6 otective Ca	-inch sing S	= 1.4688 itickup <u>n/d</u> V	Interv gal/fl Vell Ca	al <u>V)(</u> Cas asing S	<u>0</u> Borehole Diar ing Volume: <u>18</u> Stickup <u>1,0</u> Feet o	neter(inches) 5_gallons f Water vilo	"(50-165 ft)		
FINAL WEL Static Wate INSTRUM pH Meter:	L MEASURE Er Level-40 IENT CAL Meter Nur	MENTS Fotal Dept IBRATIC nber OAT	h <u>l6</u> STotal V <u>DN</u> STONO(	olume Purg	ged <u>55</u>	YSaturated	Boreh	ole Vo	plume (gal)	x Pumping Rate	nla		
Buffer 7 Buffer 10 Turbidity FIELD PARA	Measured Measured Measured Measured Measured Meter: <u>n/c</u>	Value 7 Value <u>10</u> A Standa ASUREMI	O Temp. <u>I⊗</u> O Temp. <u>1⊗</u> Ird <u>∧ / ∧</u> NTU ENTS DURING	⁷ ℃ ⁹ ℃ Measured 5 PURGING	Stand Stand Valu	dard <u>0.447</u> r dard <u>0.447</u> r e <u>v. 7 a.</u> N.	nS/cm nS/cm TU St	Mea Mea andar	sured Value <u>O</u> sured Value <u>O</u> d <u>M</u> NTU Measu	5 mS/cm Te mS/cm Te mS/cm Te ured Value n/	mp. <u>16</u> °C mp. <u>16</u> °C <u>@</u> NTU		
Time	Volume (gallons)	рН	Cond. (µS/cm)	Temp °CI (°F		Turbidi Visual Es Measure	ty st.口 d口		(	Comments			
13:00	13:00 Ø 7.0 0.4 13:30 554 6.6 0.3				5.3		3.5		Field filtered : Onitric-preserved bottle & Obottle for radionuclides				
								SAMPLES COLLECTED WITH DISPOSABLE CUP.					
FINAL SA	MPLE PA	RAMETI	ERS							3			
Sample Date	e Samp Time	le I e cfs	Discharge	pН	(	Cond. µS/cm)	Ter (°	np. C)	Turbidity Visual Est.□ Measu red⊄				
12/20/2	2 13:3	0 1	0.4	6.6		0.3	6	,10	1.6				
Field Blank	ample-02	(sample c	control numb	er/time	ME	na	F 1			Duplica	te and		
Rinsate San Matrix Spik Notes: $\leq A I$	nple-04 e-MS MPLED	(sample c (sample c (sample c (sample c AT V	control numb control numb control numb vELL, *	er/time er/time er/time er/time & 6 \overline (-	-1-1	n/a n/a n/a 50 ft	)2	NE 4	LL-FB)	Matrix QAQC availate lab re 5 ft)	spike info ple in port.		
Sampler's S		Aor	en 1	2/20	)/.	22							

<b>IDENTIF</b>	<b>ICATION</b>					IG DA	і А Эп	Designed Neural and A				
Sample Location CARIBOU WELL Date 12/20/22 Start Time 10:20 Stort time 12:00 Project Number: 1/9												
Sample Co	ontrol Numb	perv	n/a			Sam	plers	S R M				
WEATHE	WEATHER CONDITIONS											
Ambient A	Ambient Air Temperature: °C °F Not Measured  Wind: Heavy Moderate Light											
INITIAL W	Precipitation: None Rain Snow Heavy Moderate Light Sunny Partly Cloudy											
Static Water Level 20 Total Donth US Tan a form of from top of well casing) OII (0-26 ft)												
2 inch = 0.1622 col/ft 4 inch = 0.0520 = 1/(												
	Well Casing ID $\sqrt{4}$ Well Casing OD $\frac{1}{2}$ Brotesting Casing Stickword 2 with a starting Casing Volume: 101 gallons											
Well Casing	Well purged with: WELL PUMP											
		ELL F	UMP			A10043						
Static Water Level-30 Total Depth 65 Total Volume Purged 494 Saturated Developer ( 1) (1) and (1) (1)												
INSTRUMENT CALIBRATION												
pH Meter: Meter Number 04 FTONOL Conductivity Material Materials and the State												
Buffer 7 Measured Value 7.0 Temp 8.200 Conductivity Meter: Meter Number CM 1-2104-01479												
Buffer 10	Measured V	Valuel O.	Temp. 80		tandard 0.442	nS/cm	Mea	asured Value Or S mS/cm Temp. V6°C				
<b>Turbidity</b>	Meter: <u>n /0</u>	Standa	dn/antu	Measured V	alue N O N	TU St	andar	rd NTLL Measured Value O NTLL				
FIELD PARA	METER ME	ASUREME	NTS DURING	<b><u>G PURGING</u></b>				In the measured value vertee NTO				
Time	Volume	pН	Cond.	Temp.	Turbidi	tv	Γ	Comments				
	(gallons)		(µS/cm)	°C☑ °F□	Visual Es	st. 🗆		comments				
					Measure	d <b>Ì</b> K						
10:30	0	6.5	0.2	15.4	0.4	2	E	eld filtared :				
11:30	483	63	0.3	5.60	4.5		( ) ·	intra Concept and lattle				
					16	/	control preserved bottle					
							$\omega$	bottle tor radionuclides				
			1				SA	AMPLES COLLECTED				
							411	ITH DISDOSARIE				
							My V	10				
							61	UF,				
							-					
							_					
FINAL SA	MPLEPA	DAMETE	DC									
Sample	Some			TT	<b>a</b> 1	1 -						
Date	- Samp		Ischarge	рН	Cond.	Ter	np.	Turbidity				
Duit	1 1111		- gpinis		$(\mu S/cm)$	(°	C)	Visual				
								Est. Measu				
12/20/2	2 11.21	)	00	1.2	0.2	-	10	Iedia				
.010010	211.21		10,0	0.7	0.0	5.	6	4.5				
Duplicate S	ample-02	(sample co	ontrol numb	er/time	nla			)				
Field Blank	-03	(sample co	ontrol numb	er/time	nla			)				
D' G	1 04	(sumple co			10/01			)				
Rinsate San	ple-04	(sample c	ontrol numb	er/time	VI/a			)				
Matrix Spik	e-MS	(sample co	ontrol numbe	er/time	na			)				
	(comple control much articles of /d											
Notes: SAMIFLED VIA FURT, TO\$ (-1-26++) & 4+ (15-165 f+)												
Sampler's Signature												
Von d. Maria 12/20/02												
VVa	one	11100	wn	1012	0122							

N/A	IDENTIFI Sample Lo Sample Co WEATHE Ambient A Precipitati INITIAL WE Static Wate 2-inch = C Well Casing Well purge FINAL WEL Static Wate INSTRUM pH Meter: Buffer 7 Buffer 10 Turbidity FIELD PARA	ICATION cation C K ntrol Numb IR CONDIT Air Temper ion: None ELI MEASUR C Level D.1632 gal, g ID W d with: L MEASURE Fr Level T IENT CALI Meter Num Measured V Measured V Meter: ^/0 AMETER ME	er	PORT         Ø         Snow□         Measuremen         othTop         oth	PC□ °F avy□ Mode nts in feet ma of Screen gal/ft 6-in otective Casin olume Purgec C °C St 0 C St 0 C St 0 Measured V 5 PURGING	Date $2/20/$ Date $2/20/$ Table Not Measur rate Light ade from top of $1$ ade from top of $1$ ade from top of $1$ Filter Pack Ir ch = 1.4688 g g Stickup W Saturated Balance onductivity Met andard 0.447m andard 0.447m andard 0.447m	Samp red □ Sunny well c Sunny well c al/ft ell Ca oreho ter: M S/cm S/cm U Sta	Start Ti blers B Win y Part asing) I Casing sing Stick I le Volun Meter Nu Measur Measur Measur undard <u>M</u>	ime $12:15$ Sta M d: Heavy Ma thy Cloudy Borehole Diame Volume: kup Feet of V ne (gal) Max mber M - 2 ed Value 0.5 ed Value 0.5	Pro op time <u>12:4</u> oderate□ Ligh eter(inches) gallons Water Pumping Rate mS/cm Te mS/cm Te ed Value <u>и /o</u>	vject Number: N/A 5Pageof 1 nt□ H79 mp.112 °C mp.112 °C 1_NTU	
	Time     Volume     pH     Cond.     Temp.     Turbidity       (gallons)     (μS/cm)     °C 🖾 °F □     Visual Est. □       Measured I									Comments		
	12:15	na	8.0	0.4	4.6	100		Field filteren:				
								Dui-	tric-proc	corved	bottle	
								Obottle for radionuclidas			publidas	
	U DUTILE TOR FADIO								LIVETGES			
								< A	ADIES	0011	1- and	
								DAT	MPLES	CULL	ECTED	
								WIT	H DIS	POSA	BLE	
								CUI	-			
						7						
	FINAL SA			licohargo		Cand	Ta		Tuditie			
	Date	Tim	e cfs	□ gpm□	рн	Cond. (μS/cm)	(°	mp. C)	Turbidity Visual Est.□ Measu red⊡			
	17.12.0	62 17:	15	n/a	8.0	0.4	4	.6	1.10			
		104 10	/ 1		10.0		(	00	10 4			
	Duplicate S	sample-02	(sample c	control numb	per/time	<u> </u>			)			
	Field Blan	k-03	(sample o	control numb	per/time	n/a			)			
	Rinsate San	mple-04	(sample o	control num	ber/time	n/a			)			
	Matrix Spi	ke-MS	(sample o	control numb	per/time	n/a			)			

Matrix Spike-MS (sample control number/time_ n la (sample control number/time_____

)

Notes:

Sampler's Signature

the Moran 12/20/22

NA	GROUND WATER SAMPLING DATA SHEET         Project Number: M/d         Sample Location CARIBOU PORTAL Date 12/20/22 Start Time 10:30         Sample Location CARIBOU PORTAL Date 12/20/22 Start Time 10:30         Stop time 11:15 Page of         Sample Control Number         M         WEATHER CONDITIONS         Ambient Air Temperature: °C       °F       Not Measured        Wind: Heavy       Moderate       Light         Precipitation: None       Rain       Snow       Heavy       Moderate       Light       Sunny       Partly Cloudy         INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)         Static Water Level Total Depth Top of Screen Filter Pack Interval Borehole Diameter (inches)         2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4689 gal/ft											ject Number: №/০ Page_of
£	Well Casin Well purge FINAL WEI Static Wat INSTRUM pH Meter Buffer 7 Buffer 10 Turbidity	g ID V ed with: LL MEASURI er Level <u>IENT CAI</u> : Meter Nu Measured Meter: 0//	Vell Casing EMENTS Total Dep JIBRATIO mber OAk Value 7, Value 10, Stand	:h Total V <u>DN</u> <u>0</u> Temp. <u>V</u> <u>0</u> Temp. <u>0</u> Temp. <u>1</u> Temp.	olume Pur	ged Stand	Saturated ductivity M dard	Boreh eter: nS/cm	ole Vo Meter Meter	Stickup Feet of Stickup Feet of olume (gal) Max Number C M ) ~ sured Value O ~	gallons f Water x Pumping Rate 2104-0( 2 mS/cm Tem こ mS/cm Tem	479 ıp. <u>16</u> ℃ ıp. <u>16</u> ℃
	FIELD PARAMETER MEASUREMENTS DURING PURGING											
	Time	Volume (gallons)	рН	Cond. (µS/cm)	). ∶□	Turbidi Visual Es Measure	ty st.□ d⊠	Comments				
	11:15 n/a		8.6	0.5	20:	3	2,1		Field filtered: Dnitric-preserved bottle D bottle for radionuclides			
									SF	AMPLES	COLLEC	BLE
	FINAL SA	MPLE PA	RAMET	ERS								
	Sample Sam Date Tin		e cfs	e Discharge cfs□ gpm□		(	Cond. µS/cm)	Ter (°	mp. C)	Turbidity Visual Est.□ Measu red⊠		
	12/20/2	12/20/22 11:1		5 n/a		V	0.5	2	.3 2.1			
	Duplicate S Field Blank	ample-02 -03	(sample of (sample of the sample of the samp	control numbe	er/time er/time	AR	n/a IBOU	PO	RT	) AL-FRI	Duplicate	and
	Rinsate San Matrix Spik	nple-04 ce-MS	(sample ) (sample )	control numb	er/time		n/a			) )	info avoi lab repo	vilable in

Notes:

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Sampler's Signature

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Moran 12/20/22

n/a n/a

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(sample control number/time_

### APPENDIX F PHOTOGRAPHS

### APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS

October 2022











### November 2022








December 2022









## APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS

October 2022









November 2022











## December 2022







