



FOURTH QUARTER 2023
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
January 30, 2024



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1. Background

On April 28, 2022, the Division of Reclamation, Mining and Safety (Division) approved 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"***. At the time of issuance of this Quarterly Report, the Operator has collected and has analyzed, via third party laboratory, 21 contiguous months of site waters (7 monitoring locations), from May 2022 through January of 2024.

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. Compliance samples from the Water Treatment System OUTFALL-001 are collected and tested twice per month; the results are submitted to CDPHE.

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.

GIR appeared before the MLR Board on January 18, 2023, where GIR presented testimony to the Board and requested to lift the Cease-and-Desist Order put into place during the February 2022 Board hearing for violation M2021-017. On March 13, 2023, the signed Board Order was issued which lifted the Cease-and-Desist Order on the site.

During the MLR Board January 2023 hearing, GIR withdrew the appeal of the Division's determination that the Cross Gold Mine was a designated mining operation (DMO). The due date for submitting the DMO Conversion Application was set to July 17, 2023, i.e., 180 days from the hearing date. GIR submitted to DRMS, a one-year extension request to the maximum allowed by Rule 7.2.3(2)(c). The extension request was approved by DRMS on March 1, 2023, which includes several stipulations including Stipulation #2 which states that all groundwater monitoring and reporting will continue as approved in Technical Revision 10 (TR10). This includes a written request for approval by GIR and approval by DRMS process whereby



GIR will issue requests for approval letters to DRMS describing planned underground activities, objectives, methods, expected disturbance, and impacts prevention mechanisms prior to commencement of the activities. Upon receiving written approval by DRMS, GIR will implement the actions.

The quarterly reports must include:

- 1.1. Analytical results for the 7 sampling locations described in Technical Revision #10 (TR10 - Figure 6),
- 1.2. Monthly Potentiometric Surface (water table) maps constructed from water table measurements taken during the sampling events. Figures 18, 19 and 20 depict surfaces for the months of October, November, and December 2023, 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

On March 2, 2023, the Division of Reclamation, Mining and Safety concluded its review of the Technical Revision (TR11) application submitted to the Division on February 22, 2023, addressing the following: Revise analytical parameter list for groundwater samples to eliminate analyzing for Total Silver, Asbestos, Coliform (max total), Coliform (30-day average), 2-Chlorophenol, Color, Corrosivity, Foaming Agents, Odor and Phenol. The decision reached by the Division is: "Approve".

Test results from water samples collected from the three monitoring wells are presented on tables 2.1.1, 2.1.2 and 2.1.3 corresponding to the months of October, November, and December 2023, respectively. The results are presented as required and in accordance with the revised Analytical Parameters approved by DRMS as described in the preceding paragraph, 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. Water Quality Analytical Results from the Laboratories are provided in the appendices of this report.

Table 2.1.1 Groundwater Quality Test Results – Sample Date October 31, 2023

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Compliance Well Field Blank	Unit	Comments
Aluminum (Al)	5	ND	0.019	ND	ND	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.028	0.0061	0.04	0.038	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	1.41	1.16	1.91	1.91	0.414	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	0.0055	0.0026	0.0044	0.0039	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	ND	ND	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	3.4	ND	3.4	3.4	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0078	0.095	ND	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	ND	mg/l	Total
Fluoride (F)	2	1.3	ND	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	0.0173	0.0808	0.515	-0.403	0.0502	pCi/l	
Iron (Fe)	0.3	0.011	0.021	0.019	0.017	0.011	mg/l	Dissolved
Lead (Pb)	0.05	0.0005	0.00043	0.00031	0.00026	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.00088	0.00055	0.0064	0.0063	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	0.000071	ND	ND	0.000061	0.000068	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.00067	ND	0.0045	0.0041	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.24	ND	0.27	0.29	ND	mg/l as N	Dissolved
Nitrite(NO2)	10	ND	ND	ND	ND	ND	mg/l as N	Dissolved
Nitrate-Nitrite Total	1	0.3	0.095	0.34	0.34	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	6.4	6.2	7.2	7.2	n/a	pH units	
Selenium (Se)	0.02	ND	ND	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	8.8	2	8.5	8.6	ND	mg/l	Dissolved
TDS	400	89	29	81	75	ND	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	0.000079	ND	0.00014	0.00014	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.78	0.0069	0.077	0.076	ND	mg/l	Dissolved

The highlighted cells indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected

Table 2.1.2 Groundwater Quality Test Results – Sample Date November 30, 2023

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Compliance Well Field Blank	Unit	Comments
Aluminum (Al)	5	ND	ND	ND	ND	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.031	0.0072	0.04	0.041	ND	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	0.804	1.12	1.91	0.741	-0.143	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.00019	ND	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	3.6	ND	3.2	3.3	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0065	0.14	ND	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	-0.164	0.191	1.2	0.756	0.51	pCi/l	
Iron (Fe)	0.3	0.011	0.012	ND	0.026	0.013	mg/l	Dissolved
Lead (Pb)	0.05	ND	0.00062	ND	ND	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	0.0091	ND	mg/l	Dissolved
Manganese (Mn)	0.05	ND	ND	0.0064	0.0062	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.00077	ND	0.0044	0.0046	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.35	0.14	0.34	0.34	ND	mg/l as N	Dissolved
Nitrite(NO2)	10	0.057	0.055	0.057	ND	0.055	mg/l as N	Dissolved
Nitrate-Nitrite Total	1	0.34	0.093	0.34	0.33	0.056	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	6.8	6.9	7	7	n/a	pH units	
Selenium (Se)	0.02	ND	ND	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	0.00013	ND	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	9.2	2.3	8.8	8.8	ND	mg/l	Dissolved
TDS	400	89	160	93	88	ND	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 - 0.03	0.000031	ND	0.00012	0.00014	ND	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.6	0.0069	0.081	0.081	ND	mg/l	Dissolved

The highlighted cells Indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected

Table 2.1.3 Groundwater Quality Test Results – Sample Date December 21, 2023

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Compliance Well Field Blank	Unit	Comments
Aluminum (Al)	5	ND	ND	ND	ND	0.021	mg/l	Dissolved
Antimony (Sb)	0.006	0.0041	0.00047	0.00064	0.00058	0.00054	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.029	0.007	0.041	0.042	0.00067	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	1.41	0.476	0.442	0.867	0.551	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	0.02	0.0019	0.0089	0.0046	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	ND	ND	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	3.6	ND	3.4	3.4	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0099	0.17	ND	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	ND	0.84	mg/l	Dissolved
Gross Alpha Particle Activity	15	0.223	0.39	1.76	-0.802	0.413	pCi/l	
Iron (Fe)	0.3	ND	0.017	0.011	0.015	0.015	mg/l	Dissolved
Lead (Pb)	0.05	0.00025	0.00036	ND	ND	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	0.0098	0.01	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0011	0.00067	0.0067	0.007	ND	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.00065	ND	0.0045	0.0045	ND	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.29	0.14	0.32	0.32	ND	mg/l as N	Dissolved
Nitrite(NO2)	10	ND	0.055	ND	ND	0.055	mg/l as N	Dissolved
Nitrate-Nitrite Total	1	0.28	0.1	0.32	0.32	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	6.5	6.6	8	8	N/A	pH units	
Selenium (Se)	0.02	ND	ND	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	0.000055	0.000063	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	8.4	1.9	8.6	8.6	ND	mg/l	Dissolved
TDS	400	83	26	85	86	ND	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 - 0.03	ND	ND	0.00013	0.00014	ND	mg/l	Dissolved
Vanadium (V)	0.1	0.0011	0.0017	0.0015	0.0015	0.0016	mg/l	Dissolved
Zinc (Zn)	2	0.73	0.0052	0.085	0.084	ND	mg/l	Dissolved

The highlighted cells Indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected



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, provide sampling date and groundwater elevations taken at the time of water sample collection for the months of October, November, and December 2023, respectively. The groundwater elevations shown on the tables were used to develop the potentiometric water surfaces depicted on Figures 15, 16, and 17 for the month of October, November, and December 2023, respectively.

Table 2.2.1 Wells Groundwater Elevation – October 31, 2023

Groundwater Elevation - October		
WELL	COLLAR ELEV.	10/31/2023
	Ft. AMSL	
Caribou	9,744.25	9,708.49
Cabin (Compliance)	9,677.35	9,635.96
Cross	9,692.85	9,648.04
Winze	9,697.48	9,638.30

Table 2.2.2 Wells Groundwater Elevation – November 30, 2023

Groundwater Elevation - November		
WELL	COLLAR ELEV.	11/30/2023
	Ft. AMSL	
Caribou	9,744.25	9,709.26
Cabin (Compliance)	9,677.35	9,634.69
Cross	9,692.85	9,647.28
Winze	9,697.48	9,615.40

Table 2.2.3 Wells Groundwater Elevation – December 21, 2023

Groundwater Elevation - December		
WELL	COLLAR ELEV.	12/21/2023
	Ft. AMSL	
Caribou	9,744.25	9,708.64
Cabin (Compliance)	9,677.35	9,634.57
Cross	9,692.85	9,648.58
Winze	9,697.48	9,585.30



Figure 18 Potentiometric Water Surface – October 2023

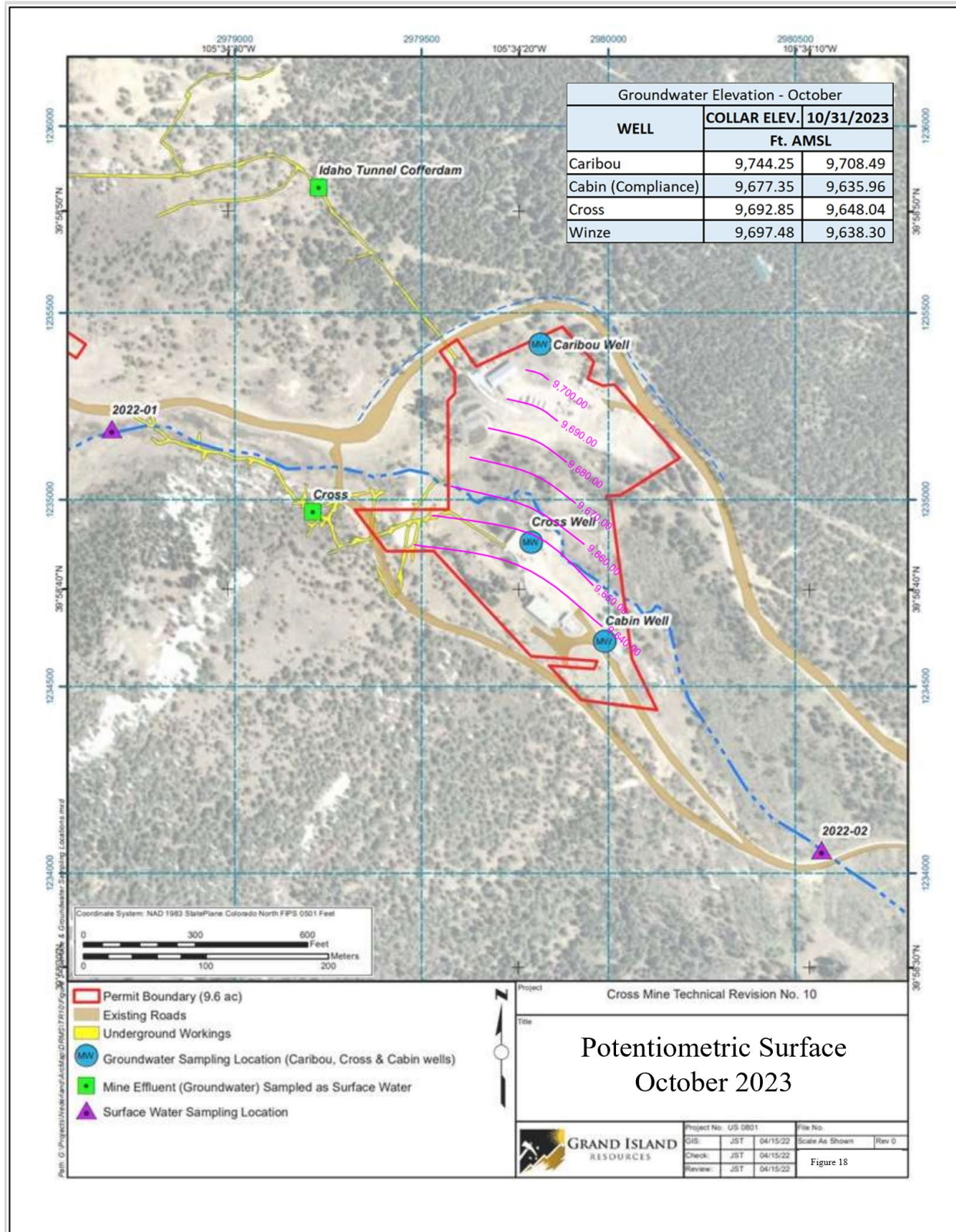




Figure 19 Potentiometric Water Surface – November 2023

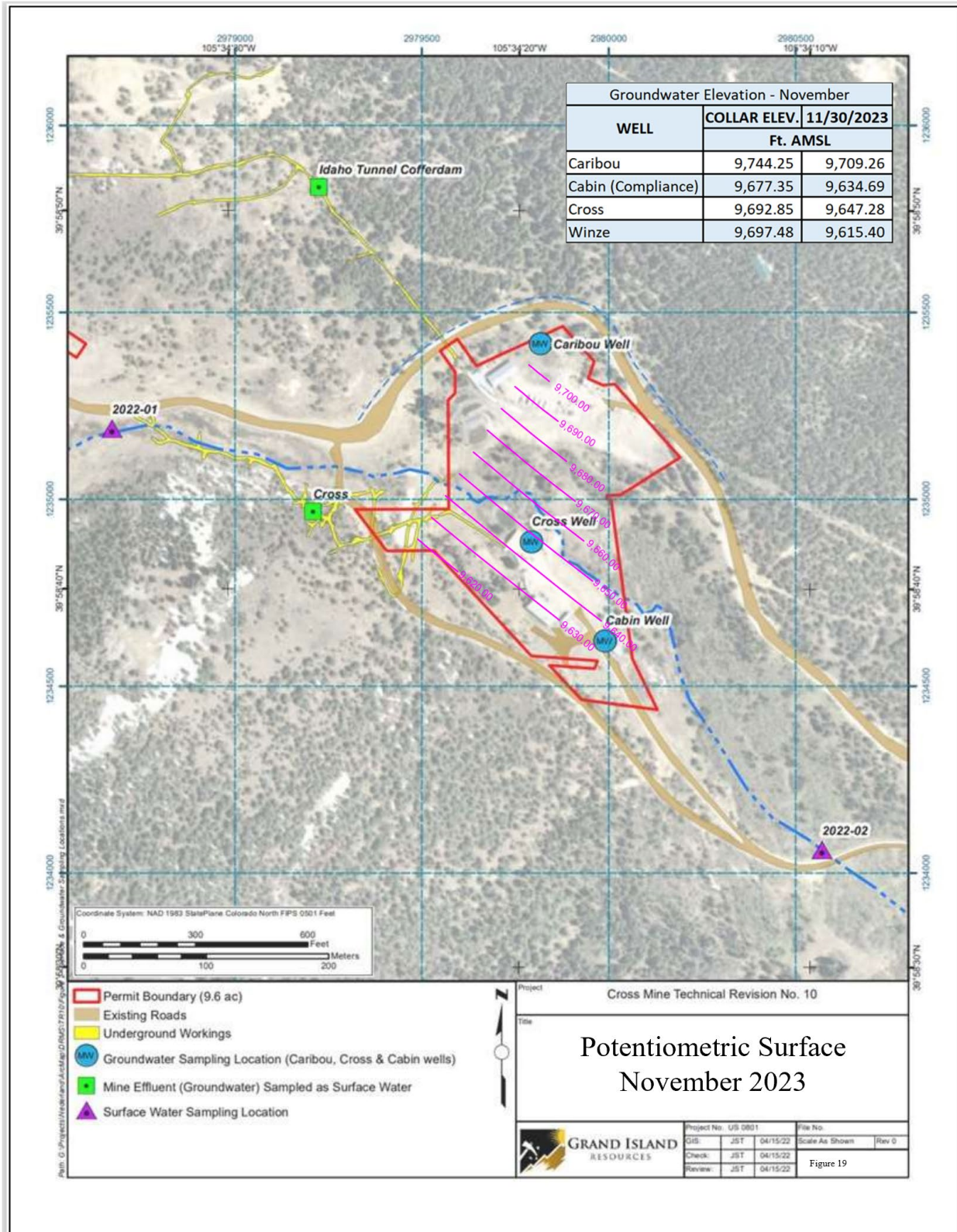
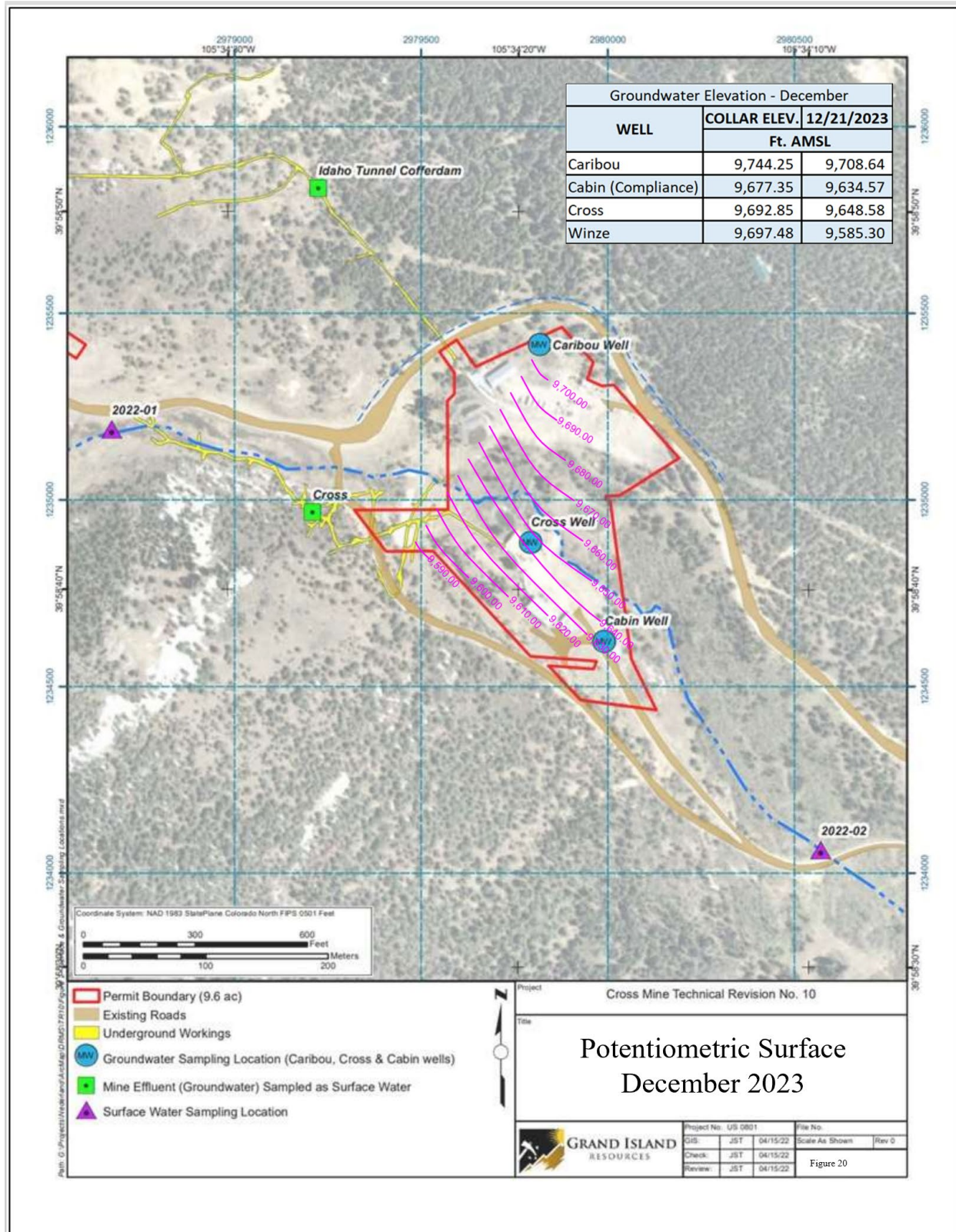




Figure 20 Potentiometric Water Surface – December 2023





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 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 2023, respectively. The complete Water Quality Analytical Results from the Laboratories are provided in Appendix A.

Mine effluent reports to the Water Treatment Plant and discharges via the NPDES permit CO-0032751 Outfall 001 (see section 6 for DMR Copy of Record).

Table 3.1 Effluent Quality Test Results – Sample Date October 31, 2023

Parameter	Standard	Cross Portal	Caribou Portal	Cross Portal Duplicate	Unit	Comments
Aluminum (Al)	5	0.03	0.033	0.056	mg/l	Dissolved
Antimony (Sb)	0.006	0.00047	0.00078	0.00051	mg/l	Dissolved
Arsenic (As)	0.01	ND	0.00054	ND	mg/l	Dissolved
Barium (Ba)	2	0.066	0.055	0.076	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	2.35	3.89	1.55	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	0.0045	0.004	0.0053	mg/l	Dissolved
Cadmium (Cd)	0.005	0.0011	ND	0.0011	mg/l	Dissolved
Chloride (Cl)	250	ND	ND	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0019	ND	0.0052	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	0.931	4.13	1.69	pCi/l	
Iron (Fe)	0.3	0.1	0.11	0.45	mg/l	Dissolved
Lead (Pb)	0.05	0.005	0.0028	0.023	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.011	0.0038	0.03	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	0.000066	0.000066	0.000069	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0067	0.0062	0.0072	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	ND	0.12	ND	mg/l as N	Dissolved
Nitrate-NitriteTotal	10	ND	ND	ND	mg/l as N	Dissolved
Nitrite (NO2)	1	0.052	0.15	0.054	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.3	8.5	7.3	pH units	
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	0.000089	0.000093	0.00043	mg/l	Dissolved
Sulfate (SO4)	250	9.9	10	9.9	mg/l	Dissolved
TDS	400	120	120	110	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 - 0.03	0.00077	0.0058	0.00086	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.2	0.012	0.24	mg/l	Dissolved

The highlighted cells indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" indicates Not Detected

Table 3.2 Effluent Quality Test Results – Sample Date November 30, 2023

Parameter	Standard	Cross Portal	Caribou Portal	Cross Portal Duplicate	Unit	Comments
Aluminum (Al)	5	ND	ND	ND	mg/l	Dissolved
Antimony (Sb)	0.006	0.0005	0.00048	0.00052	mg/l	Dissolved
Arsenic (As)	0.01	ND	0.00067	ND	mg/l	Dissolved
Barium (Ba)	2	0.072	0.057	0.071	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	1.58	1.66	1.05	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	ND	ND	ND	mg/l	Dissolved
Cadmium (Cd)	0.005	0.001	ND	0.00085	mg/l	Dissolved
Chloride (Cl)	250	ND	ND	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0017	ND	0.0018	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	-0.433	6.29	1.7	pCi/l	
Iron (Fe)	0.3	0.0092	0.018	ND	mg/l	Dissolved
Lead (Pb)	0.05	0.00059	0.00024	0.00069	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	0.0098	mg/l	Dissolved
Manganese (Mn)	0.05	0.0085	ND	0.0095	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0074	0.0069	0.0075	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.11	0.16	0.11	mg/l as N	Dissolved
Nitrite(NO2)	10	0.054	0.054	0.054	mg/l as N	Dissolved
Nitrate-Nitrite Total	1	ND	0.11	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	8	8.8	8	pH units	
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	10	9.7	10	mg/l	Dissolved
TDS	400	460	130	110	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	0.00092	0.0064	0.0009	mg/l	Dissolved
Vanadium (V)	0.1	ND	ND	ND	mg/l	Dissolved
Zinc (Zn)	2	0.23	0.0079	0.23	mg/l	Dissolved

The highlighted cells Indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected

Table 3.3 Effluent Quality Test Results – December 21, 2023

Parameter	Standard	Cross Portal	Caribou Portal	Cross Portal Duplicate	Unit	Comments
Aluminum (Al)	5	ND	ND	ND	mg/l	Dissolved
Antimony (Sb)	0.006	0.00084	0.00083	0.00086	mg/l	Dissolved
Arsenic (As)	0.01	ND	0.0009	ND	mg/l	Dissolved
Barium (Ba)	2	0.071	0.058	0.071	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	1.1	1.6	1.21	pCi/l	Std is in mrem/year; Lab reports pCi/l
Boron (B)	0.75	0.0029	0.0021	0.0024	mg/l	Dissolved
Cadmium (Cd)	0.005	0.00088	ND	0.0013	mg/l	Dissolved
Chloride (Cl)	250	ND	ND	ND	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0022	ND	0.0024	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	-0.092	7.13	0.366	pCi/l	
Iron (Fe)	0.3	ND	0.0093	ND	mg/l	Dissolved
Lead (Pb)	0.05	0.0005	0.0004	0.0005	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0083	ND	0.0087	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0074	0.0069	0.0074	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10	0.1	0.16	0.11	mg/l as N	Dissolved
Nitrite(NO2)	10	ND	ND	ND	mg/l as N	Dissolved
Nitrate-Nitrite Total	1	ND	0.12	ND	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	8.3	8.5	8.3	pH units	
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	9.9	9.3	9.9	mg/l	Dissolved
TDS	400	120	110	110	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 - 0.03	0.001	0.0066	0.00098	mg/l	Dissolved
Vanadium (V)	0.1	0.0016	0.0018	0.0015	mg/l	Dissolved
Zinc (Zn)	2	0.23	0.0071	0.23	mg/l	Dissolved

The highlighted cells indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41

"ND" Indicates Not Detected



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

No surface water samples were collected during the 4th Quarter (October, November, and December 2023) for either surface water Station 2022-01 or Station 2022-01 because no surface flows were observed at the time of the sampling events.

4.2. Surface Water Flows

No surface water flow measurements were taken during the 4th Quarter (October, November, and December 2023) for either surface water Station 2022-01 or Station 2022-01 because no surface flows were observed at the time of the sampling events.



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: Duplicate Samples, Field Blanks and Matrix Spikes. On Monday March 13, 2023, GIR consulted with Mr. Patrick Lennberg of DRMS (via telephone) a specific deficiency noted by DRMS on their letter of March 2, 2023, requesting additional information of the GIR 4th Quarter 2022 Report; the conclusion of the review and phone conversation is that the SOP approved under TR10 states field duplicate samples will be collected side-by-side with the primary sample. The Operator shall collect one field duplicate sample for each media sampled (groundwater, effluent, and surface water), for a total of 3 duplicate samples to be collected per sampling event as committed to in TR10. GIR initiated the collection of the Field Duplicate for each media sampled on the March 2023 sampling event and will continue to do so for all sampling events going forward.

5.1. Groundwater

Trip Blank Samples were collected at the Cabin Well (Compliance) and Field Duplicate samples were collected from the Cabin Well (Compliance) during the October, November, and December sampling events. 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.

5.2. Mine Effluent

Field Duplicate samples were collected from the Cross Portal during the July, November, and December sampling events. 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 were used.

5.3. Surface Water

No Field Duplicates were collected during the 4th Quarter (October, November, and December 2023) for either surface water Station 2022-01 or Station 2022-01 because no surface flows were observed at the time of the sampling events.



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, 6.2 and 6.3 present the DMR Copies of Record filed by the Operator with CDPHE for the month of September, October, and November, respectively.

Table 6.1 DMR September 2023

DMR Copy of Record

Permit

Permit #:
Major:

CO0032751
No

Permittee:
Permittee Address:

Grand Island Resources LLC
PO Box 3395
Nederland, CO 80466

Facility:
Facility Location:

CROSS AND CARIBOU MINES
CROSS AND CARIBOU MINES
BOULDER COUNTY, CO 80466

Permitted Feature:

001
External Outfall

Discharge:

001-A
Treated Mine Water to Coon Track Creek

Report Dates & Status

Monitoring Period:

From 09/01/21 to 09/30/21

DMR Due Date:

10/28/21

Status:

NetDMR Validated

Considerations for Form Completion

Oil and grease - see I.A.2, pg 3. 30 day average is the highest monthly average during period reported.

Principal Executive Officer

First Name:
Last Name:

Richard
Mittasch

Title:

VP Operations

Telephone:

720-893-3749

No Data Indicator (NODI)

--

Form NODI:

--

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample								=	13.09			04 - deg C	0	99/99 - Continuous	RC - Recorder (auto)
					Permit Req.									Req Mon MX WK AV		Req Mon DAILY MX	04 - deg C		99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	7.1					12 - SU	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM				<=	9.0 MAXIMUM		02/30 - Twice Per Month	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample													0	01/30 - Monthly	GR - GRAB
					Permit Req.							<=	30.0 30DA AVG		<=	45.0 DAILY MX	19 - mg/L			
					Value NODI								B - Below Detection Limit/No Detection			B - Below Detection Limit/No Detection				
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample													0	01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG				28 - ug/L			
					Value NODI								B - Below Detection Limit/No Detection							
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample							=	30.0				28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG				28 - ug/L			
					Value NODI															
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample													0	01/30 - Monthly	GR - GRAB
					Permit Req.							<=	750.0 30DA AVG		<=	1500.0 DAILY MX	28 - ug/L			
					Value NODI								B - Below Detection Limit/No Detection			B - Below Detection Limit/No Detection				
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample													0	01/30 - Monthly	GR - GRAB
					Permit Req.							<=	50.0 30DA AVG		<=	300.0 DAILY MX	28 - ug/L			
					Value NODI								B - Below Detection Limit/No Detection			B - Below Detection Limit/No Detection				
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample													0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	300.0 30DA AVG		<=	600.0 DAILY MX	28 - ug/L			
					Value NODI								B - Below Detection Limit/No Detection			B - Below Detection Limit/No Detection				
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample													0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	150.0 30DA AVG		<=	300.0 DAILY MX	28 - ug/L			
					Value NODI								B - Below Detection Limit/No Detection			B - Below Detection Limit/No Detection				

Table 6.1 DMR September 2023 (continued)

01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample Permit Req.											Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	01/30 - Monthly	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
01303	Zinc, potentially dissolved	1 - Effluent Gross	9	--	Sample Permit Req.											<= 257.0 30DA AVG		<= 248.0 DAILY MX	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
01304	Silver, potentially dissolved	1 - Effluent Gross	9	--	Sample Permit Req.											<= 0.17 30DA AVG		<= 3.8 DAILY MX	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
01306	Copper, potentially dissolved	1 - Effluent Gross	9	--	Sample Permit Req.											<= 19.0 30DA AVG		<= 28.0 DAILY MX	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
01309	Arsenic, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req.													Req Mon DAILY MX	28 - ug/L	01/30 - Monthly	GR - GRAB
					Value NODI													B - Below Detection Limit/No Detection			
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	9	--	Sample Permit Req.											<= 0.87 30DA AVG		<= 3.0 DAILY MX	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample Permit Req.											Req Mon 30DA AVG			28 - ug/L	01/30 - Monthly	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection					
01318	Lead, potentially dissolvd	1 - Effluent Gross	9	--	Sample Permit Req.											<= 5.3 30DA AVG		<= 115.0 DAILY MX	28 - ug/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample Permit Req.											= 29.0		= 29.0	28 - ug/L	01/30 - Monthly	GR - GRAB
					Value NODI											Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	01/30 - Monthly	GR - GRAB
01322	Nickel, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req.											Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	01/30 - Monthly	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample Permit Req.											Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	01/30 - Monthly	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
03582	Oil and grease	1 - Effluent Gross	0	--	Sample Permit Req.													<= 10.0 INST MAX	19 - mg/L	77/77 - Contingent	GR - GRAB
					Value NODI													B - Below Detection Limit/No Detection			
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample Permit Req.													Req Mon DAILY MX	28 - ug/L	01/30 - Monthly	GR - GRAB
					Value NODI													B - Below Detection Limit/No Detection			
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	9	--	Sample Permit Req.											= 0.102		= 0.263	03 - MGD	99/99 - Continuous	RC - Recorder (auto)
					Value NODI											<= 0.129 30DA AVG		Req Mon DAILY MX	03 - MGD	99/99 - Continuous	RC - Recorder (auto)



Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Please see attached lab results.

Attachments

Name	Type	Size
2021_September_CrossCaribou_MidMonth_Results.pdf	pdf	454399.0
2021_September_CrossCaribou_MonthEnd_Results.pdf	pdf	522831.0

Report Last Saved By

Grand Island Resources LLC

User:

DANIEL.POLLOCK

Name:

Daniel Pollock

E-Mail:

dpollock@nedmining.com

Date/Time:

2021-10-28 20:50 (Time Zone: -06:00)

Report Last Signed By

User:

DANIEL.POLLOCK

Name:

Daniel Pollock

E-Mail:

dpollock@nedmining.com

Date/Time:

2021-10-28 20:51 (Time Zone: -06:00)

Table 6.2 DMR October 2023

DMR Copy of Record

Permit

Permit #:
Major:

CO0032751
No

Permittee:
Permittee Address:

Grand Island Resources LLC
12567 W Cedar Dr
Lakewood, CO 80228

Facility:
Facility Location:

CROSS AND CARIBOU MINES
CROSS AND CARIBOU MINES
BOULDER COUNTY, CO 80466

Permitted Feature:

001
External Outfall

Discharge:

001-A
Treated Mine Water to Coon Track Creek

Report Dates & Status

Monitoring Period:

From 10/01/23 to 10/31/23

DMR Due Date:

11/28/23

Status:

NetDMR Validated

Considerations for Form Completion

Oil and grease - see I.A.2, pg 3. 30 day average is the highest monthly average during period reported.

Principal Executive Officer

First Name:
Last Name:

Title:

Telephone:

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample								=	6.14			04 - deg C	0	99/99 - Continuous	RC - Recorder (auto)
					Permit Req.									Req Mon MX WK AV		Req Mon DAILY MX	04 - deg C		99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample					=	7.64				=	8.3	12 - SU	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.					>=	6.5 MINIMUM				<=	9.0 MAXIMUM	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample							<	4.0		<	4.0	19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.							<=	30.0 30DA AVG		<=	45.0 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB
					Value NODI															
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample							<	5.0				28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG				28 - ug/L		01/30 - Monthly	GR - GRAB
					Value NODI															
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample							<	100.0				28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG				28 - ug/L		01/30 - Monthly	GR - GRAB
					Value NODI															
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample							=	14.0		=	14.0	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.							<=	750.0 30DA AVG		<=	1500.0 DAILY MX	28 - ug/L		01/30 - Monthly	GR - GRAB
					Value NODI															
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample							<	1.0		<	1.0	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.							<=	50.0 30DA AVG		<=	300.0 DAILY MX	28 - ug/L		01/30 - Monthly	GR - GRAB
					Value NODI															
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample							<	1.0		<	1.0	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	300.0 30DA AVG		<=	600.0 DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample							<	2.0		<	2.0	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	150.0 30DA AVG		<=	300.0 DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01220	Chromium, hexavalent dissolved [as	1 - Effluent	0	--	Sample							<	20.0		<	20.0	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG			Req Mon DAILY MX	28 - ug/L		01/30 - Monthly	GR - GRAB

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Table 6.3 DMR November 2023

DMR Copy of Record

Permit

Permit #:
Major:

CO0032751
No

Permittee:
Permittee Address:

Grand Island Resources LLC
12567 W Cedar Dr
Lakewood, CO 80228

Facility:
Facility Location:

CROSS AND CARIBOU MINES
CROSS AND CARIBOU MINES
BOULDER COUNTY, CO 80466

Permitted Feature:

001
External Outfall

Discharge:

001-A
Treated Mine Water to Coon Track Creek

Report Dates & Status

Monitoring Period:

From 11/01/23 to 11/30/23

DMR Due Date:

12/28/23

Status:

NetDMR Validated

Considerations for Form Completion

Oil and grease - see I.A.2, pg 3. 30 day average is the highest monthly average during period reported.

Principal Executive Officer

First Name:
Last Name:

Title:

Telephone:

No Data Indicator (NODI)

--

Form NODI:

--

Table 6.3 DMR November 2023 (continued)

Crj	Gross			Value NODI															
01303	Zinc, potentially dissolved	1 - Effluent Gross	11	--	Sample														
					Permit Req.														
					Value NODI														
01304	Silver, potentially dissolved	1 - Effluent Gross	11	--	Sample														
					Permit Req.														
					Value NODI														
01306	Copper, potentially dissolved	1 - Effluent Gross	11	--	Sample														
					Permit Req.														
					Value NODI														
01309	Arsenic, potentially dissolved	1 - Effluent Gross	0	--	Sample														
					Permit Req.														
					Value NODI														
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	11	--	Sample														
					Permit Req.														
					Value NODI														
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample														
					Permit Req.														
					Value NODI														
01318	Lead, potentially dissolved	1 - Effluent Gross	11	--	Sample														
					Permit Req.														
					Value NODI														
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample														
					Permit Req.														
					Value NODI														
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample														
					Permit Req.														
					Value NODI														
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample														
					Permit Req.														
					Value NODI														
03582	Oil and grease	1 - Effluent Gross	0	--	Sample														
					Permit Req.														
					Value NODI														
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample														
					Permit Req.														
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	11	--	Sample														
					Permit Req.														
					Value NODI														
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample														
					Permit Req.														
					Value NODI														

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Appendices

APPENDICES

APPENDIX A GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

APPENDIX A.1 OCTOBER 2023 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 11/22/2023 3:03:43 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-183833-1

Eurofins Denver

Job Notes

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

Authorization



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Authorized for release by
Dylan Bieniulis, Project Manager I
Dylan.Bieniulis@et.eurofinsus.com
(303)736-0138

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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.

General Chemistry

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Job ID: 280-183833-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO - Groundwater

Report Number: 280-183833-1

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 10/31/2023 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 6.9° C and 8.0° C.

Receipt temperature is considered acceptable as the samples were collected and submitted to the laboratory on the same date.

The sample collection time on the containers did not match the sample collection time on the COC for sample CARIBOU PORTAL (280-183833-8). The laboratory logged the sample collection time per the chain of custody.

The requested radiochemistry analyses are reported separately under report number 280-183833-2. All other requested analyses are reported under report number 280-183833-1.

DISSOLVED METALS (ICP)

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for Dissolved metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 11/13/2023 and analyzed on 11/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/13/2023 and analyzed on 11/15/2023.

Cobalt and Manganese failed the recovery criteria low for the MS of sample 280-183676-3 in batch 280-634161. Refer to the QC report for details.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. Refer to the QC report for details.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Job ID: 280-183833-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for dissolved mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared on 11/13/2023 and analyzed on 11/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 11/06/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 11/17/2023 and 11/18/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (48 HOURS)

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for anions (48 hours) in accordance with EPA Method 300.0 (48 Hours). The samples were analyzed on 11/01/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 11/07/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FREE CYANIDE

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for Free Cyanide in accordance with 4500_CN_I. The samples were analyzed on 11/03/2023 and 11/13/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CHLORIDE

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for total chloride in accordance with SM20 4500 Cl-E. The samples were analyzed on 11/01/2023.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Job ID: 280-183833-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFATE

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for sulfate in accordance with SM 4500 S04 E. The samples were analyzed on 11/01/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-183833-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0055	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.011	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.028		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.0078		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00050	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.00088	J	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.00067	J	0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.000079	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.78		0.010	0.0020	mg/L	1		200.8	Dissolved
Mercury	0.000071	J	0.00020	0.000061	mg/L	1		245.1	Dissolved
Fluoride	1.3		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrate as N	0.24	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.30		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	89		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.4		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	8.8		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-183833-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0044	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.019	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.040		0.0030	0.00038	mg/L	1		200.8	Dissolved
Lead	0.00031	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0064		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0045		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00014	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.077		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.27	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.34		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	81		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.4		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	8.5		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-183833-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0039	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.017	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.038		0.0030	0.00038	mg/L	1		200.8	Dissolved
Lead	0.00026	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0063		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0041		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00014	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.076		0.010	0.0020	mg/L	1		200.8	Dissolved
Mercury	0.000061	J	0.00020	0.000061	mg/L	1		245.1	Dissolved
Nitrate as N	0.29	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.34		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	75		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.4		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	8.6		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-183833-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	0.011	J	0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Mercury	0.000068	J	0.00020	0.000061	mg/L	1			245.1	Dissolved

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-183833-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.019	J	0.10	0.018	mg/L	1			200.7 Rev 4.4	Dissolved
Boron	0.0026	J	0.10	0.0015	mg/L	1			200.7 Rev 4.4	Dissolved
Iron	0.021	J	0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Barium	0.0061		0.0030	0.00038	mg/L	1			200.8	Dissolved
Copper	0.095		0.0020	0.00071	mg/L	1			200.8	Dissolved
Lead	0.00043	J	0.0010	0.00023	mg/L	1			200.8	Dissolved
Manganese	0.00055	J	0.0030	0.00051	mg/L	1			200.8	Dissolved
Zinc	0.0069	J	0.010	0.0020	mg/L	1			200.8	Dissolved
Nitrate Nitrite as N	0.095	J	0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	29		10	4.7	mg/L	1			SM 2540C	Total/NA
Sulfate	2.0	J	5.0	0.71	mg/L	1			SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-183833-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.030	J	0.10	0.018	mg/L	1			200.7 Rev 4.4	Dissolved
Boron	0.0045	J	0.10	0.0015	mg/L	1			200.7 Rev 4.4	Dissolved
Iron	0.10		0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Antimony	0.00047	J	0.0020	0.00040	mg/L	1			200.8	Dissolved
Barium	0.066		0.0030	0.00038	mg/L	1			200.8	Dissolved
Cadmium	0.0011		0.0010	0.00019	mg/L	1			200.8	Dissolved
Copper	0.0019	J	0.0020	0.00071	mg/L	1			200.8	Dissolved
Lead	0.0050		0.0010	0.00023	mg/L	1			200.8	Dissolved
Manganese	0.011		0.0030	0.00051	mg/L	1			200.8	Dissolved
Molybdenum	0.0067		0.0020	0.00037	mg/L	1			200.8	Dissolved
Silver	0.000089	J	0.0010	0.000045	mg/L	1			200.8	Dissolved
Uranium	0.00077	J	0.0010	0.000030	mg/L	1			200.8	Dissolved
Zinc	0.20		0.010	0.0020	mg/L	1			200.8	Dissolved
Mercury	0.000066	J	0.00020	0.000061	mg/L	1			245.1	Dissolved
Nitrate Nitrite as N	0.052	J	0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	120		10	4.7	mg/L	1			SM 2540C	Total/NA
Sulfate	9.9		5.0	0.71	mg/L	1			SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-183833-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.056	J	0.10	0.018	mg/L	1			200.7 Rev 4.4	Dissolved
Boron	0.0053	J	0.10	0.0015	mg/L	1			200.7 Rev 4.4	Dissolved
Iron	0.45		0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Antimony	0.00051	J	0.0020	0.00040	mg/L	1			200.8	Dissolved
Barium	0.076		0.0030	0.00038	mg/L	1			200.8	Dissolved
Cadmium	0.0011		0.0010	0.00019	mg/L	1			200.8	Dissolved
Copper	0.0052		0.0020	0.00071	mg/L	1			200.8	Dissolved
Lead	0.023		0.0010	0.00023	mg/L	1			200.8	Dissolved
Manganese	0.030		0.0030	0.00051	mg/L	1			200.8	Dissolved
Molybdenum	0.0072		0.0020	0.00037	mg/L	1			200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Client Sample ID: CROSS PORTAL 02 (Continued)

Lab Sample ID: 280-183833-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.00043	J	0.0010	0.000045	mg/L	1		200.8	Dissolved
Uranium	0.00086	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.24		0.010	0.0020	mg/L	1		200.8	Dissolved
Mercury	0.000069	J	0.00020	0.000061	mg/L	1		245.1	Dissolved
Nitrate Nitrite as N	0.054	J	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	110		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	9.9		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-183833-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.033	J	0.10	0.018	mg/L	1		200.7 Rev 4.4	Dissolved
Boron	0.0040	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.11		0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00078	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Arsenic	0.00054	J	0.0050	0.00050	mg/L	1		200.8	Dissolved
Barium	0.055		0.0030	0.00038	mg/L	1		200.8	Dissolved
Lead	0.0028		0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0038		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0062		0.0020	0.00037	mg/L	1		200.8	Dissolved
Silver	0.000093	J	0.0010	0.000045	mg/L	1		200.8	Dissolved
Uranium	0.0058		0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.012		0.010	0.0020	mg/L	1		200.8	Dissolved
Mercury	0.000066	J	0.00020	0.000061	mg/L	1		245.1	Dissolved
Nitrate as N	0.12	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.15		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	120		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	10		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

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
300.0	Anions, Ion Chromatography	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 Cl- E	Chloride, Total	SM	EET DEN
SM 4500 CN I	Cyanide, Weak Acid Dissociable	SM	EET DEN
SM 4500 SO4 E	Sulfate, Total	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

Protocol References:

EPA = US Environmental Protection Agency

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

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-183833-1	CROSS WELL	Water	10/31/23 13:00	10/31/23 15:50
280-183833-2	COMPLIANCE WELL	Water	10/31/23 13:30	10/31/23 15:50
280-183833-3	COMPLIANCE 02	Water	10/31/23 13:30	10/31/23 15:50
280-183833-4	COMPLIANCE 03	Water	10/31/23 13:30	10/31/23 15:50
280-183833-5	CARIBOU WELL	Water	10/31/23 11:30	10/31/23 15:50
280-183833-6	CROSS PORTAL	Water	10/31/23 12:15	10/31/23 15:50
280-183833-7	CROSS PORTAL 02	Water	10/31/23 12:15	10/31/23 15:50
280-183833-8	CARIBOU PORTAL	Water	10/31/23 11:15	10/31/23 15:50

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 10/31/23 13:00

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		11/13/23 08:50	11/14/23 00:14	1
Boron	0.0055	J	0.10	0.0015	mg/L		11/13/23 08:50	11/14/23 00:14	1
Iron	0.011	J	0.10	0.0091	mg/L		11/13/23 08:50	11/14/23 00:14	1
Lithium	ND		0.020	0.0091	mg/L		11/13/23 08:50	11/14/23 15:21	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		11/13/23 08:50	11/14/23 00:19	1
Boron	0.0044	J	0.10	0.0015	mg/L		11/13/23 08:50	11/14/23 00:19	1
Iron	0.019	J	0.10	0.0091	mg/L		11/13/23 08:50	11/14/23 00:19	1
Lithium	ND		0.020	0.0091	mg/L		11/13/23 08:50	11/14/23 15:25	1

Client Sample ID: COMPLIANCE 02

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		11/13/23 08:50	11/14/23 00:23	1
Boron	0.0039	J	0.10	0.0015	mg/L		11/13/23 08:50	11/14/23 00:23	1
Iron	0.017	J	0.10	0.0091	mg/L		11/13/23 08:50	11/14/23 00:23	1
Lithium	ND		0.020	0.0091	mg/L		11/13/23 08:50	11/14/23 15:29	1

Client Sample ID: COMPLIANCE 03

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		11/13/23 08:50	11/14/23 00:27	1
Boron	ND		0.10	0.0015	mg/L		11/13/23 08:50	11/14/23 00:27	1
Iron	0.011	J	0.10	0.0091	mg/L		11/13/23 08:50	11/14/23 00:27	1
Lithium	ND		0.020	0.0091	mg/L		11/13/23 08:50	11/14/23 15:33	1

Client Sample ID: CARIBOU WELL

Date Collected: 10/31/23 11:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.019	J	0.10	0.018	mg/L		11/13/23 08:50	11/14/23 00:31	1
Boron	0.0026	J	0.10	0.0015	mg/L		11/13/23 08:50	11/14/23 00:31	1
Iron	0.021	J	0.10	0.0091	mg/L		11/13/23 08:50	11/14/23 00:31	1
Lithium	ND		0.020	0.0091	mg/L		11/13/23 08:50	11/14/23 15:37	1

Client Sample ID: CROSS PORTAL

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.030	J	0.10	0.018	mg/L		11/13/23 08:50	11/14/23 00:35	1
Boron	0.0045	J	0.10	0.0015	mg/L		11/13/23 08:50	11/14/23 00:35	1
Iron	0.10		0.10	0.0091	mg/L		11/13/23 08:50	11/14/23 00:35	1
Lithium	ND		0.020	0.0091	mg/L		11/13/23 08:50	11/14/23 15:53	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: CROSS PORTAL 02

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.056	J	0.10	0.018	mg/L		11/13/23 08:50	11/14/23 00:39	1
Boron	0.0053	J	0.10	0.0015	mg/L		11/13/23 08:50	11/14/23 00:39	1
Iron	0.45		0.10	0.0091	mg/L		11/13/23 08:50	11/14/23 00:39	1
Lithium	ND		0.020	0.0091	mg/L		11/13/23 08:50	11/14/23 15:57	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 10/31/23 11:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.033	J	0.10	0.018	mg/L		11/13/23 08:50	11/14/23 00:44	1
Boron	0.0040	J	0.10	0.0015	mg/L		11/13/23 08:50	11/14/23 00:44	1
Iron	0.11		0.10	0.0091	mg/L		11/13/23 08:50	11/14/23 00:44	1
Lithium	ND		0.020	0.0091	mg/L		11/13/23 08:50	11/14/23 16:01	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 10/31/23 13:00

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		11/13/23 08:50	11/15/23 00:21	1
Arsenic	ND		0.0050	0.00050	mg/L		11/13/23 08:50	11/15/23 00:21	1
Barium	0.028		0.0030	0.00038	mg/L		11/13/23 08:50	11/15/23 00:21	1
Beryllium	ND		0.0010	0.00030	mg/L		11/13/23 08:50	11/15/23 00:21	1
Cadmium	ND		0.0010	0.00019	mg/L		11/13/23 08:50	11/15/23 00:21	1
Chromium	ND		0.0030	0.00050	mg/L		11/13/23 08:50	11/15/23 00:21	1
Cobalt	ND		0.0010	0.00033	mg/L		11/13/23 08:50	11/15/23 00:21	1
Copper	0.0078		0.0020	0.00071	mg/L		11/13/23 08:50	11/15/23 00:21	1
Lead	0.00050	J	0.0010	0.00023	mg/L		11/13/23 08:50	11/15/23 00:21	1
Manganese	0.00088	J	0.0030	0.00051	mg/L		11/13/23 08:50	11/15/23 00:21	1
Molybdenum	0.00067	J	0.0020	0.00037	mg/L		11/13/23 08:50	11/15/23 19:48	1
Nickel	ND		0.0030	0.00083	mg/L		11/13/23 08:50	11/15/23 00:21	1
Selenium	ND		0.0050	0.0010	mg/L		11/13/23 08:50	11/15/23 00:21	1
Silver	ND		0.0010	0.000045	mg/L		11/13/23 08:50	11/15/23 00:21	1
Thallium	ND		0.0010	0.00021	mg/L		11/13/23 08:50	11/15/23 00:21	1
Uranium	0.000079	J	0.0010	0.000030	mg/L		11/13/23 08:50	11/15/23 19:48	1
Vanadium	ND		0.0050	0.0011	mg/L		11/13/23 08:50	11/15/23 00:21	1
Zinc	0.78		0.010	0.0020	mg/L		11/13/23 08:50	11/15/23 00:21	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		11/13/23 08:50	11/15/23 00:25	1
Arsenic	ND		0.0050	0.00050	mg/L		11/13/23 08:50	11/15/23 00:25	1
Barium	0.040		0.0030	0.00038	mg/L		11/13/23 08:50	11/15/23 00:25	1
Beryllium	ND		0.0010	0.00030	mg/L		11/13/23 08:50	11/15/23 00:25	1
Cadmium	ND		0.0010	0.00019	mg/L		11/13/23 08:50	11/15/23 00:25	1
Chromium	ND		0.0030	0.00050	mg/L		11/13/23 08:50	11/15/23 00:25	1
Cobalt	ND		0.0010	0.00033	mg/L		11/13/23 08:50	11/15/23 00:25	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: COMPLIANCE WELL

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0020	0.00071	mg/L		11/13/23 08:50	11/15/23 00:25	1
Lead	0.00031	J	0.0010	0.00023	mg/L		11/13/23 08:50	11/15/23 00:25	1
Manganese	0.0064		0.0030	0.00051	mg/L		11/13/23 08:50	11/15/23 00:25	1
Molybdenum	0.0045		0.0020	0.00037	mg/L		11/13/23 08:50	11/15/23 19:52	1
Nickel	ND		0.0030	0.00083	mg/L		11/13/23 08:50	11/15/23 00:25	1
Selenium	ND		0.0050	0.0010	mg/L		11/13/23 08:50	11/15/23 00:25	1
Silver	ND		0.0010	0.000045	mg/L		11/13/23 08:50	11/15/23 00:25	1
Thallium	ND		0.0010	0.00021	mg/L		11/13/23 08:50	11/15/23 00:25	1
Uranium	0.00014	J	0.0010	0.000030	mg/L		11/13/23 08:50	11/15/23 19:52	1
Vanadium	ND		0.0050	0.0011	mg/L		11/13/23 08:50	11/15/23 00:25	1
Zinc	0.077		0.010	0.0020	mg/L		11/13/23 08:50	11/15/23 00:25	1

Client Sample ID: COMPLIANCE 02

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		11/13/23 08:50	11/15/23 00:36	1
Arsenic	ND		0.0050	0.00050	mg/L		11/13/23 08:50	11/15/23 00:36	1
Barium	0.038		0.0030	0.00038	mg/L		11/13/23 08:50	11/15/23 00:36	1
Beryllium	ND		0.0010	0.00030	mg/L		11/13/23 08:50	11/15/23 00:36	1
Cadmium	ND		0.0010	0.00019	mg/L		11/13/23 08:50	11/15/23 00:36	1
Chromium	ND		0.0030	0.00050	mg/L		11/13/23 08:50	11/15/23 00:36	1
Cobalt	ND		0.0010	0.00033	mg/L		11/13/23 08:50	11/15/23 00:36	1
Copper	ND		0.0020	0.00071	mg/L		11/13/23 08:50	11/15/23 00:36	1
Lead	0.00026	J	0.0010	0.00023	mg/L		11/13/23 08:50	11/15/23 00:36	1
Manganese	0.0063		0.0030	0.00051	mg/L		11/13/23 08:50	11/15/23 00:36	1
Molybdenum	0.0041		0.0020	0.00037	mg/L		11/13/23 08:50	11/15/23 20:02	1
Nickel	ND		0.0030	0.00083	mg/L		11/13/23 08:50	11/15/23 00:36	1
Selenium	ND		0.0050	0.0010	mg/L		11/13/23 08:50	11/15/23 00:36	1
Silver	ND		0.0010	0.000045	mg/L		11/13/23 08:50	11/15/23 00:36	1
Thallium	ND		0.0010	0.00021	mg/L		11/13/23 08:50	11/15/23 00:36	1
Uranium	0.00014	J	0.0010	0.000030	mg/L		11/13/23 08:50	11/15/23 20:02	1
Vanadium	ND		0.0050	0.0011	mg/L		11/13/23 08:50	11/15/23 00:36	1
Zinc	0.076		0.010	0.0020	mg/L		11/13/23 08:50	11/15/23 00:36	1

Client Sample ID: COMPLIANCE 03

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		11/13/23 08:50	11/15/23 00:39	1
Arsenic	ND		0.0050	0.00050	mg/L		11/13/23 08:50	11/15/23 00:39	1
Barium	ND		0.0030	0.00038	mg/L		11/13/23 08:50	11/15/23 00:39	1
Beryllium	ND		0.0010	0.00030	mg/L		11/13/23 08:50	11/15/23 00:39	1
Cadmium	ND		0.0010	0.00019	mg/L		11/13/23 08:50	11/15/23 00:39	1
Chromium	ND		0.0030	0.00050	mg/L		11/13/23 08:50	11/15/23 00:39	1
Cobalt	ND		0.0010	0.00033	mg/L		11/13/23 08:50	11/15/23 00:39	1
Copper	ND		0.0020	0.00071	mg/L		11/13/23 08:50	11/15/23 00:39	1
Lead	ND		0.0010	0.00023	mg/L		11/13/23 08:50	11/15/23 00:39	1
Manganese	ND		0.0030	0.00051	mg/L		11/13/23 08:50	11/15/23 00:39	1
Molybdenum	ND		0.0020	0.00037	mg/L		11/13/23 08:50	11/15/23 20:06	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: COMPLIANCE 03

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0030	0.00083	mg/L		11/13/23 08:50	11/15/23 00:39	1
Selenium	ND		0.0050	0.0010	mg/L		11/13/23 08:50	11/15/23 00:39	1
Silver	ND		0.0010	0.000045	mg/L		11/13/23 08:50	11/15/23 00:39	1
Thallium	ND		0.0010	0.00021	mg/L		11/13/23 08:50	11/15/23 00:39	1
Uranium	ND		0.0010	0.000030	mg/L		11/13/23 08:50	11/15/23 20:06	1
Vanadium	ND		0.0050	0.0011	mg/L		11/13/23 08:50	11/15/23 00:39	1
Zinc	ND		0.010	0.0020	mg/L		11/13/23 08:50	11/15/23 00:39	1

Client Sample ID: CARIBOU WELL

Date Collected: 10/31/23 11:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		11/13/23 08:50	11/15/23 00:43	1
Arsenic	ND		0.0050	0.00050	mg/L		11/13/23 08:50	11/15/23 00:43	1
Barium	0.0061		0.0030	0.00038	mg/L		11/13/23 08:50	11/15/23 00:43	1
Beryllium	ND		0.0010	0.00030	mg/L		11/13/23 08:50	11/15/23 00:43	1
Cadmium	ND		0.0010	0.00019	mg/L		11/13/23 08:50	11/15/23 00:43	1
Chromium	ND		0.0030	0.00050	mg/L		11/13/23 08:50	11/15/23 00:43	1
Cobalt	ND		0.0010	0.00033	mg/L		11/13/23 08:50	11/15/23 00:43	1
Copper	0.095		0.0020	0.00071	mg/L		11/13/23 08:50	11/15/23 00:43	1
Lead	0.00043	J	0.0010	0.00023	mg/L		11/13/23 08:50	11/15/23 00:43	1
Manganese	0.00055	J	0.0030	0.00051	mg/L		11/13/23 08:50	11/15/23 00:43	1
Molybdenum	ND		0.0020	0.00037	mg/L		11/13/23 08:50	11/15/23 20:10	1
Nickel	ND		0.0030	0.00083	mg/L		11/13/23 08:50	11/15/23 00:43	1
Selenium	ND		0.0050	0.0010	mg/L		11/13/23 08:50	11/15/23 00:43	1
Silver	ND		0.0010	0.000045	mg/L		11/13/23 08:50	11/15/23 00:43	1
Thallium	ND		0.0010	0.00021	mg/L		11/13/23 08:50	11/15/23 00:43	1
Uranium	ND		0.0010	0.000030	mg/L		11/13/23 08:50	11/15/23 20:10	1
Vanadium	ND		0.0050	0.0011	mg/L		11/13/23 08:50	11/15/23 00:43	1
Zinc	0.0069	J	0.010	0.0020	mg/L		11/13/23 08:50	11/15/23 00:43	1

Client Sample ID: CROSS PORTAL

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00047	J	0.0020	0.00040	mg/L		11/13/23 08:50	11/15/23 00:46	1
Arsenic	ND		0.0050	0.00050	mg/L		11/13/23 08:50	11/15/23 00:46	1
Barium	0.066		0.0030	0.00038	mg/L		11/13/23 08:50	11/15/23 00:46	1
Beryllium	ND		0.0010	0.00030	mg/L		11/13/23 08:50	11/15/23 00:46	1
Cadmium	0.0011		0.0010	0.00019	mg/L		11/13/23 08:50	11/15/23 00:46	1
Chromium	ND		0.0030	0.00050	mg/L		11/13/23 08:50	11/15/23 00:46	1
Cobalt	ND		0.0010	0.00033	mg/L		11/13/23 08:50	11/15/23 00:46	1
Copper	0.0019	J	0.0020	0.00071	mg/L		11/13/23 08:50	11/15/23 00:46	1
Lead	0.0050		0.0010	0.00023	mg/L		11/13/23 08:50	11/15/23 00:46	1
Manganese	0.011		0.0030	0.00051	mg/L		11/13/23 08:50	11/15/23 00:46	1
Molybdenum	0.0067		0.0020	0.00037	mg/L		11/13/23 08:50	11/15/23 20:13	1
Nickel	ND		0.0030	0.00083	mg/L		11/13/23 08:50	11/15/23 00:46	1
Selenium	ND		0.0050	0.0010	mg/L		11/13/23 08:50	11/15/23 00:46	1
Silver	0.000089	J	0.0010	0.000045	mg/L		11/13/23 08:50	11/15/23 00:46	1
Thallium	ND		0.0010	0.00021	mg/L		11/13/23 08:50	11/15/23 00:46	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: CROSS PORTAL

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.00077	J	0.0010	0.000030	mg/L		11/13/23 08:50	11/15/23 20:13	1
Vanadium	ND		0.0050	0.0011	mg/L		11/13/23 08:50	11/15/23 00:46	1
Zinc	0.20		0.010	0.0020	mg/L		11/13/23 08:50	11/15/23 00:46	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00051	J	0.0020	0.00040	mg/L		11/13/23 08:50	11/15/23 00:50	1
Arsenic	ND		0.0050	0.00050	mg/L		11/13/23 08:50	11/15/23 00:50	1
Barium	0.076		0.0030	0.00038	mg/L		11/13/23 08:50	11/15/23 00:50	1
Beryllium	ND		0.0010	0.00030	mg/L		11/13/23 08:50	11/15/23 00:50	1
Cadmium	0.0011		0.0010	0.00019	mg/L		11/13/23 08:50	11/15/23 00:50	1
Chromium	ND		0.0030	0.00050	mg/L		11/13/23 08:50	11/15/23 00:50	1
Cobalt	ND		0.0010	0.00033	mg/L		11/13/23 08:50	11/15/23 00:50	1
Copper	0.0052		0.0020	0.00071	mg/L		11/13/23 08:50	11/15/23 00:50	1
Lead	0.023		0.0010	0.00023	mg/L		11/13/23 08:50	11/15/23 00:50	1
Manganese	0.030		0.0030	0.00051	mg/L		11/13/23 08:50	11/15/23 00:50	1
Molybdenum	0.0072		0.0020	0.00037	mg/L		11/13/23 08:50	11/15/23 20:17	1
Nickel	ND		0.0030	0.00083	mg/L		11/13/23 08:50	11/15/23 00:50	1
Selenium	ND		0.0050	0.0010	mg/L		11/13/23 08:50	11/15/23 00:50	1
Silver	0.00043	J	0.0010	0.000045	mg/L		11/13/23 08:50	11/15/23 00:50	1
Thallium	ND		0.0010	0.00021	mg/L		11/13/23 08:50	11/15/23 00:50	1
Uranium	0.00086	J	0.0010	0.000030	mg/L		11/13/23 08:50	11/15/23 20:17	1
Vanadium	ND		0.0050	0.0011	mg/L		11/13/23 08:50	11/15/23 00:50	1
Zinc	0.24		0.010	0.0020	mg/L		11/13/23 08:50	11/15/23 00:50	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 10/31/23 11:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00078	J	0.0020	0.00040	mg/L		11/13/23 08:50	11/15/23 00:53	1
Arsenic	0.00054	J	0.0050	0.00050	mg/L		11/13/23 08:50	11/15/23 00:53	1
Barium	0.055		0.0030	0.00038	mg/L		11/13/23 08:50	11/15/23 00:53	1
Beryllium	ND		0.0010	0.00030	mg/L		11/13/23 08:50	11/15/23 00:53	1
Cadmium	ND		0.0010	0.00019	mg/L		11/13/23 08:50	11/15/23 00:53	1
Chromium	ND		0.0030	0.00050	mg/L		11/13/23 08:50	11/15/23 00:53	1
Cobalt	ND		0.0010	0.00033	mg/L		11/13/23 08:50	11/15/23 00:53	1
Copper	ND		0.0020	0.00071	mg/L		11/13/23 08:50	11/15/23 00:53	1
Lead	0.0028		0.0010	0.00023	mg/L		11/13/23 08:50	11/15/23 00:53	1
Manganese	0.0038		0.0030	0.00051	mg/L		11/13/23 08:50	11/15/23 00:53	1
Molybdenum	0.0062		0.0020	0.00037	mg/L		11/13/23 08:50	11/15/23 20:20	1
Nickel	ND		0.0030	0.00083	mg/L		11/13/23 08:50	11/15/23 00:53	1
Selenium	ND		0.0050	0.0010	mg/L		11/13/23 08:50	11/15/23 00:53	1
Silver	0.000093	J	0.0010	0.000045	mg/L		11/13/23 08:50	11/15/23 00:53	1
Thallium	ND		0.0010	0.00021	mg/L		11/13/23 08:50	11/15/23 00:53	1
Uranium	0.0058		0.0010	0.000030	mg/L		11/13/23 08:50	11/15/23 20:20	1
Vanadium	ND		0.0050	0.0011	mg/L		11/13/23 08:50	11/15/23 00:53	1
Zinc	0.012		0.010	0.0020	mg/L		11/13/23 08:50	11/15/23 00:53	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: EPA 245.1 - Mercury (CVAA) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 10/31/23 13:00

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000071	J	0.00020	0.000061	mg/L		11/13/23 13:02	11/14/23 17:42	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		11/13/23 13:02	11/14/23 17:49	1

Client Sample ID: COMPLIANCE 02

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000061	J	0.00020	0.000061	mg/L		11/13/23 13:02	11/14/23 17:52	1

Client Sample ID: COMPLIANCE 03

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000068	J	0.00020	0.000061	mg/L		11/13/23 13:02	11/14/23 17:54	1

Client Sample ID: CARIBOU WELL

Date Collected: 10/31/23 11:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		11/13/23 13:02	11/14/23 17:57	1

Client Sample ID: CROSS PORTAL

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000066	J	0.00020	0.000061	mg/L		11/13/23 13:02	11/14/23 18:00	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000069	J	0.00020	0.000061	mg/L		11/13/23 13:02	11/14/23 18:02	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 10/31/23 11:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000066	J	0.00020	0.000061	mg/L		11/13/23 13:02	11/14/23 18:05	1

General Chemistry

Client Sample ID: CROSS WELL

Date Collected: 10/31/23 13:00

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	1.3		0.50	0.17	mg/L			11/18/23 06:44	1
Nitrate as N (EPA 300.0)	0.24	J	0.50	0.090	mg/L			11/01/23 10:29	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

General Chemistry (Continued)

Client Sample ID: CROSS WELL

Date Collected: 10/31/23 13:00

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			11/01/23 10:29	1
Nitrate Nitrite as N (EPA 353.2)	0.30		0.10	0.044	mg/L			11/07/23 12:55	1
Total Dissolved Solids (TDS) (SM 2540C)	89		10	4.7	mg/L			11/06/23 13:48	1
Chloride (SM 4500 Cl- E)	3.4		2.0	0.68	mg/L			11/01/23 17:54	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			11/03/23 13:56	1
Sulfate (SM 4500 SO4 E)	8.8		5.0	0.71	mg/L			11/01/23 17:03	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			11/17/23 22:49	1
Nitrate as N (EPA 300.0)	0.27	J	0.50	0.090	mg/L			11/01/23 09:14	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			11/01/23 09:14	1
Nitrate Nitrite as N (EPA 353.2)	0.34		0.10	0.044	mg/L			11/07/23 12:57	1
Total Dissolved Solids (TDS) (SM 2540C)	81		10	4.7	mg/L			11/06/23 13:48	1
Chloride (SM 4500 Cl- E)	3.4		2.0	0.68	mg/L			11/01/23 17:54	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			11/03/23 13:59	1
Sulfate (SM 4500 SO4 E)	8.5		5.0	0.71	mg/L			11/01/23 17:02	1

Client Sample ID: COMPLIANCE 02

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			11/17/23 23:57	1
Nitrate as N (EPA 300.0)	0.29	J	0.50	0.090	mg/L			11/01/23 10:14	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			11/01/23 10:14	1
Nitrate Nitrite as N (EPA 353.2)	0.34		0.10	0.044	mg/L			11/07/23 12:59	1
Total Dissolved Solids (TDS) (SM 2540C)	75		10	4.7	mg/L			11/06/23 13:48	1
Chloride (SM 4500 Cl- E)	3.4		2.0	0.68	mg/L			11/01/23 17:54	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			11/03/23 14:07	1
Sulfate (SM 4500 SO4 E)	8.6		5.0	0.71	mg/L			11/01/23 17:02	1

Client Sample ID: COMPLIANCE 03

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			11/18/23 00:08	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			11/01/23 10:59	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			11/01/23 10:59	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			11/07/23 13:13	1
Total Dissolved Solids (TDS) (SM 2540C)	ND		10	4.7	mg/L			11/06/23 13:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			11/01/23 17:53	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			11/03/23 14:09	1
Sulfate (SM 4500 SO4 E)	ND		5.0	0.71	mg/L			11/01/23 16:06	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

General Chemistry

Client Sample ID: CARIBOU WELL

Date Collected: 10/31/23 11:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			11/18/23 00:19	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			11/01/23 09:59	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			11/01/23 09:59	1
Nitrate Nitrite as N (EPA 353.2)	0.095	J	0.10	0.044	mg/L			11/07/23 13:15	1
Total Dissolved Solids (TDS) (SM 2540C)	29		10	4.7	mg/L			11/06/23 13:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			11/01/23 17:53	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			11/03/23 14:12	1
Sulfate (SM 4500 SO4 E)	2.0	J	5.0	0.71	mg/L			11/01/23 16:05	1

Client Sample ID: CROSS PORTAL

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			11/18/23 00:31	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			11/01/23 08:58	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			11/01/23 08:58	1
Nitrate Nitrite as N (EPA 353.2)	0.052	J	0.10	0.044	mg/L			11/07/23 13:23	1
Total Dissolved Solids (TDS) (SM 2540C)	120		10	4.7	mg/L			11/06/23 13:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			11/01/23 17:53	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			11/03/23 14:15	1
Sulfate (SM 4500 SO4 E)	9.9		5.0	0.71	mg/L			11/01/23 16:06	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			11/18/23 00:42	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			11/01/23 10:44	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			11/01/23 10:44	1
Nitrate Nitrite as N (EPA 353.2)	0.054	J	0.10	0.044	mg/L			11/07/23 13:25	1
Total Dissolved Solids (TDS) (SM 2540C)	110		10	4.7	mg/L			11/06/23 13:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			11/01/23 17:54	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			11/13/23 12:15	1
Sulfate (SM 4500 SO4 E)	9.9		5.0	0.71	mg/L			11/01/23 17:03	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 10/31/23 11:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			11/18/23 00:53	1
Nitrate as N (EPA 300.0)	0.12	J	0.50	0.090	mg/L			11/01/23 13:14	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			11/01/23 13:14	1
Nitrate Nitrite as N (EPA 353.2)	0.15		0.10	0.044	mg/L			11/07/23 13:27	1
Total Dissolved Solids (TDS) (SM 2540C)	120		10	4.7	mg/L			11/06/23 13:48	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			11/01/23 17:54	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			11/13/23 12:23	1
Sulfate (SM 4500 SO4 E)	10		5.0	0.71	mg/L			11/01/23 17:02	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-633519/1-A
Matrix: Water
Analysis Batch: 633777

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		11/13/23 08:50	11/13/23 22:40	1
Boron	ND		0.10	0.0015	mg/L		11/13/23 08:50	11/13/23 22:40	1
Iron	ND		0.10	0.0091	mg/L		11/13/23 08:50	11/13/23 22:40	1

Lab Sample ID: MB 280-633519/1-A
Matrix: Water
Analysis Batch: 633981

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.020	0.0091	mg/L		11/13/23 08:50	11/14/23 15:01	1

Lab Sample ID: LCS 280-633519/2-A
Matrix: Water
Analysis Batch: 633777

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 633519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.57		mg/L		96	87 - 111
Boron	2.00	2.00		mg/L		100	86 - 110
Iron	10.0	9.78		mg/L		98	85 - 115

Lab Sample ID: LCS 280-633519/2-A
Matrix: Water
Analysis Batch: 633981

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 633519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	1.00	0.984		mg/L		98	90 - 112

Lab Sample ID: 280-183676-A-3-B MS
Matrix: Water
Analysis Batch: 633777

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.026	J	10.0	9.55		mg/L		95	70 - 130
Boron	0.14		2.00	2.15		mg/L		100	70 - 130
Iron	0.016	J	10.0	9.68		mg/L		97	70 - 130

Lab Sample ID: 280-183676-A-3-B MS
Matrix: Water
Analysis Batch: 633981

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.018	J	1.00	1.00		mg/L		98	70 - 130

Lab Sample ID: 280-183676-A-3-C MSD
Matrix: Water
Analysis Batch: 633777

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Aluminum	0.026	J	10.0	9.41		mg/L		94	70 - 130	1	20
Boron	0.14		2.00	2.14		mg/L		100	70 - 130	0	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 280-183676-A-3-C MSD
Matrix: Water
Analysis Batch: 633777

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.016	J	10.0	9.58		mg/L		96	70 - 130	1	20

Lab Sample ID: 280-183676-A-3-C MSD
Matrix: Water
Analysis Batch: 633981

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.018	J	1.00	1.00		mg/L		98	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-633519/1-A
Matrix: Water
Analysis Batch: 633985

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		11/13/23 08:50	11/14/23 23:17	1
Arsenic	ND		0.0050	0.00050	mg/L		11/13/23 08:50	11/14/23 23:17	1
Barium	ND		0.0030	0.00038	mg/L		11/13/23 08:50	11/14/23 23:17	1
Beryllium	ND		0.0010	0.00030	mg/L		11/13/23 08:50	11/14/23 23:17	1
Cadmium	ND		0.0010	0.00019	mg/L		11/13/23 08:50	11/14/23 23:17	1
Chromium	ND		0.0030	0.00050	mg/L		11/13/23 08:50	11/14/23 23:17	1
Cobalt	ND		0.0010	0.00033	mg/L		11/13/23 08:50	11/14/23 23:17	1
Copper	ND		0.0020	0.00071	mg/L		11/13/23 08:50	11/14/23 23:17	1
Lead	ND		0.0010	0.00023	mg/L		11/13/23 08:50	11/14/23 23:17	1
Manganese	ND		0.0030	0.00051	mg/L		11/13/23 08:50	11/14/23 23:17	1
Nickel	ND		0.0030	0.00083	mg/L		11/13/23 08:50	11/14/23 23:17	1
Selenium	ND		0.0050	0.0010	mg/L		11/13/23 08:50	11/14/23 23:17	1
Silver	ND		0.0010	0.000045	mg/L		11/13/23 08:50	11/14/23 23:17	1
Thallium	ND		0.0010	0.00021	mg/L		11/13/23 08:50	11/14/23 23:17	1
Vanadium	ND		0.0050	0.0011	mg/L		11/13/23 08:50	11/14/23 23:17	1
Zinc	ND		0.010	0.0020	mg/L		11/13/23 08:50	11/14/23 23:17	1

Lab Sample ID: MB 280-633519/1-A
Matrix: Water
Analysis Batch: 634161

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.0020	0.00037	mg/L		11/13/23 08:50	11/15/23 18:44	1
Uranium	ND		0.0010	0.000030	mg/L		11/13/23 08:50	11/15/23 18:44	1

Lab Sample ID: LCS 280-633519/23-A
Matrix: Water
Analysis Batch: 633985

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 633519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0392		mg/L		98	85 - 115
Arsenic	0.0400	0.0383		mg/L		96	89 - 111
Barium	0.0400	0.0402		mg/L		101	89 - 115
Beryllium	0.0400	0.0386		mg/L		96	85 - 115

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-633519/23-A

Matrix: Water

Analysis Batch: 633985

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 633519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0400	0.0381		mg/L		95	89 - 111
Chromium	0.0400	0.0372		mg/L		93	86 - 115
Cobalt	0.0400	0.0376		mg/L		94	92 - 115
Copper	0.0400	0.0383		mg/L		96	90 - 115
Lead	0.0400	0.0386		mg/L		96	88 - 115
Manganese	0.0400	0.0386		mg/L		96	87 - 115
Nickel	0.0400	0.0376		mg/L		94	86 - 115
Selenium	0.0400	0.0395		mg/L		99	85 - 114
Silver	0.0400	0.0406		mg/L		102	90 - 114
Thallium	0.0400	0.0388		mg/L		97	86 - 115
Vanadium	0.0400	0.0370		mg/L		92	90 - 115
Zinc	0.0400	0.0395		mg/L		99	88 - 115

Lab Sample ID: LCS 280-633519/23-A

Matrix: Water

Analysis Batch: 634161

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 633519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	0.0400	0.0408		mg/L		102	89 - 112
Uranium	0.0400	0.0362		mg/L		90	85 - 115

Lab Sample ID: 280-183676-A-3-E MS

Matrix: Water

Analysis Batch: 633985

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00046	J	0.0400	0.0401		mg/L		99	85 - 115
Arsenic	0.0019	J	0.0400	0.0408		mg/L		97	79 - 120
Barium	0.025		0.0400	0.0629		mg/L		95	89 - 115
Beryllium	ND		0.0400	0.0416		mg/L		104	85 - 115
Cadmium	ND		0.0400	0.0386		mg/L		96	89 - 111
Chromium	ND		0.0400	0.0375		mg/L		94	86 - 115
Cobalt	0.0021	F1	0.0400	0.0379	F1	mg/L		90	92 - 115
Copper	ND		0.0400	0.0367		mg/L		92	90 - 115
Lead	ND		0.0400	0.0380		mg/L		95	88 - 115
Nickel	0.0013	J	0.0400	0.0368		mg/L		89	86 - 115
Selenium	ND		0.0400	0.0391		mg/L		98	85 - 114
Silver	ND		0.0400	0.0400		mg/L		100	70 - 130
Thallium	ND		0.0400	0.0381		mg/L		95	86 - 115
Vanadium	0.010		0.0400	0.0470		mg/L		92	90 - 115
Zinc	0.013		0.0400	0.0480		mg/L		89	88 - 115

Lab Sample ID: 280-183676-A-3-E MS

Matrix: Water

Analysis Batch: 634161

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.27		0.0400	0.306	4	mg/L		80	87 - 115
Molybdenum	0.0078		0.0400	0.0493		mg/L		104	89 - 112

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-183676-A-3-E MS
Matrix: Water
Analysis Batch: 634161

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.0012		0.0400	0.0392		mg/L		95	85 - 115

Lab Sample ID: 280-183676-A-3-F MSD
Matrix: Water
Analysis Batch: 633985

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	0.00046	J	0.0400	0.0415		mg/L		102	85 - 115	3	20
Arsenic	0.0019	J	0.0400	0.0413		mg/L		99	79 - 120	1	20
Barium	0.025		0.0400	0.0659		mg/L		103	89 - 115	5	20
Beryllium	ND		0.0400	0.0422		mg/L		106	85 - 115	2	20
Cadmium	ND		0.0400	0.0402		mg/L		101	89 - 111	4	20
Chromium	ND		0.0400	0.0383		mg/L		96	86 - 115	2	20
Cobalt	0.0021	F1	0.0400	0.0390		mg/L		92	92 - 115	3	20
Copper	ND		0.0400	0.0391		mg/L		98	90 - 115	6	20
Lead	ND		0.0400	0.0385		mg/L		96	88 - 115	1	20
Nickel	0.0013	J	0.0400	0.0385		mg/L		93	86 - 115	5	20
Selenium	ND		0.0400	0.0393		mg/L		98	85 - 114	1	20
Silver	ND		0.0400	0.0409		mg/L		102	70 - 130	2	20
Thallium	ND		0.0400	0.0391		mg/L		98	86 - 115	3	20
Vanadium	0.010		0.0400	0.0493		mg/L		98	90 - 115	5	20
Zinc	0.013		0.0400	0.0488		mg/L		91	88 - 115	2	20

Lab Sample ID: 280-183676-A-3-F MSD
Matrix: Water
Analysis Batch: 634161

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 633519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Manganese	0.27		0.0400	0.311	4	mg/L		94	87 - 115	2	20
Molybdenum	0.0078		0.0400	0.0503		mg/L		106	89 - 112	2	20
Uranium	0.0012		0.0400	0.0401		mg/L		97	85 - 115	2	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-633685/1-A
Matrix: Water
Analysis Batch: 633962

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		11/13/23 13:02	11/14/23 17:19	1

Lab Sample ID: LCS 280-633685/2-A
Matrix: Water
Analysis Batch: 633962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00510		mg/L		102	90 - 110

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 280-183676-A-3-H MS
Matrix: Water
Analysis Batch: 633962

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 633685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000072	J	0.00500	0.00492		mg/L		97	80 - 120

Lab Sample ID: 280-183676-A-3-I MSD
Matrix: Water
Analysis Batch: 633962

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 633685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000072	J	0.00500	0.00496		mg/L		98	80 - 120	1	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-631861/6
Matrix: Water
Analysis Batch: 631861

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			10/31/23 12:19	1
Nitrite as N	ND		0.50	0.049	mg/L			10/31/23 12:19	1

Lab Sample ID: MB 280-631861/63
Matrix: Water
Analysis Batch: 631861

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			11/01/23 07:13	1
Nitrite as N	ND		0.50	0.049	mg/L			11/01/23 07:13	1

Lab Sample ID: LCS 280-631861/59
Matrix: Water
Analysis Batch: 631861

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.72		mg/L		94	90 - 110
Nitrite as N	5.00	5.02		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-631861/62
Matrix: Water
Analysis Batch: 631861

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.74		mg/L		95	90 - 110	1	10
Nitrite as N	5.00	5.05		mg/L		101	90 - 110	1	10

Lab Sample ID: MRL 280-631861/3
Matrix: Water
Analysis Batch: 631861

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.385	J	mg/L		77	50 - 150
Nitrite as N	0.500	0.425	J	mg/L		85	50 - 150

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-183830-B-3 MS

Matrix: Water

Analysis Batch: 631861

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	ND		5.00	5.49		mg/L		110	80 - 120		
Nitrite as N	ND		5.00	4.84		mg/L		97	80 - 120		

Lab Sample ID: 280-183830-B-3 MSD

Matrix: Water

Analysis Batch: 631861

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	5.73		mg/L		115	80 - 120	4	20
Nitrite as N	ND		5.00	5.02		mg/L		101	80 - 120	4	20

Lab Sample ID: 280-183831-A-1 MS

Matrix: Water

Analysis Batch: 631861

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.094	J	5.00	4.79		mg/L		94	80 - 120		
Nitrite as N	0.56		5.00	4.71		mg/L		83	80 - 120		

Lab Sample ID: 280-183831-A-1 MSD

Matrix: Water

Analysis Batch: 631861

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.094	J	5.00	5.51		mg/L		108	80 - 120	14	20
Nitrite as N	0.56		5.00	5.31		mg/L		95	80 - 120	12	20

Lab Sample ID: 280-183830-B-3 DU

Matrix: Water

Analysis Batch: 631861

Client Sample ID: Duplicate

Prep Type: Total/NA

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

Lab Sample ID: 280-183831-A-1 DU

Matrix: Water

Analysis Batch: 631861

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.11	J		0.0950	J	mg/L				11	15
Nitrite as N				0.522		mg/L					15

Lab Sample ID: MB 280-634459/49

Matrix: Water

Analysis Batch: 634459

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			11/18/23 02:46	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 280-634459/6

Matrix: Water

Analysis Batch: 634459

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			11/17/23 18:41	1

Lab Sample ID: LCS 280-634459/4

Matrix: Water

Analysis Batch: 634459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	5.00		mg/L		100	90 - 110

Lab Sample ID: LCS 280-634459/47

Matrix: Water

Analysis Batch: 634459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	5.48		mg/L		110	90 - 110

Lab Sample ID: LCSD 280-634459/48

Matrix: Water

Analysis Batch: 634459

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	5.47		mg/L		109	90 - 110	0	10

Lab Sample ID: LCSD 280-634459/5

Matrix: Water

Analysis Batch: 634459

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	5.09		mg/L		102	90 - 110	2	10

Lab Sample ID: MRL 280-634459/3

Matrix: Water

Analysis Batch: 634459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.500	0.553		mg/L		111	50 - 150

Lab Sample ID: 280-183833-2 MS

Matrix: Water

Analysis Batch: 634459

Client Sample ID: COMPLIANCE WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	ND		5.00	5.44		mg/L		109	80 - 120

Lab Sample ID: 280-183833-2 MSD

Matrix: Water

Analysis Batch: 634459

Client Sample ID: COMPLIANCE WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.60		mg/L		112	80 - 120	3	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-183833-2 DU

Matrix: Water

Analysis Batch: 634459

Client Sample ID: COMPLIANCE WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Fluoride	ND		ND		mg/L		NC	15

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-632947/23

Matrix: Water

Analysis Batch: 632947

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			11/07/23 12:39	1

Lab Sample ID: LCS 280-632947/21

Matrix: Water

Analysis Batch: 632947

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	5.02		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-632947/22

Matrix: Water

Analysis Batch: 632947

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Nitrate Nitrite as N	5.00	5.00		mg/L		100	90 - 110	0	10

Lab Sample ID: 160-51860-A-3 MS

Matrix: Water

Analysis Batch: 632947

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.23		4.00	4.15		mg/L		98	90 - 110

Lab Sample ID: 160-51860-A-3 MSD

Matrix: Water

Analysis Batch: 632947

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Nitrate Nitrite as N	0.23		4.00	4.12		mg/L		97	90 - 110	1	10

Lab Sample ID: 280-183494-A-4 MS

Matrix: Water

Analysis Batch: 632947

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.35		4.00	4.28		mg/L		98	90 - 110

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-183494-A-4 MSD

Matrix: Water

Analysis Batch: 632947

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.35		4.00	4.24		mg/L		97	90 - 110	1	10

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

Lab Sample ID: MB 280-632690/1

Matrix: Water

Analysis Batch: 632690

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			11/06/23 13:48	1

Lab Sample ID: LCS 280-632690/2

Matrix: Water

Analysis Batch: 632690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids (TDS)	502	487		mg/L		97	88 - 114

Lab Sample ID: 280-183817-A-10 DU

Matrix: Water

Analysis Batch: 632690

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	840		856		mg/L		2	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-632147/15

Matrix: Water

Analysis Batch: 632147

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			11/01/23 17:50	1

Lab Sample ID: LCS 280-632147/13

Matrix: Water

Analysis Batch: 632147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.8		mg/L		104	90 - 110

Lab Sample ID: LCSD 280-632147/14

Matrix: Water

Analysis Batch: 632147

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	20.7		mg/L		103	90 - 110	0	10

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 280-183833-4 MS

Matrix: Water

Analysis Batch: 632147

Client Sample ID: COMPLIANCE 03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: 280-183833-4 MSD

Matrix: Water

Analysis Batch: 632147

Client Sample ID: COMPLIANCE 03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		20.0	21.3		mg/L		107	90 - 110	0	10

Method: SM 4500 CN I - Cyanide, Weak Acid Dissociable

Lab Sample ID: MB 280-632499/115

Matrix: Water

Analysis Batch: 632499

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		0.010	0.0050	mg/L			11/03/23 12:55	1

Lab Sample ID: HLCS 280-632499/118

Matrix: Water

Analysis Batch: 632499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.350	0.362		mg/L		103	75 - 120

Lab Sample ID: LCS 280-632499/116

Matrix: Water

Analysis Batch: 632499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.100	0.107		mg/L		107	75 - 120

Lab Sample ID: LLCS 280-632499/117

Matrix: Water

Analysis Batch: 632499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.100	0.110		mg/L		110	90 - 110

Lab Sample ID: 280-183833-2 MS

Matrix: Water

Analysis Batch: 632499

Client Sample ID: COMPLIANCE WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	ND		0.100	0.105		mg/L		105	75 - 120

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: SM 4500 CN I - Cyanide, Weak Acid Dissociable (Continued)

Lab Sample ID: 280-183833-2 MSD

Matrix: Water

Analysis Batch: 632499

Client Sample ID: COMPLIANCE WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	ND		0.100	0.107		mg/L		107	75 - 120	2	20

Lab Sample ID: MB 280-633696/20

Matrix: Water

Analysis Batch: 633696

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		0.010	0.0050	mg/L			11/13/23 11:59	1

Lab Sample ID: HLCS 280-633696/19

Matrix: Water

Analysis Batch: 633696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.350	0.360		mg/L		103	75 - 120

Lab Sample ID: LCS 280-633696/17

Matrix: Water

Analysis Batch: 633696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.100	0.108		mg/L		108	75 - 120

Lab Sample ID: LLCS 280-633696/18

Matrix: Water

Analysis Batch: 633696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.100	0.110		mg/L		110	90 - 110

Lab Sample ID: 280-183880-H-1 MS

Matrix: Water

Analysis Batch: 633696

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	ND		0.100	0.114		mg/L		114	75 - 120

Lab Sample ID: 280-183880-H-1 MSD

Matrix: Water

Analysis Batch: 633696

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	ND		0.100	0.108		mg/L		108	75 - 120	6	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 280-632142/14

Matrix: Water

Analysis Batch: 632142

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.71	mg/L			11/01/23 15:52	1

Lab Sample ID: MB 280-632142/62

Matrix: Water

Analysis Batch: 632142

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.71	mg/L			11/01/23 16:48	1

Lab Sample ID: LCS 280-632142/12

Matrix: Water

Analysis Batch: 632142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	25.0	26.7		mg/L		107	90 - 110

Lab Sample ID: LCS 280-632142/60

Matrix: Water

Analysis Batch: 632142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	25.0	26.4		mg/L		106	90 - 110

Lab Sample ID: LCSD 280-632142/13

Matrix: Water

Analysis Batch: 632142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	25.0	26.5		mg/L		106	90 - 110	1	10

Lab Sample ID: LCSD 280-632142/61

Matrix: Water

Analysis Batch: 632142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	25.0	26.3		mg/L		105	90 - 110	1	10

Lab Sample ID: 280-183833-4 MS

Matrix: Water

Analysis Batch: 632142

Client Sample ID: COMPLIANCE 03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	ND		25.0	26.0		mg/L		104	90 - 110

Lab Sample ID: 280-183833-4 MSD

Matrix: Water

Analysis Batch: 632142

Client Sample ID: COMPLIANCE 03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND		25.0	26.2		mg/L		105	90 - 110	1	10

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Metals

Prep Batch: 633519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Dissolved	Water	200.8	
280-183833-2	COMPLIANCE WELL	Dissolved	Water	200.8	
280-183833-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-183833-4	COMPLIANCE 03	Dissolved	Water	200.8	
280-183833-5	CARIBOU WELL	Dissolved	Water	200.8	
280-183833-6	CROSS PORTAL	Dissolved	Water	200.8	
280-183833-7	CROSS PORTAL 02	Dissolved	Water	200.8	
280-183833-8	CARIBOU PORTAL	Dissolved	Water	200.8	
MB 280-633519/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-633519/23-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-633519/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-183676-A-3-B MS	Matrix Spike	Dissolved	Water	200.8	
280-183676-A-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	
280-183676-A-3-E MS	Matrix Spike	Dissolved	Water	200.8	
280-183676-A-3-F MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	

Prep Batch: 633685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Dissolved	Water	245.1	
280-183833-2	COMPLIANCE WELL	Dissolved	Water	245.1	
280-183833-3	COMPLIANCE 02	Dissolved	Water	245.1	
280-183833-4	COMPLIANCE 03	Dissolved	Water	245.1	
280-183833-5	CARIBOU WELL	Dissolved	Water	245.1	
280-183833-6	CROSS PORTAL	Dissolved	Water	245.1	
280-183833-7	CROSS PORTAL 02	Dissolved	Water	245.1	
280-183833-8	CARIBOU PORTAL	Dissolved	Water	245.1	
MB 280-633685/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-633685/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-183676-A-3-H MS	Matrix Spike	Dissolved	Water	245.1	
280-183676-A-3-I MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	

Analysis Batch: 633777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-5	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-8	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	633519
MB 280-633519/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	633519
LCS 280-633519/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	633519
280-183676-A-3-B MS	Matrix Spike	Dissolved	Water	200.7 Rev 4.4	633519
280-183676-A-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	200.7 Rev 4.4	633519

Analysis Batch: 633962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Dissolved	Water	245.1	633685
280-183833-2	COMPLIANCE WELL	Dissolved	Water	245.1	633685
280-183833-3	COMPLIANCE 02	Dissolved	Water	245.1	633685

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Metals (Continued)

Analysis Batch: 633962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-4	COMPLIANCE 03	Dissolved	Water	245.1	633685
280-183833-5	CARIBOU WELL	Dissolved	Water	245.1	633685
280-183833-6	CROSS PORTAL	Dissolved	Water	245.1	633685
280-183833-7	CROSS PORTAL 02	Dissolved	Water	245.1	633685
280-183833-8	CARIBOU PORTAL	Dissolved	Water	245.1	633685
MB 280-633685/1-A	Method Blank	Total/NA	Water	245.1	633685
LCS 280-633685/2-A	Lab Control Sample	Total/NA	Water	245.1	633685
280-183676-A-3-H MS	Matrix Spike	Dissolved	Water	245.1	633685
280-183676-A-3-I MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	633685

Analysis Batch: 633981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-5	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	633519
280-183833-8	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	633519
MB 280-633519/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	633519
LCS 280-633519/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	633519
280-183676-A-3-B MS	Matrix Spike	Dissolved	Water	200.7 Rev 4.4	633519
280-183676-A-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	200.7 Rev 4.4	633519

Analysis Batch: 633985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Dissolved	Water	200.8	633519
280-183833-2	COMPLIANCE WELL	Dissolved	Water	200.8	633519
280-183833-3	COMPLIANCE 02	Dissolved	Water	200.8	633519
280-183833-4	COMPLIANCE 03	Dissolved	Water	200.8	633519
280-183833-5	CARIBOU WELL	Dissolved	Water	200.8	633519
280-183833-6	CROSS PORTAL	Dissolved	Water	200.8	633519
280-183833-7	CROSS PORTAL 02	Dissolved	Water	200.8	633519
280-183833-8	CARIBOU PORTAL	Dissolved	Water	200.8	633519
MB 280-633519/1-A	Method Blank	Total Recoverable	Water	200.8	633519
LCS 280-633519/23-A	Lab Control Sample	Total Recoverable	Water	200.8	633519
280-183676-A-3-E MS	Matrix Spike	Dissolved	Water	200.8	633519
280-183676-A-3-F MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	633519

Analysis Batch: 634161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Dissolved	Water	200.8	633519
280-183833-2	COMPLIANCE WELL	Dissolved	Water	200.8	633519
280-183833-3	COMPLIANCE 02	Dissolved	Water	200.8	633519
280-183833-4	COMPLIANCE 03	Dissolved	Water	200.8	633519
280-183833-5	CARIBOU WELL	Dissolved	Water	200.8	633519
280-183833-6	CROSS PORTAL	Dissolved	Water	200.8	633519
280-183833-7	CROSS PORTAL 02	Dissolved	Water	200.8	633519
280-183833-8	CARIBOU PORTAL	Dissolved	Water	200.8	633519
MB 280-633519/1-A	Method Blank	Total Recoverable	Water	200.8	633519

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Metals (Continued)

Analysis Batch: 634161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-633519/23-A	Lab Control Sample	Total Recoverable	Water	200.8	633519
280-183676-A-3-E MS	Matrix Spike	Dissolved	Water	200.8	633519
280-183676-A-3-F MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	633519

General Chemistry

Analysis Batch: 631861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Total/NA	Water	300.0	
280-183833-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-183833-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-183833-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-183833-5	CARIBOU WELL	Total/NA	Water	300.0	
280-183833-6	CROSS PORTAL	Total/NA	Water	300.0	
280-183833-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-183833-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-631861/6	Method Blank	Total/NA	Water	300.0	
MB 280-631861/63	Method Blank	Total/NA	Water	300.0	
LCS 280-631861/59	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-631861/62	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-631861/3	Lab Control Sample	Total/NA	Water	300.0	
280-183830-B-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-183830-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-183831-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-183831-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-183830-B-3 DU	Duplicate	Total/NA	Water	300.0	
280-183831-A-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 632142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
280-183833-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 SO4 E	
280-183833-3	COMPLIANCE 02	Total/NA	Water	SM 4500 SO4 E	
280-183833-4	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-183833-5	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-183833-6	CROSS PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-183833-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 SO4 E	
280-183833-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
MB 280-632142/14	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 280-632142/62	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 280-632142/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 280-632142/60	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-632142/13	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-632142/61	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
280-183833-4 MS	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-183833-4 MSD	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 632147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Total/NA	Water	SM 4500 CI- E	
280-183833-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

General Chemistry (Continued)

Analysis Batch: 632147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-3	COMPLIANCE 02	Total/NA	Water	SM 4500 Cl- E	
280-183833-4	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	
280-183833-5	CARIBOU WELL	Total/NA	Water	SM 4500 Cl- E	
280-183833-6	CROSS PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-183833-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 Cl- E	
280-183833-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	
MB 280-632147/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-632147/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-632147/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-183833-4 MS	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	
280-183833-4 MSD	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 632499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Total/NA	Water	SM 4500 CN I	
280-183833-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 CN I	
280-183833-3	COMPLIANCE 02	Total/NA	Water	SM 4500 CN I	
280-183833-4	COMPLIANCE 03	Total/NA	Water	SM 4500 CN I	
280-183833-5	CARIBOU WELL	Total/NA	Water	SM 4500 CN I	
280-183833-6	CROSS PORTAL	Total/NA	Water	SM 4500 CN I	
MB 280-632499/115	Method Blank	Total/NA	Water	SM 4500 CN I	
HLCS 280-632499/118	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LCS 280-632499/116	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LLCS 280-632499/117	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
280-183833-2 MS	COMPLIANCE WELL	Total/NA	Water	SM 4500 CN I	
280-183833-2 MSD	COMPLIANCE WELL	Total/NA	Water	SM 4500 CN I	

Analysis Batch: 632690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Total/NA	Water	SM 2540C	
280-183833-2	COMPLIANCE WELL	Total/NA	Water	SM 2540C	
280-183833-3	COMPLIANCE 02	Total/NA	Water	SM 2540C	
280-183833-4	COMPLIANCE 03	Total/NA	Water	SM 2540C	
280-183833-5	CARIBOU WELL	Total/NA	Water	SM 2540C	
280-183833-6	CROSS PORTAL	Total/NA	Water	SM 2540C	
280-183833-7	CROSS PORTAL 02	Total/NA	Water	SM 2540C	
280-183833-8	CARIBOU PORTAL	Total/NA	Water	SM 2540C	
MB 280-632690/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-632690/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-183817-A-10 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 632947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Total/NA	Water	353.2	
280-183833-2	COMPLIANCE WELL	Total/NA	Water	353.2	
280-183833-3	COMPLIANCE 02	Total/NA	Water	353.2	
280-183833-4	COMPLIANCE 03	Total/NA	Water	353.2	
280-183833-5	CARIBOU WELL	Total/NA	Water	353.2	
280-183833-6	CROSS PORTAL	Total/NA	Water	353.2	
280-183833-7	CROSS PORTAL 02	Total/NA	Water	353.2	
280-183833-8	CARIBOU PORTAL	Total/NA	Water	353.2	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

General Chemistry (Continued)

Analysis Batch: 632947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-632947/23	Method Blank	Total/NA	Water	353.2	
LCS 280-632947/21	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-632947/22	Lab Control Sample Dup	Total/NA	Water	353.2	
160-51860-A-3 MS	Matrix Spike	Total/NA	Water	353.2	
160-51860-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
280-183494-A-4 MS	Matrix Spike	Total/NA	Water	353.2	
280-183494-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 633696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 CN I	
280-183833-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 CN I	
MB 280-633696/20	Method Blank	Total/NA	Water	SM 4500 CN I	
HLCS 280-633696/19	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LCS 280-633696/17	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LLCS 280-633696/18	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
280-183880-H-1 MS	Matrix Spike	Total/NA	Water	SM 4500 CN I	
280-183880-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CN I	

Analysis Batch: 634459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Total/NA	Water	300.0	
280-183833-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-183833-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-183833-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-183833-5	CARIBOU WELL	Total/NA	Water	300.0	
280-183833-6	CROSS PORTAL	Total/NA	Water	300.0	
280-183833-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-183833-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-634459/49	Method Blank	Total/NA	Water	300.0	
MB 280-634459/6	Method Blank	Total/NA	Water	300.0	
LCS 280-634459/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-634459/47	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-634459/48	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-634459/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-634459/3	Lab Control Sample	Total/NA	Water	300.0	
280-183833-2 MS	COMPLIANCE WELL	Total/NA	Water	300.0	
280-183833-2 MSD	COMPLIANCE WELL	Total/NA	Water	300.0	
280-183833-2 DU	COMPLIANCE WELL	Total/NA	Water	300.0	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-183833-1

Date Collected: 10/31/23 13:00

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633981	11/14/23 15:21	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633777	11/14/23 00:14	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			633985	11/15/23 00:21	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			634161	11/15/23 19:48	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	633685	11/13/23 13:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			633962	11/14/23 17:42	RMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	631861	11/01/23 10:29	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	634459	11/18/23 06:44	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	632947	11/07/23 12:55	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	632690	11/06/23 13:48	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	632147	11/01/23 17:54	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	632499	11/03/23 13:56	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	632142	11/01/23 17:03	SL	EET DEN

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-183833-2

Date Collected: 10/31/23 13:30

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633981	11/14/23 15:25	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633777	11/14/23 00:19	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			633985	11/15/23 00:25	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			634161	11/15/23 19:52	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	633685	11/13/23 13:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			633962	11/14/23 17:49	RMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	631861	11/01/23 09:14	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	634459	11/17/23 22:49	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	632947	11/07/23 12:57	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	632690	11/06/23 13:48	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	632147	11/01/23 17:54	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	632499	11/03/23 13:59	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	632142	11/01/23 17:02	SL	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-183833-3

Date Collected: 10/31/23 13:30

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633981	11/14/23 15:29	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633777	11/14/23 00:23	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			633985	11/15/23 00:36	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			634161	11/15/23 20:02	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	633685	11/13/23 13:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			633962	11/14/23 17:52	RMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	631861	11/01/23 10:14	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	634459	11/17/23 23:57	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	632947	11/07/23 12:59	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	632690	11/06/23 13:48	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	632147	11/01/23 17:54	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	632499	11/03/23 14:07	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	632142	11/01/23 17:02	SL	EET DEN

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-183833-4

Date Collected: 10/31/23 13:30

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633981	11/14/23 15:33	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633777	11/14/23 00:27	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			633985	11/15/23 00:39	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			634161	11/15/23 20:06	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	633685	11/13/23 13:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			633962	11/14/23 17:54	RMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	631861	11/01/23 10:59	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	634459	11/18/23 00:08	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	632947	11/07/23 13:13	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	632690	11/06/23 13:48	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	632147	11/01/23 17:53	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	632499	11/03/23 14:09	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	632142	11/01/23 16:06	SL	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-183833-5

Date Collected: 10/31/23 11:30

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633981	11/14/23 15:37	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633777	11/14/23 00:31	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			633985	11/15/23 00:43	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			634161	11/15/23 20:10	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	633685	11/13/23 13:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			633962	11/14/23 17:57	RMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	631861	11/01/23 09:59	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	634459	11/18/23 00:19	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	632947	11/07/23 13:15	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	632690	11/06/23 13:48	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	632147	11/01/23 17:53	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	632499	11/03/23 14:12	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	632142	11/01/23 16:05	SL	EET DEN

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-183833-6

Date Collected: 10/31/23 12:15

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633981	11/14/23 15:53	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633777	11/14/23 00:35	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			633985	11/15/23 00:46	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			634161	11/15/23 20:13	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	633685	11/13/23 13:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			633962	11/14/23 18:00	RMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	631861	11/01/23 08:58	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	634459	11/18/23 00:31	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	632947	11/07/23 13:23	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	632690	11/06/23 13:48	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	632147	11/01/23 17:53	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	632499	11/03/23 14:15	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	632142	11/01/23 16:06	SL	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-183833-7

Date Collected: 10/31/23 12:15

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633981	11/14/23 15:57	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633777	11/14/23 00:39	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			633985	11/15/23 00:50	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			634161	11/15/23 20:17	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	633685	11/13/23 13:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			633962	11/14/23 18:02	RMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	631861	11/01/23 10:44	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	634459	11/18/23 00:42	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	632947	11/07/23 13:25	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	632690	11/06/23 13:48	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	632147	11/01/23 17:54	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	633696	11/13/23 12:15	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	632142	11/01/23 17:03	SL	EET DEN

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-183833-8

Date Collected: 10/31/23 11:15

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633981	11/14/23 16:01	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			633777	11/14/23 00:44	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			633985	11/15/23 00:53	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	633519	11/13/23 08:50	MSM	EET DEN
Dissolved	Analysis	200.8		1			634161	11/15/23 20:20	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	633685	11/13/23 13:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			633962	11/14/23 18:05	RMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	631861	11/01/23 13:14	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	634459	11/18/23 00:53	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	632947	11/07/23 13:27	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	632690	11/06/23 13:48	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	632147	11/01/23 17:54	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	633696	11/13/23 12:23	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	632142	11/01/23 17:02	SL	EET DEN

Laboratory References:

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

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins Denver

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-183833-1

Login Number: 183833

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 12/5/2023 6:08:04 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-183833-2

Eurofins Denver

Job Notes

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

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

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Qualifiers

Rad

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Job ID: 280-183833-2

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO - Groundwater

Report Number: 280-183833-2

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.

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

RECEIPT

The samples were received on 10/31/2023 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 6.9° C and 8.0° C.

Receipt temperature is considered acceptable as the samples were collected and submitted to the laboratory on the same date.

The sample collection time on the containers did not match the sample collection time on the COC for sample CARIBOU PORTAL (280-183833-8). The laboratory logged the sample collection time per the chain of custody.

The requested radiochemistry analyses are reported separately under report number 280-183833-2. All other requested analyses are reported under report number 280-183833-1.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY - DISSOLVED

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU PORTAL (280-183833-8) were analyzed for Gross Alpha and Gross Beta Radioactivity - Dissolved in accordance with EPA 900.0. The samples were prepared on 11/03/2023 and analyzed on 12/04/2023.

Gross Alpha exceeded the RPD limit for the duplicate of sample 380-69201-1. The parent sample and laboratory duplicate analysis activity is below the MDC or RL making the measurement of precision less critical. The lab does not believe this discrepancy to have a negative impact on the data being reported. Refer to the QC report for details.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CESIUM 137 & OTHER GAMMA EMITTERS (GS) - DISSOLVED

Samples CROSS WELL (280-183833-1), COMPLIANCE WELL (280-183833-2), COMPLIANCE 02 (280-183833-3), COMPLIANCE 03 (280-183833-4), CARIBOU WELL (280-183833-5), CROSS PORTAL (280-183833-6), CROSS PORTAL 02 (280-183833-7) and CARIBOU

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Job ID: 280-183833-2 (Continued)

Laboratory: Eurofins Denver (Continued)

PORTAL (280-183833-8) were analyzed for Cesium 137 & Other Gamma Emitters (GS) - Dissolved in accordance with EPA 901.1. The samples were prepared on 11/03/2023 and 11/27/2023 and analyzed on 11/30/2023.

In Gamma Prep Batch 160-635162 the cesium-137 detection goal of 20 pCi/L was not met for the following samples. This is caused by statistical fluctuations in the Compton background due to low level activity in the samples in conjunction with the software attempting to fit a peak into the noise of this baseline: COMPLIANCE 02 (280-183833-3) and CROSS PORTAL 02 (280-183833-7). Data has been reported with this narration.

For Gamma Prep Batch 160-638400 the minimum detectable concentration (MDC) for the method blank (MB) is above the requested limit for Cs137. The activity was not observed in the MB above the MDC or reporting limit (RL). The data for the following sample have been reported with the MDC achieved: (MB 160-638400/1-A).

For Gamma prep batch 160- 638400 the detection goal of 20 pCi/L was not met for Cs-137 for the following sample and its laboratory duplicate analysis. An elevated MDC can occur when higher background counts are applied to a peak ROI. This is due to the relatively small size of the peak or subsequent "force-fit" of the non-existent peak which resulted in higher than normal background counts due to statistical fluctuations in the Compton baseline. The laboratory does not believe this adversely affects the data, the Cs-137 activity is well below the RL and MDC: CROSS WELL (280-183833-1) and (280-183833-A-1-D DU).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Client Sample ID: CROSS WELL

Lab Sample ID: 280-183833-1

☐ No Detections.

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-183833-2

☐ No Detections.

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-183833-3

☐ No Detections.

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-183833-4

☐ No Detections.

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-183833-5

☐ No Detections.

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-183833-6

☐ No Detections.

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-183833-7

☐ No Detections.

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-183833-8

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Method	Method Description	Protocol	Laboratory
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	EET SL
901.1	Cesium 137 & Other Gamma Emitters (GS)	EPA	EET SL
Evaporation	Preparation, Evaporation	None	EET SL
Fill_Geo-0	Fill Geometry, No In-Growth	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

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

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-183833-1	CROSS WELL	Water	10/31/23 13:00	10/31/23 15:50
280-183833-2	COMPLIANCE WELL	Water	10/31/23 13:30	10/31/23 15:50
280-183833-3	COMPLIANCE 02	Water	10/31/23 13:30	10/31/23 15:50
280-183833-4	COMPLIANCE 03	Water	10/31/23 13:30	10/31/23 15:50
280-183833-5	CARIBOU WELL	Water	10/31/23 11:30	10/31/23 15:50
280-183833-6	CROSS PORTAL	Water	10/31/23 12:15	10/31/23 15:50
280-183833-7	CROSS PORTAL 02	Water	10/31/23 12:15	10/31/23 15:50
280-183833-8	CARIBOU PORTAL	Water	10/31/23 11:15	10/31/23 15:50

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Client Sample ID: CROSS WELL
Date Collected: 10/31/23 13:00
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.0173	U	1.04	1.04	3.00	1.96	pCi/L	11/03/23 09:48	12/04/23 18:49	1
Gross Beta	1.41		0.609	0.625	4.00	0.858	pCi/L	11/03/23 09:48	12/04/23 18:49	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 10/31/23 13:30
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.515	U	0.949	0.951	3.00	1.65	pCi/L	11/03/23 09:48	12/04/23 19:49	1
Gross Beta	1.91		0.638	0.665	4.00	0.818	pCi/L	11/03/23 09:48	12/04/23 19:49	1

Client Sample ID: COMPLIANCE 02
Date Collected: 10/31/23 13:30
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.403	U	0.807	0.808	3.00	1.70	pCi/L	11/03/23 09:48	12/04/23 19:49	1
Gross Beta	1.91		0.663	0.690	4.00	0.887	pCi/L	11/03/23 09:48	12/04/23 19:49	1

Client Sample ID: COMPLIANCE 03
Date Collected: 10/31/23 13:30
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.0502	U	0.537	0.537	3.00	1.02	pCi/L	11/03/23 09:48	12/04/23 19:49	1
Gross Beta	0.414	U	0.452	0.454	4.00	0.738	pCi/L	11/03/23 09:48	12/04/23 19:49	1

Client Sample ID: CARIBOU WELL
Date Collected: 10/31/23 11:30
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.0808	U	0.590	0.590	3.00	1.12	pCi/L	11/03/23 09:48	12/04/23 19:49	1
Gross Beta	1.16		0.571	0.583	4.00	0.829	pCi/L	11/03/23 09:48	12/04/23 19:49	1

Client Sample ID: CROSS PORTAL
Date Collected: 10/31/23 12:15
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.931	U	1.59	1.59	3.00	2.72	pCi/L	11/03/23 09:48	12/04/23 19:49	1
Gross Beta	2.35		0.731	0.768	4.00	0.928	pCi/L	11/03/23 09:48	12/04/23 19:49	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Client Sample ID: CROSS PORTAL 02

Date Collected: 10/31/23 12:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-7

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.69	U	1.33	1.34	3.00	2.01	pCi/L	11/03/23 09:48	12/04/23 19:49	1
Gross Beta	1.55		0.653	0.672	4.00	0.884	pCi/L	11/03/23 09:48	12/04/23 19:49	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 10/31/23 11:15

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-8

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	4.13		2.13	2.18	3.00	2.95	pCi/L	11/03/23 09:48	12/04/23 19:49	1
Gross Beta	3.89		0.873	0.956	4.00	0.934	pCi/L	11/03/23 09:48	12/04/23 19:49	1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 10/31/23 13:00

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-1

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-6.64	U G	13.9	13.9	20.0	23.5	pCi/L	11/27/23 14:09	11/30/23 19:24	1
Other Detected										
Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide	None						pCi/L	11/27/23 14:09	11/30/23 19:24	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-2

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	0.0237	U	8.04	8.04	20.0	14.6	pCi/L	11/03/23 14:38	11/30/23 07:40	1
Other Detected										
Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	71.1		23.4	24.9		26.9	pCi/L	11/03/23 14:38	11/30/23 07:40	1
K-40	157		67.1	69.7		52.7	pCi/L	11/03/23 14:38	11/30/23 07:40	1
Pb-214	38.3		15.9	16.6		18.6	pCi/L	11/03/23 14:38	11/30/23 07:40	1

Client Sample ID: COMPLIANCE 02

Date Collected: 10/31/23 13:30

Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-3

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-4.52	U G	12.2	12.2	20.0	20.9	pCi/L	11/03/23 14:38	11/30/23 07:41	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved (Continued)

<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Bi-214	76.3		26.2	27.7		29.3	pCi/L	11/03/23 14:38	11/30/23 07:41	1

Client Sample ID: COMPLIANCE 03
Date Collected: 10/31/23 13:30
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-4
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	0.705	U	9.83	9.83	20.0	17.5	pCi/L	11/03/23 14:38	11/30/23 08:48	1
<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Bi-214	199		33.8	41.3		33.4	pCi/L	11/03/23 14:38	11/30/23 08:48	1
Pb-214	105		24.0	27.0		23.7	pCi/L	11/03/23 14:38	11/30/23 08:48	1

Client Sample ID: CARIBOU WELL
Date Collected: 10/31/23 11:30
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-5
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	-6.35	U	11.0	11.1	20.0	18.6	pCi/L	11/03/23 14:38	11/30/23 08:48	1
<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Bi-214	61.4		25.0	26.0		26.8	pCi/L	11/03/23 14:38	11/30/23 08:48	1

Client Sample ID: CROSS PORTAL
Date Collected: 10/31/23 12:15
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-6
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	-3.23	U	9.19	9.20	20.0	15.9	pCi/L	11/03/23 14:38	11/30/23 11:57	1
<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Other Detected Radionuclide	None						pCi/L	11/03/23 14:38	11/30/23 11:57	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 10/31/23 12:15
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-7
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	-4.38	U G	13.0	13.0	20.0	22.3	pCi/L	11/03/23 14:38	11/30/23 11:55	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved (Continued)

<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Other Detected Radionuclide</i>	<i>None</i>						<i>pCi/L</i>	<i>11/03/23 14:38</i>	<i>11/30/23 11:55</i>	<i>1</i>

Client Sample ID: CARIBOU PORTAL
Date Collected: 10/31/23 11:15
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183833-8
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	-3.23	U	9.19	9.20	20.0	15.9	pCi/L	11/03/23 14:38	11/30/23 14:13	1
<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Other Detected Radionuclide</i>	<i>None</i>						<i>pCi/L</i>	<i>11/03/23 14:38</i>	<i>11/30/23 14:13</i>	<i>1</i>

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-635128/1-A

Matrix: Water

Analysis Batch: 639150

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 635128

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.1682	U	0.525	0.525	3.00	0.957	pCi/L	11/03/23 09:48	12/01/23 22:30	1
Gross Beta	0.2924	U	0.487	0.488	4.00	0.820	pCi/L	11/03/23 09:48	12/01/23 22:30	1

Lab Sample ID: LCS 160-635128/2-A

Matrix: Water

Analysis Batch: 639150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 635128

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	49.6	58.64		8.62	3.00	2.79	pCi/L	118	75 - 125

Lab Sample ID: LCSB 160-635128/3-A

Matrix: Water

Analysis Batch: 639150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 635128

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	72.3	72.41		7.76	4.00	0.850	pCi/L	100	75 - 125

Lab Sample ID: 380-69201-AI-1-B MS

Matrix: Water

Analysis Batch: 639150

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 635128

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	1.67		49.6	41.86		5.84	3.00	0.760	pCi/L	81	60 - 140

Lab Sample ID: 380-69201-AI-1-C MSBT

Matrix: Water

Analysis Batch: 639150

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 635128

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	13.1		72.3	84.53		8.97	4.00	0.524	pCi/L	99	60 - 140

Lab Sample ID: 380-69201-AI-1-D DU

Matrix: Water

Analysis Batch: 639150

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 635128

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Gross Alpha	1.67		-0.7080	U F	0.731	3.00	0.973	pCi/L	1.28	1
Gross Beta	13.1		13.49		1.85	4.00	0.486	pCi/L	0.11	1

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Method: 901.1 - Cesium 137 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-635162/1-A

Matrix: Water

Analysis Batch: 638922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 635162

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	1.174	U	13.4	13.4	20.0	17.5	pCi/L	11/03/23 14:38	11/30/23 11:58	1
Other Detected Radionuclides	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide	None						pCi/L	11/03/23 14:38	11/30/23 11:58	1

Lab Sample ID: LCS 160-635162/2-A

Matrix: Water

Analysis Batch: 638927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 635162

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	135000	135400		15900		444	pCi/L	100	75 - 125
Cesium-137	40200	41040		4840	20.0	117	pCi/L	102	75 - 125
Cobalt-60	16300	16820		1990		85.8	pCi/L	103	75 - 125

Lab Sample ID: 160-52036-D-19-B DU

Matrix: Water

Analysis Batch: 638337

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 635162

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Cesium-137	1.54	U	1.064	U	3.99	20.0	6.80	pCi/L	0.05	1
Other Detected Radionuclides	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Other Detected Radionuclide	None		None					pCi/L		

Lab Sample ID: MB 160-638400/1-A

Matrix: Water

Analysis Batch: 638922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 638400

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-6.425	U G	20.1	20.1	20.0	34.6	pCi/L	11/27/23 14:09	11/30/23 19:57	1
Other Detected Radionuclides	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide	None						pCi/L	11/27/23 14:09	11/30/23 19:57	1

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Method: 901.1 - Cesium 137 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-638400/2-A
Matrix: Water
Analysis Batch: 638925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638400

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	135000	139200		16600		478	pCi/L	103	75 - 125
Cesium-137	40200	41850		4990	20.0	116	pCi/L	104	75 - 125
Cobalt-60	16300	17080		2040		71.7	pCi/L	105	75 - 125

Lab Sample ID: 280-183833-1 DU
Matrix: Water
Analysis Batch: 639137

Client Sample ID: CROSS WELL
Prep Type: Dissolved
Prep Batch: 638400

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Cesium-137	-6.64	U G	1.483	U G	15.2	20.0	27.1	pCi/L	0.28	1
Other Detected Radionuclides										
Other Detected Radionuclide	None		None							

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Rad

Prep Batch: 635128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Dissolved	Water	Evaporation	
280-183833-2	COMPLIANCE WELL	Dissolved	Water	Evaporation	
280-183833-3	COMPLIANCE 02	Dissolved	Water	Evaporation	
280-183833-4	COMPLIANCE 03	Dissolved	Water	Evaporation	
280-183833-5	CARIBOU WELL	Dissolved	Water	Evaporation	
280-183833-6	CROSS PORTAL	Dissolved	Water	Evaporation	
280-183833-7	CROSS PORTAL 02	Dissolved	Water	Evaporation	
280-183833-8	CARIBOU PORTAL	Dissolved	Water	Evaporation	
MB 160-635128/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-635128/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-635128/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
380-69201-AI-1-B MS	Matrix Spike	Total/NA	Water	Evaporation	
380-69201-AI-1-C MSBT	Matrix Spike	Total/NA	Water	Evaporation	
380-69201-AI-1-D DU	Duplicate	Total/NA	Water	Evaporation	

Prep Batch: 635162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-2	COMPLIANCE WELL	Dissolved	Water	Fill_Geo-0	
280-183833-3	COMPLIANCE 02	Dissolved	Water	Fill_Geo-0	
280-183833-4	COMPLIANCE 03	Dissolved	Water	Fill_Geo-0	
280-183833-5	CARIBOU WELL	Dissolved	Water	Fill_Geo-0	
280-183833-6	CROSS PORTAL	Dissolved	Water	Fill_Geo-0	
280-183833-7	CROSS PORTAL 02	Dissolved	Water	Fill_Geo-0	
280-183833-8	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	
MB 160-635162/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-635162/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
160-52036-D-19-B DU	Duplicate	Total/NA	Water	Fill_Geo-0	

Prep Batch: 638400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183833-1	CROSS WELL	Dissolved	Water	Fill_Geo-0	
MB 160-638400/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-638400/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
280-183833-1 DU	CROSS WELL	Dissolved	Water	Fill_Geo-0	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Client Sample ID: CROSS WELL

Lab Sample ID: 280-183833-1

Date Collected: 10/31/23 13:00

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Evaporation			199.99 mL	1.0 g	635128	11/03/23 09:48	DQC	EET SL
Dissolved	Analysis	900.0		1			639351	12/04/23 18:49	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	638400	11/27/23 14:09	AJP	EET SL
Dissolved	Analysis	901.1		1			638927	11/30/23 19:24	CAH	EET SL

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-183833-2

Date Collected: 10/31/23 13:30

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	635128	11/03/23 09:48	DQC	EET SL
Dissolved	Analysis	900.0		1			639351	12/04/23 19:49	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	635162	11/03/23 14:38	AJP	EET SL
Dissolved	Analysis	901.1		1			638925	11/30/23 07:40	CAH	EET SL

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-183833-3

Date Collected: 10/31/23 13:30

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	635128	11/03/23 09:48	DQC	EET SL
Dissolved	Analysis	900.0		1			639351	12/04/23 19:49	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	635162	11/03/23 14:38	AJP	EET SL
Dissolved	Analysis	901.1		1			638927	11/30/23 07:41	CAH	EET SL

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-183833-4

Date Collected: 10/31/23 13:30

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Evaporation			199.99 mL	1.0 g	635128	11/03/23 09:48	DQC	EET SL
Dissolved	Analysis	900.0		1			639351	12/04/23 19:49	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	635162	11/03/23 14:38	AJP	EET SL
Dissolved	Analysis	901.1		1			638925	11/30/23 08:48	CAH	EET SL

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-183833-5

Date Collected: 10/31/23 11:30

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	635128	11/03/23 09:48	DQC	EET SL
Dissolved	Analysis	900.0		1			639351	12/04/23 19:49	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	635162	11/03/23 14:38	AJP	EET SL
Dissolved	Analysis	901.1		1			638927	11/30/23 08:48	CAH	EET SL

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-183833-6

Date Collected: 10/31/23 12:15

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Evaporation			199.98 mL	1.0 g	635128	11/03/23 09:48	DQC	EET SL
Dissolved	Analysis	900.0		1			639351	12/04/23 19:49	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	635162	11/03/23 14:38	AJP	EET SL
Dissolved	Analysis	901.1		1			638925	11/30/23 11:57	CAH	EET SL

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-183833-7

Date Collected: 10/31/23 12:15

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Evaporation			199.99 mL	1.0 g	635128	11/03/23 09:48	DQC	EET SL
Dissolved	Analysis	900.0		1			639351	12/04/23 19:49	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	635162	11/03/23 14:38	AJP	EET SL
Dissolved	Analysis	901.1		1			638927	11/30/23 11:55	CAH	EET SL

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-183833-8

Date Collected: 10/31/23 11:15

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	635128	11/03/23 09:48	DQC	EET SL
Dissolved	Analysis	900.0		1			639351	12/04/23 19:49	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	635162	11/03/23 14:38	AJP	EET SL
Dissolved	Analysis	901.1		1			638925	11/30/23 14:13	CAH	EET SL

Laboratory References:

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

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-183833-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	12-31-23

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

Eurofins Denver

Client Information		Sampler: BM & KL		Lab PM: Blentulis, Dylan T		Carrier Tracking No(s):		COC No:	
Client Contact: Brooke Molson Moran		Phone: 303-506-1618		E-Mail: Dylan.Blentulis@et.eurofins.com		State of Origin:		Page:	
Company: Grand Island Resources		PWSID:		Job #:					
Address: 12567 West Cedar Road Suite 250		Due Date Requested:		 280-183833 Chain of Custody					
City: Lakewood		TAT Requested (days):							
State, Zip: CO, 80466		Compliance Project: ☐ Yes ☒ No							
Phone: 315-414-6986		PO #:							
Email: bmolsomn@g.emporia.edu		WO #:							
Project Name: Nederland, CO		Project #:		Analysis Requested					
Site: Groundwater Sampling		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=air)	Special Instructions/Note: 300.0 Nitrate/Nitrite = 48 hour hold time FIELD-FILTERED - ALL NITRIC - PRESERVED BOTTLES (METALS & RADIONUCLIDES)			
CROSS WELL	10/31/23	13:00	G	W					
COMPLIANCE WELL	"	13:30	G	W					
COMPLIANCE 02	"	13:30	G	W					
COMPLIANCE 03	"	13:30	G	W					
CARIBOU WELL	"	11:30	G	W					
CROSS PORTAL	"	12:15	G	W					
CROSS PORTAL 02	"	12:15	G	W					
CARIBOU PORTAL	"	11:15	G	W					
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: David Brown		Date/Time: 10/31/23 3:47pm		Company: GIR		Received by: [Signature] Date/Time: 10/31/23 15:50 Company: 667 862			
Relinquished by:		Date/Time:		Company:		Received by: Date/Time: Company:			
Relinquished by:		Date/Time:		Company:		Received by: Date/Time: Company:			
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 6.5, 7.7 JFR mono G 0.3					

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM	Carrier Tracking No(s)		COC No						
Shipping/Receiving		Phone:	E-Mail:	State of Origin:		280-679135.1						
Company:		Accreditations Required (See note):				Page 1 of 1						
TestAmerica Laboratories, Inc.						Job #						
Address:						280-183833-2						
City:						Preservation Codes:						
State, Zip						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:						
Phone						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)						
Email:												
Project Name:												
Site:												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Other, A=Air)	Field Filtered Sample (Yes or No)	901.1 Ca/FIELD_FLTRD (MOD) Cesium-137 only	900.0/FIELD_FLTRD Standard Target List	Analysis Requested		Total Number of Containers	Special Instructions/Note:
CROSS WELL (280-183833-1)		10/31/23	13:00	Mountain	Water		X	X			2	
COMPLIANCE WELL (280-183833-2)		10/31/23	13:30	Mountain	Water		X	X			2	
COMPLIANCE 02 (280-183833-3)		10/31/23	13:30	Mountain	Water		X	X			2	
COMPLIANCE 03 (280-183833-4)		10/31/23	13:30	Mountain	Water		X	X			2	
CARIBOU WELL (280-183833-5)		10/31/23	11:30	Mountain	Water		X	X			2	
CROSS PORTAL (280-183833-6)		10/31/23	12:15	Mountain	Water		X	X			2	
CROSS PORTAL 02 (280-183833-7)		10/31/23	12:15	Mountain	Water		X	X			2	
CARIBOU PORTAL (280-183833-8)		10/31/23	11:15	Mountain	Water		X	X			2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Method of Shipment:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

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.: Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-183833-2

Login Number: 183833

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

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

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-183833-2

Login Number: 183833

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 11/02/23 12:58 PM

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

APPENDIX A.2 NOVEMBER 2023 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

Generated 12/14/2023 4:51:37 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-185119-1

Eurofins Denver

Job Notes

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

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

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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.

General Chemistry

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

Rad

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Job ID: 280-185119-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO - Groundwater

Report Number: 280-185119-1

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 11/30/2023 3:56 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.5° C, 0.6° C and 1.5° C.

The client label for the 250 mL amber glass sample containers preserved with sulfuric acid for each sample were put onto the sample bubble bags and not on the sample containers themselves. Containers were identified and logged using the labels on bubble bags.

DISSOLVED METALS (ICP)

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for Dissolved metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 12/07/2023 and analyzed on 12/08/2023.

Iron was detected in method blank MB 280-636425/1-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 analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 12/07/2023 and analyzed on 12/08/2023 and 12/11/2023.

Cobalt failed the recovery criteria low for the MS of sample 160-52210-4 in batch 280-636786. Refer to the QC report for details.

The initial calibration verification (ICV) result for batch 280-636786 was above the upper control limit for Antimony. Sample results were non-detects, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Job ID: 280-185119-1 (Continued)

Laboratory: Eurofins Denver (Continued)

DISSOLVED MERCURY (CVAA)

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for dissolved mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared on 12/08/2023 and analyzed on 12/09/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 12/06/2023 and 12/07/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for anions (28 days) in accordance with EPA Method 300.0 (28 Days). The samples were analyzed on 12/12/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (48 HOURS)

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for anions (48 hours) in accordance with EPA Method 300.0 (48 Hours). The samples were analyzed on 12/01/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 12/12/2023.

Nitrate Nitrite as N failed the recovery criteria low for the MS and MSD of sample 280-184528-2 in batch 280-637162. 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.

FREE CYANIDE

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for Free Cyanide in accordance with 4500_CN_I. The samples were analyzed on 12/11/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CHLORIDE

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for total chloride in accordance with SM20 4500 Cl-E. The samples were analyzed on 12/06/2023.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Job ID: 280-185119-1 (Continued)

Laboratory: Eurofins Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFATE

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for sulfate in accordance with SM 4500 S04 E. The samples were analyzed on 12/05/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY - DISSOLVED

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for Gross Alpha and Gross Beta Radioactivity - Dissolved in accordance with EPA 900.0. The samples were prepared on 12/05/2023 and analyzed on 12/13/2023.

Gross Alpha failed the recovery criteria low for the MS of sample 160-52430-1 in batch 160-640619. Refer to the QC report for details.

The detection goal was not met for the following sample. The sample and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance: CARIBOU PORTAL (280-185119-8). Analytical results are reported with the detection limit achieved.

The detection goal was not met for the following samples due to a reduction of the sample size attributed to high residual mass: (160-52430-A-1-A) and (160-52430-A-1-D DU). Analytical results are reported with the detection limit achieved.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CESIUM 137 & OTHER GAMMA EMITTERS (GS) - DISSOLVED

Samples CROSS WELL (280-185119-1), COMPLIANCE WELL (280-185119-2), COMPLIANCE 02 (280-185119-3), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5), CROSS PORTAL (280-185119-6), CROSS PORTAL 02 (280-185119-7) and CARIBOU PORTAL (280-185119-8) were analyzed for Cesium 137 & Other Gamma Emitters (GS) - Dissolved in accordance with EPA 901.1. The samples were prepared on 12/05/2023 and analyzed on 12/08/2023 and 12/11/2023.

For batch 160-639541 the minimum detectable concentration (MDC) for the method blank (MB) is above the requested limit for Cs137. The activity was not observed in the MB above the MDC or requested limit (RL). The data for the following sample have been reported with the MDC achieved: (MB 160-639541/1-A)

The detection goal of 20 pCi/L was not met for Cs-137 for the following samples. An elevated MDC can occur when higher background counts are applied to a peak ROI. This is due to the relatively small size of the peak or subsequent "force-fit" of the non-existent peak which resulted in higher than normal background counts due to statistical fluctuations in the Compton baseline. The laboratory does not believe this adversely affects the data, the Cs-137 activity is well below the RL and MDC: COMPLIANCE WELL (280-185119-2), COMPLIANCE 03 (280-185119-4), CARIBOU WELL (280-185119-5) and CARIBOU PORTAL (280-185119-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-185119-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.011	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.031		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.00019	J	0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0065		0.0020	0.00071	mg/L	1		200.8	Dissolved
Molybdenum	0.00077	J	0.0020	0.00037	mg/L	1		200.8	Dissolved
Silver	0.00013	J	0.0010	0.000045	mg/L	1		200.8	Dissolved
Uranium	0.000031	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.60		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.35	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	0.057	J	0.50	0.049	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.34		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	89		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.6		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	9.2		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-185119-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.040		0.0030	0.00038	mg/L	1		200.8	Dissolved
Manganese	0.0064		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0044		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00012	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.081		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.34	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	0.057	J	0.50	0.049	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.34		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	93		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.2		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	8.8		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-185119-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.026	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Lithium	0.0091	J	0.020	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.041		0.0030	0.00038	mg/L	1		200.8	Dissolved
Manganese	0.0062		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0046		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00014	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.081		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.34	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.33		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	88		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.3		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	8.8		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-185119-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.013	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Nitrite as N	0.055	J	0.50	0.049	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.056	J	0.10	0.044	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-185119-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.012	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.0072		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.14		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00062	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Zinc	0.0069	J	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.14	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	0.055	J	0.50	0.049	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.093	J	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	160		40	19	mg/L	1		SM 2540C	Total/NA
Sulfate	2.3	J	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-185119-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.0092	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00050	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.072		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.0010		0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0017	J	0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00059	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0085		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0074		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00092	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.23		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.11	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	0.054	J	0.50	0.049	mg/L	1		300.0	Total/NA
Total Dissolved Solids (TDS)	460		40	19	mg/L	1		SM 2540C	Total/NA
Sulfate	10		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-185119-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0098	J	0.020	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00052	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.071		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.00085	J	0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0018	J	0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00069	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0095		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0075		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00090	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.23		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.11	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	0.054	J	0.50	0.049	mg/L	1		300.0	Total/NA
Total Dissolved Solids (TDS)	110		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	10		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-185119-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.018	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00048	J	0.0020	0.00040	mg/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Client Sample ID: CARIBOU PORTAL (Continued)

Lab Sample ID: 280-185119-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00067	J	0.0050	0.00050	mg/L	1		200.8	Dissolved
Barium	0.057		0.0030	0.00038	mg/L	1		200.8	Dissolved
Lead	0.00024	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Molybdenum	0.0069		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.0064		0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.0079	J	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.16	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	0.054	J	0.50	0.049	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.11		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	130		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	9.7		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

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
300.0	Anions, Ion Chromatography	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 Cl- E	Chloride, Total	SM	EET DEN
SM 4500 CN I	Cyanide, Weak Acid Dissociable	SM	EET DEN
SM 4500 SO4 E	Sulfate, Total	SM	EET DEN
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	EET SL
901.1	Cesium 137 & Other Gamma Emitters (GS)	EPA	EET SL
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
Evaporation	Preparation, Evaporation	None	EET SL
Fill_Geo-0	Fill Geometry, No In-Growth	None	EET SL

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

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-185119-1	CROSS WELL	Water	11/30/23 13:00	11/30/23 15:56
280-185119-2	COMPLIANCE WELL	Water	11/30/23 13:30	11/30/23 15:56
280-185119-3	COMPLIANCE 02	Water	11/30/23 13:30	11/30/23 15:56
280-185119-4	COMPLIANCE 03	Water	11/30/23 13:30	11/30/23 15:56
280-185119-5	CARIBOU WELL	Water	11/30/23 11:30	11/30/23 15:56
280-185119-6	CROSS PORTAL	Water	11/30/23 12:15	11/30/23 15:56
280-185119-7	CROSS PORTAL 02	Water	11/30/23 12:15	11/30/23 15:56
280-185119-8	CARIBOU PORTAL	Water	11/30/23 11:15	11/30/23 15:56

1
2
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11
12
13
14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 11/30/23 13:00

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/07/23 15:51	12/08/23 19:55	1
Boron	ND		0.10	0.0015	mg/L		12/07/23 15:51	12/08/23 19:55	1
Iron	0.011	J B	0.10	0.0091	mg/L		12/07/23 15:51	12/08/23 19:55	1
Lithium	ND		0.020	0.0091	mg/L		12/07/23 15:51	12/08/23 19:55	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/07/23 15:51	12/08/23 19:59	1
Boron	ND		0.10	0.0015	mg/L		12/07/23 15:51	12/08/23 19:59	1
Iron	ND		0.10	0.0091	mg/L		12/07/23 15:51	12/08/23 19:59	1
Lithium	ND		0.020	0.0091	mg/L		12/07/23 15:51	12/08/23 19:59	1

Client Sample ID: COMPLIANCE 02

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/07/23 15:51	12/08/23 20:03	1
Boron	ND		0.10	0.0015	mg/L		12/07/23 15:51	12/08/23 20:03	1
Iron	0.026	J B	0.10	0.0091	mg/L		12/07/23 15:51	12/08/23 20:03	1
Lithium	0.0091	J	0.020	0.0091	mg/L		12/07/23 15:51	12/08/23 20:03	1

Client Sample ID: COMPLIANCE 03

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/07/23 15:51	12/08/23 20:07	1
Boron	ND		0.10	0.0015	mg/L		12/07/23 15:51	12/08/23 20:07	1
Iron	0.013	J B	0.10	0.0091	mg/L		12/07/23 15:51	12/08/23 20:07	1
Lithium	ND		0.020	0.0091	mg/L		12/07/23 15:51	12/08/23 20:07	1

Client Sample ID: CARIBOU WELL

Date Collected: 11/30/23 11:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/07/23 15:51	12/08/23 20:11	1
Boron	ND		0.10	0.0015	mg/L		12/07/23 15:51	12/08/23 20:11	1
Iron	0.012	J B	0.10	0.0091	mg/L		12/07/23 15:51	12/08/23 20:11	1
Lithium	ND		0.020	0.0091	mg/L		12/07/23 15:51	12/08/23 20:11	1

Client Sample ID: CROSS PORTAL

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/07/23 15:51	12/08/23 20:15	1
Boron	ND		0.10	0.0015	mg/L		12/07/23 15:51	12/08/23 20:15	1
Iron	0.0092	J B	0.10	0.0091	mg/L		12/07/23 15:51	12/08/23 20:15	1
Lithium	ND		0.020	0.0091	mg/L		12/07/23 15:51	12/08/23 20:15	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: CROSS PORTAL 02

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/07/23 15:51	12/08/23 20:20	1
Boron	ND		0.10	0.0015	mg/L		12/07/23 15:51	12/08/23 20:20	1
Iron	ND		0.10	0.0091	mg/L		12/07/23 15:51	12/08/23 20:20	1
Lithium	0.0098	J	0.020	0.0091	mg/L		12/07/23 15:51	12/08/23 20:20	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 11/30/23 11:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/07/23 15:51	12/08/23 20:24	1
Boron	ND		0.10	0.0015	mg/L		12/07/23 15:51	12/08/23 20:24	1
Iron	0.018	J B	0.10	0.0091	mg/L		12/07/23 15:51	12/08/23 20:24	1
Lithium	ND		0.020	0.0091	mg/L		12/07/23 15:51	12/08/23 20:24	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 11/30/23 13:00

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.0020	0.00040	mg/L		12/07/23 15:51	12/08/23 17:29	1
Arsenic	ND		0.0050	0.00050	mg/L		12/07/23 15:51	12/08/23 17:29	1
Barium	0.031		0.0030	0.00038	mg/L		12/07/23 15:51	12/08/23 17:29	1
Beryllium	ND		0.0010	0.00030	mg/L		12/07/23 15:51	12/08/23 17:29	1
Cadmium	0.00019	J	0.0010	0.00019	mg/L		12/07/23 15:51	12/08/23 17:29	1
Chromium	ND		0.0030	0.00050	mg/L		12/07/23 15:51	12/08/23 17:29	1
Cobalt	ND		0.0010	0.00033	mg/L		12/07/23 15:51	12/08/23 17:29	1
Copper	0.0065		0.0020	0.00071	mg/L		12/07/23 15:51	12/08/23 17:29	1
Lead	ND		0.0010	0.00023	mg/L		12/07/23 15:51	12/08/23 17:29	1
Manganese	ND		0.0030	0.00051	mg/L		12/07/23 15:51	12/08/23 17:29	1
Molybdenum	0.00077	J	0.0020	0.00037	mg/L		12/07/23 15:51	12/08/23 17:29	1
Nickel	ND		0.0030	0.00083	mg/L		12/07/23 15:51	12/08/23 17:29	1
Selenium	ND		0.0050	0.0010	mg/L		12/07/23 15:51	12/08/23 17:29	1
Silver	0.00013	J	0.0010	0.000045	mg/L		12/07/23 15:51	12/08/23 17:29	1
Thallium	ND		0.0010	0.00021	mg/L		12/07/23 15:51	12/08/23 17:29	1
Uranium	0.000031	J	0.0010	0.000030	mg/L		12/07/23 15:51	12/08/23 17:29	1
Vanadium	ND		0.0050	0.0011	mg/L		12/07/23 15:51	12/08/23 17:29	1
Zinc	0.60		0.010	0.0020	mg/L		12/07/23 15:51	12/08/23 17:29	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.0020	0.00040	mg/L		12/07/23 15:51	12/08/23 17:32	1
Arsenic	ND		0.0050	0.00050	mg/L		12/07/23 15:51	12/08/23 17:32	1
Barium	0.040		0.0030	0.00038	mg/L		12/07/23 15:51	12/08/23 17:32	1
Beryllium	ND		0.0010	0.00030	mg/L		12/07/23 15:51	12/08/23 17:32	1
Cadmium	ND		0.0010	0.00019	mg/L		12/07/23 15:51	12/08/23 17:32	1
Chromium	ND		0.0030	0.00050	mg/L		12/07/23 15:51	12/08/23 17:32	1
Cobalt	ND		0.0010	0.00033	mg/L		12/07/23 15:51	12/08/23 17:32	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: COMPLIANCE WELL

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0020	0.00071	mg/L		12/07/23 15:51	12/08/23 17:32	1
Lead	ND		0.0010	0.00023	mg/L		12/07/23 15:51	12/08/23 17:32	1
Manganese	0.0064		0.0030	0.00051	mg/L		12/07/23 15:51	12/08/23 17:32	1
Molybdenum	0.0044		0.0020	0.00037	mg/L		12/07/23 15:51	12/08/23 17:32	1
Nickel	ND		0.0030	0.00083	mg/L		12/07/23 15:51	12/08/23 17:32	1
Selenium	ND		0.0050	0.0010	mg/L		12/07/23 15:51	12/08/23 17:32	1
Silver	ND		0.0010	0.000045	mg/L		12/07/23 15:51	12/08/23 17:32	1
Thallium	ND		0.0010	0.00021	mg/L		12/07/23 15:51	12/08/23 17:32	1
Uranium	0.00012	J	0.0010	0.000030	mg/L		12/07/23 15:51	12/08/23 17:32	1
Vanadium	ND		0.0050	0.0011	mg/L		12/07/23 15:51	12/08/23 17:32	1
Zinc	0.081		0.010	0.0020	mg/L		12/07/23 15:51	12/08/23 17:32	1

Client Sample ID: COMPLIANCE 02

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.0020	0.00040	mg/L		12/07/23 15:51	12/08/23 17:34	1
Arsenic	ND		0.0050	0.00050	mg/L		12/07/23 15:51	12/08/23 17:34	1
Barium	0.041		0.0030	0.00038	mg/L		12/07/23 15:51	12/08/23 17:34	1
Beryllium	ND		0.0010	0.00030	mg/L		12/07/23 15:51	12/08/23 17:34	1
Cadmium	ND		0.0010	0.00019	mg/L		12/07/23 15:51	12/08/23 17:34	1
Chromium	ND		0.0030	0.00050	mg/L		12/07/23 15:51	12/08/23 17:34	1
Cobalt	ND		0.0010	0.00033	mg/L		12/07/23 15:51	12/08/23 17:34	1
Copper	ND		0.0020	0.00071	mg/L		12/07/23 15:51	12/08/23 17:34	1
Lead	ND		0.0010	0.00023	mg/L		12/07/23 15:51	12/08/23 17:34	1
Manganese	0.0062		0.0030	0.00051	mg/L		12/07/23 15:51	12/08/23 17:34	1
Molybdenum	0.0046		0.0020	0.00037	mg/L		12/07/23 15:51	12/08/23 17:34	1
Nickel	ND		0.0030	0.00083	mg/L		12/07/23 15:51	12/08/23 17:34	1
Selenium	ND		0.0050	0.0010	mg/L		12/07/23 15:51	12/08/23 17:34	1
Silver	ND		0.0010	0.000045	mg/L		12/07/23 15:51	12/08/23 17:34	1
Thallium	ND		0.0010	0.00021	mg/L		12/07/23 15:51	12/08/23 17:34	1
Uranium	0.00014	J	0.0010	0.000030	mg/L		12/07/23 15:51	12/08/23 17:34	1
Vanadium	ND		0.0050	0.0011	mg/L		12/07/23 15:51	12/08/23 17:34	1
Zinc	0.081		0.010	0.0020	mg/L		12/07/23 15:51	12/08/23 17:34	1

Client Sample ID: COMPLIANCE 03

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.0020	0.00040	mg/L		12/07/23 15:51	12/08/23 17:36	1
Arsenic	ND		0.0050	0.00050	mg/L		12/07/23 15:51	12/08/23 17:36	1
Barium	ND		0.0030	0.00038	mg/L		12/07/23 15:51	12/08/23 17:36	1
Beryllium	ND		0.0010	0.00030	mg/L		12/07/23 15:51	12/08/23 17:36	1
Cadmium	ND		0.0010	0.00019	mg/L		12/07/23 15:51	12/08/23 17:36	1
Chromium	ND		0.0030	0.00050	mg/L		12/07/23 15:51	12/08/23 17:36	1
Cobalt	ND		0.0010	0.00033	mg/L		12/07/23 15:51	12/08/23 17:36	1
Copper	ND		0.0020	0.00071	mg/L		12/07/23 15:51	12/08/23 17:36	1
Lead	ND		0.0010	0.00023	mg/L		12/07/23 15:51	12/08/23 17:36	1
Manganese	ND		0.0030	0.00051	mg/L		12/07/23 15:51	12/08/23 17:36	1
Molybdenum	ND		0.0020	0.00037	mg/L		12/07/23 15:51	12/08/23 17:36	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: COMPLIANCE 03

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0030	0.00083	mg/L		12/07/23 15:51	12/08/23 17:36	1
Selenium	ND		0.0050	0.0010	mg/L		12/07/23 15:51	12/08/23 17:36	1
Silver	ND		0.0010	0.000045	mg/L		12/07/23 15:51	12/08/23 17:36	1
Thallium	ND		0.0010	0.00021	mg/L		12/07/23 15:51	12/08/23 17:36	1
Uranium	ND		0.0010	0.000030	mg/L		12/07/23 15:51	12/08/23 17:36	1
Vanadium	ND		0.0050	0.0011	mg/L		12/07/23 15:51	12/08/23 17:36	1
Zinc	ND		0.010	0.0020	mg/L		12/07/23 15:51	12/08/23 17:36	1

Client Sample ID: CARIBOU WELL

Date Collected: 11/30/23 11:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.0020	0.00040	mg/L		12/07/23 15:51	12/08/23 17:38	1
Arsenic	ND		0.0050	0.00050	mg/L		12/07/23 15:51	12/08/23 17:38	1
Barium	0.0072		0.0030	0.00038	mg/L		12/07/23 15:51	12/08/23 17:38	1
Beryllium	ND		0.0010	0.00030	mg/L		12/07/23 15:51	12/08/23 17:38	1
Cadmium	ND		0.0010	0.00019	mg/L		12/07/23 15:51	12/08/23 17:38	1
Chromium	ND		0.0030	0.00050	mg/L		12/07/23 15:51	12/08/23 17:38	1
Cobalt	ND		0.0010	0.00033	mg/L		12/07/23 15:51	12/08/23 17:38	1
Copper	0.14		0.0020	0.00071	mg/L		12/07/23 15:51	12/08/23 17:38	1
Lead	0.00062	J	0.0010	0.00023	mg/L		12/07/23 15:51	12/08/23 17:38	1
Manganese	ND		0.0030	0.00051	mg/L		12/07/23 15:51	12/08/23 17:38	1
Molybdenum	ND		0.0020	0.00037	mg/L		12/07/23 15:51	12/08/23 17:38	1
Nickel	ND		0.0030	0.00083	mg/L		12/07/23 15:51	12/08/23 17:38	1
Selenium	ND		0.0050	0.0010	mg/L		12/07/23 15:51	12/08/23 17:38	1
Silver	ND		0.0010	0.000045	mg/L		12/07/23 15:51	12/08/23 17:38	1
Thallium	ND		0.0010	0.00021	mg/L		12/07/23 15:51	12/08/23 17:38	1
Uranium	ND		0.0010	0.000030	mg/L		12/07/23 15:51	12/08/23 17:38	1
Vanadium	ND		0.0050	0.0011	mg/L		12/07/23 15:51	12/08/23 17:38	1
Zinc	0.0069	J	0.010	0.0020	mg/L		12/07/23 15:51	12/08/23 17:38	1

Client Sample ID: CROSS PORTAL

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00050	J	0.0020	0.00040	mg/L		12/07/23 15:51	12/11/23 14:28	1
Arsenic	ND		0.0050	0.00050	mg/L		12/07/23 15:51	12/08/23 17:41	1
Barium	0.072		0.0030	0.00038	mg/L		12/07/23 15:51	12/08/23 17:41	1
Beryllium	ND		0.0010	0.00030	mg/L		12/07/23 15:51	12/08/23 17:41	1
Cadmium	0.0010		0.0010	0.00019	mg/L		12/07/23 15:51	12/08/23 17:41	1
Chromium	ND		0.0030	0.00050	mg/L		12/07/23 15:51	12/08/23 17:41	1
Cobalt	ND		0.0010	0.00033	mg/L		12/07/23 15:51	12/08/23 17:41	1
Copper	0.0017	J	0.0020	0.00071	mg/L		12/07/23 15:51	12/08/23 17:41	1
Lead	0.00059	J	0.0010	0.00023	mg/L		12/07/23 15:51	12/08/23 17:41	1
Manganese	0.0085		0.0030	0.00051	mg/L		12/07/23 15:51	12/08/23 17:41	1
Molybdenum	0.0074		0.0020	0.00037	mg/L		12/07/23 15:51	12/08/23 17:41	1
Nickel	ND		0.0030	0.00083	mg/L		12/07/23 15:51	12/08/23 17:41	1
Selenium	ND		0.0050	0.0010	mg/L		12/07/23 15:51	12/08/23 17:41	1
Silver	ND		0.0010	0.000045	mg/L		12/07/23 15:51	12/08/23 17:41	1
Thallium	ND		0.0010	0.00021	mg/L		12/07/23 15:51	12/08/23 17:41	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: CROSS PORTAL

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.00092	J	0.0010	0.000030	mg/L		12/07/23 15:51	12/08/23 17:41	1
Vanadium	ND		0.0050	0.0011	mg/L		12/07/23 15:51	12/08/23 17:41	1
Zinc	0.23		0.010	0.0020	mg/L		12/07/23 15:51	12/08/23 17:41	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00052	J	0.0020	0.00040	mg/L		12/07/23 15:51	12/11/23 14:30	1
Arsenic	ND		0.0050	0.00050	mg/L		12/07/23 15:51	12/08/23 17:43	1
Barium	0.071		0.0030	0.00038	mg/L		12/07/23 15:51	12/08/23 17:43	1
Beryllium	ND		0.0010	0.00030	mg/L		12/07/23 15:51	12/08/23 17:43	1
Cadmium	0.00085	J	0.0010	0.00019	mg/L		12/07/23 15:51	12/08/23 17:43	1
Chromium	ND		0.0030	0.00050	mg/L		12/07/23 15:51	12/08/23 17:43	1
Cobalt	ND		0.0010	0.00033	mg/L		12/07/23 15:51	12/08/23 17:43	1
Copper	0.0018	J	0.0020	0.00071	mg/L		12/07/23 15:51	12/08/23 17:43	1
Lead	0.00069	J	0.0010	0.00023	mg/L		12/07/23 15:51	12/08/23 17:43	1
Manganese	0.0095		0.0030	0.00051	mg/L		12/07/23 15:51	12/08/23 17:43	1
Molybdenum	0.0075		0.0020	0.00037	mg/L		12/07/23 15:51	12/08/23 17:43	1
Nickel	ND		0.0030	0.00083	mg/L		12/07/23 15:51	12/08/23 17:43	1
Selenium	ND		0.0050	0.0010	mg/L		12/07/23 15:51	12/08/23 17:43	1
Silver	ND		0.0010	0.000045	mg/L		12/07/23 15:51	12/08/23 17:43	1
Thallium	ND		0.0010	0.00021	mg/L		12/07/23 15:51	12/08/23 17:43	1
Uranium	0.00090	J	0.0010	0.000030	mg/L		12/07/23 15:51	12/08/23 17:43	1
Vanadium	ND		0.0050	0.0011	mg/L		12/07/23 15:51	12/08/23 17:43	1
Zinc	0.23		0.010	0.0020	mg/L		12/07/23 15:51	12/08/23 17:43	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 11/30/23 11:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00048	J	0.0020	0.00040	mg/L		12/07/23 15:51	12/11/23 14:33	1
Arsenic	0.00067	J	0.0050	0.00050	mg/L		12/07/23 15:51	12/08/23 17:45	1
Barium	0.057		0.0030	0.00038	mg/L		12/07/23 15:51	12/08/23 17:45	1
Beryllium	ND		0.0010	0.00030	mg/L		12/07/23 15:51	12/08/23 17:45	1
Cadmium	ND		0.0010	0.00019	mg/L		12/07/23 15:51	12/08/23 17:45	1
Chromium	ND		0.0030	0.00050	mg/L		12/07/23 15:51	12/08/23 17:45	1
Cobalt	ND		0.0010	0.00033	mg/L		12/07/23 15:51	12/08/23 17:45	1
Copper	ND		0.0020	0.00071	mg/L		12/07/23 15:51	12/08/23 17:45	1
Lead	0.00024	J	0.0010	0.00023	mg/L		12/07/23 15:51	12/08/23 17:45	1
Manganese	ND		0.0030	0.00051	mg/L		12/07/23 15:51	12/08/23 17:45	1
Molybdenum	0.0069		0.0020	0.00037	mg/L		12/07/23 15:51	12/08/23 17:45	1
Nickel	ND		0.0030	0.00083	mg/L		12/07/23 15:51	12/08/23 17:45	1
Selenium	ND		0.0050	0.0010	mg/L		12/07/23 15:51	12/08/23 17:45	1
Silver	ND		0.0010	0.000045	mg/L		12/07/23 15:51	12/08/23 17:45	1
Thallium	ND		0.0010	0.00021	mg/L		12/07/23 15:51	12/08/23 17:45	1
Uranium	0.0064		0.0010	0.000030	mg/L		12/07/23 15:51	12/08/23 17:45	1
Vanadium	ND		0.0050	0.0011	mg/L		12/07/23 15:51	12/08/23 17:45	1
Zinc	0.0079	J	0.010	0.0020	mg/L		12/07/23 15:51	12/08/23 17:45	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 245.1 - Mercury (CVAA) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 11/30/23 13:00

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/08/23 15:10	12/09/23 00:14	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/08/23 15:10	12/09/23 00:22	1

Client Sample ID: COMPLIANCE 02

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/08/23 15:10	12/09/23 00:24	1

Client Sample ID: COMPLIANCE 03

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/08/23 15:10	12/09/23 00:27	1

Client Sample ID: CARIBOU WELL

Date Collected: 11/30/23 11:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/08/23 15:10	12/09/23 00:29	1

Client Sample ID: CROSS PORTAL

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/08/23 15:10	12/09/23 00:32	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/08/23 15:10	12/09/23 00:40	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 11/30/23 11:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/08/23 15:10	12/09/23 00:42	1

General Chemistry

Client Sample ID: CROSS WELL

Date Collected: 11/30/23 13:00

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/12/23 17:19	1
Nitrate as N (EPA 300.0)	0.35	J	0.50	0.090	mg/L			12/01/23 07:03	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

General Chemistry (Continued)

Client Sample ID: CROSS WELL

Date Collected: 11/30/23 13:00

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	0.057	J	0.50	0.049	mg/L			12/01/23 07:03	1
Nitrate Nitrite as N (EPA 353.2)	0.34		0.10	0.044	mg/L			12/12/23 17:32	1
Total Dissolved Solids (TDS) (SM 2540C)	89		10	4.7	mg/L			12/06/23 11:33	1
Chloride (SM 4500 Cl- E)	3.6		2.0	0.68	mg/L			12/06/23 11:47	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			12/11/23 13:37	1
Sulfate (SM 4500 SO4 E)	9.2		5.0	0.71	mg/L			12/05/23 16:31	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/12/23 16:57	1
Nitrate as N (EPA 300.0)	0.34	J	0.50	0.090	mg/L			12/01/23 07:18	1
Nitrite as N (EPA 300.0)	0.057	J	0.50	0.049	mg/L			12/01/23 07:18	1
Nitrate Nitrite as N (EPA 353.2)	0.34		0.10	0.044	mg/L			12/12/23 17:33	1
Total Dissolved Solids (TDS) (SM 2540C)	93		10	4.7	mg/L			12/07/23 11:02	1
Chloride (SM 4500 Cl- E)	3.2		2.0	0.68	mg/L			12/06/23 11:47	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			12/11/23 13:45	1
Sulfate (SM 4500 SO4 E)	8.8		5.0	0.71	mg/L			12/05/23 16:32	1

Client Sample ID: COMPLIANCE 02

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/12/23 17:08	1
Nitrate as N (EPA 300.0)	0.34	J	0.50	0.090	mg/L			12/01/23 07:33	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			12/01/23 07:33	1
Nitrate Nitrite as N (EPA 353.2)	0.33		0.10	0.044	mg/L			12/12/23 17:34	1
Total Dissolved Solids (TDS) (SM 2540C)	88		10	4.7	mg/L			12/07/23 11:02	1
Chloride (SM 4500 Cl- E)	3.3		2.0	0.68	mg/L			12/06/23 11:47	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			12/11/23 13:48	1
Sulfate (SM 4500 SO4 E)	8.8		5.0	0.71	mg/L			12/05/23 16:33	1

Client Sample ID: COMPLIANCE 03

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/12/23 17:30	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			12/01/23 07:48	1
Nitrite as N (EPA 300.0)	0.055	J	0.50	0.049	mg/L			12/01/23 07:48	1
Nitrate Nitrite as N (EPA 353.2)	0.056	J	0.10	0.044	mg/L			12/12/23 17:44	1
Total Dissolved Solids (TDS) (SM 2540C)	ND		10	4.7	mg/L			12/07/23 11:02	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/06/23 11:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			12/11/23 13:51	1
Sulfate (SM 4500 SO4 E)	ND		5.0	0.71	mg/L			12/05/23 16:33	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

General Chemistry

Client Sample ID: CARIBOU WELL

Date Collected: 11/30/23 11:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/12/23 16:46	1
Nitrate as N (EPA 300.0)	0.14	J	0.50	0.090	mg/L			12/01/23 08:03	1
Nitrite as N (EPA 300.0)	0.055	J	0.50	0.049	mg/L			12/01/23 08:03	1
Nitrate Nitrite as N (EPA 353.2)	0.093	J	0.10	0.044	mg/L			12/12/23 17:46	1
Total Dissolved Solids (TDS) (SM 2540C)	160		40	19	mg/L			12/07/23 11:02	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/06/23 11:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			12/11/23 13:53	1
Sulfate (SM 4500 SO4 E)	2.3	J	5.0	0.71	mg/L			12/05/23 16:33	1

Client Sample ID: CROSS PORTAL

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/12/23 16:35	1
Nitrate as N (EPA 300.0)	0.11	J	0.50	0.090	mg/L			12/01/23 08:18	1
Nitrite as N (EPA 300.0)	0.054	J	0.50	0.049	mg/L			12/01/23 08:18	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			12/12/23 17:47	1
Total Dissolved Solids (TDS) (SM 2540C)	460		40	19	mg/L			12/07/23 11:02	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/06/23 11:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			12/11/23 13:56	1
Sulfate (SM 4500 SO4 E)	10		5.0	0.71	mg/L			12/05/23 16:33	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/12/23 15:40	1
Nitrate as N (EPA 300.0)	0.11	J	0.50	0.090	mg/L			12/01/23 09:03	1
Nitrite as N (EPA 300.0)	0.054	J	0.50	0.049	mg/L			12/01/23 09:03	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			12/12/23 18:07	1
Total Dissolved Solids (TDS) (SM 2540C)	110		10	4.7	mg/L			12/07/23 11:02	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/06/23 11:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			12/11/23 13:59	1
Sulfate (SM 4500 SO4 E)	10		5.0	0.71	mg/L			12/05/23 16:33	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 11/30/23 11:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/12/23 16:24	1
Nitrate as N (EPA 300.0)	0.16	J	0.50	0.090	mg/L			12/01/23 09:18	1
Nitrite as N (EPA 300.0)	0.054	J	0.50	0.049	mg/L			12/01/23 09:18	1
Nitrate Nitrite as N (EPA 353.2)	0.11		0.10	0.044	mg/L			12/12/23 18:08	1
Total Dissolved Solids (TDS) (SM 2540C)	130		10	4.7	mg/L			12/07/23 11:02	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/06/23 11:50	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			12/11/23 14:01	1
Sulfate (SM 4500 SO4 E)	9.7		5.0	0.71	mg/L			12/05/23 16:35	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Client Sample ID: CROSS WELL
Date Collected: 11/30/23 13:00
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.164	U	0.774	0.774	3.00	1.55	pCi/L	12/05/23 09:00	12/13/23 17:52	1
Gross Beta	0.804	U	0.553	0.559	4.00	0.853	pCi/L	12/05/23 09:00	12/13/23 17:52	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 11/30/23 13:30
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.20	U	1.25	1.26	3.00	2.03	pCi/L	12/05/23 09:00	12/13/23 19:09	1
Gross Beta	1.91		0.697	0.723	4.00	0.921	pCi/L	12/05/23 09:00	12/13/23 19:09	1

Client Sample ID: COMPLIANCE 02
Date Collected: 11/30/23 13:30
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.756	U	0.932	0.936	3.00	1.54	pCi/L	12/05/23 09:00	12/13/23 19:09	1
Gross Beta	0.741	U	0.555	0.560	4.00	0.847	pCi/L	12/05/23 09:00	12/13/23 19:09	1

Client Sample ID: COMPLIANCE 03
Date Collected: 11/30/23 13:30
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.510	U	0.753	0.755	3.00	1.27	pCi/L	12/05/23 09:00	12/13/23 19:09	1
Gross Beta	-0.143	U	0.429	0.429	4.00	0.789	pCi/L	12/05/23 09:00	12/13/23 19:09	1

Client Sample ID: CARIBOU WELL
Date Collected: 11/30/23 11:30
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.191	U	0.582	0.582	3.00	1.06	pCi/L	12/05/23 09:00	12/13/23 19:09	1
Gross Beta	1.12		0.577	0.588	4.00	0.841	pCi/L	12/05/23 09:00	12/13/23 19:09	1

Client Sample ID: CROSS PORTAL
Date Collected: 11/30/23 12:15
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.433	U	1.16	1.16	3.00	2.31	pCi/L	12/05/23 09:00	12/13/23 19:09	1
Gross Beta	1.58		0.614	0.634	4.00	0.828	pCi/L	12/05/23 09:00	12/13/23 19:09	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Client Sample ID: CROSS PORTAL 02

Date Collected: 11/30/23 12:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-7

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.70	U	1.62	1.64	3.00	2.61	pCi/L	12/05/23 09:00	12/13/23 19:09	1
Gross Beta	1.05	U	0.734	0.742	4.00	1.12	pCi/L	12/05/23 09:00	12/13/23 19:09	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 11/30/23 11:15

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-8

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	6.29	G	2.45	2.55	3.00	3.20	pCi/L	12/05/23 09:00	12/13/23 19:10	1
Gross Beta	1.66		0.785	0.802	4.00	1.04	pCi/L	12/05/23 09:00	12/13/23 19:10	1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 11/30/23 13:00

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-1

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-5.46	U	11.2	11.2	20.0	19.1	pCi/L	12/05/23 13:37	12/08/23 15:24	1
Other Detected										
Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	166		31.8	37.4		26.4	pCi/L	12/05/23 13:37	12/08/23 15:24	1
Pb-214	125		26.2	30.0		28.6	pCi/L	12/05/23 13:37	12/08/23 15:24	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-2

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-1.87	U G	12.7	12.7	20.0	22.0	pCi/L	12/05/23 13:37	12/08/23 15:24	1
Other Detected										
Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	400		47.3	67.1		31.3	pCi/L	12/05/23 13:37	12/08/23 15:24	1
Pb-214	323		32.5	50.3		27.3	pCi/L	12/05/23 13:37	12/08/23 15:24	1

Client Sample ID: COMPLIANCE 02

Date Collected: 11/30/23 13:30

Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-3

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	5.92	U	9.63	9.66	20.0	16.2	pCi/L	12/05/23 13:37	12/08/23 16:29	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved (Continued)

			Count	Total							
Other Detected			Uncert.	Uncert.							
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Bi-214	241		47.4	55.4		39.5	pCi/L	12/05/23 13:37	12/08/23 16:29	1	
Pb-214	232		32.4	42.5		30.9	pCi/L	12/05/23 13:37	12/08/23 16:29	1	

Client Sample ID: COMPLIANCE 03
Date Collected: 11/30/23 13:30
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-4
Matrix: Water

			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Cesium-137	-7.51	U G	12.7	12.8	20.0	21.4	pCi/L	12/05/23 13:37	12/08/23 16:30	1	
Other Detected			Uncert.	Uncert.							
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Other Detected Radionuclide	None						pCi/L	12/05/23 13:37	12/08/23 16:30	1	

Client Sample ID: CARIBOU WELL
Date Collected: 11/30/23 11:30
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-5
Matrix: Water

			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Cesium-137	0.587	U G	14.2	14.2	20.0	25.7	pCi/L	12/05/23 13:37	12/11/23 11:48	1	
Other Detected			Uncert.	Uncert.							
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Other Detected Radionuclide	None						pCi/L	12/05/23 13:37	12/11/23 11:48	1	

Client Sample ID: CROSS PORTAL
Date Collected: 11/30/23 12:15
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-6
Matrix: Water

			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Cesium-137	-2.88	U	9.07	9.08	20.0	15.8	pCi/L	12/05/23 13:37	12/11/23 11:47	1	
Other Detected			Uncert.	Uncert.							
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Other Detected Radionuclide	None						pCi/L	12/05/23 13:37	12/11/23 11:47	1	

Client Sample ID: CROSS PORTAL 02
Date Collected: 11/30/23 12:15
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-7
Matrix: Water

			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Cesium-137	0.000	U	1.60	1.60	20.0	14.4	pCi/L	12/05/23 13:37	12/11/23 11:46	1	

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved (Continued)

			Count	Total						
<i>Other Detected</i>			<i>Uncert.</i>	<i>Uncert.</i>						
<i>Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>(2σ+/-)</i>	<i>(2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Pb-210	565		203	214		254	pCi/L	12/05/23 13:37	12/11/23 11:46	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 11/30/23 11:15
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-8
Matrix: Water

			Count	Total						
			<i>Uncert.</i>	<i>Uncert.</i>						
<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>(2σ+/-)</i>	<i>(2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	-2.92	U G	15.3	15.3	20.0	27.1	pCi/L	12/05/23 13:37	12/11/23 13:04	1

			Count	Total						
<i>Other Detected</i>			<i>Uncert.</i>	<i>Uncert.</i>						
<i>Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>(2σ+/-)</i>	<i>(2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Other Detected Radionuclide	None						pCi/L	12/05/23 13:37	12/11/23 13:04	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-636425/1-A

Matrix: Water

Analysis Batch: 636762

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 636425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/07/23 15:51	12/08/23 19:31	1
Boron	ND		0.10	0.0015	mg/L		12/07/23 15:51	12/08/23 19:31	1
Iron	0.0118	J	0.10	0.0091	mg/L		12/07/23 15:51	12/08/23 19:31	1
Lithium	ND		0.020	0.0091	mg/L		12/07/23 15:51	12/08/23 19:31	1

Lab Sample ID: LCS 280-636425/2-A

Matrix: Water

Analysis Batch: 636762

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 636425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.81		mg/L		98	87 - 111
Boron	2.00	1.90		mg/L		95	86 - 110
Iron	10.0	9.88		mg/L		99	85 - 115
Lithium	1.00	0.990		mg/L		99	90 - 112

Lab Sample ID: 160-52210-A-4-B MS

Matrix: Water

Analysis Batch: 636762

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 636425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		10.0	9.70		mg/L		97	70 - 130
Boron	0.039	J	2.00	1.95		mg/L		96	70 - 130
Iron	ND		10.0	9.60		mg/L		96	70 - 130
Lithium	0.011	J	1.00	0.990		mg/L		98	70 - 130

Lab Sample ID: 160-52210-A-4-C MSD

Matrix: Water

Analysis Batch: 636762

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 636425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.87		mg/L		99	70 - 130	2	20
Boron	0.039	J	2.00	1.98		mg/L		97	70 - 130	1	20
Iron	ND		10.0	9.76		mg/L		98	70 - 130	2	20
Lithium	0.011	J	1.00	1.01		mg/L		99	70 - 130	2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-636425/1-A

Matrix: Water

Analysis Batch: 636786

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 636425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.0020	0.00040	mg/L		12/07/23 15:51	12/08/23 17:25	1
Arsenic	ND		0.0050	0.00050	mg/L		12/07/23 15:51	12/08/23 17:25	1
Barium	ND		0.0030	0.00038	mg/L		12/07/23 15:51	12/08/23 17:25	1
Beryllium	ND		0.0010	0.00030	mg/L		12/07/23 15:51	12/08/23 17:25	1
Cadmium	ND		0.0010	0.00019	mg/L		12/07/23 15:51	12/08/23 17:25	1
Chromium	ND		0.0030	0.00050	mg/L		12/07/23 15:51	12/08/23 17:25	1
Cobalt	ND		0.0010	0.00033	mg/L		12/07/23 15:51	12/08/23 17:25	1
Copper	ND		0.0020	0.00071	mg/L		12/07/23 15:51	12/08/23 17:25	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-636425/1-A

Matrix: Water

Analysis Batch: 636786

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 636425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0010	0.00023	mg/L		12/07/23 15:51	12/08/23 17:25	1
Manganese	ND		0.0030	0.00051	mg/L		12/07/23 15:51	12/08/23 17:25	1
Molybdenum	ND		0.0020	0.00037	mg/L		12/07/23 15:51	12/08/23 17:25	1
Nickel	ND		0.0030	0.00083	mg/L		12/07/23 15:51	12/08/23 17:25	1
Selenium	ND		0.0050	0.0010	mg/L		12/07/23 15:51	12/08/23 17:25	1
Silver	ND		0.0010	0.000045	mg/L		12/07/23 15:51	12/08/23 17:25	1
Thallium	ND		0.0010	0.00021	mg/L		12/07/23 15:51	12/08/23 17:25	1
Uranium	ND		0.0010	0.000030	mg/L		12/07/23 15:51	12/08/23 17:25	1
Vanadium	ND		0.0050	0.0011	mg/L		12/07/23 15:51	12/08/23 17:25	1
Zinc	ND		0.010	0.0020	mg/L		12/07/23 15:51	12/08/23 17:25	1

Lab Sample ID: LCS 280-636425/25-A

Matrix: Water

Analysis Batch: 636786

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 636425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0415	^1+	mg/L		104	85 - 115
Arsenic	0.0400	0.0399		mg/L		100	89 - 111
Barium	0.0400	0.0420		mg/L		105	89 - 115
Beryllium	0.0400	0.0413		mg/L		103	85 - 115
Cadmium	0.0400	0.0424		mg/L		106	89 - 111
Chromium	0.0400	0.0398		mg/L		100	86 - 115
Cobalt	0.0400	0.0398		mg/L		100	92 - 115
Copper	0.0400	0.0404		mg/L		101	90 - 115
Lead	0.0400	0.0402		mg/L		100	88 - 115
Manganese	0.0400	0.0398		mg/L		100	87 - 115
Molybdenum	0.0400	0.0407		mg/L		102	89 - 112
Nickel	0.0400	0.0389		mg/L		97	86 - 115
Selenium	0.0400	0.0394		mg/L		99	85 - 114
Silver	0.0400	0.0414		mg/L		103	90 - 114
Thallium	0.0400	0.0403		mg/L		101	86 - 115
Uranium	0.0400	0.0407		mg/L		102	85 - 115
Vanadium	0.0400	0.0419		mg/L		105	90 - 115
Zinc	0.0400	0.0404		mg/L		101	88 - 115

Lab Sample ID: 160-52210-A-4-E MS

Matrix: Water

Analysis Batch: 636786

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 636425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	^1+	0.0400	0.0375	^1+	mg/L		94	85 - 115
Arsenic	0.00050	J	0.0400	0.0392		mg/L		98	79 - 120
Barium	0.033		0.0400	0.0690		mg/L		91	89 - 115
Beryllium	ND		0.0400	0.0375		mg/L		94	85 - 115
Cadmium	ND		0.0400	0.0378		mg/L		95	89 - 111
Chromium	0.0063		0.0400	0.0428		mg/L		91	86 - 115
Cobalt	ND	F1	0.0400	0.0366	F1	mg/L		91	92 - 115
Copper	ND		0.0400	0.0376		mg/L		94	90 - 115
Lead	ND		0.0400	0.0380		mg/L		95	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-52210-A-4-E MS

Matrix: Water

Analysis Batch: 636786

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 636425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	ND		0.0400	0.0378		mg/L		94	87 - 115
Molybdenum	0.00043	J	0.0400	0.0393		mg/L		97	89 - 112
Nickel	0.0014	J	0.0400	0.0380		mg/L		91	86 - 115
Selenium	0.0012	J	0.0400	0.0371		mg/L		90	85 - 114
Silver	ND		0.0400	0.0388		mg/L		97	70 - 130
Thallium	ND		0.0400	0.0369		mg/L		92	86 - 115
Uranium	0.00023	J	0.0400	0.0392		mg/L		97	85 - 115
Vanadium	0.0012	J	0.0400	0.0384		mg/L		93	90 - 115
Zinc	ND		0.0400	0.0392		mg/L		98	88 - 115

Lab Sample ID: 160-52210-A-4-F MSD

Matrix: Water

Analysis Batch: 636786

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 636425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	^1+	0.0400	0.0409	^1+	mg/L		102	85 - 115	9	20
Arsenic	0.00050	J	0.0400	0.0412		mg/L		103	79 - 120	5	20
Barium	0.033		0.0400	0.0753		mg/L		107	89 - 115	9	20
Beryllium	ND		0.0400	0.0401		mg/L		100	85 - 115	7	20
Cadmium	ND		0.0400	0.0427		mg/L		107	89 - 111	12	20
Chromium	0.0063		0.0400	0.0463		mg/L		100	86 - 115	8	20
Cobalt	ND	F1	0.0400	0.0395		mg/L		99	92 - 115	8	20
Copper	ND		0.0400	0.0394		mg/L		98	90 - 115	5	20
Lead	ND		0.0400	0.0408		mg/L		102	88 - 115	7	20
Manganese	ND		0.0400	0.0393		mg/L		98	87 - 115	4	20
Molybdenum	0.00043	J	0.0400	0.0426		mg/L		105	89 - 112	8	20
Nickel	0.0014	J	0.0400	0.0406		mg/L		98	86 - 115	7	20
Selenium	0.0012	J	0.0400	0.0415		mg/L		101	85 - 114	11	20
Silver	ND		0.0400	0.0411		mg/L		103	70 - 130	6	20
Thallium	ND		0.0400	0.0398		mg/L		100	86 - 115	8	20
Uranium	0.00023	J	0.0400	0.0417		mg/L		104	85 - 115	6	20
Vanadium	0.0012	J	0.0400	0.0405		mg/L		98	90 - 115	5	20
Zinc	ND		0.0400	0.0412		mg/L		103	88 - 115	5	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-636679/1-A

Matrix: Water

Analysis Batch: 636840

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 636679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/08/23 15:10	12/09/23 00:09	1

Lab Sample ID: LCS 280-636679/2-A

Matrix: Water

Analysis Batch: 636840

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 636679

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00512		mg/L		102	90 - 110

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 280-185119-1 MS

Matrix: Water

Analysis Batch: 636840

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 636679

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Mercury	ND		0.00500	0.00504		mg/L		101	80 - 120	

Lab Sample ID: 280-185119-1 MSD

Matrix: Water

Analysis Batch: 636840

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 636679

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	ND		0.00500	0.00499		mg/L		100	80 - 120	1	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-635715/39

Matrix: Water

Analysis Batch: 635715

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			12/01/23 05:04	1
Nitrite as N	ND		0.50	0.049	mg/L			12/01/23 05:04	1

Lab Sample ID: LCS 280-635715/37

Matrix: Water

Analysis Batch: 635715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Nitrate as N	5.00	5.04		mg/L		101	90 - 110	
Nitrite as N	5.00	5.15		mg/L		103	90 - 110	

Lab Sample ID: LCSD 280-635715/38

Matrix: Water

Analysis Batch: 635715

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Nitrate as N	5.00	5.04		mg/L		101	90 - 110	0	10
Nitrite as N	5.00	5.16		mg/L		103	90 - 110	0	10

Lab Sample ID: MRL 280-635715/3

Matrix: Water

Analysis Batch: 635715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Nitrate as N	0.500	0.483	J	mg/L		97	50 - 150	
Nitrite as N	0.500	0.491	J	mg/L		98	50 - 150	

Lab Sample ID: 280-185098-B-1 MS

Matrix: Water

Analysis Batch: 635715

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Nitrate as N	ND		5.00	4.83		mg/L		97	80 - 120	
Nitrite as N	ND		5.00	4.84		mg/L		97	80 - 120	

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-185098-B-1 MSD

Matrix: Water

Analysis Batch: 635715

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	4.86		mg/L		97	80 - 120	1	20
Nitrite as N	ND		5.00	4.86		mg/L		97	80 - 120	0	20

Lab Sample ID: 280-185098-B-1 DU

Matrix: Water

Analysis Batch: 635715

Client Sample ID: Duplicate

Prep Type: Total/NA

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

Lab Sample ID: MB 280-636986/6

Matrix: Water

Analysis Batch: 636986

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			12/12/23 15:29	1

Lab Sample ID: LCS 280-636986/4

Matrix: Water

Analysis Batch: 636986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	4.74		mg/L		95	90 - 110

Lab Sample ID: LCSD 280-636986/5

Matrix: Water

Analysis Batch: 636986

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	4.70		mg/L		94	90 - 110	1	10

Lab Sample ID: MRL 280-636986/3

Matrix: Water

Analysis Batch: 636986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.500	0.435	J	mg/L		87	50 - 150

Lab Sample ID: 280-185119-7 MS

Matrix: Water

Analysis Batch: 636986

Client Sample ID: CROSS PORTAL 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	ND		5.00	4.85		mg/L		97	80 - 120

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-185119-7 MSD

Matrix: Water

Analysis Batch: 636986

Client Sample ID: CROSS PORTAL 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	ND		5.00	4.98		mg/L		100	80 - 120	3	20

Lab Sample ID: 280-185119-7 DU

Matrix: Water

Analysis Batch: 636986

Client Sample ID: CROSS PORTAL 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	ND		ND		mg/L		NC	15

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-637162/20

Matrix: Water

Analysis Batch: 637162

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			12/12/23 17:00	1

Lab Sample ID: MB 280-637162/60

Matrix: Water

Analysis Batch: 637162

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			12/12/23 17:51	1

Lab Sample ID: LCS 280-637162/19

Matrix: Water

Analysis Batch: 637162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	5.08		mg/L		102	90 - 110

Lab Sample ID: LCS 280-637162/59

Matrix: Water

Analysis Batch: 637162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	5.00	4.99		mg/L		100	90 - 110

Lab Sample ID: 280-184528-G-2 MS

Matrix: Water

Analysis Batch: 637162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	ND	F1	4.00	3.08	F1	mg/L		77	90 - 110

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 280-184528-G-2 MSD

Matrix: Water

Analysis Batch: 637162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	4.00	3.13	F1	mg/L		78	90 - 110	1	10

Lab Sample ID: 280-185074-E-2 MS

Matrix: Water

Analysis Batch: 637162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.055	J	4.00	4.19		mg/L		103	90 - 110		

Lab Sample ID: 280-185074-E-2 MSD

Matrix: Water

Analysis Batch: 637162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.055	J	4.00	4.20		mg/L		104	90 - 110	0	10

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

Lab Sample ID: MB 280-636286/1

Matrix: Water

Analysis Batch: 636286

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			12/06/23 11:33	1

Lab Sample ID: LCS 280-636286/2

Matrix: Water

Analysis Batch: 636286

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids (TDS)	504	492		mg/L		98	88 - 114		

Lab Sample ID: 280-185077-A-2 DU

Matrix: Water

Analysis Batch: 636286

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	1600		1600		mg/L				1

Lab Sample ID: MB 280-636443/1

Matrix: Water

Analysis Batch: 636443

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			12/07/23 11:02	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

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

Lab Sample ID: LCS 280-636443/2

Matrix: Water

Analysis Batch: 636443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids (TDS)	504	488		mg/L		97	88 - 114

Lab Sample ID: LCSD 280-636443/3

Matrix: Water

Analysis Batch: 636443

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids (TDS)	504	500		mg/L		99	88 - 114	2	20

Lab Sample ID: 280-185218-E-1 DU

Matrix: Water

Analysis Batch: 636443

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	510		504		mg/L		0.4	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-636338/15

Matrix: Water

Analysis Batch: 636338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			12/06/23 11:45	1

Lab Sample ID: LCS 280-636338/13

Matrix: Water

Analysis Batch: 636338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	18.6		mg/L		93	90 - 110

Lab Sample ID: LCSD 280-636338/14

Matrix: Water

Analysis Batch: 636338

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	18.5		mg/L		92	90 - 110	1	10

Lab Sample ID: 280-184536-A-2 MS

Matrix: Water

Analysis Batch: 636338

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	24		100	119		mg/L		95	90 - 110

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 280-184536-A-2 MSD

Matrix: Water

Analysis Batch: 636338

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	24		100	118		mg/L		95	90 - 110	0	10

Lab Sample ID: 280-184645-A-10 MS

Matrix: Water

Analysis Batch: 636338

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		20.0	18.8		mg/L		94	90 - 110		

Lab Sample ID: 280-184645-A-10 MSD

Matrix: Water

Analysis Batch: 636338

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		20.0	19.5		mg/L		97	90 - 110	4	10

Method: SM 4500 CN I - Cyanide, Weak Acid Dissociable

Lab Sample ID: MB 280-637170/20

Matrix: Water

Analysis Batch: 637170

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		0.010	0.0050	mg/L			12/11/23 13:35	1

Lab Sample ID: HLCS 280-637170/19

Matrix: Water

Analysis Batch: 637170

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	0.350	0.357		mg/L		102	75 - 120		

Lab Sample ID: LCS 280-637170/33

Matrix: Water

Analysis Batch: 637170

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	0.100	0.110		mg/L		110	75 - 120		

Lab Sample ID: LLCS 280-637170/18

Matrix: Water

Analysis Batch: 637170

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	0.100	0.105		mg/L		105	90 - 110		

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: SM 4500 CN I - Cyanide, Weak Acid Dissociable (Continued)

Lab Sample ID: 280-185119-1 MS

Matrix: Water

Analysis Batch: 637170

Client Sample ID: CROSS WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	ND		0.100	0.114		mg/L		114	75 - 120		

Lab Sample ID: 280-185119-1 MSD

Matrix: Water

Analysis Batch: 637170

Client Sample ID: CROSS WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	ND		0.100	0.102		mg/L		102	75 - 120	11	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 280-636201/14

Matrix: Water

Analysis Batch: 636201

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.71	mg/L			12/05/23 16:30	1

Lab Sample ID: LCS 280-636201/12

Matrix: Water

Analysis Batch: 636201

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	25.0	25.9		mg/L		104	90 - 110		

Lab Sample ID: LCSD 280-636201/13

Matrix: Water

Analysis Batch: 636201

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	25.0	25.9		mg/L		104	90 - 110	0	10

Lab Sample ID: 280-184536-A-2 MS

Matrix: Water

Analysis Batch: 636201

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	66		250	328		mg/L		105	90 - 110		

Lab Sample ID: 280-184536-A-2 MSD

Matrix: Water

Analysis Batch: 636201

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	66		250	331		mg/L		106	90 - 110	1	10

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 280-184645-A-10 MS

Matrix: Water

Analysis Batch: 636201

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	ND		25.0	24.8		mg/L		99	90 - 110

Lab Sample ID: 280-184645-A-10 MSD

Matrix: Water

Analysis Batch: 636201

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND		25.0	25.0		mg/L		100	90 - 110	1	10

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-639502/1-A

Matrix: Water

Analysis Batch: 640619

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 639502

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.2596	U	0.694	0.695	3.00	1.25	pCi/L	12/05/23 09:00	12/13/23 17:51	1
Gross Beta	0.2982	U	0.448	0.449	4.00	0.746	pCi/L	12/05/23 09:00	12/13/23 17:51	1

Lab Sample ID: LCS 160-639502/2-A

Matrix: Water

Analysis Batch: 640619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 639502

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	49.3	47.55		6.92	3.00	2.12	pCi/L	97	75 - 125

Lab Sample ID: LCSB 160-639502/3-A

Matrix: Water

Analysis Batch: 640619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 639502

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	72.2	67.77		7.30	4.00	0.775	pCi/L	94	75 - 125

Lab Sample ID: 160-52430-A-1-B MS

Matrix: Water

Analysis Batch: 640618

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 639502

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	9.24	U G	328	173.7	F1	33.4	3.00	18.2	pCi/L	50	60 - 140

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: 160-52430-A-1-C MSBT
Matrix: Water
Analysis Batch: 640619

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 639502

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	14.4	G	481	462.8	G	49.8	4.00	5.53	pCi/L	93	60 - 140

Lab Sample ID: 160-52430-A-1-D DU
Matrix: Water
Analysis Batch: 640618

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 639502

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Gross Alpha	9.24	U G	0.7633	U G	11.2	3.00	21.1	pCi/L	0.36	1
Gross Beta	14.4	G	25.40	G	6.19	4.00	6.60	pCi/L	0.97	1

Method: 901.1 - Cesium 137 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-639541/1-A
Matrix: Water
Analysis Batch: 640052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639541

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-0.2934	U G	14.0	14.0	20.0	25.5	pCi/L	12/05/23 13:37	12/08/23 15:25	1
Other Detected Radionuclides	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide	None						pCi/L	12/05/23 13:37	12/08/23 15:25	1

Lab Sample ID: LCS 160-639541/2-A
Matrix: Water
Analysis Batch: 640048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639541

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	135000	143600		17100		431	pCi/L	106	75 - 125
Cesium-137	40200	41770		4980	20.0	119	pCi/L	104	75 - 125
Cobalt-60	16300	16990		2030		74.4	pCi/L	105	75 - 125

Lab Sample ID: 280-185119-1 DU
Matrix: Water
Analysis Batch: 640052

Client Sample ID: CROSS WELL
Prep Type: Dissolved
Prep Batch: 639541

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Cesium-137	-5.46	U	-4.841	U G	14.6	20.0	25.4	pCi/L	0.02	1
Other Detected Radionuclides	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Bi-214	166		152.6		40.2		29.5	pCi/L	0.18	1
Pb-214	125		164.2		36.2		23.0	pCi/L	0.59	1

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Metals

Prep Batch: 636425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Dissolved	Water	200.8	
280-185119-2	COMPLIANCE WELL	Dissolved	Water	200.8	
280-185119-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-185119-4	COMPLIANCE 03	Dissolved	Water	200.8	
280-185119-5	CARIBOU WELL	Dissolved	Water	200.8	
280-185119-6	CROSS PORTAL	Dissolved	Water	200.8	
280-185119-7	CROSS PORTAL 02	Dissolved	Water	200.8	
280-185119-8	CARIBOU PORTAL	Dissolved	Water	200.8	
MB 280-636425/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-636425/25-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-636425/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
160-52210-A-4-B MS	Matrix Spike	Dissolved	Water	200.8	
160-52210-A-4-C MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	
160-52210-A-4-E MS	Matrix Spike	Dissolved	Water	200.8	
160-52210-A-4-F MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	

Prep Batch: 636679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Dissolved	Water	245.1	
280-185119-2	COMPLIANCE WELL	Dissolved	Water	245.1	
280-185119-3	COMPLIANCE 02	Dissolved	Water	245.1	
280-185119-4	COMPLIANCE 03	Dissolved	Water	245.1	
280-185119-5	CARIBOU WELL	Dissolved	Water	245.1	
280-185119-6	CROSS PORTAL	Dissolved	Water	245.1	
280-185119-7	CROSS PORTAL 02	Dissolved	Water	245.1	
280-185119-8	CARIBOU PORTAL	Dissolved	Water	245.1	
MB 280-636679/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-636679/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-185119-1 MS	CROSS WELL	Dissolved	Water	245.1	
280-185119-1 MSD	CROSS WELL	Dissolved	Water	245.1	

Analysis Batch: 636762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	636425
280-185119-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	636425
280-185119-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	636425
280-185119-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	636425
280-185119-5	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	636425
280-185119-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	636425
280-185119-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	636425
280-185119-8	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	636425
MB 280-636425/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	636425
LCS 280-636425/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	636425
160-52210-A-4-B MS	Matrix Spike	Dissolved	Water	200.7 Rev 4.4	636425
160-52210-A-4-C MSD	Matrix Spike Duplicate	Dissolved	Water	200.7 Rev 4.4	636425

Analysis Batch: 636786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Dissolved	Water	200.8	636425
280-185119-2	COMPLIANCE WELL	Dissolved	Water	200.8	636425
280-185119-3	COMPLIANCE 02	Dissolved	Water	200.8	636425

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Metals (Continued)

Analysis Batch: 636786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-4	COMPLIANCE 03	Dissolved	Water	200.8	636425
280-185119-5	CARIBOU WELL	Dissolved	Water	200.8	636425
280-185119-6	CROSS PORTAL	Dissolved	Water	200.8	636425
280-185119-7	CROSS PORTAL 02	Dissolved	Water	200.8	636425
280-185119-8	CARIBOU PORTAL	Dissolved	Water	200.8	636425
MB 280-636425/1-A	Method Blank	Total Recoverable	Water	200.8	636425
LCS 280-636425/25-A	Lab Control Sample	Total Recoverable	Water	200.8	636425
160-52210-A-4-E MS	Matrix Spike	Dissolved	Water	200.8	636425
160-52210-A-4-F MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	636425

Analysis Batch: 636840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Dissolved	Water	245.1	636679
280-185119-2	COMPLIANCE WELL	Dissolved	Water	245.1	636679
280-185119-3	COMPLIANCE 02	Dissolved	Water	245.1	636679
280-185119-4	COMPLIANCE 03	Dissolved	Water	245.1	636679
280-185119-5	CARIBOU WELL	Dissolved	Water	245.1	636679
280-185119-6	CROSS PORTAL	Dissolved	Water	245.1	636679
280-185119-7	CROSS PORTAL 02	Dissolved	Water	245.1	636679
280-185119-8	CARIBOU PORTAL	Dissolved	Water	245.1	636679
MB 280-636679/1-A	Method Blank	Total/NA	Water	245.1	636679
LCS 280-636679/2-A	Lab Control Sample	Total/NA	Water	245.1	636679
280-185119-1 MS	CROSS WELL	Dissolved	Water	245.1	636679
280-185119-1 MSD	CROSS WELL	Dissolved	Water	245.1	636679

Analysis Batch: 636934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-6	CROSS PORTAL	Dissolved	Water	200.8	636425
280-185119-7	CROSS PORTAL 02	Dissolved	Water	200.8	636425
280-185119-8	CARIBOU PORTAL	Dissolved	Water	200.8	636425

General Chemistry

Analysis Batch: 635715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Total/NA	Water	300.0	
280-185119-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-185119-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-185119-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-185119-5	CARIBOU WELL	Total/NA	Water	300.0	
280-185119-6	CROSS PORTAL	Total/NA	Water	300.0	
280-185119-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-185119-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-635715/39	Method Blank	Total/NA	Water	300.0	
LCS 280-635715/37	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-635715/38	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-635715/3	Lab Control Sample	Total/NA	Water	300.0	
280-185098-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-185098-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-185098-B-1 DU	Duplicate	Total/NA	Water	300.0	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

General Chemistry

Analysis Batch: 636201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
280-185119-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 SO4 E	
280-185119-3	COMPLIANCE 02	Total/NA	Water	SM 4500 SO4 E	
280-185119-4	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-185119-5	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-185119-6	CROSS PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-185119-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 SO4 E	
280-185119-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
MB 280-636201/14	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 280-636201/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-636201/13	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
280-184536-A-2 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
280-184536-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
280-184645-A-10 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
280-184645-A-10 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 636286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Total/NA	Water	SM 2540C	
MB 280-636286/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-636286/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-185077-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 636338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Total/NA	Water	SM 4500 Cl- E	
280-185119-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 Cl- E	
280-185119-3	COMPLIANCE 02	Total/NA	Water	SM 4500 Cl- E	
280-185119-4	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	
280-185119-5	CARIBOU WELL	Total/NA	Water	SM 4500 Cl- E	
280-185119-6	CROSS PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-185119-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 Cl- E	
280-185119-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	
MB 280-636338/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-636338/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-636338/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-184536-A-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
280-184536-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
280-184645-A-10 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
280-184645-A-10 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 636443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-2	COMPLIANCE WELL	Total/NA	Water	SM 2540C	
280-185119-3	COMPLIANCE 02	Total/NA	Water	SM 2540C	
280-185119-4	COMPLIANCE 03	Total/NA	Water	SM 2540C	
280-185119-5	CARIBOU WELL	Total/NA	Water	SM 2540C	
280-185119-6	CROSS PORTAL	Total/NA	Water	SM 2540C	
280-185119-7	CROSS PORTAL 02	Total/NA	Water	SM 2540C	
280-185119-8	CARIBOU PORTAL	Total/NA	Water	SM 2540C	
MB 280-636443/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

General Chemistry (Continued)

Analysis Batch: 636443 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-636443/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-636443/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-185218-E-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 636986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Total/NA	Water	300.0	
280-185119-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-185119-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-185119-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-185119-5	CARIBOU WELL	Total/NA	Water	300.0	
280-185119-6	CROSS PORTAL	Total/NA	Water	300.0	
280-185119-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-185119-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-636986/6	Method Blank	Total/NA	Water	300.0	
LCS 280-636986/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-636986/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-636986/3	Lab Control Sample	Total/NA	Water	300.0	
280-185119-7 MS	CROSS PORTAL 02	Total/NA	Water	300.0	
280-185119-7 MSD	CROSS PORTAL 02	Total/NA	Water	300.0	
280-185119-7 DU	CROSS PORTAL 02	Total/NA	Water	300.0	

Analysis Batch: 637162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Total/NA	Water	353.2	
280-185119-2	COMPLIANCE WELL	Total/NA	Water	353.2	
280-185119-3	COMPLIANCE 02	Total/NA	Water	353.2	
280-185119-4	COMPLIANCE 03	Total/NA	Water	353.2	
280-185119-5	CARIBOU WELL	Total/NA	Water	353.2	
280-185119-6	CROSS PORTAL	Total/NA	Water	353.2	
280-185119-7	CROSS PORTAL 02	Total/NA	Water	353.2	
280-185119-8	CARIBOU PORTAL	Total/NA	Water	353.2	
MB 280-637162/20	Method Blank	Total/NA	Water	353.2	
MB 280-637162/60	Method Blank	Total/NA	Water	353.2	
LCS 280-637162/19	Lab Control Sample	Total/NA	Water	353.2	
LCS 280-637162/59	Lab Control Sample	Total/NA	Water	353.2	
280-184528-G-2 MS	Matrix Spike	Total/NA	Water	353.2	
280-184528-G-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
280-185074-E-2 MS	Matrix Spike	Total/NA	Water	353.2	
280-185074-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 637170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Total/NA	Water	SM 4500 CN I	
280-185119-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 CN I	
280-185119-3	COMPLIANCE 02	Total/NA	Water	SM 4500 CN I	
280-185119-4	COMPLIANCE 03	Total/NA	Water	SM 4500 CN I	
280-185119-5	CARIBOU WELL	Total/NA	Water	SM 4500 CN I	
280-185119-6	CROSS PORTAL	Total/NA	Water	SM 4500 CN I	
280-185119-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 CN I	
280-185119-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 CN I	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

General Chemistry (Continued)

Analysis Batch: 637170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-637170/20	Method Blank	Total/NA	Water	SM 4500 CN I	
HLCS 280-637170/19	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LCS 280-637170/33	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LLCS 280-637170/18	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
280-185119-1 MS	CROSS WELL	Total/NA	Water	SM 4500 CN I	
280-185119-1 MSD	CROSS WELL	Total/NA	Water	SM 4500 CN I	

Rad

Prep Batch: 639502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Dissolved	Water	Evaporation	
280-185119-2	COMPLIANCE WELL	Dissolved	Water	Evaporation	
280-185119-3	COMPLIANCE 02	Dissolved	Water	Evaporation	
280-185119-4	COMPLIANCE 03	Dissolved	Water	Evaporation	
280-185119-5	CARIBOU WELL	Dissolved	Water	Evaporation	
280-185119-6	CROSS PORTAL	Dissolved	Water	Evaporation	
280-185119-7	CROSS PORTAL 02	Dissolved	Water	Evaporation	
280-185119-8	CARIBOU PORTAL	Dissolved	Water	Evaporation	
MB 160-639502/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-639502/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-639502/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
160-52430-A-1-B MS	Matrix Spike	Total/NA	Water	Evaporation	
160-52430-A-1-C MSBT	Matrix Spike	Total/NA	Water	Evaporation	
160-52430-A-1-D DU	Duplicate	Total/NA	Water	Evaporation	

Prep Batch: 639541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185119-1	CROSS WELL	Dissolved	Water	Fill_Geo-0	
280-185119-2	COMPLIANCE WELL	Dissolved	Water	Fill_Geo-0	
280-185119-3	COMPLIANCE 02	Dissolved	Water	Fill_Geo-0	
280-185119-4	COMPLIANCE 03	Dissolved	Water	Fill_Geo-0	
280-185119-5	CARIBOU WELL	Dissolved	Water	Fill_Geo-0	
280-185119-6	CROSS PORTAL	Dissolved	Water	Fill_Geo-0	
280-185119-7	CROSS PORTAL 02	Dissolved	Water	Fill_Geo-0	
280-185119-8	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	
MB 160-639541/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-639541/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
280-185119-1 DU	CROSS WELL	Dissolved	Water	Fill_Geo-0	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-185119-1

Date Collected: 11/30/23 13:00

Matrix: Water

Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			636762	12/08/23 19:55	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636786	12/08/23 17:29	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	636679	12/08/23 15:10	KMS	EET DEN
Dissolved	Analysis	245.1		1			636840	12/09/23 00:14	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	635715	12/01/23 07:03	GPM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	636986	12/12/23 17:19	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	637162	12/12/23 17:32	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	636286	12/06/23 11:33	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	636338	12/06/23 11:47	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	637170	12/11/23 13:37	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	636201	12/05/23 16:31	SL	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	639502	12/05/23 09:00	ASG	EET SL
Dissolved	Analysis	900.0		1			640619	12/13/23 17:52	EMH	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	639541	12/05/23 13:37	SAC	EET SL
Dissolved	Analysis	901.1		1			640049	12/08/23 15:24	CAH	EET SL

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-185119-2

Date Collected: 11/30/23 13:30

Matrix: Water

Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			636762	12/08/23 19:59	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636786	12/08/23 17:32	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	636679	12/08/23 15:10	KMS	EET DEN
Dissolved	Analysis	245.1		1			636840	12/09/23 00:22	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	635715	12/01/23 07:18	GPM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	636986	12/12/23 16:57	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	637162	12/12/23 17:33	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	636443	12/07/23 11:02	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	636338	12/06/23 11:47	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	637170	12/11/23 13:45	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	636201	12/05/23 16:32	SL	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	639502	12/05/23 09:00	ASG	EET SL
Dissolved	Analysis	900.0		1			640618	12/13/23 19:09	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	639541	12/05/23 13:37	SAC	EET SL
Dissolved	Analysis	901.1		1			640048	12/08/23 15:24	CAH	EET SL

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-185119-3

Date Collected: 11/30/23 13:30

Matrix: Water

Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			636762	12/08/23 20:03	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636786	12/08/23 17:34	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	636679	12/08/23 15:10	KMS	EET DEN
Dissolved	Analysis	245.1		1			636840	12/09/23 00:24	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	635715	12/01/23 07:33	GPM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	636986	12/12/23 17:08	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	637162	12/12/23 17:34	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	636443	12/07/23 11:02	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	636338	12/06/23 11:47	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	637170	12/11/23 13:48	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	636201	12/05/23 16:33	SL	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	639502	12/05/23 09:00	ASG	EET SL
Dissolved	Analysis	900.0		1			640618	12/13/23 19:09	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	639541	12/05/23 13:37	SAC	EET SL
Dissolved	Analysis	901.1		1			640048	12/08/23 16:29	CAH	EET SL

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-185119-4

Date Collected: 11/30/23 13:30

Matrix: Water

Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			636762	12/08/23 20:07	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636786	12/08/23 17:36	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	636679	12/08/23 15:10	KMS	EET DEN
Dissolved	Analysis	245.1		1			636840	12/09/23 00:27	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	635715	12/01/23 07:48	GPM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	636986	12/12/23 17:30	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	637162	12/12/23 17:44	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	636443	12/07/23 11:02	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	636338	12/06/23 11:48	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	637170	12/11/23 13:51	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	636201	12/05/23 16:33	SL	EET DEN
Dissolved	Prep	Evaporation			199.97 mL	1.0 g	639502	12/05/23 09:00	ASG	EET SL
Dissolved	Analysis	900.0		1			640618	12/13/23 19:09	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	639541	12/05/23 13:37	SAC	EET SL
Dissolved	Analysis	901.1		1			640049	12/08/23 16:30	CAH	EET SL

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-185119-5

Date Collected: 11/30/23 11:30

Matrix: Water

Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			636762	12/08/23 20:11	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636786	12/08/23 17:38	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	636679	12/08/23 15:10	KMS	EET DEN
Dissolved	Analysis	245.1		1			636840	12/09/23 00:29	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	635715	12/01/23 08:03	GPM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	636986	12/12/23 16:46	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	637162	12/12/23 17:46	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	636443	12/07/23 11:02	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	636338	12/06/23 11:48	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	637170	12/11/23 13:53	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	636201	12/05/23 16:33	SL	EET DEN
Dissolved	Prep	Evaporation			199.99 mL	1.0 g	639502	12/05/23 09:00	ASG	EET SL
Dissolved	Analysis	900.0		1			640618	12/13/23 19:09	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	639541	12/05/23 13:37	SAC	EET SL
Dissolved	Analysis	901.1		1			640116	12/11/23 11:48	CAH	EET SL

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-185119-6

Date Collected: 11/30/23 12:15

Matrix: Water

Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			636762	12/08/23 20:15	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636786	12/08/23 17:41	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636934	12/11/23 14:28	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	636679	12/08/23 15:10	KMS	EET DEN
Dissolved	Analysis	245.1		1			636840	12/09/23 00:32	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	635715	12/01/23 08:18	GPM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	636986	12/12/23 16:35	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	637162	12/12/23 17:47	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	636443	12/07/23 11:02	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	636338	12/06/23 11:48	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	637170	12/11/23 13:56	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	636201	12/05/23 16:33	SL	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	639502	12/05/23 09:00	ASG	EET SL
Dissolved	Analysis	900.0		1			640618	12/13/23 19:09	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	639541	12/05/23 13:37	SAC	EET SL
Dissolved	Analysis	901.1		1			640115	12/11/23 11:47	CAH	EET SL

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-185119-7

Date Collected: 11/30/23 12:15

Matrix: Water

Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			636762	12/08/23 20:20	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636786	12/08/23 17:43	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636934	12/11/23 14:30	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	636679	12/08/23 15:10	KMS	EET DEN
Dissolved	Analysis	245.1		1			636840	12/09/23 00:40	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	635715	12/01/23 09:03	GPM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	636986	12/12/23 15:40	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	637162	12/12/23 18:07	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	636443	12/07/23 11:02	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	636338	12/06/23 11:48	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	637170	12/11/23 13:59	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	636201	12/05/23 16:33	SL	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	639502	12/05/23 09:00	ASG	EET SL
Dissolved	Analysis	900.0		1			640618	12/13/23 19:09	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	639541	12/05/23 13:37	SAC	EET SL
Dissolved	Analysis	901.1		1			640117	12/11/23 11:46	CAH	EET SL

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-185119-8

Date Collected: 11/30/23 11:15

Matrix: Water

Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			636762	12/08/23 20:24	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636786	12/08/23 17:45	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	636425	12/07/23 15:51	MSM	EET DEN
Dissolved	Analysis	200.8		1			636934	12/11/23 14:33	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	636679	12/08/23 15:10	KMS	EET DEN
Dissolved	Analysis	245.1		1			636840	12/09/23 00:42	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	635715	12/01/23 09:18	GPM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	636986	12/12/23 16:24	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	637162	12/12/23 18:08	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	636443	12/07/23 11:02	AKF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	636338	12/06/23 11:50	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	637170	12/11/23 14:01	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	636201	12/05/23 16:35	SL	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	639502	12/05/23 09:00	ASG	EET SL
Dissolved	Analysis	900.0		1			640618	12/13/23 19:10	FLC	EET SL

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Client Sample ID: CARIBOU PORTAL
Date Collected: 11/30/23 11:15
Date Received: 11/30/23 15:56

Lab Sample ID: 280-185119-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	639541	12/05/23 13:37	SAC	EET SL
Dissolved	Analysis	901.1		1			640116	12/11/23 13:04	CAH	EET SL

Laboratory References:
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24

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

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-185119-1

Laboratory: Eurofins St. Louis (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
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	12-31-23

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

Eurofins Denver

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-185119-1

Login Number: 185119

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

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

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-185119-1

Login Number: 185119

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 12/04/23 02:04 PM

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

APPENDIX A.3 DECEMBER 2023 GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

Generated 1/16/2024 12:32:00 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-186000-1

Eurofins Denver

Job Notes

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Authorization



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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	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.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.

Rad

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

Glossary

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

Case Narrative

Client: Grand Island Resources
Project: Nederland, CO - Groundwater

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Job Narrative 280-186000-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Radiochemistry data information:

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.

Eurofins Environment Testing attests to the validity of the laboratory data generated by Eurofins facilities reported herein. All analyses performed by Eurofins Environment Testing facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins Environment Testing's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed below.

All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy or unless requested as wet weight by the client.

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

The method blank (MB) z-score is within limits, unless stated otherwise below, and is stored in the level IV raw data.

This laboratory report is confidential and is intended for the sole use of Eurofins Environment Testing and its client.

Receipt

The samples were received on 12/21/2023 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.2°C, 1.8°C and 3.8°C

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

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Case Narrative

Client: Grand Island Resources
Project: Nederland, CO - Groundwater

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Method 200.7 Rev 4.4 - Metals (ICP)

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Metals (ICP). The samples were prepared on 1/2/2024 and analyzed on 1/3/2024, 1/4/2024 and 1/9/2024.

Method 200.8 - Metals (ICP/MS)

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Metals (ICP/MS). The samples were prepared on 1/2/2024 and analyzed on 1/3/2024 and 1/4/2024.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-638730 and analytical batch 280-639090 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The post digestion spike % recovery for Uranium associated with batch 280-639090 was outside of control limits. The associated sample is: (280-186000-D-1-G PDS).

Method 245.1 - Mercury (CVAA)

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Mercury (CVAA). The samples were prepared on 12/22/2023 and analyzed on 12/22/2023 and 1/3/2024.

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

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Solids, Total Dissolved (TDS). The samples were analyzed on 12/27/2023.

Method 300.0 - Anions, Ion Chromatography

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Anions, Ion Chromatography. The samples were prepared on 1/2/2024 and analyzed on 12/29/2023 and 1/4/2024.

The matrix spike (MS) recoveries for analytical batch 280-638702 were outside control limits for Fluoride. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300.0 - Anions, Ion Chromatography

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 12/22/2023.

Method 353.2 - Nitrogen, Nitrate-Nitrite

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Nitrogen, Nitrate-Nitrite. The samples were analyzed on 1/9/2024.

Method SM 4500 CN I - Cyanide, Free

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Cyanide, Free. The samples were prepared on 1/2/2024 and analyzed on 1/3/2024 and 1/4/2024.

Method SM 4500 Cl- E - Chloride, Total

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Chloride, Total. The samples were prepared on 1/2/2024 and analyzed on 1/3/2024.

Method SM 4500 SO4 E - Sulfate, Total

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Case Narrative

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Project: Nederland, CO - Groundwater

Job ID: 280-186000-1

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Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Sulfate, Total. The samples were analyzed on 1/3/2024.

Method 901.1 - Cesium 137 & Other Gamma Emitters (GS)

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Cesium 137 & Other Gamma Emitters (GS). The samples were prepared on 12/28/2023 and analyzed on 1/3/2024 and 1/4/2024.

Gamma prep batch 160- 642355

The detection goal of 20 pCi/L was not met for Cs-137 for the following sample. An elevated MDC can occur when higher background counts are applied to a peak ROI. This is due to the relatively small size of the peak or subsequent "force-fit" of the non-existent peak which resulted in higher than normal background counts due to statistical fluctuations in the Compton baseline. The laboratory does not believe this adversely affects the data, the Cs-137 activity is well below the RL and MDC: CROSS WELL (280-186000-1), COMPLIANCE 03 (280-186000-4), CARIBOU WELL (280-186000-5) and CROSS PORTAL (280-186000-6).

Gamma Prep batch 160-642355

Many isotopes requested by gamma spectrometry analysis do not have any gamma emissions, the gamma emissions they do have are very poor, and/or are reported by assuming secular equilibrium with a longer-lived parent (or vice-versa). For example, Th-232 (which does not have a good gamma-ray) is often reported assuming the shorter-lived Ra-228 daughter is in equilibrium with the Th-232 parent. Or, Pb-214 and/or Bi-214, daughters of potentially volatile Rn-222 in the Ra-226 decay chain, may not be in equilibrium with the parent unless sufficient time has been allowed since the break in equilibrium (e.g. 21 days in the case of Ra-226-supported ingrowth). The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from	Reported to Analyte
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Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

CROSS WELL (280-186000-1), COMPLIANCE WELL (280-186000-2), COMPLIANCE 02 (280-186000-3), COMPLIANCE 03 (280-186000-4), CARIBOU WELL (280-186000-5), CROSS PORTAL (280-186000-6), CROSS PORTAL 02 (280-186000-7), CARIBOU PORTAL (280-186000-8) and (280-186000-A-1-B DU)

Method 900.0 - Gross Alpha and Gross Beta Radioactivity

Samples CARIBOU PORTAL (186000-8), CARIBOU WELL (186000-5), COMPLIANCE 02 (186000-3), COMPLIANCE 03 (186000-4), COMPLIANCE WELL (186000-2), CROSS PORTAL (186000-6), CROSS PORTAL 02 (186000-7) and CROSS WELL (186000-1) were analyzed for Gross Alpha and Gross Beta Radioactivity. The samples were prepared on 12/29/2023 and analyzed on 1/4/2024.

Gross Alpha and Gross Beta batch 642528

The detection goal was not met for the following samples due to a reduction of the sample size attributed to high residual mass: (410-155611-E-4-A) and (410-155611-E-4-D DU). Analytical results are reported with the detection limit achieved.

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Case Narrative

Client: Grand Island Resources
Project: Nederland, CO - Groundwater

Job ID: 280-186000-1

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Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-186000-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.020	J	0.10	0.0015	mg/L	1			200.7 Rev 4.4	Dissolved
Antimony	0.0041		0.0020	0.00040	mg/L	1			200.8	Dissolved
Barium	0.029		0.0030	0.00038	mg/L	1			200.8	Dissolved
Copper	0.0099		0.0020	0.00071	mg/L	1			200.8	Dissolved
Lead	0.00025	J	0.0010	0.00023	mg/L	1			200.8	Dissolved
Manganese	0.0011	J	0.0030	0.00051	mg/L	1			200.8	Dissolved
Molybdenum	0.00065	J	0.0020	0.00037	mg/L	1			200.8	Dissolved
Silver	0.000055	J	0.0010	0.000045	mg/L	1			200.8	Dissolved
Vanadium	0.0011	J	0.0050	0.0011	mg/L	1			200.8	Dissolved
Zinc	0.73	B	0.010	0.0020	mg/L	1			200.8	Dissolved
Nitrate as N	0.29	J	0.50	0.090	mg/L	1			300.0	Total/NA
Nitrate Nitrite as N	0.28		0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	83		10	4.7	mg/L	1			SM 2540C	Total/NA
Chloride	3.6		2.0	0.68	mg/L	1			SM 4500 Cl- E	Total/NA
Sulfate	8.4		5.0	0.71	mg/L	1			SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-186000-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.0089	J	0.10	0.0015	mg/L	1			200.7 Rev 4.4	Dissolved
Iron	0.011	J	0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Lithium	0.010	J B	0.020	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Antimony	0.00064	J	0.0020	0.00040	mg/L	1			200.8	Dissolved
Barium	0.041		0.0030	0.00038	mg/L	1			200.8	Dissolved
Manganese	0.0067		0.0030	0.00051	mg/L	1			200.8	Dissolved
Molybdenum	0.0045		0.0020	0.00037	mg/L	1			200.8	Dissolved
Uranium	0.00013	J	0.0010	0.000030	mg/L	1			200.8	Dissolved
Vanadium	0.0015	J	0.0050	0.0011	mg/L	1			200.8	Dissolved
Zinc	0.085	B	0.010	0.0020	mg/L	1			200.8	Dissolved
Nitrate as N	0.32	J	0.50	0.090	mg/L	1			300.0	Total/NA
Nitrate Nitrite as N	0.32		0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	85		10	4.7	mg/L	1			SM 2540C	Total/NA
Chloride	3.4		2.0	0.68	mg/L	1			SM 4500 Cl- E	Total/NA
Sulfate	8.6		5.0	0.71	mg/L	1			SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-186000-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.0046	J	0.10	0.0015	mg/L	1			200.7 Rev 4.4	Dissolved
Iron	0.015	J	0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Antimony	0.00058	J	0.0020	0.00040	mg/L	1			200.8	Dissolved
Barium	0.042		0.0030	0.00038	mg/L	1			200.8	Dissolved
Manganese	0.0070		0.0030	0.00051	mg/L	1			200.8	Dissolved
Molybdenum	0.0045		0.0020	0.00037	mg/L	1			200.8	Dissolved
Uranium	0.00014	J	0.0010	0.000030	mg/L	1			200.8	Dissolved
Vanadium	0.0015	J	0.0050	0.0011	mg/L	1			200.8	Dissolved
Zinc	0.084	B	0.010	0.0020	mg/L	1			200.8	Dissolved
Nitrate as N	0.32	J	0.50	0.090	mg/L	1			300.0	Total/NA
Nitrate Nitrite as N	0.32		0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	86		10	4.7	mg/L	1			SM 2540C	Total/NA
Chloride	3.4		2.0	0.68	mg/L	1			SM 4500 Cl- E	Total/NA
Sulfate	8.6		5.0	0.71	mg/L	1			SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-186000-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.021	J	0.10	0.018	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.015	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00054	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.00067	J	0.0030	0.00038	mg/L	1		200.8	Dissolved
Vanadium	0.0016	J	0.0050	0.0011	mg/L	1		200.8	Dissolved
Fluoride	0.84		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrite as N	0.055	J B	0.50	0.049	mg/L	1		300.0	Total/NA

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-186000-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0019	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.017	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Lithium	0.0098	J B	0.020	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00047	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.0070		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.17		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00036	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.00067	J	0.0030	0.00051	mg/L	1		200.8	Dissolved
Silver	0.000063	J	0.0010	0.000045	mg/L	1		200.8	Dissolved
Vanadium	0.0017	J	0.0050	0.0011	mg/L	1		200.8	Dissolved
Zinc	0.0052	J B	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.14	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrite as N	0.055	J B	0.50	0.049	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.10		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	26		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	1.9	J	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-186000-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0029	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00084	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.071		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.00088	J	0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0022		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00050	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0083		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0074		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.0010		0.0010	0.000030	mg/L	1		200.8	Dissolved
Vanadium	0.0016	J	0.0050	0.0011	mg/L	1		200.8	Dissolved
Zinc	0.23	B	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.10	J	0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids (TDS)	120		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	9.9		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-186000-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0024	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00086	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.071		0.0030	0.00038	mg/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Client Sample ID: CROSS PORTAL 02 (Continued)

Lab Sample ID: 280-186000-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0013		0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0024		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00050	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0087		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0074		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00098	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Vanadium	0.0015	J	0.0050	0.0011	mg/L	1		200.8	Dissolved
Zinc	0.23	B	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.11	J	0.50	0.090	mg/L	1		300.0	Total/NA
Total Dissolved Solids (TDS)	110		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	9.9		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-186000-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0021	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.0093	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00083	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Arsenic	0.00090	J	0.0050	0.00050	mg/L	1		200.8	Dissolved
Barium	0.058		0.0030	0.00038	mg/L	1		200.8	Dissolved
Lead	0.00040	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Molybdenum	0.0069		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.0066		0.0010	0.000030	mg/L	1		200.8	Dissolved
Vanadium	0.0018	J	0.0050	0.0011	mg/L	1		200.8	Dissolved
Zinc	0.0071	J B	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.16	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.12		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	110		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	9.3		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

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
300.0	Anions, Ion Chromatography	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 Cl- E	Chloride, Total	SM	EET DEN
SM 4500 CN I	Cyanide, Weak Acid Dissociable	SM	EET DEN
SM 4500 SO4 E	Sulfate, Total	SM	EET DEN
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	EET SL
901.1	Cesium 137 & Other Gamma Emitters (GS)	EPA	EET SL
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
Evaporation	Preparation, Evaporation	None	EET SL
Fill_Geo-0	Fill Geometry, No In-Growth	None	EET SL

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

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-186000-1	CROSS WELL	Water	12/21/23 13:00	12/21/23 16:50
280-186000-2	COMPLIANCE WELL	Water	12/21/23 13:30	12/21/23 16:50
280-186000-3	COMPLIANCE 02	Water	12/21/23 13:30	12/21/23 16:50
280-186000-4	COMPLIANCE 03	Water	12/21/23 13:30	12/21/23 16:50
280-186000-5	CARIBOU WELL	Water	12/21/23 11:30	12/21/23 16:50
280-186000-6	CROSS PORTAL	Water	12/21/23 12:15	12/21/23 16:50
280-186000-7	CROSS PORTAL 02	Water	12/21/23 12:15	12/21/23 16:50
280-186000-8	CARIBOU PORTAL	Water	12/21/23 11:15	12/21/23 16:50

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: CROSS WELL
Date Collected: 12/21/23 13:00
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/02/24 08:30	01/09/24 03:55	1
Boron	0.020	J	0.10	0.0015	mg/L		01/02/24 08:30	01/04/24 00:22	1
Iron	ND		0.10	0.0091	mg/L		01/02/24 08:30	01/04/24 00:22	1
Lithium	ND		0.020	0.0091	mg/L		01/02/24 08:30	01/04/24 00:22	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 12/21/23 13:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/02/24 08:30	01/09/24 04:27	1
Boron	0.0089	J	0.10	0.0015	mg/L		01/02/24 08:30	01/04/24 00:39	1
Iron	0.011	J	0.10	0.0091	mg/L		01/02/24 08:30	01/04/24 00:39	1
Lithium	0.010	J B	0.020	0.0091	mg/L		01/02/24 08:30	01/04/24 00:39	1

Client Sample ID: COMPLIANCE 02
Date Collected: 12/21/23 13:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/02/24 08:30	01/09/24 04:31	1
Boron	0.0046	J	0.10	0.0015	mg/L		01/02/24 08:30	01/04/24 00:43	1
Iron	0.015	J	0.10	0.0091	mg/L		01/02/24 08:30	01/04/24 00:43	1
Lithium	ND		0.020	0.0091	mg/L		01/02/24 08:30	01/04/24 00:43	1

Client Sample ID: COMPLIANCE 03
Date Collected: 12/21/23 13:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.021	J	0.10	0.018	mg/L		01/02/24 08:30	01/09/24 04:35	1
Boron	ND		0.10	0.0015	mg/L		01/02/24 08:30	01/04/24 00:47	1
Iron	0.015	J	0.10	0.0091	mg/L		01/02/24 08:30	01/04/24 00:47	1
Lithium	ND		0.020	0.0091	mg/L		01/02/24 08:30	01/04/24 00:47	1

Client Sample ID: CARIBOU WELL
Date Collected: 12/21/23 11:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/02/24 08:30	01/09/24 04:39	1
Boron	0.0019	J	0.10	0.0015	mg/L		01/02/24 08:30	01/04/24 00:51	1
Iron	0.017	J	0.10	0.0091	mg/L		01/02/24 08:30	01/04/24 00:51	1
Lithium	0.0098	J B	0.020	0.0091	mg/L		01/02/24 08:30	01/04/24 00:51	1

Client Sample ID: CROSS PORTAL
Date Collected: 12/21/23 12:15
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/02/24 08:30	01/09/24 04:43	1
Boron	0.0029	J	0.10	0.0015	mg/L		01/02/24 08:30	01/04/24 01:11	1
Iron	ND		0.10	0.0091	mg/L		01/02/24 08:30	01/04/24 01:11	1
Lithium	ND		0.020	0.0091	mg/L		01/02/24 08:30	01/04/24 01:11	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: CROSS PORTAL 02

Date Collected: 12/21/23 12:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/02/24 08:30	01/09/24 04:47	1
Boron	0.0024	J	0.10	0.0015	mg/L		01/02/24 08:30	01/04/24 01:15	1
Iron	ND		0.10	0.0091	mg/L		01/02/24 08:30	01/04/24 01:15	1
Lithium	ND		0.020	0.0091	mg/L		01/02/24 08:30	01/04/24 01:15	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 12/21/23 11:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/02/24 08:30	01/09/24 04:51	1
Boron	0.0021	J	0.10	0.0015	mg/L		01/02/24 08:30	01/04/24 01:19	1
Iron	0.0093	J	0.10	0.0091	mg/L		01/02/24 08:30	01/04/24 01:19	1
Lithium	ND		0.020	0.0091	mg/L		01/02/24 08:30	01/04/24 01:19	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 12/21/23 13:00

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0041		0.0020	0.00040	mg/L		01/02/24 08:30	01/03/24 18:19	1
Arsenic	ND		0.0050	0.00050	mg/L		01/02/24 08:30	01/03/24 18:19	1
Barium	0.029		0.0030	0.00038	mg/L		01/02/24 08:30	01/03/24 18:19	1
Beryllium	ND		0.0010	0.00030	mg/L		01/02/24 08:30	01/03/24 18:19	1
Cadmium	ND		0.0010	0.00019	mg/L		01/02/24 08:30	01/03/24 18:19	1
Chromium	ND		0.0030	0.00050	mg/L		01/02/24 08:30	01/03/24 18:19	1
Cobalt	ND		0.0010	0.00033	mg/L		01/02/24 08:30	01/03/24 18:19	1
Copper	0.0099		0.0020	0.00071	mg/L		01/02/24 08:30	01/04/24 16:54	1
Lead	0.00025	J	0.0010	0.00023	mg/L		01/02/24 08:30	01/03/24 18:19	1
Manganese	0.0011	J	0.0030	0.00051	mg/L		01/02/24 08:30	01/03/24 18:19	1
Molybdenum	0.00065	J	0.0020	0.00037	mg/L		01/02/24 08:30	01/03/24 18:19	1
Nickel	ND		0.0030	0.00083	mg/L		01/02/24 08:30	01/03/24 18:19	1
Selenium	ND		0.0050	0.0010	mg/L		01/02/24 08:30	01/03/24 18:19	1
Silver	0.000055	J	0.0010	0.000045	mg/L		01/02/24 08:30	01/03/24 18:19	1
Thallium	ND		0.0010	0.00021	mg/L		01/02/24 08:30	01/03/24 18:19	1
Uranium	ND		0.0010	0.000030	mg/L		01/02/24 08:30	01/03/24 18:19	1
Vanadium	0.0011	J	0.0050	0.0011	mg/L		01/02/24 08:30	01/03/24 18:19	1
Zinc	0.73	B	0.010	0.0020	mg/L		01/02/24 08:30	01/03/24 18:19	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00064	J	0.0020	0.00040	mg/L		01/02/24 08:30	01/03/24 18:35	1
Arsenic	ND		0.0050	0.00050	mg/L		01/02/24 08:30	01/03/24 18:35	1
Barium	0.041		0.0030	0.00038	mg/L		01/02/24 08:30	01/03/24 18:35	1
Beryllium	ND		0.0010	0.00030	mg/L		01/02/24 08:30	01/03/24 18:35	1
Cadmium	ND		0.0010	0.00019	mg/L		01/02/24 08:30	01/03/24 18:35	1
Chromium	ND		0.0030	0.00050	mg/L		01/02/24 08:30	01/03/24 18:35	1
Cobalt	ND		0.0010	0.00033	mg/L		01/02/24 08:30	01/03/24 18:35	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: COMPLIANCE WELL

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0020	0.00071	mg/L		01/02/24 08:30	01/04/24 17:06	1
Lead	ND		0.0010	0.00023	mg/L		01/02/24 08:30	01/03/24 18:35	1
Manganese	0.0067		0.0030	0.00051	mg/L		01/02/24 08:30	01/03/24 18:35	1
Molybdenum	0.0045		0.0020	0.00037	mg/L		01/02/24 08:30	01/03/24 18:35	1
Nickel	ND		0.0030	0.00083	mg/L		01/02/24 08:30	01/03/24 18:35	1
Selenium	ND		0.0050	0.0010	mg/L		01/02/24 08:30	01/03/24 18:35	1
Silver	ND		0.0010	0.000045	mg/L		01/02/24 08:30	01/03/24 18:35	1
Thallium	ND		0.0010	0.00021	mg/L		01/02/24 08:30	01/03/24 18:35	1
Uranium	0.00013	J	0.0010	0.000030	mg/L		01/02/24 08:30	01/03/24 18:35	1
Vanadium	0.0015	J	0.0050	0.0011	mg/L		01/02/24 08:30	01/03/24 18:35	1
Zinc	0.085	B	0.010	0.0020	mg/L		01/02/24 08:30	01/03/24 18:35	1

Client Sample ID: COMPLIANCE 02

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00058	J	0.0020	0.00040	mg/L		01/02/24 08:30	01/03/24 18:37	1
Arsenic	ND		0.0050	0.00050	mg/L		01/02/24 08:30	01/03/24 18:37	1
Barium	0.042		0.0030	0.00038	mg/L		01/02/24 08:30	01/03/24 18:37	1
Beryllium	ND		0.0010	0.00030	mg/L		01/02/24 08:30	01/03/24 18:37	1
Cadmium	ND		0.0010	0.00019	mg/L		01/02/24 08:30	01/03/24 18:37	1
Chromium	ND		0.0030	0.00050	mg/L		01/02/24 08:30	01/03/24 18:37	1
Cobalt	ND		0.0010	0.00033	mg/L		01/02/24 08:30	01/03/24 18:37	1
Copper	ND		0.0020	0.00071	mg/L		01/02/24 08:30	01/04/24 17:08	1
Lead	ND		0.0010	0.00023	mg/L		01/02/24 08:30	01/03/24 18:37	1
Manganese	0.0070		0.0030	0.00051	mg/L		01/02/24 08:30	01/03/24 18:37	1
Molybdenum	0.0045		0.0020	0.00037	mg/L		01/02/24 08:30	01/03/24 18:37	1
Nickel	ND		0.0030	0.00083	mg/L		01/02/24 08:30	01/03/24 18:37	1
Selenium	ND		0.0050	0.0010	mg/L		01/02/24 08:30	01/03/24 18:37	1
Silver	ND		0.0010	0.000045	mg/L		01/02/24 08:30	01/03/24 18:37	1
Thallium	ND		0.0010	0.00021	mg/L		01/02/24 08:30	01/03/24 18:37	1
Uranium	0.00014	J	0.0010	0.000030	mg/L		01/02/24 08:30	01/03/24 18:37	1
Vanadium	0.0015	J	0.0050	0.0011	mg/L		01/02/24 08:30	01/03/24 18:37	1
Zinc	0.084	B	0.010	0.0020	mg/L		01/02/24 08:30	01/03/24 18:37	1

Client Sample ID: COMPLIANCE 03

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00054	J	0.0020	0.00040	mg/L		01/02/24 08:30	01/03/24 18:39	1
Arsenic	ND		0.0050	0.00050	mg/L		01/02/24 08:30	01/03/24 18:39	1
Barium	0.00067	J	0.0030	0.00038	mg/L		01/02/24 08:30	01/03/24 18:39	1
Beryllium	ND		0.0010	0.00030	mg/L		01/02/24 08:30	01/03/24 18:39	1
Cadmium	ND		0.0010	0.00019	mg/L		01/02/24 08:30	01/03/24 18:39	1
Chromium	ND		0.0030	0.00050	mg/L		01/02/24 08:30	01/03/24 18:39	1
Cobalt	ND		0.0010	0.00033	mg/L		01/02/24 08:30	01/03/24 18:39	1
Copper	ND		0.0020	0.00071	mg/L		01/02/24 08:30	01/04/24 17:10	1
Lead	ND		0.0010	0.00023	mg/L		01/02/24 08:30	01/03/24 18:39	1
Manganese	ND		0.0030	0.00051	mg/L		01/02/24 08:30	01/03/24 18:39	1
Molybdenum	ND		0.0020	0.00037	mg/L		01/02/24 08:30	01/03/24 18:39	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: COMPLIANCE 03

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.0030	0.00083	mg/L		01/02/24 08:30	01/03/24 18:39	1
Selenium	ND		0.0050	0.0010	mg/L		01/02/24 08:30	01/03/24 18:39	1
Silver	ND		0.0010	0.000045	mg/L		01/02/24 08:30	01/03/24 18:39	1
Thallium	ND		0.0010	0.00021	mg/L		01/02/24 08:30	01/03/24 18:39	1
Uranium	ND		0.0010	0.000030	mg/L		01/02/24 08:30	01/03/24 18:39	1
Vanadium	0.0016	J	0.0050	0.0011	mg/L		01/02/24 08:30	01/03/24 18:39	1
Zinc	ND		0.010	0.0020	mg/L		01/02/24 08:30	01/03/24 18:39	1

Client Sample ID: CARIBOU WELL

Date Collected: 12/21/23 11:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00047	J	0.0020	0.00040	mg/L		01/02/24 08:30	01/03/24 18:42	1
Arsenic	ND		0.0050	0.00050	mg/L		01/02/24 08:30	01/03/24 18:42	1
Barium	0.0070		0.0030	0.00038	mg/L		01/02/24 08:30	01/03/24 18:42	1
Beryllium	ND		0.0010	0.00030	mg/L		01/02/24 08:30	01/03/24 18:42	1
Cadmium	ND		0.0010	0.00019	mg/L		01/02/24 08:30	01/03/24 18:42	1
Chromium	ND		0.0030	0.00050	mg/L		01/02/24 08:30	01/03/24 18:42	1
Cobalt	ND		0.0010	0.00033	mg/L		01/02/24 08:30	01/03/24 18:42	1
Copper	0.17		0.0020	0.00071	mg/L		01/02/24 08:30	01/04/24 17:12	1
Lead	0.00036	J	0.0010	0.00023	mg/L		01/02/24 08:30	01/03/24 18:42	1
Manganese	0.00067	J	0.0030	0.00051	mg/L		01/02/24 08:30	01/03/24 18:42	1
Molybdenum	ND		0.0020	0.00037	mg/L		01/02/24 08:30	01/03/24 18:42	1
Nickel	ND		0.0030	0.00083	mg/L		01/02/24 08:30	01/03/24 18:42	1
Selenium	ND		0.0050	0.0010	mg/L		01/02/24 08:30	01/03/24 18:42	1
Silver	0.000063	J	0.0010	0.000045	mg/L		01/02/24 08:30	01/03/24 18:42	1
Thallium	ND		0.0010	0.00021	mg/L		01/02/24 08:30	01/03/24 18:42	1
Uranium	ND		0.0010	0.000030	mg/L		01/02/24 08:30	01/03/24 18:42	1
Vanadium	0.0017	J	0.0050	0.0011	mg/L		01/02/24 08:30	01/03/24 18:42	1
Zinc	0.0052	J B	0.010	0.0020	mg/L		01/02/24 08:30	01/03/24 18:42	1

Client Sample ID: CROSS PORTAL

Date Collected: 12/21/23 12:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00084	J	0.0020	0.00040	mg/L		01/02/24 08:30	01/03/24 18:44	1
Arsenic	ND		0.0050	0.00050	mg/L		01/02/24 08:30	01/03/24 18:44	1
Barium	0.071		0.0030	0.00038	mg/L		01/02/24 08:30	01/03/24 18:44	1
Beryllium	ND		0.0010	0.00030	mg/L		01/02/24 08:30	01/03/24 18:44	1
Cadmium	0.00088	J	0.0010	0.00019	mg/L		01/02/24 08:30	01/03/24 18:44	1
Chromium	ND		0.0030	0.00050	mg/L		01/02/24 08:30	01/03/24 18:44	1
Cobalt	ND		0.0010	0.00033	mg/L		01/02/24 08:30	01/03/24 18:44	1
Copper	0.0022		0.0020	0.00071	mg/L		01/02/24 08:30	01/04/24 17:15	1
Lead	0.00050	J	0.0010	0.00023	mg/L		01/02/24 08:30	01/03/24 18:44	1
Manganese	0.0083		0.0030	0.00051	mg/L		01/02/24 08:30	01/03/24 18:44	1
Molybdenum	0.0074		0.0020	0.00037	mg/L		01/02/24 08:30	01/03/24 18:44	1
Nickel	ND		0.0030	0.00083	mg/L		01/02/24 08:30	01/03/24 18:44	1
Selenium	ND		0.0050	0.0010	mg/L		01/02/24 08:30	01/03/24 18:44	1
Silver	ND		0.0010	0.000045	mg/L		01/02/24 08:30	01/03/24 18:44	1
Thallium	ND		0.0010	0.00021	mg/L		01/02/24 08:30	01/03/24 18:44	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: CROSS PORTAL

Date Collected: 12/21/23 12:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0010		0.0010	0.000030	mg/L		01/02/24 08:30	01/03/24 18:44	1
Vanadium	0.0016	J	0.0050	0.0011	mg/L		01/02/24 08:30	01/03/24 18:44	1
Zinc	0.23	B	0.010	0.0020	mg/L		01/02/24 08:30	01/03/24 18:44	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 12/21/23 12:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00086	J	0.0020	0.00040	mg/L		01/02/24 08:30	01/03/24 18:46	1
Arsenic	ND		0.0050	0.00050	mg/L		01/02/24 08:30	01/03/24 18:46	1
Barium	0.071		0.0030	0.00038	mg/L		01/02/24 08:30	01/03/24 18:46	1
Beryllium	ND		0.0010	0.00030	mg/L		01/02/24 08:30	01/03/24 18:46	1
Cadmium	0.0013		0.0010	0.00019	mg/L		01/02/24 08:30	01/03/24 18:46	1
Chromium	ND		0.0030	0.00050	mg/L		01/02/24 08:30	01/03/24 18:46	1
Cobalt	ND		0.0010	0.00033	mg/L		01/02/24 08:30	01/03/24 18:46	1
Copper	0.0024		0.0020	0.00071	mg/L		01/02/24 08:30	01/04/24 16:44	1
Lead	0.00050	J	0.0010	0.00023	mg/L		01/02/24 08:30	01/03/24 18:46	1
Manganese	0.0087		0.0030	0.00051	mg/L		01/02/24 08:30	01/03/24 18:46	1
Molybdenum	0.0074		0.0020	0.00037	mg/L		01/02/24 08:30	01/03/24 18:46	1
Nickel	ND		0.0030	0.00083	mg/L		01/02/24 08:30	01/03/24 18:46	1
Selenium	ND		0.0050	0.0010	mg/L		01/02/24 08:30	01/03/24 18:46	1
Silver	ND		0.0010	0.000045	mg/L		01/02/24 08:30	01/03/24 18:46	1
Thallium	ND		0.0010	0.00021	mg/L		01/02/24 08:30	01/03/24 18:46	1
Uranium	0.00098	J	0.0010	0.000030	mg/L		01/02/24 08:30	01/03/24 18:46	1
Vanadium	0.0015	J	0.0050	0.0011	mg/L		01/02/24 08:30	01/03/24 18:46	1
Zinc	0.23	B	0.010	0.0020	mg/L		01/02/24 08:30	01/03/24 18:46	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 12/21/23 11:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00083	J	0.0020	0.00040	mg/L		01/02/24 08:30	01/03/24 18:48	1
Arsenic	0.00090	J	0.0050	0.00050	mg/L		01/02/24 08:30	01/03/24 18:48	1
Barium	0.058		0.0030	0.00038	mg/L		01/02/24 08:30	01/03/24 18:48	1
Beryllium	ND		0.0010	0.00030	mg/L		01/02/24 08:30	01/03/24 18:48	1
Cadmium	ND		0.0010	0.00019	mg/L		01/02/24 08:30	01/03/24 18:48	1
Chromium	ND		0.0030	0.00050	mg/L		01/02/24 08:30	01/03/24 18:48	1
Cobalt	ND		0.0010	0.00033	mg/L		01/02/24 08:30	01/03/24 18:48	1
Copper	ND		0.0020	0.00071	mg/L		01/02/24 08:30	01/04/24 16:46	1
Lead	0.00040	J	0.0010	0.00023	mg/L		01/02/24 08:30	01/03/24 18:48	1
Manganese	ND		0.0030	0.00051	mg/L		01/02/24 08:30	01/03/24 18:48	1
Molybdenum	0.0069		0.0020	0.00037	mg/L		01/02/24 08:30	01/03/24 18:48	1
Nickel	ND		0.0030	0.00083	mg/L		01/02/24 08:30	01/03/24 18:48	1
Selenium	ND		0.0050	0.0010	mg/L		01/02/24 08:30	01/03/24 18:48	1
Silver	ND		0.0010	0.000045	mg/L		01/02/24 08:30	01/03/24 18:48	1
Thallium	ND		0.0010	0.00021	mg/L		01/02/24 08:30	01/03/24 18:48	1
Uranium	0.0066		0.0010	0.000030	mg/L		01/02/24 08:30	01/03/24 18:48	1
Vanadium	0.0018	J	0.0050	0.0011	mg/L		01/02/24 08:30	01/03/24 18:48	1
Zinc	0.0071	J B	0.010	0.0020	mg/L		01/02/24 08:30	01/03/24 18:48	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 245.1 - Mercury (CVAA) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 12/21/23 13:00

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/22/23 11:02	12/22/23 20:07	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/22/23 11:02	12/22/23 20:15	1

Client Sample ID: COMPLIANCE 02

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/22/23 11:02	12/22/23 20:17	1

Client Sample ID: COMPLIANCE 03

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/22/23 11:02	12/22/23 20:20	1

Client Sample ID: CARIBOU WELL

Date Collected: 12/21/23 11:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/22/23 11:02	12/22/23 20:22	1

Client Sample ID: CROSS PORTAL

Date Collected: 12/21/23 12:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/22/23 11:03	12/22/23 20:30	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 12/21/23 12:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/22/23 11:03	12/22/23 20:33	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 12/21/23 11:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/22/23 11:03	12/22/23 20:35	1

General Chemistry

Client Sample ID: CROSS WELL

Date Collected: 12/21/23 13:00

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/29/23 20:57	1
Nitrate as N (EPA 300.0)	0.29	J	0.50	0.090	mg/L			12/22/23 13:52	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

General Chemistry (Continued)

Client Sample ID: CROSS WELL

Date Collected: 12/21/23 13:00

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			12/22/23 13:52	1
Nitrate Nitrite as N (EPA 353.2)	0.28		0.10	0.044	mg/L			01/09/24 12:59	1
Total Dissolved Solids (TDS) (SM 2540C)	83		10	4.7	mg/L			12/27/23 19:30	1
Chloride (SM 4500 Cl- E)	3.6		2.0	0.68	mg/L			01/03/24 18:43	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/03/24 13:07	1
Sulfate (SM 4500 SO4 E)	8.4		5.0	0.71	mg/L			01/03/24 17:34	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/29/23 20:46	1
Nitrate as N (EPA 300.0)	0.32	J	0.50	0.090	mg/L			12/22/23 14:07	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			12/22/23 14:07	1
Nitrate Nitrite as N (EPA 353.2)	0.32		0.10	0.044	mg/L			01/09/24 13:00	1
Total Dissolved Solids (TDS) (SM 2540C)	85		10	4.7	mg/L			12/27/23 19:30	1
Chloride (SM 4500 Cl- E)	3.4		2.0	0.68	mg/L			01/03/24 18:43	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/03/24 13:10	1
Sulfate (SM 4500 SO4 E)	8.6		5.0	0.71	mg/L			01/03/24 17:34	1

Client Sample ID: COMPLIANCE 02

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/29/23 20:35	1
Nitrate as N (EPA 300.0)	0.32	J	0.50	0.090	mg/L			12/22/23 13:22	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			12/22/23 13:22	1
Nitrate Nitrite as N (EPA 353.2)	0.32		0.10	0.044	mg/L			01/09/24 13:10	1
Total Dissolved Solids (TDS) (SM 2540C)	86		10	4.7	mg/L			12/27/23 19:30	1
Chloride (SM 4500 Cl- E)	3.4		2.0	0.68	mg/L			01/03/24 18:43	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/03/24 13:13	1
Sulfate (SM 4500 SO4 E)	8.6		5.0	0.71	mg/L			01/03/24 17:34	1

Client Sample ID: COMPLIANCE 03

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	0.84		0.50	0.17	mg/L			12/29/23 20:24	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			12/22/23 13:37	1
Nitrite as N (EPA 300.0)	0.055	J B	0.50	0.049	mg/L			12/22/23 13:37	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			01/09/24 13:11	1
Total Dissolved Solids (TDS) (SM 2540C)	ND		10	4.7	mg/L			12/27/23 19:32	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/03/24 18:42	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/03/24 13:15	1
Sulfate (SM 4500 SO4 E)	ND		5.0	0.71	mg/L			01/03/24 17:34	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

General Chemistry

Client Sample ID: CARIBOU WELL

Date Collected: 12/21/23 11:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/29/23 20:13	1
Nitrate as N (EPA 300.0)	0.14	J	0.50	0.090	mg/L			12/22/23 13:07	1
Nitrite as N (EPA 300.0)	0.055	J B	0.50	0.049	mg/L			12/22/23 13:07	1
Nitrate Nitrite as N (EPA 353.2)	0.10		0.10	0.044	mg/L			01/09/24 13:16	1
Total Dissolved Solids (TDS) (SM 2540C)	26		10	4.7	mg/L			12/27/23 19:32	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/03/24 19:43	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/03/24 13:18	1
Sulfate (SM 4500 SO4 E)	1.9	J	5.0	0.71	mg/L			01/03/24 17:33	1

Client Sample ID: CROSS PORTAL

Date Collected: 12/21/23 12:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/29/23 20:02	1
Nitrate as N (EPA 300.0)	0.10	J	0.50	0.090	mg/L			12/22/23 10:22	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			12/22/23 10:22	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			01/09/24 13:17	1
Total Dissolved Solids (TDS) (SM 2540C)	120		10	4.7	mg/L			12/27/23 19:32	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/03/24 19:43	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/03/24 13:21	1
Sulfate (SM 4500 SO4 E)	9.9		5.0	0.71	mg/L			01/03/24 17:33	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 12/21/23 12:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			12/29/23 19:51	1
Nitrate as N (EPA 300.0)	0.11	J	0.50	0.090	mg/L			12/22/23 10:37	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			12/22/23 10:37	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			01/09/24 13:19	1
Total Dissolved Solids (TDS) (SM 2540C)	110		10	4.7	mg/L			12/27/23 19:32	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/03/24 19:42	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/03/24 13:23	1
Sulfate (SM 4500 SO4 E)	9.9		5.0	0.71	mg/L			01/03/24 17:32	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 12/21/23 11:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND	F1	0.50	0.17	mg/L			12/29/23 19:07	1
Nitrate as N (EPA 300.0)	0.16	J	0.50	0.090	mg/L			12/22/23 12:07	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			12/22/23 12:07	1
Nitrate Nitrite as N (EPA 353.2)	0.12		0.10	0.044	mg/L			01/09/24 13:20	1
Total Dissolved Solids (TDS) (SM 2540C)	110		10	4.7	mg/L			12/27/23 19:32	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			01/03/24 19:42	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			01/03/24 13:26	1
Sulfate (SM 4500 SO4 E)	9.3		5.0	0.71	mg/L			01/03/24 17:32	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Client Sample ID: CROSS WELL
Date Collected: 12/21/23 13:00
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.223	U	0.886	0.887	3.00	1.62	pCi/L	12/29/23 08:47	01/04/24 18:57	1
Gross Beta	1.41		0.672	0.687	4.00	0.983	pCi/L	12/29/23 08:47	01/04/24 18:57	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 12/21/23 13:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.76		1.01	1.03	3.00	1.39	pCi/L	12/29/23 08:47	01/04/24 18:57	1
Gross Beta	0.442	U	0.601	0.603	4.00	0.960	pCi/L	12/29/23 08:47	01/04/24 18:57	1

Client Sample ID: COMPLIANCE 02
Date Collected: 12/21/23 13:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.802	U	0.906	0.911	3.00	1.94	pCi/L	12/29/23 08:47	01/04/24 18:57	1
Gross Beta	0.867	U	0.597	0.603	4.00	0.926	pCi/L	12/29/23 08:47	01/04/24 18:57	1

Client Sample ID: COMPLIANCE 03
Date Collected: 12/21/23 13:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.413	U	0.694	0.696	3.00	1.19	pCi/L	12/29/23 08:47	01/04/24 18:57	1
Gross Beta	0.551	U	0.542	0.544	4.00	0.865	pCi/L	12/29/23 08:47	01/04/24 18:57	1

Client Sample ID: CARIBOU WELL
Date Collected: 12/21/23 11:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.390	U	0.709	0.711	3.00	1.23	pCi/L	12/29/23 08:47	01/04/24 18:57	1
Gross Beta	0.476	U	0.521	0.524	4.00	0.842	pCi/L	12/29/23 08:47	01/04/24 18:57	1

Client Sample ID: CROSS PORTAL
Date Collected: 12/21/23 12:15
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.0920	U	0.859	0.859	3.00	1.72	pCi/L	12/29/23 08:47	01/04/24 18:58	1
Gross Beta	1.10		0.601	0.611	4.00	0.896	pCi/L	12/29/23 08:47	01/04/24 18:58	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Client Sample ID: CROSS PORTAL 02

Date Collected: 12/21/23 12:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-7

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.366	U	1.01	1.01	3.00	1.82	pCi/L	12/29/23 08:47	01/04/24 18:58	1
Gross Beta	1.21		0.616	0.627	4.00	0.897	pCi/L	12/29/23 08:47	01/04/24 18:58	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 12/21/23 11:15

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-8

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	7.13		1.92	2.08	3.00	1.74	pCi/L	12/29/23 08:47	01/04/24 18:58	1
Gross Beta	1.60		0.742	0.759	4.00	0.956	pCi/L	12/29/23 08:47	01/04/24 18:58	1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 12/21/23 13:00

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-1

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	6.35	U G	11.9	12.0	20.0	20.2	pCi/L	12/28/23 10:31	01/03/24 19:44	1
Other Detected										
Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	171		32.8	38.5		25.3	pCi/L	12/28/23 10:31	01/03/24 19:44	1
Pb-214	133		26.5	30.8		22.6	pCi/L	12/28/23 10:31	01/03/24 19:44	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-2

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-0.565	U	11.0	11.0	20.0	19.6	pCi/L	12/28/23 10:31	01/03/24 20:57	1
Other Detected										
Radionuclides	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214	183		40.0	45.4		31.9	pCi/L	12/28/23 10:31	01/03/24 20:57	1
Pb-214	138		26.9	31.4		28.4	pCi/L	12/28/23 10:31	01/03/24 20:57	1

Client Sample ID: COMPLIANCE 02

Date Collected: 12/21/23 13:30

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-3

Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	5.29	U	10.1	10.1	20.0	17.2	pCi/L	12/28/23 10:31	01/03/24 22:06	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved (Continued)

			Count	Total							
Other Detected			Uncert.	Uncert.							
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Bi-214	120		27.8	31.2		31.4	pCi/L	12/28/23 10:31	01/03/24 22:06	1	
Pb-214	111		19.6	23.6		26.6	pCi/L	12/28/23 10:31	01/03/24 22:06	1	

Client Sample ID: COMPLIANCE 03
Date Collected: 12/21/23 13:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-4
Matrix: Water

			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Cesium-137	0.000	U G	7.99	7.99	20.0	23.6	pCi/L	12/28/23 10:31	01/03/24 22:05	1	
Other Detected			Uncert.	Uncert.							
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Bi-214	101		29.0	31.3		27.7	pCi/L	12/28/23 10:31	01/03/24 22:05	1	
Pb-214	90.1		31.0	32.8		29.7	pCi/L	12/28/23 10:31	01/03/24 22:05	1	

Client Sample ID: CARIBOU WELL
Date Collected: 12/21/23 11:30
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-5
Matrix: Water

			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Cesium-137	-7.74	U G	15.6	15.6	20.0	26.6	pCi/L	12/28/23 10:31	01/03/24 22:06	1	
Other Detected			Uncert.	Uncert.							
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Bi-214	63.8		26.9	28.0		30.0	pCi/L	12/28/23 10:31	01/03/24 22:06	1	
Pb-214	62.1		23.6	24.7		21.1	pCi/L	12/28/23 10:31	01/03/24 22:06	1	

Client Sample ID: CROSS PORTAL
Date Collected: 12/21/23 12:15
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-6
Matrix: Water

			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Cesium-137	3.52	U G	16.9	16.9	20.0	29.6	pCi/L	12/28/23 10:31	01/04/24 08:07	1	
Other Detected			Uncert.	Uncert.							
Radionuclides	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Other Detected Radionuclide	None						pCi/L	12/28/23 10:31	01/04/24 08:07	1	

Client Sample ID: CROSS PORTAL 02
Date Collected: 12/21/23 12:15
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-7
Matrix: Water

			Count	Total							
			Uncert.	Uncert.							
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Cesium-137	3.74	U	7.76	7.78	20.0	13.3	pCi/L	12/28/23 10:31	01/04/24 08:08	1	

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: EPA 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved (Continued)

<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Other Detected Radionuclide</i>	<i>None</i>						<i>pCi/L</i>	<i>12/28/23 10:31</i>	<i>01/04/24 08:08</i>	<i>1</i>

Client Sample ID: CARIBOU PORTAL
Date Collected: 12/21/23 11:15
Date Received: 12/21/23 16:50

Lab Sample ID: 280-186000-8
Matrix: Water

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Cesium-137	3.39	U	11.1	11.1	20.0	19.2	pCi/L	12/28/23 10:31	01/04/24 08:08	1
<i>Other Detected Radionuclides</i>	<i>Result</i>	<i>Qualifier</i>	<i>Count Uncert. (2σ+/-)</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Bi-214</i>	<i>65.9</i>		<i>21.8</i>	<i>23.1</i>		<i>24.1</i>	<i>pCi/L</i>	<i>12/28/23 10:31</i>	<i>01/04/24 08:08</i>	<i>1</i>
<i>Pb-214</i>	<i>43.8</i>		<i>23.1</i>	<i>23.6</i>		<i>24.9</i>	<i>pCi/L</i>	<i>12/28/23 10:31</i>	<i>01/04/24 08:08</i>	<i>1</i>

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-638730/1-A

Matrix: Water

Analysis Batch: 639205

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 638730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.0015	mg/L		01/02/24 08:30	01/03/24 23:17	1
Iron	ND		0.10	0.0091	mg/L		01/02/24 08:30	01/03/24 23:17	1
Lithium	0.00926	J	0.020	0.0091	mg/L		01/02/24 08:30	01/03/24 23:17	1

Lab Sample ID: MB 280-638730/1-A

Matrix: Water

Analysis Batch: 639469

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 638730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		01/02/24 08:30	01/09/24 03:43	1

Lab Sample ID: LCS 280-638730/2-A

Matrix: Water

Analysis Batch: 639205

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 638730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2.00	1.91		mg/L		95	86 - 110
Iron	10.0	9.72		mg/L		97	85 - 115
Lithium	1.00	0.956		mg/L		96	90 - 112

Lab Sample ID: LCS 280-638730/2-A

Matrix: Water

Analysis Batch: 639469

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 638730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	10.1		mg/L		101	87 - 111

Lab Sample ID: 280-186000-1 MS

Matrix: Water

Analysis Batch: 639205

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.020	J	2.00	1.89		mg/L		93	70 - 130
Iron	ND		10.0	9.50		mg/L		95	70 - 130
Lithium	ND		1.00	0.940		mg/L		94	70 - 130

Lab Sample ID: 280-186000-1 MS

Matrix: Water

Analysis Batch: 639469

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		10.0	10.1		mg/L		101	70 - 130

Lab Sample ID: 280-186000-1 MSD

Matrix: Water

Analysis Batch: 639205

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Boron	0.020	J	2.00	1.95		mg/L		96	70 - 130	3	20
Iron	ND		10.0	9.83		mg/L		98	70 - 130	3	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 280-186000-1 MSD

Matrix: Water

Analysis Batch: 639205

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	ND		1.00	0.970		mg/L		97	70 - 130	3	20

Lab Sample ID: 280-186000-1 MSD

Matrix: Water

Analysis Batch: 639469

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		10.0	10.1		mg/L		101	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-638730/1-A

Matrix: Water

Analysis Batch: 639090

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 638730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		01/02/24 08:30	01/03/24 17:47	1
Arsenic	ND		0.0050	0.00050	mg/L		01/02/24 08:30	01/03/24 17:47	1
Barium	ND		0.0030	0.00038	mg/L		01/02/24 08:30	01/03/24 17:47	1
Beryllium	ND		0.0010	0.00030	mg/L		01/02/24 08:30	01/03/24 17:47	1
Cadmium	ND		0.0010	0.00019	mg/L		01/02/24 08:30	01/03/24 17:47	1
Chromium	ND		0.0030	0.00050	mg/L		01/02/24 08:30	01/03/24 17:47	1
Cobalt	ND		0.0010	0.00033	mg/L		01/02/24 08:30	01/03/24 17:47	1
Lead	ND		0.0010	0.00023	mg/L		01/02/24 08:30	01/03/24 17:47	1
Manganese	ND		0.0030	0.00051	mg/L		01/02/24 08:30	01/03/24 17:47	1
Molybdenum	ND		0.0020	0.00037	mg/L		01/02/24 08:30	01/03/24 17:47	1
Nickel	ND		0.0030	0.00083	mg/L		01/02/24 08:30	01/03/24 17:47	1
Selenium	ND		0.0050	0.0010	mg/L		01/02/24 08:30	01/03/24 17:47	1
Silver	ND		0.0010	0.000045	mg/L		01/02/24 08:30	01/03/24 17:47	1
Thallium	ND		0.0010	0.00021	mg/L		01/02/24 08:30	01/03/24 17:47	1
Uranium	ND		0.0010	0.000030	mg/L		01/02/24 08:30	01/03/24 17:47	1
Vanadium	ND		0.0050	0.0011	mg/L		01/02/24 08:30	01/03/24 17:47	1
Zinc	0.00293	J	0.010	0.0020	mg/L		01/02/24 08:30	01/03/24 17:47	1

Lab Sample ID: MB 280-638730/1-A

Matrix: Water

Analysis Batch: 639297

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 638730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0020	0.00071	mg/L		01/02/24 08:30	01/04/24 16:26	1

Lab Sample ID: LCS 280-638730/24-A

Matrix: Water

Analysis Batch: 639090

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 638730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0400		mg/L		100	85 - 115
Arsenic	0.0400	0.0400		mg/L		100	89 - 111
Barium	0.0400	0.0401		mg/L		100	89 - 115
Beryllium	0.0400	0.0390		mg/L		97	85 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-638730/24-A
Matrix: Water
Analysis Batch: 639090

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 638730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0400	0.0401		mg/L		100	89 - 111
Chromium	0.0400	0.0399		mg/L		100	86 - 115
Cobalt	0.0400	0.0399		mg/L		100	92 - 115
Lead	0.0400	0.0402		mg/L		101	88 - 115
Manganese	0.0400	0.0392		mg/L		98	87 - 115
Molybdenum	0.0400	0.0400		mg/L		100	89 - 112
Nickel	0.0400	0.0392		mg/L		98	86 - 115
Selenium	0.0400	0.0394		mg/L		99	85 - 114
Silver	0.0400	0.0390		mg/L		97	90 - 114
Thallium	0.0400	0.0411		mg/L		103	86 - 115
Uranium	0.0400	0.0408		mg/L		102	85 - 115
Vanadium	0.0400	0.0398		mg/L		99	90 - 115
Zinc	0.0400	0.0387		mg/L		97	88 - 115

Lab Sample ID: LCS 280-638730/24-A
Matrix: Water
Analysis Batch: 639297

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 638730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.0400	0.0403		mg/L		101	90 - 115

Lab Sample ID: 280-186000-1 MS
Matrix: Water
Analysis Batch: 639090

Client Sample ID: CROSS WELL
Prep Type: Dissolved
Prep Batch: 638730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0041		0.0400	0.0427		mg/L		97	85 - 115
Arsenic	ND		0.0400	0.0401		mg/L		100	79 - 120
Barium	0.029		0.0400	0.0709		mg/L		104	89 - 115
Beryllium	ND		0.0400	0.0403		mg/L		101	85 - 115
Cadmium	ND		0.0400	0.0408		mg/L		102	89 - 111
Chromium	ND		0.0400	0.0402		mg/L		100	86 - 115
Cobalt	ND		0.0400	0.0401		mg/L		100	92 - 115
Lead	0.00025	J	0.0400	0.0411		mg/L		102	88 - 115
Manganese	0.0011	J	0.0400	0.0417		mg/L		101	87 - 115
Molybdenum	0.00065	J	0.0400	0.0410		mg/L		101	89 - 112
Nickel	ND		0.0400	0.0401		mg/L		100	86 - 115
Selenium	ND		0.0400	0.0411		mg/L		103	85 - 114
Silver	0.000055	J	0.0400	0.0388		mg/L		97	70 - 130
Thallium	ND		0.0400	0.0410		mg/L		103	86 - 115
Uranium	ND		0.0400	0.0409		mg/L		102	85 - 115
Vanadium	0.0011	J	0.0400	0.0416		mg/L		104	90 - 115
Zinc	0.73	B	0.0400	0.789	4	mg/L		150	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-186000-1 MS

Matrix: Water

Analysis Batch: 639297

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.0099		0.0400	0.0498		mg/L		100	90 - 115

Lab Sample ID: 280-186000-1 MSD

Matrix: Water

Analysis Batch: 639090

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0041		0.0400	0.0413		mg/L		93	85 - 115	3	20
Arsenic	ND		0.0400	0.0409		mg/L		102	79 - 120	2	20
Barium	0.029		0.0400	0.0701		mg/L		102	89 - 115	1	20
Beryllium	ND		0.0400	0.0375		mg/L		94	85 - 115	7	20
Cadmium	ND		0.0400	0.0388		mg/L		97	89 - 111	5	20
Chromium	ND		0.0400	0.0397		mg/L		99	86 - 115	1	20
Cobalt	ND		0.0400	0.0401		mg/L		100	92 - 115	0	20
Lead	0.00025	J	0.0400	0.0414		mg/L		103	88 - 115	1	20
Manganese	0.0011	J	0.0400	0.0411		mg/L		100	87 - 115	2	20
Molybdenum	0.00065	J	0.0400	0.0402		mg/L		99	89 - 112	2	20
Nickel	ND		0.0400	0.0390		mg/L		98	86 - 115	3	20
Selenium	ND		0.0400	0.0385		mg/L		96	85 - 114	6	20
Silver	0.000055	J	0.0400	0.0391		mg/L		98	70 - 130	1	20
Thallium	ND		0.0400	0.0414		mg/L		103	86 - 115	1	20
Uranium	ND		0.0400	0.0414		mg/L		103	85 - 115	1	20
Vanadium	0.0011	J	0.0400	0.0412		mg/L		103	90 - 115	1	20
Zinc	0.73	B	0.0400	0.774	4	mg/L		112	88 - 115	2	20

Lab Sample ID: 280-186000-1 MSD

Matrix: Water

Analysis Batch: 639297

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	0.0099		0.0400	0.0500		mg/L		100	90 - 115	0	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-638279/1-A

Matrix: Water

Analysis Batch: 638435

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 638279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		12/22/23 11:02	12/22/23 20:00	1

Lab Sample ID: LCS 280-638279/2-A

Matrix: Water

Analysis Batch: 638435

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 638279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00503		mg/L		101	90 - 110

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 280-186000-1 MS

Matrix: Water

Analysis Batch: 638435

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00500	0.00503		mg/L		101	80 - 120

Lab Sample ID: 280-186000-1 MSD

Matrix: Water

Analysis Batch: 638435

Client Sample ID: CROSS WELL

Prep Type: Dissolved

Prep Batch: 638279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.00517		mg/L		103	80 - 120	3	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-638200/37

Matrix: Water

Analysis Batch: 638200

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			12/22/23 03:51	1
Nitrite as N	ND		0.50	0.049	mg/L			12/22/23 03:51	1

Lab Sample ID: MB 280-638200/67

Matrix: Water

Analysis Batch: 638200

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			12/22/23 11:22	1
Nitrite as N	0.0544	J	0.50	0.049	mg/L			12/22/23 11:22	1

Lab Sample ID: LCS 280-638200/35

Matrix: Water

Analysis Batch: 638200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.88		mg/L		98	90 - 110
Nitrite as N	5.00	4.95		mg/L		99	90 - 110

Lab Sample ID: LCS 280-638200/65

Matrix: Water

Analysis Batch: 638200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.94		mg/L		99	90 - 110
Nitrite as N	5.00	5.03	B	mg/L		101	90 - 110

Lab Sample ID: LCSD 280-638200/36

Matrix: Water

Analysis Batch: 638200

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.87		mg/L		97	90 - 110	0	10
Nitrite as N	5.00	4.96		mg/L		99	90 - 110	0	10

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-638200/66

Matrix: Water

Analysis Batch: 638200

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.96		mg/L		99	90 - 110	0	10
Nitrite as N	5.00	5.04	B	mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-638200/3

Matrix: Water

Analysis Batch: 638200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.500	0.460	J	mg/L		92	50 - 150		
Nitrite as N	0.500	0.464	J	mg/L		93	50 - 150		

Lab Sample ID: 280-186000-8 MS

Matrix: Water

Analysis Batch: 638200

Client Sample ID: CARIBOU PORTAL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.16	J	5.00	4.96		mg/L		96	80 - 120		
Nitrite as N	ND		5.00	4.85		mg/L		97	80 - 120		

Lab Sample ID: 280-186000-8 MSD

Matrix: Water

Analysis Batch: 638200

Client Sample ID: CARIBOU PORTAL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.16	J	5.00	4.44		mg/L		86	80 - 120	11	20
Nitrite as N	ND		5.00	4.33		mg/L		87	80 - 120	11	20

Lab Sample ID: 280-186000-8 DU

Matrix: Water

Analysis Batch: 638200

Client Sample ID: CARIBOU PORTAL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.16	J		0.156	J	mg/L				0.8	15
Nitrite as N	ND			ND		mg/L				NC	15

Lab Sample ID: MB 280-638702/6

Matrix: Water

Analysis Batch: 638702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			12/29/23 10:35	1

Lab Sample ID: LCS 280-638702/4

Matrix: Water

Analysis Batch: 638702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	5.00	4.87		mg/L		97	90 - 110		

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-638702/5

Matrix: Water

Analysis Batch: 638702

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	4.86		mg/L		97	90 - 110	0	10

Lab Sample ID: MRL 280-638702/3

Matrix: Water

Analysis Batch: 638702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.500	0.403	J	mg/L		81	50 - 150		

Lab Sample ID: 280-186000-8 MS

Matrix: Water

Analysis Batch: 638702

Client Sample ID: CARIBOU PORTAL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	ND	F1	5.00	3.89	F1	mg/L		78	80 - 120		

Lab Sample ID: 280-186000-8 MSD

Matrix: Water

Analysis Batch: 638702

Client Sample ID: CARIBOU PORTAL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	ND	F1	5.00	4.07		mg/L		81	80 - 120	5	20

Lab Sample ID: 280-186000-8 DU

Matrix: Water

Analysis Batch: 638702

Client Sample ID: CARIBOU PORTAL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	ND	F1		ND		mg/L				NC	15

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-639551/21

Matrix: Water

Analysis Batch: 639551

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			01/09/24 12:47	1

Lab Sample ID: LCS 280-639551/20

Matrix: Water

Analysis Batch: 639551

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	5.00	5.08		mg/L		102	90 - 110		

Eurofins Denver

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 160-52619-A-2 MS

Matrix: Water

Analysis Batch: 639551

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	2.3		4.00	6.31		mg/L		100	90 - 110		

Lab Sample ID: 160-52619-A-2 MSD

Matrix: Water

Analysis Batch: 639551

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	2.3		4.00	5.96		mg/L		92	90 - 110	6	10

Lab Sample ID: 160-52619-A-4 MS

Matrix: Water

Analysis Batch: 639551

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	0.76		4.00	4.70		mg/L		98	90 - 110		

Lab Sample ID: 160-52619-A-4 MSD

Matrix: Water

Analysis Batch: 639551

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.76		4.00	4.74		mg/L		100	90 - 110	1	10

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

Lab Sample ID: MB 280-638509/1

Matrix: Water

Analysis Batch: 638509

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			12/27/23 19:30	1

Lab Sample ID: LCS 280-638509/2

Matrix: Water

Analysis Batch: 638509

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids (TDS)	504	509		mg/L		101	88 - 114		

Lab Sample ID: LCSD 280-638509/3

Matrix: Water

Analysis Batch: 638509

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids (TDS)	504	500		mg/L		99	88 - 114	2	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

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

Lab Sample ID: 280-186000-3 DU

Matrix: Water

Analysis Batch: 638509

Client Sample ID: COMPLIANCE 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	86		80.0		mg/L		7	10

Lab Sample ID: MB 280-638510/1

Matrix: Water

Analysis Batch: 638510

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			12/27/23 19:32	1

Lab Sample ID: LCS 280-638510/2

Matrix: Water

Analysis Batch: 638510

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids (TDS)	506	511		mg/L		101	88 - 114

Lab Sample ID: 280-186000-4 DU

Matrix: Water

Analysis Batch: 638510

Client Sample ID: COMPLIANCE 03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	ND		ND		mg/L		NC	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-639072/15

Matrix: Water

Analysis Batch: 639072

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			01/03/24 18:36	1

Lab Sample ID: MB 280-639072/49

Matrix: Water

Analysis Batch: 639072

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			01/03/24 19:37	1

Lab Sample ID: LCS 280-639072/13

Matrix: Water

Analysis Batch: 639072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.5		mg/L		98	90 - 110

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCSD 280-639072/14

Matrix: Water

Analysis Batch: 639072

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	19.7		mg/L		99	90 - 110	1	10

Lab Sample ID: 280-186000-4 MS

Matrix: Water

Analysis Batch: 639072

Client Sample ID: COMPLIANCE 03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		20.0	19.9		mg/L		100	90 - 110		

Lab Sample ID: 280-186000-4 MSD

Matrix: Water

Analysis Batch: 639072

Client Sample ID: COMPLIANCE 03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		20.0	20.0		mg/L		100	90 - 110	0	10

Method: SM 4500 CN I - Cyanide, Weak Acid Dissociable

Lab Sample ID: MB 280-639034/20

Matrix: Water

Analysis Batch: 639034

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		0.010	0.0050	mg/L			01/03/24 12:57	1

Lab Sample ID: HLCS 280-639034/33

Matrix: Water

Analysis Batch: 639034

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	0.350	0.378		mg/L		108	75 - 120		

Lab Sample ID: LCS 280-639034/17

Matrix: Water

Analysis Batch: 639034

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	0.0999	0.107		mg/L		107	75 - 120		

Lab Sample ID: LLCS 280-639034/18

Matrix: Water

Analysis Batch: 639034

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	0.100	0.106		mg/L		106	90 - 110		

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: SM 4500 CN I - Cyanide, Weak Acid Dissociable (Continued)

Lab Sample ID: 280-186028-I-1 MS

Matrix: Water

Analysis Batch: 639034

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	ND		0.0999	0.104		mg/L		105	75 - 120		

Lab Sample ID: 280-186028-I-1 MSD

Matrix: Water

Analysis Batch: 639034

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	ND		0.0999	0.116		mg/L		116	75 - 120	11	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 280-639066/14

Matrix: Water

Analysis Batch: 639066

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.71	mg/L			01/03/24 17:27	1

Lab Sample ID: MB 280-639066/41

Matrix: Water

Analysis Batch: 639066

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.71	mg/L			01/03/24 17:33	1

Lab Sample ID: LCS 280-639066/12

Matrix: Water

Analysis Batch: 639066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	25.0	25.2		mg/L		101	90 - 110		

Lab Sample ID: LCS 280-639066/39

Matrix: Water

Analysis Batch: 639066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	25.0	25.6		mg/L		102	90 - 110		

Lab Sample ID: LCSD 280-639066/13

Matrix: Water

Analysis Batch: 639066

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	25.0	25.4		mg/L		102	90 - 110	1	10

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCSD 280-639066/40
Matrix: Water
Analysis Batch: 639066

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	25.0	25.6		mg/L		102	90 - 110	0	10

Lab Sample ID: 280-186000-4 MS
Matrix: Water
Analysis Batch: 639066

Client Sample ID: COMPLIANCE 03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND		25.0	25.9		mg/L		103	90 - 110		

Lab Sample ID: 280-186000-4 MSD
Matrix: Water
Analysis Batch: 639066

Client Sample ID: COMPLIANCE 03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND		25.0	25.6		mg/L		102	90 - 110	1	10

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-642528/1-A
Matrix: Water
Analysis Batch: 643034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642528

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.3566	U	0.589	0.590	3.00	1.01	pCi/L	12/29/23 08:47	01/04/24 07:14	1
Gross Beta	0.8872		0.569	0.576	4.00	0.861	pCi/L	12/29/23 08:47	01/04/24 07:14	1

Lab Sample ID: LCS 160-642528/2-A
Matrix: Water
Analysis Batch: 643034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642528

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RPD	RPD Limit
Gross Alpha	49.3	58.35		8.50	3.00	1.98	pCi/L	118	75 - 125		

Lab Sample ID: LCSB 160-642528/3-A
Matrix: Water
Analysis Batch: 643034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642528

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RPD	RPD Limit
Gross Beta	72.1	72.95		7.82	4.00	0.949	pCi/L	101	75 - 125		

Lab Sample ID: 410-155611-E-4-B MS
Matrix: Water
Analysis Batch: 643032

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 642528

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RPD	RPD Limit
Gross Alpha	0.678	U G	128	136.0		20.2	3.00	6.50	pCi/L	106	60 - 140		

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: 410-155611-E-4-C MSBT
Matrix: Water
Analysis Batch: 643032

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 642528

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	0.297	U	187	190.1		20.5	4.00	2.62	pCi/L	101	60 - 140

Lab Sample ID: 410-155611-E-4-D DU
Matrix: Water
Analysis Batch: 643032

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 642528

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Gross Alpha	0.678	U G	-1.608	U G	2.59	3.00	5.67	pCi/L	0.38	1
Gross Beta	0.297	U	2.395	U	1.69	4.00	2.62	pCi/L	0.68	1

Method: 901.1 - Cesium 137 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-642355/1-A
Matrix: Water
Analysis Batch: 642768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642355

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	3.863	U	10.0	10.0	20.0	17.3	pCi/L	12/28/23 10:31	01/03/24 16:40	1
Other Detected Radionuclides	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide	None						pCi/L	12/28/23 10:31	01/03/24 16:40	1

Lab Sample ID: LCS 160-642355/2-A
Matrix: Water
Analysis Batch: 642769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642355

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	135000	142100		16900		441	pCi/L	105	75 - 125
Cesium-137	40100	41800		4980	20.0	106	pCi/L	104	75 - 125
Cobalt-60	16100	16850		2010		54.5	pCi/L	105	75 - 125

Lab Sample ID: 280-186000-1 DU
Matrix: Water
Analysis Batch: 642769

Client Sample ID: CROSS WELL
Prep Type: Dissolved
Prep Batch: 642355

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Cesium-137	6.35	U G	5.917	U	10.6	20.0	17.8	pCi/L	0.02	1
Other Detected Radionuclides	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Bi-214	171		116.0		32.0		28.9	pCi/L	0.77	1
Pb-214	133		110.3		25.5		28.3	pCi/L	0.40	1

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Metals

Prep Batch: 638279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Dissolved	Water	245.1	
280-186000-2	COMPLIANCE WELL	Dissolved	Water	245.1	
280-186000-3	COMPLIANCE 02	Dissolved	Water	245.1	
280-186000-4	COMPLIANCE 03	Dissolved	Water	245.1	
280-186000-5	CARIBOU WELL	Dissolved	Water	245.1	
280-186000-6	CROSS PORTAL	Dissolved	Water	245.1	
280-186000-7	CROSS PORTAL 02	Dissolved	Water	245.1	
280-186000-8	CARIBOU PORTAL	Dissolved	Water	245.1	
MB 280-638279/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-638279/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-186000-1 MS	CROSS WELL	Dissolved	Water	245.1	
280-186000-1 MSD	CROSS WELL	Dissolved	Water	245.1	

Analysis Batch: 638435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Dissolved	Water	245.1	638279
280-186000-2	COMPLIANCE WELL	Dissolved	Water	245.1	638279
280-186000-3	COMPLIANCE 02	Dissolved	Water	245.1	638279
280-186000-4	COMPLIANCE 03	Dissolved	Water	245.1	638279
280-186000-5	CARIBOU WELL	Dissolved	Water	245.1	638279
280-186000-6	CROSS PORTAL	Dissolved	Water	245.1	638279
280-186000-7	CROSS PORTAL 02	Dissolved	Water	245.1	638279
280-186000-8	CARIBOU PORTAL	Dissolved	Water	245.1	638279
MB 280-638279/1-A	Method Blank	Total/NA	Water	245.1	638279
LCS 280-638279/2-A	Lab Control Sample	Total/NA	Water	245.1	638279
280-186000-1 MS	CROSS WELL	Dissolved	Water	245.1	638279
280-186000-1 MSD	CROSS WELL	Dissolved	Water	245.1	638279

Prep Batch: 638730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Dissolved	Water	200.7	
280-186000-1	CROSS WELL	Dissolved	Water	200.8	
280-186000-2	COMPLIANCE WELL	Dissolved	Water	200.8	
280-186000-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-186000-4	COMPLIANCE 03	Dissolved	Water	200.8	
280-186000-5	CARIBOU WELL	Dissolved	Water	200.8	
280-186000-6	CROSS PORTAL	Dissolved	Water	200.8	
280-186000-7	CROSS PORTAL 02	Dissolved	Water	200.8	
280-186000-8	CARIBOU PORTAL	Dissolved	Water	200.8	
MB 280-638730/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-638730/24-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-638730/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-186000-1 MS	CROSS WELL	Dissolved	Water	200.7	
280-186000-1 MS	CROSS WELL	Dissolved	Water	200.8	
280-186000-1 MSD	CROSS WELL	Dissolved	Water	200.7	
280-186000-1 MSD	CROSS WELL	Dissolved	Water	200.8	

Analysis Batch: 639090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Dissolved	Water	200.8	638730
280-186000-2	COMPLIANCE WELL	Dissolved	Water	200.8	638730

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Metals (Continued)

Analysis Batch: 639090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-3	COMPLIANCE 02	Dissolved	Water	200.8	638730
280-186000-4	COMPLIANCE 03	Dissolved	Water	200.8	638730
280-186000-5	CARIBOU WELL	Dissolved	Water	200.8	638730
280-186000-6	CROSS PORTAL	Dissolved	Water	200.8	638730
280-186000-7	CROSS PORTAL 02	Dissolved	Water	200.8	638730
280-186000-8	CARIBOU PORTAL	Dissolved	Water	200.8	638730
MB 280-638730/1-A	Method Blank	Total Recoverable	Water	200.8	638730
LCS 280-638730/24-A	Lab Control Sample	Total Recoverable	Water	200.8	638730
280-186000-1 MS	CROSS WELL	Dissolved	Water	200.8	638730
280-186000-1 MSD	CROSS WELL	Dissolved	Water	200.8	638730

Analysis Batch: 639205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-5	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-8	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	638730
MB 280-638730/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	638730
LCS 280-638730/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	638730
280-186000-1 MS	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-1 MSD	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	638730

Analysis Batch: 639297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Dissolved	Water	200.8	638730
280-186000-2	COMPLIANCE WELL	Dissolved	Water	200.8	638730
280-186000-3	COMPLIANCE 02	Dissolved	Water	200.8	638730
280-186000-4	COMPLIANCE 03	Dissolved	Water	200.8	638730
280-186000-5	CARIBOU WELL	Dissolved	Water	200.8	638730
280-186000-6	CROSS PORTAL	Dissolved	Water	200.8	638730
280-186000-7	CROSS PORTAL 02	Dissolved	Water	200.8	638730
280-186000-8	CARIBOU PORTAL	Dissolved	Water	200.8	638730
MB 280-638730/1-A	Method Blank	Total Recoverable	Water	200.8	638730
LCS 280-638730/24-A	Lab Control Sample	Total Recoverable	Water	200.8	638730
280-186000-1 MS	CROSS WELL	Dissolved	Water	200.8	638730
280-186000-1 MSD	CROSS WELL	Dissolved	Water	200.8	638730

Analysis Batch: 639469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-5	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-8	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	638730

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Metals (Continued)

Analysis Batch: 639469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-638730/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	638730
LCS 280-638730/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	638730
280-186000-1 MS	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	638730
280-186000-1 MSD	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	638730

General Chemistry

Analysis Batch: 638200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Total/NA	Water	300.0	
280-186000-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-186000-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-186000-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-186000-5	CARIBOU WELL	Total/NA	Water	300.0	
280-186000-6	CROSS PORTAL	Total/NA	Water	300.0	
280-186000-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-186000-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-638200/37	Method Blank	Total/NA	Water	300.0	
MB 280-638200/67	Method Blank	Total/NA	Water	300.0	
LCS 280-638200/35	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-638200/65	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-638200/36	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-638200/66	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-638200/3	Lab Control Sample	Total/NA	Water	300.0	
280-186000-8 MS	CARIBOU PORTAL	Total/NA	Water	300.0	
280-186000-8 MSD	CARIBOU PORTAL	Total/NA	Water	300.0	
280-186000-8 DU	CARIBOU PORTAL	Total/NA	Water	300.0	

Analysis Batch: 638509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Total/NA	Water	SM 2540C	
280-186000-2	COMPLIANCE WELL	Total/NA	Water	SM 2540C	
280-186000-3	COMPLIANCE 02	Total/NA	Water	SM 2540C	
MB 280-638509/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-638509/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-638509/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-186000-3 DU	COMPLIANCE 02	Total/NA	Water	SM 2540C	

Analysis Batch: 638510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-4	COMPLIANCE 03	Total/NA	Water	SM 2540C	
280-186000-5	CARIBOU WELL	Total/NA	Water	SM 2540C	
280-186000-6	CROSS PORTAL	Total/NA	Water	SM 2540C	
280-186000-7	CROSS PORTAL 02	Total/NA	Water	SM 2540C	
280-186000-8	CARIBOU PORTAL	Total/NA	Water	SM 2540C	
MB 280-638510/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-638510/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-186000-4 DU	COMPLIANCE 03	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

General Chemistry

Analysis Batch: 638702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Total/NA	Water	300.0	
280-186000-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-186000-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-186000-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-186000-5	CARIBOU WELL	Total/NA	Water	300.0	
280-186000-6	CROSS PORTAL	Total/NA	Water	300.0	
280-186000-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-186000-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-638702/6	Method Blank	Total/NA	Water	300.0	
LCS 280-638702/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-638702/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-638702/3	Lab Control Sample	Total/NA	Water	300.0	
280-186000-8 MS	CARIBOU PORTAL	Total/NA	Water	300.0	
280-186000-8 MSD	CARIBOU PORTAL	Total/NA	Water	300.0	
280-186000-8 DU	CARIBOU PORTAL	Total/NA	Water	300.0	

Analysis Batch: 639034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Total/NA	Water	SM 4500 CN I	
280-186000-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 CN I	
280-186000-3	COMPLIANCE 02	Total/NA	Water	SM 4500 CN I	
280-186000-4	COMPLIANCE 03	Total/NA	Water	SM 4500 CN I	
280-186000-5	CARIBOU WELL	Total/NA	Water	SM 4500 CN I	
280-186000-6	CROSS PORTAL	Total/NA	Water	SM 4500 CN I	
280-186000-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 CN I	
280-186000-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 CN I	
MB 280-639034/20	Method Blank	Total/NA	Water	SM 4500 CN I	
HLCS 280-639034/33	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LCS 280-639034/17	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
LLCS 280-639034/18	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
280-186028-I-1 MS	Matrix Spike	Total/NA	Water	SM 4500 CN I	
280-186028-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CN I	

Analysis Batch: 639066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
280-186000-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 SO4 E	
280-186000-3	COMPLIANCE 02	Total/NA	Water	SM 4500 SO4 E	
280-186000-4	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-186000-5	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-186000-6	CROSS PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-186000-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 SO4 E	
280-186000-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
MB 280-639066/14	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 280-639066/41	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 280-639066/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 280-639066/39	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-639066/13	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-639066/40	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
280-186000-4 MS	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-186000-4 MSD	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

General Chemistry

Analysis Batch: 639072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Total/NA	Water	SM 4500 Cl- E	
280-186000-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 Cl- E	
280-186000-3	COMPLIANCE 02	Total/NA	Water	SM 4500 Cl- E	
280-186000-4	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	
280-186000-5	CARIBOU WELL	Total/NA	Water	SM 4500 Cl- E	
280-186000-6	CROSS PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-186000-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 Cl- E	
280-186000-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	
MB 280-639072/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 280-639072/49	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-639072/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 280-639072/47	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-639072/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-639072/48	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-186000-4 MS	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	
280-186000-4 MSD	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 639551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Total/NA	Water	353.2	
280-186000-2	COMPLIANCE WELL	Total/NA	Water	353.2	
280-186000-3	COMPLIANCE 02	Total/NA	Water	353.2	
280-186000-4	COMPLIANCE 03	Total/NA	Water	353.2	
280-186000-5	CARIBOU WELL	Total/NA	Water	353.2	
280-186000-6	CROSS PORTAL	Total/NA	Water	353.2	
280-186000-7	CROSS PORTAL 02	Total/NA	Water	353.2	
280-186000-8	CARIBOU PORTAL	Total/NA	Water	353.2	
MB 280-639551/21	Method Blank	Total/NA	Water	353.2	
LCS 280-639551/20	Lab Control Sample	Total/NA	Water	353.2	
160-52619-A-2 MS	Matrix Spike	Total/NA	Water	353.2	
160-52619-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
160-52619-A-4 MS	Matrix Spike	Total/NA	Water	353.2	
160-52619-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Rad

Prep Batch: 642355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Dissolved	Water	Fill_Geo-0	
280-186000-2	COMPLIANCE WELL	Dissolved	Water	Fill_Geo-0	
280-186000-3	COMPLIANCE 02	Dissolved	Water	Fill_Geo-0	
280-186000-4	COMPLIANCE 03	Dissolved	Water	Fill_Geo-0	
280-186000-5	CARIBOU WELL	Dissolved	Water	Fill_Geo-0	
280-186000-6	CROSS PORTAL	Dissolved	Water	Fill_Geo-0	
280-186000-7	CROSS PORTAL 02	Dissolved	Water	Fill_Geo-0	
280-186000-8	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	
MB 160-642355/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-642355/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
280-186000-1 DU	CROSS WELL	Dissolved	Water	Fill_Geo-0	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Rad

Prep Batch: 642528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186000-1	CROSS WELL	Dissolved	Water	Evaporation	
280-186000-2	COMPLIANCE WELL	Dissolved	Water	Evaporation	
280-186000-3	COMPLIANCE 02	Dissolved	Water	Evaporation	
280-186000-4	COMPLIANCE 03	Dissolved	Water	Evaporation	
280-186000-5	CARIBOU WELL	Dissolved	Water	Evaporation	
280-186000-6	CROSS PORTAL	Dissolved	Water	Evaporation	
280-186000-7	CROSS PORTAL 02	Dissolved	Water	Evaporation	
280-186000-8	CARIBOU PORTAL	Dissolved	Water	Evaporation	
MB 160-642528/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-642528/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-642528/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
410-155611-E-4-B MS	Matrix Spike	Total/NA	Water	Evaporation	
410-155611-E-4-C MSBT	Matrix Spike	Total/NA	Water	Evaporation	
410-155611-E-4-D DU	Duplicate	Total/NA	Water	Evaporation	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-186000-1

Date Collected: 12/21/23 13:00

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.7			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639205	01/04/24 00:22	BN	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639469	01/09/24 03:55	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639090	01/03/24 18:19	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639297	01/04/24 16:54	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	638279	12/22/23 11:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			638435	12/22/23 20:07	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638200	12/22/23 13:52	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638702	12/29/23 20:57	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	639551	01/09/24 12:59	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	638509	12/27/23 19:30	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	639072	01/03/24 18:43	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	639034	01/03/24 13:07	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	639066	01/03/24 17:34	SL	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	642528	12/29/23 08:47	ASG	EET SL
Dissolved	Analysis	900.0		1			643034	01/04/24 18:57	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	642355	12/28/23 10:31	SAC	EET SL
Dissolved	Analysis	901.1		1			642768	01/03/24 19:44	CAH	EET SL

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-186000-2

Date Collected: 12/21/23 13:30

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639205	01/04/24 00:39	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639469	01/09/24 04:27	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639090	01/03/24 18:35	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639297	01/04/24 17:06	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	638279	12/22/23 11:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			638435	12/22/23 20:15	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638200	12/22/23 14:07	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638702	12/29/23 20:46	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	639551	01/09/24 13:00	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	638509	12/27/23 19:30	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	639072	01/03/24 18:43	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	639034	01/03/24 13:10	MMP	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-186000-2

Date Collected: 12/21/23 13:30

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	639066	01/03/24 17:34	SL	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	642528	12/29/23 08:47	ASG	EET SL
Dissolved	Analysis	900.0		1			643034	01/04/24 18:57	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	642355	12/28/23 10:31	SAC	EET SL
Dissolved	Analysis	901.1		1			642768	01/03/24 20:57	CAH	EET SL

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-186000-3

Date Collected: 12/21/23 13:30

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639205	01/04/24 00:43	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639469	01/09/24 04:31	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639090	01/03/24 18:37	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639297	01/04/24 17:08	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	638279	12/22/23 11:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			638435	12/22/23 20:17	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638200	12/22/23 13:22	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638702	12/29/23 20:35	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	639551	01/09/24 13:10	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	638509	12/27/23 19:30	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	639072	01/03/24 18:43	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	639034	01/03/24 13:13	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	639066	01/03/24 17:34	SL	EET DEN
Dissolved	Prep	Evaporation			199.98 mL	1.0 g	642528	12/29/23 08:47	ASG	EET SL
Dissolved	Analysis	900.0		1			643034	01/04/24 18:57	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	642355	12/28/23 10:31	SAC	EET SL
Dissolved	Analysis	901.1		1			642769	01/03/24 22:06	CAH	EET SL

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-186000-4

Date Collected: 12/21/23 13:30

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639205	01/04/24 00:47	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639469	01/09/24 04:35	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639090	01/03/24 18:39	LMT	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-186000-4

Date Collected: 12/21/23 13:30

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639297	01/04/24 17:10	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	638279	12/22/23 11:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			638435	12/22/23 20:20	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638200	12/22/23 13:37	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638702	12/29/23 20:24	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	639551	01/09/24 13:11	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	638510	12/27/23 19:32	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	639072	01/03/24 18:42	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	639034	01/03/24 13:15	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	639066	01/03/24 17:34	SL	EET DEN
Dissolved	Prep	Evaporation			199.99 mL	1.0 g	642528	12/29/23 08:47	ASG	EET SL
Dissolved	Analysis	900.0		1			643034	01/04/24 18:57	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	642355	12/28/23 10:31	SAC	EET SL
Dissolved	Analysis	901.1		1			642768	01/03/24 22:05	CAH	EET SL

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-186000-5

Date Collected: 12/21/23 11:30

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639205	01/04/24 00:51	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639469	01/09/24 04:39	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639090	01/03/24 18:42	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639297	01/04/24 17:12	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	638279	12/22/23 11:02	KMS	EET DEN
Dissolved	Analysis	245.1		1			638435	12/22/23 20:22	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638200	12/22/23 13:07	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638702	12/29/23 20:13	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	639551	01/09/24 13:16	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	638510	12/27/23 19:32	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	639072	01/03/24 19:43	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	639034	01/03/24 13:18	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	639066	01/03/24 17:33	SL	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	642528	12/29/23 08:47	ASG	EET SL
Dissolved	Analysis	900.0		1			643034	01/04/24 18:57	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	642355	12/28/23 10:31	SAC	EET SL
Dissolved	Analysis	901.1		1			642773	01/03/24 22:06	CAH	EET SL

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-186000-6

Date Collected: 12/21/23 12:15

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639205	01/04/24 01:11	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639469	01/09/24 04:43	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639090	01/03/24 18:44	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639297	01/04/24 17:15	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	638279	12/22/23 11:03	KMS	EET DEN
Dissolved	Analysis	245.1		1			638435	12/22/23 20:30	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638200	12/22/23 10:22	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638702	12/29/23 20:02	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	639551	01/09/24 13:17	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	638510	12/27/23 19:32	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	639072	01/03/24 19:43	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	639034	01/03/24 13:21	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	639066	01/03/24 17:33	SL	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	642528	12/29/23 08:47	ASG	EET SL
Dissolved	Analysis	900.0		1			643034	01/04/24 18:58	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	642355	12/28/23 10:31	SAC	EET SL
Dissolved	Analysis	901.1		1			642931	01/04/24 08:07	LAM	EET SL

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-186000-7

Date Collected: 12/21/23 12:15

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639205	01/04/24 01:15	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639469	01/09/24 04:47	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639090	01/03/24 18:46	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639297	01/04/24 16:44	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	638279	12/22/23 11:03	KMS	EET DEN
Dissolved	Analysis	245.1		1			638435	12/22/23 20:33	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638200	12/22/23 10:37	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638702	12/29/23 19:51	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	639551	01/09/24 13:19	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	638510	12/27/23 19:32	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	639072	01/03/24 19:42	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	639034	01/03/24 13:23	MMP	EET DEN

Eurofins Denver

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-186000-7

Date Collected: 12/21/23 12:15

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	639066	01/03/24 17:32	SL	EET DEN
Dissolved	Prep	Evaporation			199.99 mL	1.0 g	642528	12/29/23 08:47	ASG	EET SL
Dissolved	Analysis	900.0		1			643034	01/04/24 18:58	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	642355	12/28/23 10:31	SAC	EET SL
Dissolved	Analysis	901.1		1			643039	01/04/24 08:08	LAM	EET SL

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-186000-8

Date Collected: 12/21/23 11:15

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639205	01/04/24 01:19	BN	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			639469	01/09/24 04:51	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639090	01/03/24 18:48	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	638730	01/02/24 08:30	AES	EET DEN
Dissolved	Analysis	200.8		1			639297	01/04/24 16:46	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	638279	12/22/23 11:03	KMS	EET DEN
Dissolved	Analysis	245.1		1			638435	12/22/23 20:35	KMS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638200	12/22/23 12:07	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	638702	12/29/23 19:07	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	639551	01/09/24 13:20	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	638510	12/27/23 19:32	CAI	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	639072	01/03/24 19:42	SL	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	639034	01/03/24 13:26	MMP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	639066	01/03/24 17:32	SL	EET DEN
Dissolved	Prep	Evaporation			199.99 mL	1.0 g	642528	12/29/23 08:47	ASG	EET SL
Dissolved	Analysis	900.0		1			643034	01/04/24 18:58	FLC	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	642355	12/28/23 10:31	SAC	EET SL
Dissolved	Analysis	901.1		1			643037	01/04/24 08:08	LAM	EET SL

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25

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

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO - Groundwater

Job ID: 280-186000-1

Laboratory: Eurofins St. Louis (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
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	01-31-24

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

Eurofins Denver

Ver: 01/16/2019

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

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Sampler:	Lab PM:		Carrier Tracking No(s):		COC No:				
Client Contact:		Phone:	Blenius, Dylan T				280-686587.1				
Shipping/Receiving		E-Mail:		State of Origin:		Page					
Company:		Dylan.Blenius@eurofins.com		Colorado		Page 1 of 1					
TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #		280-186000-1					
Address:		Due Date Requested:		Analysis Requested		Preservation Codes:					
13715 Rider Trail North,		1/16/2024				A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)					
City:		TAT Requested (days):									
Earth City											
State, Zip:											
MO, 63045											
Phone:		PO #									
314-298-8566(Tel) 314-298-8757(Fax)											
Email:		WO #									
Project Name:		Project #:									
Nederland, CO - Groundwater		28025589									
Site:		SSOW#									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/OH, AT=tissue, AA=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	901.1, Cs/FIELD, FLTRD, MOD) Cesium-137 only	900.0/FIELD, FLTRD Standard Target List	Total Number of containers	Special Instructions/Note:
CROSS WELL (280-186000-1)	12/21/23	13:00	Mountain	Water	Water	X	X	X	X	2	
COMPLIANCE WELL (280-186000-2)	12/21/23	13:30	Mountain	Water	Water	X	X	X	X	2	
COMPLIANCE 02 (280-186000-3)	12/21/23	13:30	Mountain	Water	Water	X	X	X	X	2	
COMPLIANCE 03 (280-186000-4)	12/21/23	13:30	Mountain	Water	Water	X	X	X	X	2	
CARIBOU WELL (280-186000-5)	12/21/23	11:30	Mountain	Water	Water	X	X	X	X	2	
CROSS PORTAL (280-186000-6)	12/21/23	12:15	Mountain	Water	Water	X	X	X	X	2	
CROSS PORTAL 02 (280-186000-7)	12/21/23	12:15	Mountain	Water	Water	X	X	X	X	2	
CARIBOU PORTAL (280-186000-8)	12/21/23	11:15	Mountain	Water	Water	X	X	X	X	2	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify)											
Primary Deliverable Rank: 2											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months											
Special Instructions/QC Requirements:											
Empty Kit Relinquished by:											
Date:											
Time:											
Relinquished by:											
Date/Time:											
Company:											
Relinquished by:											
Date/Time:											
Company:											
Relinquished by:											
Date/Time:											
Company:											
Custody Seals Intact:											
Custody Seal No.:											
Cooler Temperature(s) °C and Other Remarks											

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-186000-1

Login Number: 186000

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

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

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-186000-1

Login Number: 186000

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins St. Louis

List Creation: 12/27/23 02:29 PM

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

APPENDIX B OUTFALL ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 10/30/2023 1:07:54 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-182908-1

Eurofins Denver

Job Notes

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

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

Authorization



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10/30/2023 1:07:54 PM

Authorized for release by
Dylan Bieniulis, Project Manager I
Dylan.Bieniulis@et.eurofinsus.com
(303)736-0138

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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	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.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Job ID: 280-182908-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-182908-1

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 10/13/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.7 C.

TOTAL RECOVERABLE METALS (ICP)

Sample UTFALL-001 (280-182908-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 10/24/2023.

Iron was detected in method blank MB 280-630739/1-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 UTFALL-001 (280-182908-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 10/21/2023 and analyzed on 10/22/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample UTFALL-001 (280-182908-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 10/25/2023.

Arsenic was detected in method blank MB 280-630911/1-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 UTFALL-001 (280-182908-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Job ID: 280-182908-1 (Continued)

Laboratory: Eurofins Denver (Continued)

prepared and analyzed on 10/26/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample UTFALL-001 (280-182908-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 10/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample UTFALL-001 (280-182908-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 10/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample UTFALL-001 (280-182908-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 10/19/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample UTFALL-001 (280-182908-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 10/19/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample UTFALL-001 (280-182908-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 10/13/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample UTFALL-001 (280-182908-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 10/13/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample UTFALL-001 (280-182908-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 10/16/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample UTFALL-001 (280-182908-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 10/19/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample UTFALL-001 (280-182908-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 10/18/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-182908-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	19	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total
Arsenic	0.53	J B	5.0	0.50	ug/L	1		200.8	Recoverable
Copper	0.93	J	2.0	0.71	ug/L	1		200.8	Total
Lead	0.70	J	1.0	0.23	ug/L	1		200.8	Recoverable
Zinc	14		10	2.0	ug/L	1		200.8	Total
Copper	1.4	J	2.0	0.71	ug/L	1		200.8	Recoverable
Lead	1.0		1.0	0.23	ug/L	1		200.8	Potentially
Manganese	2.8	J	3.0	0.51	ug/L	1		200.8	Dissolved
Zinc	23		10	2.0	ug/L	1		200.8	Potentially
Specific Conductance	230		2.0	2.0	umhos/cm	1		SM 2510B	Dissolved
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.0	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.9		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	20		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.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

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

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

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-182908-1	OUTFALL-001	Water	10/13/23 11:00	10/13/23 14:25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 10/13/23 11:00
Date Received: 10/13/23 14:25

Lab Sample ID: 280-182908-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	19	J B	100	9.1	ug/L		10/24/23 08:50	10/24/23 20:10	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 10/13/23 11:00
Date Received: 10/13/23 14:25

Lab Sample ID: 280-182908-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.53	J B	5.0	0.50	ug/L		10/25/23 08:45	10/25/23 19:01	1
Cadmium	ND		1.0	0.19	ug/L		10/25/23 08:45	10/25/23 19:01	1
Chromium	ND		3.0	0.50	ug/L		10/25/23 08:45	10/25/23 19:01	1
Copper	0.93	J	2.0	0.71	ug/L		10/25/23 08:45	10/25/23 19:01	1
Lead	0.70	J	1.0	0.23	ug/L		10/25/23 08:45	10/25/23 19:01	1
Zinc	14		10	2.0	ug/L		10/25/23 08:45	10/25/23 19:01	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 10/13/23 11:00
Date Received: 10/13/23 14:25

Lab Sample ID: 280-182908-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/21/23 09:00	10/22/23 21:18	1
Cadmium	ND		1.0	0.19	ug/L		10/21/23 09:00	10/22/23 21:18	1
Chromium	ND		3.0	0.50	ug/L		10/21/23 09:00	10/22/23 21:18	1
Copper	1.4	J	2.0	0.71	ug/L		10/21/23 09:00	10/22/23 21:18	1
Lead	1.0		1.0	0.23	ug/L		10/21/23 09:00	10/22/23 21:18	1
Manganese	2.8	J	3.0	0.51	ug/L		10/21/23 09:00	10/22/23 21:18	1
Nickel	ND		3.0	0.83	ug/L		10/21/23 09:00	10/22/23 21:18	1
Selenium	ND		5.0	1.0	ug/L		10/21/23 09:00	10/22/23 21:18	1
Silver	ND		0.50	0.045	ug/L		10/21/23 09:00	10/22/23 21:18	1
Zinc	23		10	2.0	ug/L		10/21/23 09:00	10/22/23 21:18	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 10/13/23 11:00
Date Received: 10/13/23 14:25

Lab Sample ID: 280-182908-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/26/23 15:20	10/26/23 19:08	1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 10/13/23 11:00
Date Received: 10/13/23 14:25

Lab Sample ID: 280-182908-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	230		2.0	2.0	umhos/cm			10/19/23 17:22	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			10/19/23 13:21	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			10/13/23 17:15	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			10/16/23 14:07	1
Temperature (SM 4500 H+ B)	20.0	HF	1.0	1.0	Degrees C			10/16/23 14:07	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

General Chemistry (Continued)

Client Sample ID: OUTFALL-001

Date Collected: 10/13/23 11:00

Date Received: 10/13/23 14:25

Lab Sample ID: 280-182908-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			10/19/23 16:12	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			10/18/23 00:41	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			10/18/23 00:41	1
Field Temperature (SM4500 S2 H)	20		1.0	1.0	Celsius			10/18/23 00:41	1
Specific Conductance (SM4500 S2 H)	230		2.0	2.0	umhos/cm			10/18/23 00:41	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			10/18/23 00:41	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001

Date Collected: 10/13/23 11:00

Date Received: 10/13/23 14:25

Lab Sample ID: 280-182908-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L			10/27/23 15:15	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001

Date Collected: 10/13/23 11:00

Date Received: 10/13/23 14:25

Lab Sample ID: 280-182908-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			10/13/23 16:51	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001

Date Collected: 10/13/23 11:00

Date Received: 10/13/23 14:25

Lab Sample ID: 280-182908-1

Matrix: 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			10/27/23 15:23	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-630739/1-A
Matrix: Water
Analysis Batch: 631059

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 630739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	23.2	J	100	9.1	ug/L		10/24/23 08:50	10/24/23 18:17	1

Lab Sample ID: LCS 280-630739/2-A
Matrix: Water
Analysis Batch: 631059

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 630739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10300		ug/L		103	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-630911/1-A
Matrix: Water
Analysis Batch: 631200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 630911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.609	J	5.0	0.50	ug/L		10/25/23 08:45	10/25/23 18:09	1
Cadmium	ND		1.0	0.19	ug/L		10/25/23 08:45	10/25/23 18:09	1
Chromium	ND		3.0	0.50	ug/L		10/25/23 08:45	10/25/23 18:09	1
Copper	ND		2.0	0.71	ug/L		10/25/23 08:45	10/25/23 18:09	1
Lead	ND		1.0	0.23	ug/L		10/25/23 08:45	10/25/23 18:09	1
Zinc	ND		10	2.0	ug/L		10/25/23 08:45	10/25/23 18:09	1

Lab Sample ID: LCS 280-630911/2-A
Matrix: Water
Analysis Batch: 631200

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 630911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.2		ug/L		103	89 - 111
Cadmium	40.0	38.3		ug/L		96	89 - 111
Chromium	40.0	41.5		ug/L		104	86 - 115
Copper	40.0	39.8		ug/L		100	90 - 115
Lead	40.0	39.4		ug/L		98	88 - 115
Zinc	40.0	44.2		ug/L		111	88 - 115

Lab Sample ID: 280-182908-1 MS
Matrix: Water
Analysis Batch: 631200

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 630911

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.53	J B	40.0	40.3		ug/L		99	79 - 120
Cadmium	ND		40.0	37.1		ug/L		93	89 - 111
Chromium	ND		40.0	37.7		ug/L		94	86 - 115
Copper	0.93	J	40.0	37.0		ug/L		90	90 - 115
Lead	0.70	J	40.0	39.4		ug/L		97	88 - 115
Zinc	14		40.0	52.9		ug/L		96	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-182908-1 MSD

Matrix: Water

Analysis Batch: 631200

Client Sample ID: OUTFALL-001

Prep Type: Total Recoverable

Prep Batch: 630911

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.53	J B	40.0	40.1		ug/L		99	79 - 120	1	20
Cadmium	ND		40.0	38.2		ug/L		96	89 - 111	3	20
Chromium	ND		40.0	38.7		ug/L		97	86 - 115	3	20
Copper	0.93	J	40.0	38.8		ug/L		95	90 - 115	5	20
Lead	0.70	J	40.0	40.8		ug/L		100	88 - 115	4	20
Zinc	14		40.0	54.9		ug/L		101	88 - 115	4	20

Lab Sample ID: MB 280-630212/1-B

Matrix: Water

Analysis Batch: 630704

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 630548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/21/23 09:00	10/22/23 20:20	1
Cadmium	ND		1.0	0.19	ug/L		10/21/23 09:00	10/22/23 20:20	1
Chromium	ND		3.0	0.50	ug/L		10/21/23 09:00	10/22/23 20:20	1
Copper	ND		2.0	0.71	ug/L		10/21/23 09:00	10/22/23 20:20	1
Lead	ND		1.0	0.23	ug/L		10/21/23 09:00	10/22/23 20:20	1
Manganese	ND		3.0	0.51	ug/L		10/21/23 09:00	10/22/23 20:20	1
Nickel	ND		3.0	0.83	ug/L		10/21/23 09:00	10/22/23 20:20	1
Selenium	ND		5.0	1.0	ug/L		10/21/23 09:00	10/22/23 20:20	1
Silver	ND		0.50	0.045	ug/L		10/21/23 09:00	10/22/23 20:20	1
Zinc	ND		10	2.0	ug/L		10/21/23 09:00	10/22/23 20:20	1

Lab Sample ID: LCS 280-630212/2-B

Matrix: Water

Analysis Batch: 630704

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 630548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	39.3		ug/L		98	89 - 111
Cadmium	40.0	39.8		ug/L		100	89 - 111
Chromium	40.0	38.2		ug/L		96	86 - 115
Copper	40.0	37.6		ug/L		94	90 - 115
Lead	40.0	37.8		ug/L		95	88 - 115
Manganese	40.0	38.0		ug/L		95	87 - 115
Nickel	40.0	38.4		ug/L		96	86 - 115
Selenium	40.0	38.4		ug/L		96	85 - 114
Silver	40.0	39.5		ug/L		99	90 - 114
Zinc	40.0	41.1		ug/L		103	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-631288/1-A

Matrix: Water

Analysis Batch: 631479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 631288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/26/23 15:20	10/26/23 18:56	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-631288/2-A
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.15		ug/L		103	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-630434/5
Matrix: Water
Analysis Batch: 630434

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			10/19/23 17:22	1

Lab Sample ID: LCS 280-630434/4
Matrix: Water
Analysis Batch: 630434

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1480		umhos/cm		105	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-630399/3
Matrix: Water
Analysis Batch: 630399

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			10/19/23 13:21	1

Lab Sample ID: LCS 280-630399/1
Matrix: Water
Analysis Batch: 630399

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	501	411		mg/L		82	79 - 114

Lab Sample ID: LCSD 280-630399/2
Matrix: Water
Analysis Batch: 630399

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	501	422		mg/L		84	79 - 114	3	20

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-629731/19
Matrix: Water
Analysis Batch: 629731

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			10/13/23 17:14	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 280-629731/17

Matrix: Water

Analysis Batch: 629731

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.101		mg/L		101	91 - 112

Lab Sample ID: LCSD 280-629731/18

Matrix: Water

Analysis Batch: 629731

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.100		mg/L		100	91 - 112	1	20

Lab Sample ID: 280-182908-1 MS

Matrix: Water

Analysis Batch: 629731

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.100	0.107		mg/L		107	91 - 112

Lab Sample ID: 280-182908-1 MSD

Matrix: Water

Analysis Batch: 629731

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.110		mg/L		110	91 - 112	2	20

Lab Sample ID: 280-182908-1 DU

Matrix: Water

Analysis Batch: 629731

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

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

Lab Sample ID: MB 280-629724/3-A

Matrix: Water

Analysis Batch: 629731

Client Sample ID: Method Blank

Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			10/13/23 16:50	1

Lab Sample ID: LCS 280-629724/1-A

Matrix: Water

Analysis Batch: 629731

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.0979		mg/L		98	91 - 112

Lab Sample ID: LCSD 280-629724/2-A

Matrix: Water

Analysis Batch: 629731

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.105		mg/L		105	91 - 112	7	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-182908-1 MS

Matrix: Water

Analysis Batch: 629731

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND		0.100	0.109		mg/L		109	91 - 112		

Lab Sample ID: 280-182908-1 MSD

Matrix: Water

Analysis Batch: 629731

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.108		mg/L		108	91 - 112	0	20

Lab Sample ID: 280-182908-1 DU

Matrix: Water

Analysis Batch: 629731

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

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

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-629961/5

Matrix: Water

Analysis Batch: 629961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH adj. to 25 deg C		7.00	7.0		SU		101	99 - 101		

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-630433/11

Matrix: Water

Analysis Batch: 630433

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			10/19/23 16:02	1

Lab Sample ID: LCS 280-630433/9

Matrix: Water

Analysis Batch: 630433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide		0.502	0.513		mg/L		102	81 - 122		

Lab Sample ID: LCSD 280-630433/10

Matrix: Water

Analysis Batch: 630433

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide		0.502	0.513		mg/L		102	81 - 122	0	10

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Metals

Filtration Batch: 629747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Filtration Batch: 630212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-630212/1-B	Method Blank	Potentially Dissolved	Water	FILTRATION	
LCS 280-630212/2-B	Lab Control Sample	Potentially Dissolved	Water	FILTRATION	

Prep Batch: 630548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Potentially Dissolved	Water	200.8	629747
MB 280-630212/1-B	Method Blank	Potentially Dissolved	Water	200.8	630212
LCS 280-630212/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	630212

Analysis Batch: 630704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Potentially Dissolved	Water	200.8	630548
MB 280-630212/1-B	Method Blank	Potentially Dissolved	Water	200.8	630548
LCS 280-630212/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	630548

Prep Batch: 630739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total Recoverable	Water	200.7	
MB 280-630739/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-630739/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 630911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-630911/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-630911/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-182908-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	
280-182908-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	

Analysis Batch: 631059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	630739
MB 280-630739/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	630739
LCS 280-630739/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	630739

Analysis Batch: 631200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total Recoverable	Water	200.8	630911
MB 280-630911/1-A	Method Blank	Total Recoverable	Water	200.8	630911
LCS 280-630911/2-A	Lab Control Sample	Total Recoverable	Water	200.8	630911
280-182908-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	630911
280-182908-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	630911

Prep Batch: 631288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-631288/1-A	Method Blank	Total/NA	Water	245.1	

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Metals (Continued)

Prep Batch: 631288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-631288/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 631479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total/NA	Water	245.1	631288
MB 280-631288/1-A	Method Blank	Total/NA	Water	245.1	631288
LCS 280-631288/2-A	Lab Control Sample	Total/NA	Water	245.1	631288

General Chemistry

Filtration Batch: 629724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-629724/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-629724/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-629724/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-182908-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-182908-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-182908-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 629731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	629724
280-182908-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-629724/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	629724
MB 280-629731/19	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-629724/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	629724
LCS 280-629731/17	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-629724/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	629724
LCSD 280-629731/18	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-182908-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	629724
280-182908-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-182908-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	629724
280-182908-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-182908-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	629724
280-182908-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 629961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-629961/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 630110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 630399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-630399/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-630399/1	Lab Control Sample	Total/NA	Water	SM 2540D	

Eurofins Denver

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

General Chemistry (Continued)

Analysis Batch: 630399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-630399/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 630433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-630433/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-630433/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-630433/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 630434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-630434/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-630434/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 631533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Analysis Batch: 631537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182908-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-182908-1

Date Collected: 10/13/23 11:00

Matrix: Water

Date Received: 10/13/23 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	630739	10/24/23 08:50	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			631059	10/24/23 20:10	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	629747	10/13/23 23:30	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	630548	10/21/23 09:00	CAF	EET DEN
Potentially Dissolved	Analysis	200.8		1			630704	10/22/23 21:18	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	630911	10/25/23 08:45	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			631200	10/25/23 19:01	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	631288	10/26/23 15:20	PFM	EET DEN
Total/NA	Analysis	245.1		1			631479	10/26/23 19:08	PFM	EET DEN
Total/NA	Analysis	SM 2510B		1			630434	10/19/23 17:22	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	630399	10/19/23 13:21	ABW	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	629724	10/13/23 16:02	LBR	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	629731	10/13/23 16:51	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	629731	10/13/23 17:15	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			629961	10/16/23 14:07	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	630433	10/19/23 16:12	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			631537	10/27/23 15:23	DNM	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			631533	10/27/23 15:15	DNM	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			630110	10/18/23 00:41	C1A	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-182908-1

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	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

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

Eurofins Denver

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-182908-1

Login Number: 182908

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 11/13/2023 3:35:11 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-183835-1

Eurofins Denver

Job Notes

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

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

Authorization



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Authorized for release by
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(303)736-0138

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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

Qualifiers

Metals

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

Job ID: 280-183835-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-183835-1

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 10/31/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 14.2 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL 001 (280-183835-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 11/09/2023.

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 analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL 001 (280-183835-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/09/2023 and analyzed on 11/10/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-183835-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.5	J	2.0	0.71	ug/L	1		200.8	Total
Lead	0.34	J	1.0	0.23	ug/L	1		200.8	Recoverable
Copper	0.90	J	2.0	0.71	ug/L	1		200.8	Total
Lead	0.26	J	1.0	0.23	ug/L	1		200.8	Recoverable
Zinc	17		10	2.0	ug/L	1		200.8	Potentially Dissolved
									Potentially Dissolved
									Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

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

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-183835-1	OUTFALL 001	Water	10/31/23 09:30	10/31/23 15:50

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL 001
Date Collected: 10/31/23 09:30
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183835-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.5	J	2.0	0.71	ug/L		11/09/23 15:28	11/10/23 17:40	1
Lead	0.34	J	1.0	0.23	ug/L		11/09/23 15:28	11/10/23 17:40	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL 001
Date Collected: 10/31/23 09:30
Date Received: 10/31/23 15:50

Lab Sample ID: 280-183835-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		11/09/23 08:45	11/09/23 22:28	1
Copper	0.90	J	2.0	0.71	ug/L		11/09/23 08:45	11/09/23 22:28	1
Lead	0.26	J	1.0	0.23	ug/L		11/09/23 08:45	11/09/23 22:28	1
Silver	ND		0.50	0.045	ug/L		11/09/23 08:45	11/09/23 22:28	1
Zinc	17		10	2.0	ug/L		11/09/23 08:45	11/09/23 22:28	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-632929/1-A

Matrix: Water

Analysis Batch: 633390

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 632929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		11/09/23 08:45	11/09/23 21:59	1
Copper	ND		2.0	0.71	ug/L		11/09/23 08:45	11/09/23 21:59	1
Lead	ND		1.0	0.23	ug/L		11/09/23 08:45	11/09/23 21:59	1
Silver	ND		0.50	0.045	ug/L		11/09/23 08:45	11/09/23 21:59	1
Zinc	ND		10	2.0	ug/L		11/09/23 08:45	11/09/23 21:59	1

Lab Sample ID: LCS 280-632929/2-A

Matrix: Water

Analysis Batch: 633390

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 632929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	38.9		ug/L		97	89 - 111
Copper	40.0	38.7		ug/L		97	90 - 115
Lead	40.0	38.5		ug/L		96	88 - 115
Silver	40.0	39.6		ug/L		99	90 - 114
Zinc	40.0	40.2		ug/L		100	88 - 115

Lab Sample ID: MB 280-633213/1-A

Matrix: Water

Analysis Batch: 633548

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 633213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		11/09/23 15:28	11/10/23 17:31	1
Lead	ND		1.0	0.23	ug/L		11/09/23 15:28	11/10/23 17:31	1

Lab Sample ID: LCS 280-633213/2-A

Matrix: Water

Analysis Batch: 633548

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 633213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	39.6		ug/L		99	90 - 115
Lead	40.0	38.3		ug/L		96	88 - 115

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

Metals

Filtration Batch: 632518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183835-1	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 632929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183835-1	OUTFALL 001	Potentially Dissolved	Water	200.8	632518
MB 280-632929/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-632929/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 633213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183835-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-633213/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-633213/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 633390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183835-1	OUTFALL 001	Potentially Dissolved	Water	200.8	632929
MB 280-632929/1-A	Method Blank	Total Recoverable	Water	200.8	632929
LCS 280-632929/2-A	Lab Control Sample	Total Recoverable	Water	200.8	632929

Analysis Batch: 633548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-183835-1	OUTFALL 001	Total Recoverable	Water	200.8	633213
MB 280-633213/1-A	Method Blank	Total Recoverable	Water	200.8	633213
LCS 280-633213/2-A	Lab Control Sample	Total Recoverable	Water	200.8	633213

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-183835-1

Date Collected: 10/31/23 09:30

Matrix: Water

Date Received: 10/31/23 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	632518	11/03/23 23:50	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	632929	11/09/23 08:45	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			633390	11/09/23 22:28	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	633213	11/09/23 15:28	CAF	EET DEN
Total Recoverable	Analysis	200.8		1			633548	11/10/23 17:40	LMT	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-183835-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-23 *
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins Denver

Client Information Client Contact: Patrick Delaney Company: Grand Island Resources		Lab PM: Blenilius, Dylan T E-Mail: Dylan.Blenilius@et.eurofinus.com		Carrier Tracking No(s): State of Origin:		COC No: Page: Job #:	
Address: 12567 West Cedar Road Suite 250 City: Lakewood State, Zip: CO, 80466 Phone: 303-506-1618 Compliance Project: ☒ Yes ☐ No Advance Payment Required PO #: WO #: Project #: 28022821 SOW#: Email: pdelaney@blackfoxmining.com Project Name: Nederland, CO Site: second half of the month event		Analysis Requested Due Date Requested: TAT Requested (days): Matrix (Wet, Solid, On-waste, Ash)		Field Filtered Sample (Yes or No) ☒ Perform MS/MSD (Yes or No) ☒ 200.8 - Potentially Dissolved Metals (Second half of the month permit list) ☒ 200.8 - Total Recoverable Metals (Second half of the month permit list) ☒ Total Number of Containers:		Special Instructions/Note: *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)	
Sample Identification OUTFALL 001		Sample Date 10/31/23 9:30		Sample Time 9:30		Sample Type (C=comp, G=grab) G	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: Jean P. Brewer Relinquished by: Relinquished by: Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☒ Archive For _____ Months Special Instructions/QC Requirements:		Date/Time: 10/31/23 3:48pm Date/Time: Date/Time: Date/Time:	
Relinquished by: Jean P. Brewer Relinquished by: Relinquished by: Relinquished by:		Date/Time: 10/31/23 3:48pm Date/Time: Date/Time: Date/Time:		Method of Shipment: Receiver by: Received by: Received by:		Date/Time: 10/31/23 15:50 Date/Time: Date/Time: Date/Time:	
Custody Seals Intact: A Yes ☐ A No ☐		Custody Seal No.: 13.9 OR mono of 0.3		Cooler Temperature(s) °C and Other Remarks:		Company: Company: Company:	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-183835-1

Login Number: 183835

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 12/4/2023 4:49:52 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-184390-1

Eurofins Denver

Job Notes

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

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

Authorization



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Authorized for release by
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(303)736-0138

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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Job ID: 280-184390-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-184390-1

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 11/10/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.1 C.

TOTAL RECOVERABLE METALS (ICP)

Sample UTFALL-001 (280-184390-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 11/21/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample UTFALL-001 (280-184390-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/15/2023 and analyzed on 11/16/2023.

Zinc failed the recovery criteria low for the MS and MSD of sample UTFALL-001 (280-184390-1) in batch 280-634223. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is 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)

Sample UTFALL-001 (280-184390-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/21/2023 and analyzed on 11/21/2023 and 11/27/2023.

Copper was detected in method blank MB 280-634038/1-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 UTFALL-001 (280-184390-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Job ID: 280-184390-1 (Continued)

Laboratory: Eurofins Denver (Continued)

prepared and analyzed on 11/27/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample UTFALL-001 (280-184390-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 12/04/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample UTFALL-001 (280-184390-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 12/04/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample UTFALL-001 (280-184390-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 11/13/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample UTFALL-001 (280-184390-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 11/17/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample UTFALL-001 (280-184390-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 11/10/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample UTFALL-001 (280-184390-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 11/10/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample UTFALL-001 (280-184390-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 11/21/2023.

pH adj. to 25 deg C exceeded the RPD limit for the duplicate of sample UTFALL-001 (280-184390-1). Sample non-homogeneity is suspected. Refer to the QC report for details.

The following sample did not equilibrate to within 0.05 pH units after three measurements but its laboratory duplicate analysis did therefore the sample was not rerun: UTFALL-001 (280-184390-1) and (280-184390-C-1 DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample UTFALL-001 (280-184390-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 11/16/2023.

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Job ID: 280-184390-1 (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 (280-184390-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 11/20/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LOW LEVEL MERCURY

Sample OUTFALL-001 (280-184390-1) was analyzed for Low Level Mercury in accordance with EPA 1631. The samples were prepared on 11/14/2023 and analyzed on 11/28/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-184390-1

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	16	J	100	9.1	ug/L	1			200.7 Rev 4.4	Total Recoverable
Copper	1.0	J	2.0	0.71	ug/L	1			200.8	Total Recoverable
Lead	0.41	J	1.0	0.23	ug/L	1			200.8	Total Recoverable
Zinc	10		10	2.0	ug/L	1			200.8	Total Recoverable
Copper	2.1	B	2.0	0.71	ug/L	1			200.8	Potentially Dissolved
Lead	0.45	J	1.0	0.23	ug/L	1			200.8	Potentially Dissolved
Manganese	0.76	J	3.0	0.51	ug/L	1			200.8	Potentially Dissolved
Zinc	19	F1	10	2.0	ug/L	1			200.8	Potentially Dissolved
Specific Conductance	240		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	7.3	HF	0.1	0.1	SU	1			SM 4500 H+ B	Total/NA
Temperature	21.0	HF	1.0	1.0	Degrees C	1			SM 4500 H+ B	Total/NA
Field pH	7.3		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	240		2.0	2.0	umhos/cm	1			SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

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: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-184390-1	OUTFALL-001	Water	11/10/23 10:10	11/10/23 14:53

1

2

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: OUTFALL-001
Date Collected: 11/10/23 10:10
Date Received: 11/10/23 14:53

Lab Sample ID: 280-184390-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9		0.50	0.20	ng/L		11/14/23 16:50	11/28/23 12:52	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 11/10/23 10:10
Date Received: 11/10/23 14:53

Lab Sample ID: 280-184390-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16	J	100	9.1	ug/L		11/21/23 08:43	11/21/23 21:18	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 11/10/23 10:10
Date Received: 11/10/23 14:53

Lab Sample ID: 280-184390-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/21/23 08:43	11/21/23 19:19	1
Cadmium	ND		1.0	0.19	ug/L		11/21/23 08:43	11/21/23 19:19	1
Chromium	ND		3.0	0.50	ug/L		11/21/23 08:43	11/21/23 19:19	1
Copper	1.0	J	2.0	0.71	ug/L		11/21/23 08:43	11/21/23 19:19	1
Lead	0.41	J	1.0	0.23	ug/L		11/21/23 08:43	11/21/23 19:19	1
Zinc	10		10	2.0	ug/L		11/21/23 08:43	11/27/23 14:55	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 11/10/23 10:10
Date Received: 11/10/23 14:53

Lab Sample ID: 280-184390-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/15/23 15:44	11/16/23 08:26	1
Cadmium	ND		1.0	0.19	ug/L		11/15/23 15:44	11/16/23 08:26	1
Chromium	ND		3.0	0.50	ug/L		11/15/23 15:44	11/16/23 08:26	1
Copper	2.1	B	2.0	0.71	ug/L		11/15/23 15:44	11/16/23 16:28	1
Lead	0.45	J	1.0	0.23	ug/L		11/15/23 15:44	11/16/23 08:26	1
Manganese	0.76	J	3.0	0.51	ug/L		11/15/23 15:44	11/16/23 08:26	1
Nickel	ND		3.0	0.83	ug/L		11/15/23 15:44	11/16/23 08:26	1
Selenium	ND		5.0	1.0	ug/L		11/15/23 15:44	11/16/23 08:26	1
Silver	ND		0.50	0.045	ug/L		11/15/23 15:44	11/16/23 08:26	1
Zinc	19	F1	10	2.0	ug/L		11/15/23 15:44	11/16/23 08:26	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 11/10/23 10:10
Date Received: 11/10/23 14:53

Lab Sample ID: 280-184390-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		11/27/23 14:45	11/27/23 20:07	1

Eurofins Denver

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 11/10/23 10:10
Date Received: 11/10/23 14:53

Lab Sample ID: 280-184390-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	240		2.0	2.0	umhos/cm			11/13/23 14:04	1
Total Suspended Solids (SM 2540D)	1.6	J	4.0	1.1	mg/L			11/17/23 15:00	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			11/10/23 16:52	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.3	HF	0.1	0.1	SU			11/21/23 21:40	1
Temperature (SM 4500 H+ B)	21.0	HF	1.0	1.0	Degrees C			11/21/23 21:40	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			11/16/23 17:09	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			11/20/23 18:05	1
Field pH (SM4500 S2 H)	7.3		1.0	1.0	SU			11/20/23 18:05	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			11/20/23 18:05	1
Specific Conductance (SM4500 S2 H)	240		2.0	2.0	umhos/cm			11/20/23 18:05	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			11/20/23 18:05	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 11/10/23 10:10
Date Received: 11/10/23 14:53

Lab Sample ID: 280-184390-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L			12/04/23 16:31	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 11/10/23 10:10
Date Received: 11/10/23 14:53

Lab Sample ID: 280-184390-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			11/10/23 16:43	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 11/10/23 10:10
Date Received: 11/10/23 14:53

Lab Sample ID: 280-184390-1
Matrix: 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			12/04/23 16:31	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-651911/3-A

Matrix: Water

Analysis Batch: 652002

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		11/27/23 16:00	11/28/23 10:42	1

Lab Sample ID: LCS 400-651911/4-A

Matrix: Water

Analysis Batch: 652002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.32		ng/L		106	79 - 121

Lab Sample ID: LCSD 400-651911/5-A

Matrix: Water

Analysis Batch: 652002

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 651911

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	5.00	4.97		ng/L		99	79 - 121	7	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-634715/1-A

Matrix: Water

Analysis Batch: 634937

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 634715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		11/21/23 08:43	11/21/23 20:09	1

Lab Sample ID: LCS 280-634715/2-A

Matrix: Water

Analysis Batch: 634937

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 634715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	9620		ug/L		96	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-634038/1-A

Matrix: Water

Analysis Batch: 634223

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 634038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/15/23 15:44	11/16/23 07:50	1
Cadmium	ND		1.0	0.19	ug/L		11/15/23 15:44	11/16/23 07:50	1
Chromium	ND		3.0	0.50	ug/L		11/15/23 15:44	11/16/23 07:50	1
Lead	ND		1.0	0.23	ug/L		11/15/23 15:44	11/16/23 07:50	1
Manganese	ND		3.0	0.51	ug/L		11/15/23 15:44	11/16/23 07:50	1
Nickel	ND		3.0	0.83	ug/L		11/15/23 15:44	11/16/23 07:50	1
Selenium	ND		5.0	1.0	ug/L		11/15/23 15:44	11/16/23 07:50	1
Silver	ND		0.50	0.045	ug/L		11/15/23 15:44	11/16/23 07:50	1
Zinc	ND		10	2.0	ug/L		11/15/23 15:44	11/16/23 07:50	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-634038/1-A
Matrix: Water
Analysis Batch: 634352

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 634038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.729	J	2.0	0.71	ug/L		11/15/23 15:44	11/17/23 07:47	1

Lab Sample ID: LCS 280-634038/18-A
Matrix: Water
Analysis Batch: 634223

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 634038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	39.7		ug/L		99	89 - 111
Cadmium	40.0	40.4		ug/L		101	89 - 111
Chromium	40.0	39.2		ug/L		98	86 - 115
Lead	40.0	39.2		ug/L		98	88 - 115
Manganese	40.0	39.0		ug/L		98	87 - 115
Nickel	40.0	39.3		ug/L		98	86 - 115
Selenium	40.0	38.4		ug/L		96	85 - 114
Silver	40.0	41.0		ug/L		103	90 - 114
Zinc	40.0	39.6		ug/L		99	88 - 115

Lab Sample ID: LCS 280-634038/18-A
Matrix: Water
Analysis Batch: 634329

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 634038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	40.6		ug/L		102	90 - 115

Lab Sample ID: MB 280-634715/1-A
Matrix: Water
Analysis Batch: 634932

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 634715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/21/23 08:43	11/21/23 18:45	1
Cadmium	ND		1.0	0.19	ug/L		11/21/23 08:43	11/21/23 18:45	1
Chromium	ND		3.0	0.50	ug/L		11/21/23 08:43	11/21/23 18:45	1
Copper	ND		2.0	0.71	ug/L		11/21/23 08:43	11/21/23 18:45	1
Lead	ND		1.0	0.23	ug/L		11/21/23 08:43	11/21/23 18:45	1
Zinc	ND		10	2.0	ug/L		11/21/23 08:43	11/21/23 18:45	1

Lab Sample ID: LCS 280-634715/18-A
Matrix: Water
Analysis Batch: 634932

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 634715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	37.4		ug/L		94	89 - 111
Cadmium	40.0	37.6		ug/L		94	89 - 111
Chromium	40.0	37.7		ug/L		94	86 - 115
Copper	40.0	37.0		ug/L		93	90 - 115
Lead	40.0	36.7		ug/L		92	88 - 115
Zinc	40.0	38.4		ug/L		96	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-184390-1 MS

Matrix: Water

Analysis Batch: 634223

Client Sample ID: OUTFALL-001

Prep Type: Potentially Dissolved

Prep Batch: 634038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	38.9		ug/L		97	79 - 120
Cadmium	ND		40.0	38.5		ug/L		96	89 - 111
Chromium	ND		40.0	38.2		ug/L		95	86 - 115
Lead	0.45	J	40.0	37.9		ug/L		94	88 - 115
Manganese	0.76	J	40.0	38.0		ug/L		93	87 - 115
Nickel	ND		40.0	38.5		ug/L		96	86 - 115
Selenium	ND		40.0	38.0		ug/L		95	85 - 114
Silver	ND		40.0	39.3		ug/L		98	70 - 130
Zinc	19	F1	40.0	51.8	F1	ug/L		81	88 - 115

Lab Sample ID: 280-184390-1 MS

Matrix: Water

Analysis Batch: 634329

Client Sample ID: OUTFALL-001

Prep Type: Potentially Dissolved

Prep Batch: 634038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	2.1	B	40.0	39.6		ug/L		94	90 - 115

Lab Sample ID: 280-184390-1 MSD

Matrix: Water

Analysis Batch: 634223

Client Sample ID: OUTFALL-001

Prep Type: Potentially Dissolved

Prep Batch: 634038

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	38.1		ug/L		95	79 - 120	2	20
Cadmium	ND		40.0	39.1		ug/L		98	89 - 111	1	20
Chromium	ND		40.0	37.7		ug/L		94	86 - 115	1	20
Lead	0.45	J	40.0	39.5		ug/L		98	88 - 115	4	20
Manganese	0.76	J	40.0	38.2		ug/L		94	87 - 115	1	20
Nickel	ND		40.0	38.5		ug/L		96	86 - 115	0	20
Selenium	ND		40.0	38.6		ug/L		97	85 - 114	1	20
Silver	ND		40.0	39.8		ug/L		99	70 - 130	1	20
Zinc	19	F1	40.0	52.6	F1	ug/L		83	88 - 115	2	20

Lab Sample ID: 280-184390-1 MSD

Matrix: Water

Analysis Batch: 634329

Client Sample ID: OUTFALL-001

Prep Type: Potentially Dissolved

Prep Batch: 634038

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	2.1	B	40.0	40.4		ug/L		96	90 - 115	2	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-635165/1-A

Matrix: Water

Analysis Batch: 635299

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 635165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		11/27/23 14:45	11/27/23 19:01	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 280-635165/2-A
Matrix: Water
Analysis Batch: 635299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.14		ug/L		103	90 - 110

Lab Sample ID: LCSD 280-635165/3-A
Matrix: Water
Analysis Batch: 635299

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 635165

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	5.19		ug/L		104	90 - 110	1	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-633700/5
Matrix: Water
Analysis Batch: 633700

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			11/13/23 14:04	1

Lab Sample ID: LCS 280-633700/4
Matrix: Water
Analysis Batch: 633700

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1470		umhos/cm		104	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-634452/1
Matrix: Water
Analysis Batch: 634452

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			11/17/23 15:00	1

Lab Sample ID: LCS 280-634452/2
Matrix: Water
Analysis Batch: 634452

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	507	406		mg/L		80	79 - 114

Lab Sample ID: LCSD 280-634452/3
Matrix: Water
Analysis Batch: 634452

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	507	402		mg/L		79	79 - 114	1	20

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-633529/19

Matrix: Water

Analysis Batch: 633529

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			11/10/23 16:51	1

Lab Sample ID: LCS 280-633529/17

Matrix: Water

Analysis Batch: 633529

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.103		mg/L		103	91 - 112

Lab Sample ID: LCSD 280-633529/18

Matrix: Water

Analysis Batch: 633529

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.103		mg/L		103	91 - 112	1	20

Lab Sample ID: 280-184390-1 MS

Matrix: Water

Analysis Batch: 633529

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.100	0.105		mg/L		105	91 - 112

Lab Sample ID: 280-184390-1 MSD

Matrix: Water

Analysis Batch: 633529

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.106		mg/L		106	91 - 112	1	20

Lab Sample ID: 280-184390-1 DU

Matrix: Water

Analysis Batch: 633529

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

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

Lab Sample ID: MB 280-633520/3-A

Matrix: Water

Analysis Batch: 633529

Client Sample ID: Method Blank

Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			11/10/23 16:43	1

Lab Sample ID: LCS 280-633520/1-A

Matrix: Water

Analysis Batch: 633529

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.102		mg/L		102	91 - 112

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: LCSD 280-633520/2-A

Matrix: Water

Analysis Batch: 633529

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.102		mg/L		102	91 - 112	0	20

Lab Sample ID: 280-184390-1 MS

Matrix: Water

Analysis Batch: 633529

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.104		mg/L		104	91 - 112		

Lab Sample ID: 280-184390-1 MSD

Matrix: Water

Analysis Batch: 633529

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.100	0.105		mg/L		105	91 - 112	0	20

Lab Sample ID: 280-184390-1 DU

Matrix: Water

Analysis Batch: 633529

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

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

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-634967/5

Matrix: Water

Analysis Batch: 634967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH adj. to 25 deg C	7.00	7.1		SU		101	99 - 101		

Lab Sample ID: 280-184390-1 DU

Matrix: Water

Analysis Batch: 634967

Client Sample ID: OUTFALL-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH adj. to 25 deg C	7.3	HF	7.8	F3	SU		7	5
Temperature	21.0	HF	20.9		Degrees C		0.2	10

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-634301/12

Matrix: Water

Analysis Batch: 634301

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			11/16/23 16:58	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

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

Lab Sample ID: LCS 280-634301/10

Matrix: Water

Analysis Batch: 634301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.500	0.526		mg/L		105	81 - 122

Lab Sample ID: LCSD 280-634301/11

Matrix: Water

Analysis Batch: 634301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.500	0.524		mg/L		105	81 - 122	0	10

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Metals

Filtration Batch: 633540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
280-184390-1 MS	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
280-184390-1 MSD	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 634038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Potentially Dissolved	Water	200.8	633540
MB 280-634038/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-634038/18-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-184390-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	633540
280-184390-1 MSD	OUTFALL-001	Potentially Dissolved	Water	200.8	633540

Analysis Batch: 634223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Potentially Dissolved	Water	200.8	634038
MB 280-634038/1-A	Method Blank	Total Recoverable	Water	200.8	634038
LCS 280-634038/18-A	Lab Control Sample	Total Recoverable	Water	200.8	634038
280-184390-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	634038
280-184390-1 MSD	OUTFALL-001	Potentially Dissolved	Water	200.8	634038

Analysis Batch: 634329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Potentially Dissolved	Water	200.8	634038
LCS 280-634038/18-A	Lab Control Sample	Total Recoverable	Water	200.8	634038
280-184390-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	634038
280-184390-1 MSD	OUTFALL-001	Potentially Dissolved	Water	200.8	634038

Analysis Batch: 634352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-634038/1-A	Method Blank	Total Recoverable	Water	200.8	634038

Prep Batch: 634715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-634715/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-634715/18-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-634715/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 634932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total Recoverable	Water	200.8	634715
MB 280-634715/1-A	Method Blank	Total Recoverable	Water	200.8	634715
LCS 280-634715/18-A	Lab Control Sample	Total Recoverable	Water	200.8	634715

Analysis Batch: 634937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	634715
MB 280-634715/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	634715
LCS 280-634715/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	634715

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Metals

Prep Batch: 635165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-635165/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-635165/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-635165/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Analysis Batch: 635209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total Recoverable	Water	200.8	634715

Analysis Batch: 635299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total/NA	Water	245.1	635165
MB 280-635165/1-A	Method Blank	Total/NA	Water	245.1	635165
LCS 280-635165/2-A	Lab Control Sample	Total/NA	Water	245.1	635165
LCSD 280-635165/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	635165

Prep Batch: 651911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total/NA	Water	1631E	
MB 400-651911/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-651911/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-651911/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 652002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total/NA	Water	1631E	651911
MB 400-651911/3-A	Method Blank	Total/NA	Water	1631E	651911
LCS 400-651911/4-A	Lab Control Sample	Total/NA	Water	1631E	651911
LCSD 400-651911/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	651911

General Chemistry

Filtration Batch: 633520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-633520/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-633520/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-633520/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-184390-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-184390-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-184390-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 633529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	633520
280-184390-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-633520/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	633520
MB 280-633529/19	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-633520/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	633520
LCS 280-633529/17	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-633520/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	633520

Eurofins Denver

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

General Chemistry (Continued)

Analysis Batch: 633529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-633529/18	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	633520
280-184390-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	
280-184390-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	633520
280-184390-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	
280-184390-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	633520
280-184390-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	
280-184390-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 633700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total/NA	Water	SM 2510B	633700
MB 280-633700/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-633700/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 634301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	634301
MB 280-634301/12	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-634301/10	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-634301/11	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 634452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total/NA	Water	SM 2540D	634452
MB 280-634452/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-634452/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-634452/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 634728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	634728

Analysis Batch: 634967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	634967
LCS 280-634967/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-184390-1 DU	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 636014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184390-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	636014
280-184390-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-184390-1

Date Collected: 11/10/23 10:10

Matrix: Water

Date Received: 11/10/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	651911	11/14/23 16:50	VLC	EET PEN
							Completed:	11/28/23 09:30 ¹		
Total/NA	Analysis	1631E		1			652002	11/28/23 12:52	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	634715	11/21/23 08:43	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			634937	11/21/23 21:18	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	633540	11/10/23 19:10	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	634038	11/15/23 15:44	CAF	EET DEN
Potentially Dissolved	Analysis	200.8		1			634223	11/16/23 08:26	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	633540	11/10/23 19:10	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	634038	11/15/23 15:44	CAF	EET DEN
Potentially Dissolved	Analysis	200.8		1			634329	11/16/23 16:28	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	634715	11/21/23 08:43	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			634932	11/21/23 19:19	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	634715	11/21/23 08:43	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			635209	11/27/23 14:55	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	635165	11/27/23 14:45	KMS	EET DEN
Total/NA	Analysis	245.1		1			635299	11/27/23 20:07	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			633700	11/13/23 14:04	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	634452	11/17/23 15:00	CAI	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	633520	11/10/23 16:04	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	633529	11/10/23 16:43	LBR	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	633529	11/10/23 16:52	LBR	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			634967	11/21/23 21:40	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	634301	11/16/23 17:09	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			636014	12/04/23 16:31	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			636014	12/04/23 16:31	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			634728	11/20/23 18:05	SAH	EET DEN

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

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: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24

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

Eurofins Denver

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184390-1

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
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

Chain of Custody Record

Client Information		Samplers: <u>JP Brewer</u>		Lab PM: <u>Bienilius, Dylan T</u>		Carrier Tracking No(s):		COC No:	
Client Contact: <u>Patrick Delaney</u>		Phone: <u>303-304-1103</u>		E-Mail: <u>Dylan.Bienilius@et.eurofins.com</u>		State of Origin:		Page:	
Company: <u>Grand Island Resources</u>		PWSID:		Analysis Requested		Job #:		Preservation Codes:	
Address: <u>12567 West Cedar Road Suite 250</u>		Due Date Requested:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
City: <u>Lakewood</u>		TAT Requested (days):		Sample Date		Sample Time		Sample Type	
State, Zip: <u>CO, 80466</u>		Compliance Project: <u>Δ Yes Δ No</u>		Sample Date		Sample Time		Sample Type	
Phone: <u>315-414-6986</u>		PO #:		Sample Date		Sample Time		Sample Type	
Email: <u>pdelaney@blackfoxmining.com</u>		Advance Payment Required		Sample Date		Sample Time		Sample Type	
Project Name: <u>Nederland, CO</u>		Project #:		Sample Date		Sample Time		Sample Type	
Site: <u>First half of the month event + quarterly LL Hg</u>		SSOW#:		Sample Date		Sample Time		Sample Type	
Sample Identification		Sample Date		Sample Time		Sample Type		Matrix	
<u>GUTFLC-001</u>		<u>11-10-23</u>		<u>10:10 am</u>		<u>G</u>		<u>W</u>	
Sample Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:	
*First half of the month potentially dissolved metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)		*First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg)		*First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg)		*First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg)		*First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As, Cd, Cr, Cu, Pb, Zn), and 245.1 (Hg)	
PH = 7.2		TEMP = 5°C		280-184390 Chain of Custody		280-184390 Chain of Custody		280-184390 Chain of Custody	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For		Months	
Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Date/Time:	
Relinquished by: <u>John D Brewer</u>		Date/Time: <u>11/10/23 2:53 pm</u>		Company: <u>GIR</u>		Date/Time: <u>11/10/23 14:53</u>		Company: <u>ET</u>	
Relinquished by:		Date/Time:		Company:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Date/Time:		Company:	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>4.8°C Monocryl-3</u>		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	



Environment Testing
TestAmerica

ORIGIN ID: WHA (303) 736-0100
EUROFINS
EUROFINS TESTAMERICA DENVER
4955 YARROW ST

SHIP DATE: 13NOV23
ACTWGT: 8.10 LB
CAD: 290884/CAFE3755

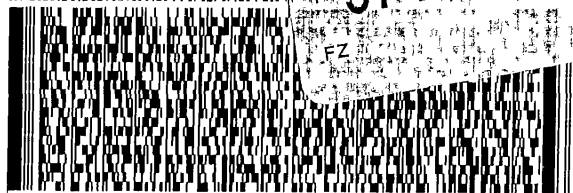
ARVADA, CO 80002
UNITED STATES US

BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHE
3355 MCLEMORE DRIVE

PENSACOLA FL 32514

(850) 474-1001
PO: YES



TRK# 7079 0016 8821

TUE - 14 NOV 10:30A
PRIORITY OVERNIGHT

XH PNSA

32514
FL-US BFM



Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-184390-1

Login Number: 184390

List Number: 1

Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-184390-1

Login Number: 184390

List Number: 2

Creator: Roberts, Alexis J

List Source: Eurofins Pensacola

List Creation: 11/14/23 02:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	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	2.3°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 250
Lakewood, Colorado 80228

Generated 12/11/2023 2:59:10 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-184974-1

Eurofins Denver

Job Notes

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

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

Authorization



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12/11/2023 2:59:10 PM

Authorized for release by
Dylan Bieniulis, Project Manager I
Dylan.Bieniulis@et.eurofinsus.com
(303)736-0138

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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

Qualifiers

Metals

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

Case Narrative

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

Job ID: 280-184974-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-184974-1

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 11/27/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.3 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001A (280-184974-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 11/30/2023 and analyzed on 11/30/2023 and 12/01/2023.

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-001A (280-184974-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 12/06/2023 and analyzed on 12/07/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

Client Sample ID: OUTFALL-001A

Lab Sample ID: 280-184974-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	2.9		2.0	0.71	ug/L	1			200.8	Total
Lead	0.32	J	1.0	0.23	ug/L	1			200.8	Recoverable
Copper	3.4		2.0	0.71	ug/L	1			200.8	Total
Lead	0.41	J	1.0	0.23	ug/L	1			200.8	Recoverable
Zinc	19		10	2.0	ug/L	1			200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

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

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-184974-1	OUTFALL-001A	Water	11/27/23 10:30	11/27/23 13:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001A

Date Collected: 11/27/23 10:30

Date Received: 11/27/23 13:20

Lab Sample ID: 280-184974-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.9		2.0	0.71	ug/L		12/06/23 08:50	12/07/23 16:53	1
Lead	0.32	J	1.0	0.23	ug/L		12/06/23 08:50	12/07/23 16:53	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001A

Date Collected: 11/27/23 10:30

Date Received: 11/27/23 13:20

Lab Sample ID: 280-184974-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	^+	1.0	0.19	ug/L		11/30/23 09:17	12/01/23 18:05	1
Copper	3.4		2.0	0.71	ug/L		11/30/23 09:17	12/01/23 18:05	1
Lead	0.41	J	1.0	0.23	ug/L		11/30/23 09:17	12/01/23 18:05	1
Silver	ND		0.50	0.045	ug/L		11/30/23 09:17	11/30/23 23:02	1
Zinc	19		10	2.0	ug/L		11/30/23 09:17	11/30/23 23:02	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-635469/1-A

Matrix: Water

Analysis Batch: 635740

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 635469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.045	ug/L		11/30/23 09:17	11/30/23 22:30	1
Zinc	ND		10	2.0	ug/L		11/30/23 09:17	11/30/23 22:30	1

Lab Sample ID: MB 280-635469/1-A

Matrix: Water

Analysis Batch: 635891

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 635469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		11/30/23 09:17	12/01/23 17:40	1
Copper	ND		2.0	0.71	ug/L		11/30/23 09:17	12/01/23 17:40	1
Lead	ND		1.0	0.23	ug/L		11/30/23 09:17	12/01/23 17:40	1

Lab Sample ID: LCS 280-635469/2-A

Matrix: Water

Analysis Batch: 635740

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 635469

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	40.0	41.1		ug/L		103	90 - 114
Zinc	40.0	40.2		ug/L		101	88 - 115

Lab Sample ID: LCS 280-635469/2-A

Matrix: Water

Analysis Batch: 635891

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 635469

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	41.8		ug/L		104	89 - 111
Copper	40.0	41.4		ug/L		103	90 - 115
Lead	40.0	41.2		ug/L		103	88 - 115

Lab Sample ID: MB 280-636185/1-A

Matrix: Water

Analysis Batch: 636569

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 636185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		12/06/23 08:50	12/07/23 15:52	1
Lead	ND		1.0	0.23	ug/L		12/06/23 08:50	12/07/23 15:52	1

Lab Sample ID: LCS 280-636185/2-A

Matrix: Water

Analysis Batch: 636569

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 636185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	41.1		ug/L		103	90 - 115
Lead	40.0	40.2		ug/L		101	88 - 115

Eurofins Denver

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

Metals

Filtration Batch: 635408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184974-1	OUTFALL-001A	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 635469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184974-1	OUTFALL-001A	Potentially Dissolved	Water	200.8	635408
MB 280-635469/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-635469/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 635740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184974-1	OUTFALL-001A	Potentially Dissolved	Water	200.8	635469
MB 280-635469/1-A	Method Blank	Total Recoverable	Water	200.8	635469
LCS 280-635469/2-A	Lab Control Sample	Total Recoverable	Water	200.8	635469

Analysis Batch: 635891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184974-1	OUTFALL-001A	Potentially Dissolved	Water	200.8	635469
MB 280-635469/1-A	Method Blank	Total Recoverable	Water	200.8	635469
LCS 280-635469/2-A	Lab Control Sample	Total Recoverable	Water	200.8	635469

Prep Batch: 636185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184974-1	OUTFALL-001A	Total Recoverable	Water	200.8	
MB 280-636185/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-636185/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 636569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-184974-1	OUTFALL-001A	Total Recoverable	Water	200.8	636185
MB 280-636185/1-A	Method Blank	Total Recoverable	Water	200.8	636185
LCS 280-636185/2-A	Lab Control Sample	Total Recoverable	Water	200.8	636185

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

Client Sample ID: OUTFALL-001A

Lab Sample ID: 280-184974-1

Date Collected: 11/27/23 10:30

Matrix: Water

Date Received: 11/27/23 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	635408	11/28/23 23:45	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	635469	11/30/23 09:17	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			635740	11/30/23 23:02	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	635408	11/28/23 23:45	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	635469	11/30/23 09:17	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			635891	12/01/23 18:05	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	636185	12/06/23 08:50	AES	EET DEN
Total Recoverable	Analysis	200.8		1			636569	12/07/23 16:53	LMT	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-184974-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins Denver

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-184974-1

Login Number: 184974

List Number: 1

Creator: Naylis, Patrick J

List Source: Eurofins Denver

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

Generated 12/20/2023 1:35:42 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-185390-1

Eurofins Denver

Job Notes

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

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

Authorization



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Authorized for release by
Dylan Bieniulis, Project Manager I
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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	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.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

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

Case Narrative

Client: Grand Island Resources
Project: Nederland, CO

Job ID: 280-185390-1

Job ID: 280-185390-1

Eurofins Denver

CASE NARRATIVE

Client: Grand Island Resources

Project: Nederland, CO

Report Number: 280-185390-1

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 12/07/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

TOTAL RECOVERABLE METALS (ICP)

Sample OUTFALL-001A (280-185390-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 12/12/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001A (280-185390-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 12/13/2023 and analyzed on 12/14/2023.

Zinc was detected in method blank MB 280-636724/1-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-001A (280-185390-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 12/12/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Sample OUTFALL-001A (280-185390-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 12/12/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample OUTFALL-001A (280-185390-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 12/18/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Eurofins Denver

Case Narrative

Client: Grand Island Resources
Project: Nederland, CO

Job ID: 280-185390-1

Job ID: 280-185390-1 (Continued)

Eurofins Denver

Sample UTFALL-001A (280-185390-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 12/18/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample UTFALL-001A (280-185390-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 12/18/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample UTFALL-001A (280-185390-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 12/13/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HEXAVALENT CHROMIUM

Sample UTFALL-001A (280-185390-1) was analyzed for dissolved hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 12/07/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample UTFALL-001A (280-185390-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 12/07/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample UTFALL-001A (280-185390-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 12/15/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample UTFALL-001A (280-185390-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 12/11/2023.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HYDROGEN SULFIDE

Sample UTFALL-001A (280-185390-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 12/12/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Eurofins Denver

Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Client Sample ID: OUTFALL-001A

Lab Sample ID: 280-185390-1

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
Copper	2.2		2.0	0.71	ug/L	1		200.8	Recoverable
Lead	0.45	J	1.0	0.23	ug/L	1		200.8	Total
Zinc	24		10	2.0	ug/L	1		200.8	Recoverable
Copper	1.5	J	2.0	0.71	ug/L	1		200.8	Total
Lead	0.46	J	1.0	0.23	ug/L	1		200.8	Potentially
Manganese	0.75	J	3.0	0.51	ug/L	1		200.8	Dissolved
Zinc	24	B	10	2.0	ug/L	1		200.8	Potentially
Specific Conductance	240		2.0	2.0	umhos/cm	1		SM 2510B	Dissolved
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.2	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.9		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	22		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	240		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

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

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

Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-185390-1	OUTFALL-001A	Water	12/07/23 12:00	12/07/23 14:34

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001A

Date Collected: 12/07/23 12:00

Date Received: 12/07/23 14:34

Lab Sample ID: 280-185390-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	22	J	100	9.1	ug/L		12/12/23 08:40	12/12/23 21:22	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001A

Date Collected: 12/07/23 12:00

Date Received: 12/07/23 14:34

Lab Sample ID: 280-185390-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/12/23 08:40	12/12/23 22:34	1
Cadmium	ND		1.0	0.19	ug/L		12/12/23 08:40	12/12/23 22:34	1
Chromium	ND		3.0	0.50	ug/L		12/12/23 08:40	12/12/23 22:34	1
Copper	2.2		2.0	0.71	ug/L		12/12/23 08:40	12/12/23 22:34	1
Lead	0.45	J	1.0	0.23	ug/L		12/12/23 08:40	12/12/23 22:34	1
Zinc	24		10	2.0	ug/L		12/12/23 08:40	12/12/23 22:34	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001A

Date Collected: 12/07/23 12:00

Date Received: 12/07/23 14:34

Lab Sample ID: 280-185390-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/13/23 09:45	12/14/23 19:18	1
Cadmium	ND		1.0	0.19	ug/L		12/13/23 09:45	12/14/23 19:18	1
Chromium	ND		3.0	0.50	ug/L		12/13/23 09:45	12/14/23 19:18	1
Copper	1.5	J	2.0	0.71	ug/L		12/13/23 09:45	12/14/23 19:18	1
Lead	0.46	J	1.0	0.23	ug/L		12/13/23 09:45	12/14/23 19:18	1
Manganese	0.75	J	3.0	0.51	ug/L		12/13/23 09:45	12/14/23 19:18	1
Nickel	ND		3.0	0.83	ug/L		12/13/23 09:45	12/14/23 19:18	1
Selenium	ND		5.0	1.0	ug/L		12/13/23 09:45	12/14/23 19:18	1
Silver	ND		0.50	0.045	ug/L		12/13/23 09:45	12/14/23 19:18	1
Zinc	24	B	10	2.0	ug/L		12/13/23 09:45	12/14/23 19:18	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001A

Date Collected: 12/07/23 12:00

Date Received: 12/07/23 14:34

Lab Sample ID: 280-185390-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		12/12/23 14:25	12/12/23 19:44	1

General Chemistry

Client Sample ID: OUTFALL-001A

Date Collected: 12/07/23 12:00

Date Received: 12/07/23 14:34

Lab Sample ID: 280-185390-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	240		2.0	2.0	umhos/cm			12/18/23 20:16	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			12/13/23 13:56	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			12/07/23 19:18	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			12/15/23 18:40	1
Temperature (SM 4500 H+ B)	22.2	HF	1.0	1.0	Degrees C			12/15/23 18:40	1

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Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

General Chemistry (Continued)

Client Sample ID: OUTFALL-001A

Date Collected: 12/07/23 12:00

Date Received: 12/07/23 14:34

Lab Sample ID: 280-185390-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			12/11/23 13:48	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			12/12/23 01:32	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			12/12/23 01:32	1
Field Temperature (SM4500 S2 H)	22		1.0	1.0	Celsius			12/12/23 01:32	1
Specific Conductance (SM4500 S2 H)	240		2.0	2.0	umhos/cm			12/12/23 01:32	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			12/12/23 01:32	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001A

Date Collected: 12/07/23 12:00

Date Received: 12/07/23 14:34

Lab Sample ID: 280-185390-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		0.020	0.020	mg/L			12/18/23 11:55	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001A

Date Collected: 12/07/23 12:00

Date Received: 12/07/23 14:34

Lab Sample ID: 280-185390-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			12/07/23 19:07	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001A

Date Collected: 12/07/23 12:00

Date Received: 12/07/23 14:34

Lab Sample ID: 280-185390-1

Matrix: 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			12/18/23 11:55	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-636900/1-A
Matrix: Water
Analysis Batch: 637135

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 636900

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		12/12/23 08:40	12/12/23 20:03	1

Lab Sample ID: LCS 280-636900/2-A
Matrix: Water
Analysis Batch: 637135

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 636900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10300		ug/L		103	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-636900/1-A
Matrix: Water
Analysis Batch: 637108

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 636900

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/12/23 08:40	12/12/23 21:58	1
Cadmium	ND		1.0	0.19	ug/L		12/12/23 08:40	12/12/23 21:58	1
Chromium	ND		3.0	0.50	ug/L		12/12/23 08:40	12/12/23 21:58	1
Copper	ND		2.0	0.71	ug/L		12/12/23 08:40	12/12/23 21:58	1
Lead	ND		1.0	0.23	ug/L		12/12/23 08:40	12/12/23 21:58	1
Zinc	ND		10	2.0	ug/L		12/12/23 08:40	12/12/23 21:58	1

Lab Sample ID: LCS 280-636900/21-A
Matrix: Water
Analysis Batch: 637108

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 636900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	37.6		ug/L		94	89 - 111
Cadmium	40.0	40.4		ug/L		101	89 - 111
Chromium	40.0	40.0		ug/L		100	86 - 115
Copper	40.0	39.5		ug/L		99	90 - 115
Lead	40.0	39.7		ug/L		99	88 - 115
Zinc	40.0	38.4		ug/L		96	88 - 115

Lab Sample ID: MB 280-636724/1-B
Matrix: Water
Analysis Batch: 637443

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 637235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/13/23 09:45	12/14/23 18:39	1
Cadmium	ND		1.0	0.19	ug/L		12/13/23 09:45	12/14/23 18:39	1
Chromium	ND		3.0	0.50	ug/L		12/13/23 09:45	12/14/23 18:39	1
Copper	ND		2.0	0.71	ug/L		12/13/23 09:45	12/14/23 18:39	1
Lead	ND		1.0	0.23	ug/L		12/13/23 09:45	12/14/23 18:39	1
Manganese	ND		3.0	0.51	ug/L		12/13/23 09:45	12/14/23 18:39	1
Nickel	ND		3.0	0.83	ug/L		12/13/23 09:45	12/14/23 18:39	1
Selenium	ND		5.0	1.0	ug/L		12/13/23 09:45	12/14/23 18:39	1
Silver	ND		0.50	0.045	ug/L		12/13/23 09:45	12/14/23 18:39	1
Zinc	2.45	J	10	2.0	ug/L		12/13/23 09:45	12/14/23 18:39	1

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: LCS 280-636724/2-B
Matrix: Water
Analysis Batch: 637497

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 637235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	38.8		ug/L		97	89 - 111
Cadmium	40.0	37.6		ug/L		94	89 - 111
Chromium	40.0	37.8		ug/L		95	86 - 115
Copper	40.0	38.3		ug/L		96	90 - 115
Lead	40.0	37.9		ug/L		95	88 - 115
Manganese	40.0	37.2		ug/L		93	87 - 115
Nickel	40.0	37.7		ug/L		94	86 - 115
Selenium	40.0	37.7		ug/L		94	85 - 114
Silver	40.0	40.8		ug/L		102	90 - 114
Zinc	40.0	41.2		ug/L		103	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-637027/1-A
Matrix: Water
Analysis Batch: 637168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 637027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		12/12/23 14:25	12/12/23 19:37	1

Lab Sample ID: LCS 280-637027/2-A
Matrix: Water
Analysis Batch: 637168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 637027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.95		ug/L		99	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-637735/5
Matrix: Water
Analysis Batch: 637735

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			12/18/23 20:16	1

Lab Sample ID: LCS 280-637735/4
Matrix: Water
Analysis Batch: 637735

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1430		umhos/cm		102	90 - 110

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-637213/1
Matrix: Water
Analysis Batch: 637213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			12/13/23 13:56	1

Lab Sample ID: LCS 280-637213/2
Matrix: Water
Analysis Batch: 637213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	501	435		mg/L		87	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-636548/20
Matrix: Water
Analysis Batch: 636548

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			12/07/23 19:13	1

Lab Sample ID: LCS 280-636548/18
Matrix: Water
Analysis Batch: 636548

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.102		mg/L		102	91 - 112

Lab Sample ID: LCSD 280-636548/19
Matrix: Water
Analysis Batch: 636548

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.102		mg/L		102	91 - 112	0	20

Lab Sample ID: MB 280-636528/3-A
Matrix: Water
Analysis Batch: 636548

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.020	0.0040	mg/L			12/07/23 19:03	1

Lab Sample ID: LCS 280-636528/1-A
Matrix: Water
Analysis Batch: 636548

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.100	0.0977		mg/L		98	91 - 112

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSD 280-636528/2-A
Matrix: Water
Analysis Batch: 636548

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.100	0.0978		mg/L		98	91 - 112	0	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-637579/5
Matrix: Water
Analysis Batch: 637579

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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 280-636875/14
Matrix: Water
Analysis Batch: 636875

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			12/11/23 13:19	1

Lab Sample ID: LCS 280-636875/11
Matrix: Water
Analysis Batch: 636875

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.500	0.488		mg/L		98	81 - 122

Lab Sample ID: LCSD 280-636875/13
Matrix: Water
Analysis Batch: 636875

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.500	0.487		mg/L		97	81 - 122	0	10

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Metals

Filtration Batch: 636724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-636724/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-636724/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 636900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total Recoverable	Water	200.8	
MB 280-636900/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-636900/21-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-636900/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 637027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total/NA	Water	245.1	
MB 280-637027/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-637027/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 637108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total Recoverable	Water	200.8	636900
MB 280-636900/1-A	Method Blank	Total Recoverable	Water	200.8	636900
LCS 280-636900/21-A	Lab Control Sample	Total Recoverable	Water	200.8	636900

Analysis Batch: 637135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total Recoverable	Water	200.7 Rev 4.4	636900
MB 280-636900/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	636900
LCS 280-636900/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	636900

Analysis Batch: 637168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total/NA	Water	245.1	637027
MB 280-637027/1-A	Method Blank	Total/NA	Water	245.1	637027
LCS 280-637027/2-A	Lab Control Sample	Total/NA	Water	245.1	637027

Prep Batch: 637235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Potentially Dissolved	Water	200.8	636724
MB 280-636724/1-B	Method Blank	Potentially Dissolved	Water	200.8	636724
LCS 280-636724/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	636724

Analysis Batch: 637443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Potentially Dissolved	Water	200.8	637235
MB 280-636724/1-B	Method Blank	Potentially Dissolved	Water	200.8	637235

Analysis Batch: 637497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-636724/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	637235

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QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

General Chemistry

Filtration Batch: 636528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Dissolved	Water	FILTRATION	
MB 280-636528/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-636528/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-636528/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Analysis Batch: 636548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Dissolved	Water	SM 3500 CR B	636528
280-185390-1	OUTFALL-001A	Total/NA	Water	SM 3500 CR B	
MB 280-636528/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	636528
MB 280-636548/20	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-636528/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	636528
LCS 280-636548/18	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-636528/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	636528
LCSD 280-636548/19	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 636875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total/NA	Water	SM 4500 S2 D	
MB 280-636875/14	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-636875/11	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-636875/13	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 636926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 637213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total/NA	Water	SM 2540D	
MB 280-637213/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-637213/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 637579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total/NA	Water	SM 4500 H+ B	
LCS 280-637579/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 637667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Potentially Dissolved	Water	SM3500 CR B	
280-185390-1	OUTFALL-001A	Total Recoverable	Water	SM3500 CR B	

Analysis Batch: 637735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-185390-1	OUTFALL-001A	Total/NA	Water	SM 2510B	
MB 280-637735/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-637735/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

Client Sample ID: OUTFALL-001A

Lab Sample ID: 280-185390-1

Date Collected: 12/07/23 12:00

Matrix: Water

Date Received: 12/07/23 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	636900	12/12/23 08:40	AES	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			637135	12/12/23 21:22	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	636724	12/08/23 16:50	MSM	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	637235	12/13/23 09:45	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			637443	12/14/23 19:18	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	636900	12/12/23 08:40	AES	EET DEN
Total Recoverable	Analysis	200.8		1			637108	12/12/23 22:34	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	637027	12/12/23 14:25	KMS	EET DEN
Total/NA	Analysis	245.1		1			637168	12/12/23 19:44	KMS	EET DEN
Total/NA	Analysis	SM 2510B		1			637735	12/18/23 20:16	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	637213	12/13/23 13:56	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	636528	12/07/23 17:21	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	636548	12/07/23 19:07	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	636548	12/07/23 19:18	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			637579	12/15/23 18:40	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	636875	12/11/23 13:48	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			637667	12/18/23 11:55	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			637667	12/18/23 11:55	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			636926	12/12/23 01:32	P1B	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-185390-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins Denver

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-185390-1

Login Number: 185390

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brooke Molson Moran
Grand Island Resources
12567 West Cedar Road
Suite 110
Lakewood, Colorado 80228

Generated 1/3/2024 1:17:55 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-186015-1

Eurofins Denver

Job Notes

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

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

Authorization



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Authorized for release by
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(303)736-0138

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Definitions/Glossary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

Glossary

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

Case Narrative

Client: Grand Island Resources
Project: Nederland, CO

Job ID: 280-186015-1

Job ID: 280-186015-1

Eurofins Denver

Job Narrative 280-186015-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

When the analysis is requested on the chain of custody, 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 at the request of the client. 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.

Receipt

The sample was received on 12/21/2023 4:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

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.

Method 200.8 - Metals (ICP/MS)

Sample OUTFALL-001 (186015-1) was analyzed for Metals (ICP/MS). The sample was prepared on 12/27/2023 and analyzed on 12/27/2023 and 12/28/2023.

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Detection Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-186015-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	17		10	2.0	ug/L	1		200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

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

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Sample Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-186015-1	OUTFALL-001	Water	12/21/23 10:00	12/21/23 16:50

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001

Date Collected: 12/21/23 10:00

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186015-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		12/27/23 16:07	12/28/23 08:23	1
Lead	ND		1.0	0.23	ug/L		12/27/23 16:07	12/28/23 08:23	1

Method: EPA 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001

Date Collected: 12/21/23 10:00

Date Received: 12/21/23 16:50

Lab Sample ID: 280-186015-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		12/27/23 08:44	12/27/23 19:25	1
Copper	ND		2.0	0.71	ug/L		12/27/23 08:44	12/27/23 19:25	1
Lead	ND		1.0	0.23	ug/L		12/27/23 08:44	12/27/23 19:25	1
Silver	ND		0.50	0.045	ug/L		12/27/23 08:44	12/28/23 15:19	1
Zinc	17		10	2.0	ug/L		12/27/23 08:44	12/27/23 19:25	1

QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-638426/1-A

Matrix: Water

Analysis Batch: 638600

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 638426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		12/27/23 16:07	12/28/23 08:12	1
Lead	ND		1.0	0.23	ug/L		12/27/23 16:07	12/28/23 08:12	1

Lab Sample ID: LCS 280-638426/2-A

Matrix: Water

Analysis Batch: 638600

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 638426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	39.8		ug/L		100	90 - 115
Lead	40.0	38.9		ug/L		97	88 - 115

Lab Sample ID: LCSD 280-638426/3-A

Matrix: Water

Analysis Batch: 638600

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 638426

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	40.0	40.3		ug/L		101	90 - 115	1	20
Lead	40.0	39.5		ug/L		99	88 - 115	2	20

Lab Sample ID: MB 280-638182/1-B

Matrix: Water

Analysis Batch: 638553

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 638347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		12/27/23 08:44	12/27/23 18:17	1
Copper	ND		2.0	0.71	ug/L		12/27/23 08:44	12/27/23 18:17	1
Lead	ND		1.0	0.23	ug/L		12/27/23 08:44	12/27/23 18:17	1
Zinc	ND		10	2.0	ug/L		12/27/23 08:44	12/27/23 18:17	1

Lab Sample ID: MB 280-638182/1-B

Matrix: Water

Analysis Batch: 638681

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 638347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.045	ug/L		12/27/23 08:44	12/28/23 15:08	1

Lab Sample ID: LCS 280-638182/2-C

Matrix: Water

Analysis Batch: 638553

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 638347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	38.7		ug/L		97	89 - 111
Copper	40.0	38.3		ug/L		96	90 - 115
Lead	40.0	38.3		ug/L		96	88 - 115
Zinc	40.0	44.5		ug/L		111	88 - 115

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QC Sample Results

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-638182/2-C				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Potentially Dissolved			
Analysis Batch: 638681				Prep Batch: 638347			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	40.0	39.6		ug/L		99	90 - 114

QC Association Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

Metals

Filtration Batch: 638182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-638182/1-B	Method Blank	Potentially Dissolved	Water	FILTRATION	
LCS 280-638182/2-C	Lab Control Sample	Potentially Dissolved	Water	FILTRATION	

Filtration Batch: 638343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186015-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 638347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186015-1	OUTFALL-001	Potentially Dissolved	Water	200.8	638343
MB 280-638182/1-B	Method Blank	Potentially Dissolved	Water	200.8	638182
LCS 280-638182/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	638182

Prep Batch: 638426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186015-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-638426/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-638426/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-638426/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Analysis Batch: 638553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186015-1	OUTFALL-001	Potentially Dissolved	Water	200.8	638347
MB 280-638182/1-B	Method Blank	Potentially Dissolved	Water	200.8	638347
LCS 280-638182/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	638347

Analysis Batch: 638600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186015-1	OUTFALL-001	Total Recoverable	Water	200.8	638426
MB 280-638426/1-A	Method Blank	Total Recoverable	Water	200.8	638426
LCS 280-638426/2-A	Lab Control Sample	Total Recoverable	Water	200.8	638426
LCSD 280-638426/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	638426

Analysis Batch: 638681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-186015-1	OUTFALL-001	Potentially Dissolved	Water	200.8	638347
MB 280-638182/1-B	Method Blank	Potentially Dissolved	Water	200.8	638347
LCS 280-638182/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	638347

Lab Chronicle

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-186015-1

Date Collected: 12/21/23 10:00

Matrix: Water

Date Received: 12/21/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	638343	12/22/23 13:35	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	638347	12/27/23 08:44	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			638553	12/27/23 19:25	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	638343	12/22/23 13:35	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	638347	12/27/23 08:44	MSM	EET DEN
Potentially Dissolved	Analysis	200.8		1			638681	12/28/23 15:19	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	638426	12/27/23 16:07	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			638600	12/28/23 08:23	LMT	EET DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: Grand Island Resources
Project/Site: Nederland, CO

Job ID: 280-186015-1

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	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins Denver

Chain of Custody Record

Client Information		Sampler: BM		Lab PM: Bienilius, Dylan T		Carrier Tracking No(s):		COC No:	
Client Contact: Patrick Delaney		Phone: 303-506-1618		E-Mail: Dylan.Bienilius@et.eurofins.com		State of Origin:		Page:	
Company: Grand Island Resources		PWSID:		Analysis Requested		Job #:		Preservation Codes:	
Address: 12567 West Cedar Road Suite 250		Due Date Requested:		200.8 - Potentially Dissolved Metals (Second half of the month permit list)		Total Number of Containers		Special Instructions/Note:	
City: Lakewood		TAT Requested (days):		200.8 - Potentially Dissolved Metals (Second half of the month permit list)				*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)	
State, Zip: CO, 80466		Compliance Project: ☐ Yes ☒ No		Field Filtered Sample (Yes or No)				*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)	
Phone: 315-414-6986		Advance Payment Required		Perform MS/MSD (Yes or No)				no labels	
Email: pdelaney@blackfoxmining.com		WO #:		Sample Type (C=Comp, G=grab) BT=Tissue, A=Aliq					
Project Name: Nederland, CO		Project #: 28022821		Sample Time 10:00					
Site: second half of the month event		SSOW#:		Sample Date 12/21/23					
				Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Aliq)					
				Preservation Code: W					
				Sample Date					
				Sample Time					
				Sample Type					
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				Sample Type					
				Matrix					

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-186015-1

Login Number: 186015

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

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

APPENDIX C SURFACE WATER ANALYTICAL RESULTS

Surface water not flowing during this quarter, therefore no samples taken.

APPENDIX D CHAIN OF CUSTODY (COC) FORMS

[illegible]

Client Information			Lab PM: Blenilius, Dylan T			Carrier Tracking No(s):			COC No:		
Client Contact: Brooke Molson Moran			E-Mail: Dylan.Blenilius@et.eurofinsus.com			State of Origin:			Page:		
Company: Grand Island Resources			PWSID:			Job #:			Preservation Codes:		
Address: 12567 West Cedar Road Suite 250			Due Date Requested:			Analysis Requested			Special Instructions/Note:		
City: Lakewood			TAT Requested (days):			Field Filtered Sample (Yes or No)			Total Number of Containers		
State, Zip: CO, 80466			Compliance Project: ☐ Yes ☒ No			Perform MS/MSD (Yes or No)			Special Instructions/Note:		
Phone: 315-414-6986			PO #:			Field Filtered Sample (Yes or No)			Special Instructions/Note:		
Email: bmolsonm@q.emporia.edu			WO #:			Field Filtered Sample (Yes or No)			Special Instructions/Note:		
Project Name: Nederland, CO			Project #: 28025589			Field Filtered Sample (Yes or No)			Special Instructions/Note:		
Site: Groundwater Sampling			SSOW#:			Field Filtered Sample (Yes or No)			Special Instructions/Note:		
Sample Identification			Sample Date			Sample Time			Sample Type		
CROSS WELL			11/30/23			13:00			G		
COMPLIANCE WELL			"			13:30			W		
COMPLIANCE 02			"			13:30			W		
COMPLIANCE 03			"			13:30			W		
CARIBOU WELL			"			11:30			W		
CROSS PORTAL			"			12:15			W		
CROSS PORTAL 02			"			12:15			W		
CARIBOU PORTAL			"			11:15			W		
Possible Hazard Identification			☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			Return To Client		
Deliverable Requested: I, II, III, IV, Other (specify)									Disposal By Lab		
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:		
Relinquished by:			Date/Time:			Company:			Received by:		
Relinquished by:			Date/Time:			Company:			Received by:		
Relinquished by:			Date/Time:			Company:			Received by:		
Custody Seals Intact: ☐ Yes ☐ No			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:					

Chain of Custody Record

Ver: 01/16/2019

APPENDIX E FIELD SHEETS

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered into database (Date) <u>n/a</u>		Pg <u>1</u> of <u>1</u> Pgs						
*StationID: <u>2022-01</u>	*Date (mm/dd/yyyy): <u>10/31/23</u>		*Group: <u>n/a</u>		*Agency: <u>n/a</u>								
*Funding: <u>n/a</u>	ArrivalTime: <u>4:50</u>	DepartureTime: <u>5:00</u>	*SampleTime (1st sample): <u>n/a</u>		*Protocol: <u>n/a</u>								
*Personnel: <u>BM</u>	*Purpose (circle all that apply): <u>WaterChem</u> <u>WaterTox</u> <u>FieldObs</u> <u>FieldMeasure</u>			*PurposeFailure: <u>n/a</u>									
*Location: <u>(Bank) Thalweg Midchannel OpenWater</u>	*GPS/DGPS	Lat (dd.ddddd): <u>39.97904</u>	Long (ddd.ddddd): <u>-105.57585</u>	OCCUPATION METHOD: <u>Walk-in</u> <u>Bridge</u> <u>R/V</u> <u>Other</u>									
GPS Device: <u>GPS WAYPOINTS APP</u>	Target: <u>39.97904</u>	*Actual: <u>39.978993</u>		STARTING BANK (facing downstream): <u>LB</u> / RB / NA									
Datum: <u>NAD83</u>	Accuracy (ft/m): <u>1.20</u>			Point of Sample (if Integrated, then -88 in dbase)									
Field Observations (SampleType = FieldObs)													
SITE ODOR: <u>None, Sulfides, Sewage, Petroleum, Mixed, Other</u>		WADEABILITY: <u>Y / N / Unk</u>	BEAUFORT SCALE (see attachment): <u>4</u>	DISTANCE FROM BANK (m): <u>n/a</u>	STREAM WIDTH (m): <u>n/a</u>								
SKY CODE: <u>Clear, Partly Cloudy, Overcast, Fog</u>		WIND DIRECTION (from): <u>NW</u>	HYDROMODIFICATION: <u>None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other</u>		WATER DEPTH (m): <u>n/a</u>								
OTHER PRESENCE: <u>Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other n/a</u>		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): <u>2022-01-OCT-A</u>		1: (RB / LB / BB / US / DS / ##)									
DOMINANT SUBSTRATE: <u>Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other n/a</u>		PRECIPITATION: <u>None, Fog, Drizzle, Rain, Snow</u>		2: (RB / LB / BB / US / DS / ##)									
WATER CLARITY: <u>n/a</u> Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION (last 24 hrs): <u>Unknown, <1", >1" None</u>		3: (RB / LB / BB / US / DS / ##)									
WATER ODOR: <u>n/a</u> None, Sulfides, Sewage, Petroleum, Mixed, Other				<u>2022-01-OCT-B</u>									
WATER COLOR: <u>n/a</u> Colorless, Green, Yellow, Brown				<u>2022-01-OCT-C</u>									
OBSERVED FLOW: <u>NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs</u>													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab								Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)					
SAMPLE TYPE: <u>Grab / Integrated</u>		COLLECTION EQUIPMENT:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: <u>SURFACE WATER NOT FLOWING, NO SAMPLES COLLECTED</u>													

Run:										Sample Processing Date:									
Sample ID #:																			
Site Code:																			
# Small Wells																			
# Large Wells																			
Empty Wells																			
MPN																			
Yellow +																			
# Small Wells																			
# Large Wells																			
False Positives																			
MPN																			
Yellow + Fluorescence (+)																			
Temp/Time																			
Start																			
4Hr. Check																			
14 Hr. Check																			
18 Hr. Check																			
22 Hr. Check, if needed																			
FIELD DUPLICATES										LAB DUPLICATES									
Normal Sample #										Normal Sample #									
Duplicate Sample #										Duplicate Sample #									
MPN										MPN									
95% CI										95% CI									
Lower										Lower									
Upper										Upper									
TOTAL COLIFORM										TOTAL COLIFORM									
Normal										Normal									
Duplicate										Duplicate									
Mean										Mean									
Pass										Pass									
Needs Review										Needs Review									
E. COLI										E. COLI									
Normal										Normal									
Duplicate										Duplicate									
Mean										Mean									
Pass										Pass									
Needs Review										Needs Review									
BLANKS										BLANKS									
Field Sample										Lab Sample #									
Pass										Pass									
Needs Review										Needs Review									
Mean										Mean									
Pass										Pass									
Needs Review										Needs Review									
Sampler Signature / Date / Time Arrived:										Placed in Incubator By / Date / Time:									
Trays Read By:										Entered into database:									
Processor / Date / Time:										Pulled from Incubator By / Date / Time:									
NOTES:																			

Brooke Moran 10/31/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered into database (Date) <u>n/a</u>		Pg <u>1</u> of <u>1</u> Pgs	
*StationID: <u>2022-02</u>		*Date (mm/dd/yyyy): <u>10/31/23</u>		*Group: <u>n/a</u>		*Agency: <u>n/a</u>		
*Funding: <u>n/a</u>		ArrivalTime: <u>14:30</u>		DepartureTime: <u>14:40</u>		*SampleTime (1st sample): <u>n/a</u>		*Protocol: <u>n/a</u>
*Personnel: <u>BM</u>		*Purpose (circle all that apply): <u>WaterChem</u> <u>WaterTox</u> <u>FieldObs</u> <u>FieldMeasure</u>				*PurposeFailure: <u>n/a</u>		
*Location: <u>Bank Thalweg Midchannel OpenWater</u>		*GPS/DGPS		Lat (dd.ddddd): <u>39.975787</u>		Long (ddd.ddddd): <u>-105.569328</u>		OCCUPATION METHOD: <u>(Walk-in)</u> Bridge R/V Other
GPS Device: <u>GPS WAYPOINTS APP</u>		Target: <u>39.975787</u>		-105.569328		STARTING BANK (facing downstream): LB <u>(RB)</u> NA		
Datum: NAD83		Accuracy (ft/m):		*Actual: <u>39.975873</u>		Point of Sample (if Integrated, then -88 in dbase)		
Field Observations (SampleType = FieldObs)				WADEABILITY: Y / N / <u>Unk</u>		BEAUFORT SCALE (see attachment): <u>3</u>		DISTANCE FROM BANK (m): <u>n/a</u>
SITE ODOR: <u>None/Sulfides, Sewage, Petroleum, Mixed, Other</u>				WIND DIRECTION (from): <u>E</u>		HYDROMODIFICATION: <u>None</u> , Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		STREAM WIDTH (m): <u>n/a</u>
SKY CODE: <u>(Clear)</u> Partly Cloudy, Overcast, Fog				PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode):		1: (RB / LB / BB / US / DS / ##)		
OTHER PRESENCE: <u>Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other</u>				PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)		
DOMINANT SUBSTRATE: <u>Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other</u>				PRECIPITATION (last 24 hrs): <u>Unknown, <1", >1", None</u>		3: (RB / LB / BB / US / DS / ##)		
WATER CLARITY: <u>n/a</u> Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)				WATER ODOUR: <u>n/a</u> None, Sulfides, Sewage, Petroleum, Mixed, Other		OBSERVED FLOW: <u>NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs</u>		
WATER COLOR: <u>n/a</u> Colorless, Green, Yellow, Brown						2022-02-OCT-A		
						2022-02-OCT-B		
						2022-02-OCT-C		
Field Measurements (SampleType = FieldMeasure; Method = Field)								
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)
SUBSURF/MID/BOTTOM/REP								
SUBSURF/MID/BOTTOM/REP								
SUBSURF/MID/BOTTOM/REP								
Instrument:								
Calib. Date:								
Samples Taken (# of containers filled) - Method=Water_Grab								
Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: <u>Grab / Integrated</u>		COLLECTION EQUIPMENT:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other				
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury
Sub/Surface								
Sub/Surface								
COMMENTS: <u>SURFACE WATER NOT FLOWING, NO SAMPLES COLLECTED</u>								

Run:		Sample Processing Date:									
Sample ID #:											
Site Code:											
Yellow +	# Small Wells										
	# Large Wells										
	Empty Wells										
	MPN										
Yellow + Fluorescence (+)	# Small Wells										
	# Large Wells										
	False Positives										
	MPN										
Temp/Time	Start	4 Hr. Check	14 Hr. Check	18 Hr. Check	22 Hr. Check, if needed						
TOTAL COLIFORM	FIELD DUPLICATES					LAB DUPLICATES					
	Normal Sample #	Duplicate Sample #	MPN	95% CI	Normal Sample #	Duplicate Sample #	MPN	95% CI			
	Mean	Pass	Needs Review	Mean	Pass	Needs Review	Mean	Pass	Needs Review		
	Mean	Pass	Needs Review	Mean	Pass	Needs Review	Mean	Pass	Needs Review		
E. COLI	Normal Sample #	Duplicate Sample #	MPN	95% CI	Normal Sample #	Duplicate Sample #	MPN	95% CI			
	Mean	Pass	Needs Review	Mean	Pass	Needs Review	Mean	Pass	Needs Review		
	Mean	Pass	Needs Review	Mean	Pass	Needs Review	Mean	Pass	Needs Review		
	Mean	Pass	Needs Review	Mean	Pass	Needs Review	Mean	Pass	Needs Review		
BLANKS	Field Sample #	Duplicate Sample #	MPN	95% CI	Field Sample #	Duplicate Sample #	MPN	95% CI			
	Mean	Pass	Needs Review	Mean	Pass	Needs Review	Mean	Pass	Needs Review		
	Mean	Pass	Needs Review	Mean	Pass	Needs Review	Mean	Pass	Needs Review		
	Mean	Pass	Needs Review	Mean	Pass	Needs Review	Mean	Pass	Needs Review		
Sampler Signature / Date / Time Arrived:		Placed in Incubator By / Date / Time:				Trays Read By:					
Processor / Date / Time:		Pulled from Incubator By / Date / Time:				Entered into database:					

Brooke Moran 10/31/23

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CROSS WELL Date 10/31/23 Start Time 11:30 Stop time 13:15 Page 1 of 1
 Sample Control Number n/a Samplers BM, KL Project Number:

WEATHER CONDITIONS

Ambient Air Temperature: 33 °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 44 Total Depth 205 Top of Screen 15 Filter Pack Interval n/a Borehole Diameter (inches) 5 7/8" (40-205 ft)
 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 208 gallons
 Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 1.2 Feet of Water n/a
 Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level 44 Total Depth 205 Total Volume Purged 624 Saturated Borehole Volume (gal) 100 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number 0AKT0101 Conductivity Meter: Meter Number CM1-2104-01479
 Buffer 7 Measured Value 7.0 Temp. 11.5 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 11 °C
 Buffer 10 Measured Value 10.0 Temp. 10.9 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 11 °C
 Turbidity Meter: New Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C ☒ °F ☐	Turbidity Visual Est. ☐ Measured ☒	Comments
11:30	0	7.4	0.4	7.7	4.9	FIELD-FILTERED FOR
13:00	624	6.4	0.4	6.6	5.2	METALS &
						RADIONUCLIDES
						SAMPLES COLLECTED
						WITH DISPOSABLE CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
10/31	13:00	7.0	6.4	0.4	6.6	5.2		

Duplicate Sample-02 (sample control number/time n/a) QA/QC INFO
 Field Blank-03 (sample control number/time n/a) IN LAB REPORT
 Rinsate Sample-04 (sample control number/time n/a)
 Matrix Spike-MS (sample control number/time n/a)
 (sample control number/time n/a)

Notes: SAMPLED VIA PORT. * 6 5/8" (1-40 ft) & 4 1/2" (15-205 ft)

Sampler's Signature

Brooke Moran 10/31/23

IDENTIFICATION

Sample Control Number n/a Date 10/15/12 Start Time 12:00
WEATHER CONDITIONS Bm, K1 Samplers Bm, K1

Ambient Air Temperature: 35° °C ☒ °F ☒ Not Measured ☐ Wind: Heavy ☐ Moderate ☐ Light ☒
Precipitation: None ☒ Rain ☐ Snow ☐ Heavy ☐ Moderate ☐ Light ☐ Sunny ☒ Partly Cloudy ☐

Static Water Level -4 Total Depth 65 Top of Screen 65 Filter Pack Interval n/a Borehole Diameter (inches)

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 185 gallons

Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 1.0 Feet of Water n/a

Well purged with: WELL PUMP

Static Water Level 41 Total Depth 165 Total Volume Purged 554 Saturated Borehole Volume (gal) 300 Max Pumping Rate n/a

pH Meter: Meter Number OAKTON 01

Buffer 7 Measured Value 7.0 Temp. 11.5 °C

Buffer 10 Measured Value 10.0 Temp. 10.9 °C

Conductivity Meter: Meter Number CM1-2104-1479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 11 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 1 °C

Turbidity Meter: None Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
10/31	13:30	10.4	7.2	0.3	5.1 ⁰	3.2		

Duplicate Sample-02	(sample control number/time <u>COMPLIANCE 02</u>)	QA/QC INFO IN LAB REPORT
Field Blank-03	(sample control number/time <u>COMPLIANCE 03</u>)	
Rinsate Sample-04	(sample control number/time <u>n/a</u>)	
Matrix Spike-MS	(sample control number/time <u>n/a</u>)	
	(sample control number/time <u>n/a</u>)	

Notes: SAMPLED AT WELL, * 6 5/8" (-1-50 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Bloche Moran 10/31/23

IDENTIFICATION

Sample Location CARIBOU WELL Date 10/31/23 Start Time 10:40 Stop time 11:40 Page 1 of 1
 Sample Control Number n/a Samplers BM
 WEATHER CONDITIONS _____

WEATHER CONDITIONS

Ambient Air Temperature: 22.0 °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 -36 Total Depth 165 Top of Screen 25 Filter Pack Interval n/a Borehole Diameter (inches) 6" (26-165A)
2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 161 gallons
Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 2.4 Feet of Water n/a
Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level 36 Total Depth 165 Total Volume Purged 483 Saturated Borehole Volume (gal) 299 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number 0AKTON01 Conductivity Meter: Meter Number CM1-2104-01479
Buffer 7 Measured Value 7.0 Temp. 11.5 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 11 °C
Buffer 10 Measured Value 10.0 Temp. 10.9 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 11 °C
Turbidity Meter: Nette Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

[illegible]

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measu red ☒		
10/31	11:30	10.0	6.2	0.3	6.5 $^{\circ}$	2.5		

Duplicate Sample-02	(sample control number/time	n/a
Field Blank-03	(sample control number/time	n/a
Rinsate Sample-04	(sample control number/time	n/a
Matrix Spike-MS	(sample control number/time	n/a
	(sample control number/time	n/a

QA QC INFO
IN LAB REPORT

Notes: SAMPLED VIA PORT, *6⁵/₈" (-1-26 ft) & 4¹/₂" (15-165 ft)

Sampler's Signature

Blake Moran 10/31/23

IDENTIFICATION

WEATHER CONDITIONS

INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)

FINAL WELL MEASUREMENTS

INSTRUMENT CALIBRATION

FIELD PARAMETER MEASUREMENTS DURING PURGING

FINAL SAMPLE PARAMETERS

Duplicate Sample-02	(sample control number/time <u>CROSS 02</u>)	QA/QC INFO IN LAB REPORT
Field Blank-03	(sample control number/time <u>n/a</u>)	
Rinsate Sample-04	(sample control number/time <u>n/a</u>)	
Matrix Spike-MS	(sample control number/time <u>n/a</u>)	
	(sample control number/time <u>n/a</u>)	

Sampler's Signature Moore Moran 10/31/23

IDENTIFICATION

WEATHER CONDITIONS

INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)

FINAL WELL MEASUREMENTS

INSTRUMENT CALIBRATION

FIELD PARAMETER MEASUREMENTS DURING PURGING

FINAL SAMPLE PARAMETERS

Duplicate Sample-02	(sample control number/time	n/a
Field Blank-03	(sample control number/time	n/a
Rinsate Sample-04	(sample control number/time	n/a
Matrix Spike-MS	(sample control number/time	n/a
	(sample control number/time	n/a

QAQC INFO
IN LAB REPORT

Sampler's Signature Made Moran 10/31/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ						Entered into database (mm/dd/yyyy) <u>n/a</u>		Pg 1 of 1 Pgs					
*StationID: <u>2022-01</u>		*Date (mm/dd/yyyy): <u>11/30/23</u>		*Group: <u>n/a</u>		*Agency: <u>n/a</u>							
*Funding: <u>n/a</u>		ArrivalTime: <u>11:25</u>		DepartureTime: <u>11:35</u>		*SampleTime (1st sample): <u>n/a</u>		*Protocol: <u>n/a</u>					
*Personnel: <u>BM</u>		*Purpose (circle all that apply): <u>WaterChem WaterTox FieldObs FieldMeasure</u>				*PurposeFailure: <u>n/a</u>							
*Location: <u>Bank Thalweg Midchannel OpenWater</u>		*GPS/DGPS		Lat (dd.ddddd): <u>39.97904</u>		Long (ddd.ddddd): <u>-105.57585</u>		OCCUPATION METHOD: <u>Walk-in</u> Bridge <u>RV</u> Other					
GPS Device: <u>GPS WAYPOINTS APP</u>		Target: <u>39.97904</u>		*Actual: <u>39.978993</u>		-105.575798		STARTING BANK (facing downstream): <u>LB</u> RB / NA					
Datum: <u>NAD83</u>		Accuracy (ft/m): <u>1.20</u>						Point of Sample (if Integrated, then -88 in dbase)					
Field Observations (SampleType = FieldObs)													
SITE ODOR: <u>None, Sulfides, Sewage, Petroleum, Mixed, Other</u>				WATER CLARITY: <u>Y / N / Unk</u>		BEAUFORT SCALE (see attachment): <u>1</u>		DISTANCE FROM BANK (m): <u>n/a</u>					
SKY CODE: <u>Clear, Partly Cloudy, Overcast, Fog</u>				WIND DIRECTION (from): <u>N</u>		HYDROMODIFICATION: <u>None</u> Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other		STREAM WIDTH (m): <u>n/a</u>					
OTHER PRESENCE: <u>Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other</u>								WATER DEPTH (m): <u>n/a</u>					
DOMINANT SUBSTRATE: <u>Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other</u>								PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): <u>2022-01-NOV-A</u>					
WATER CLARITY: <u>n/a</u> Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)				PRECIPITATION: <u>None, Fog, Drizzle, Rain, Snow</u>				2: (RB / LB / BB / US / DS / ##)					
WATER ODOR: <u>n/a</u> None, Sulfides, Sewage, Petroleum, Mixed, Other				PRECIPITATION (last 24 hrs): <u>Unknown, <1", >1", None</u>				<u>2022-01-NOV-B</u>					
WATER COLOR: <u>n/a</u> Colorless, Green, Yellow, Brown								3: (RB / LB / BB / US / DS / ##)					
OBSERVED FLOW: <u>NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs</u>								<u>2022-01-NOV-C</u>					
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab										Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)			
SAMPLE TYPE: <u>Grab / Integrated</u>		COLLECTION EQUIPMENT: <u>Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other</u>											
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: <u>NO SURFACE WATER FLOWING, SO NO SAMPLES COLLECTED</u>													

Run:		Sample Processing Date:											
Sample ID #:													
Site Code:													
Yellow +	# Small Wells												
	# Large Wells												
	Empty Wells												
	MPN												
Yellow + Fluorescence (+)	# Small Wells												
	# Large Wells												
	False Positives												
	MPN												
Temp / time	Start	4Hr. Check	14 Hr. Check	18 Hr. Check	22 Hr. Check, if needed								
FIELD DUPLICATES													
	Normal Sample #					Normal Sample #							
	Duplicate Sample #					Duplicate Sample #							
TOTAL COLIFORM	MPN					MPN							
	Mean					Mean							
E. COLI	MPN					MPN							
	Mean					Mean							
BLANKS	Field Sample #					Lab Sample #							
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data													
Sampler Signature / Date / Time Arrived:				Placed in Incubator By / Date / Time:				Trays Read By:					
Processor / Date / Time:				Pulled from Incubator By / Date / Time:				Entered into database:					
NOTES:													

Brooke Moran 11/30/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - Event Type=WQ						Entered in database (Print Date) <i>n/a</i>		Pg 1 of 1 Pgs					
*StationID: <i>2022-02</i>		*Date (mm/dd/yyyy): <i>11/30/23</i>		*Group: <i>n/a</i>		*Agency: <i>n/a</i>							
*Funding: <i>n/a</i>		Arrival Time: <i>10:30</i>		Departure Time: <i>10:40</i>		*Sample Time (1st sample): <i>n/a</i>		*Protocol: <i>n/a</i>					
*Personnel: <i>Bm</i>		*Purpose (circle all that apply): <i>WaterChem WaterTox FieldObs FieldMeasure</i>				*Purpose Failure: <i>n/a</i>							
*Location: <i>Bank Thalweg Midchannel OpenWater</i>		*GPS/DGPS		Lat (dd.ddddd):		Long (ddd.ddddd):		OCCUPATION METHOD: <i>Walk-in</i> Bridge R/V Other					
GPS Device: <i>GPS WAYPOINTS APP</i>		Target: <i>39.975787</i>		-105.569328		STARTING BANK (facing downstream): <i>LB</i> (RB) NA							
Datum: <i>NAD83</i>		Accuracy (ft/m): <i>1.40</i>		*Actual: <i>39.975873</i>		-105.569305		Point of Sample (if Integrated, then -88 in dbase)					
Field Observations (Sample Type = FieldObs)													
SITE ODOR: <i>None, Sulfides, Sewage, Petroleum, Mixed, Other</i>						WADEABILITY: <i>Y / N / Unk</i>		BEAUFORT SCALE (see attachment): <i>1</i>					
SKY CODE: <i>Clear, Partly Cloudy, Overcast, Fog</i>						WIND DIRECTION (from): <i>NE</i>		HYDROMODIFICATION: <i>None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other</i>					
OTHER PRESENCE: <i>Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other</i>						PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy_mm_dd_uniquecode): <i>2022-02_NOV-A</i>							
DOMINANT SUBSTRATE: <i>Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other</i>						1: (RB / LB / BB / US / DS / ##)							
WATER CLARITY: <i>n/a</i> Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)						2: (RB / LB / BB / US / DS / ##)							
WATER ODOR: <i>n/a</i> None, Sulfides, Sewage, Petroleum, Mixed, Other						3: (RB / LB / BB / US / DS / ##)							
WATER COLOR: <i>n/a</i> Colorless, Green, Yellow, Brown						PRECIPITATION (last 24 hrs): <i>None</i>							
OBSERVED FLOW: <i>NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs</i>						PRECIPITATION: <i>None, Fog, Drizzle, Rain, Snow</i>							
Field Measurements (Sample Type = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (Sample Type = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: <i>Grab / Integrated</i>		COLLECTION EQUIPMENT:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: <i>SURFACE WATER NOT FLOWING, NO SAMPLES COLLECTED</i>													

Run:		Sample Processing Date:													
Sample ID #:															
Site Code:															
Yellow +	# Small Wells														
	# Large Wells														
	Empty Wells														
	MPN														
Yellow + Fluorescence (+)	# Small Wells														
	# Large Wells														
	False Positives														
	MPN														
Temp / Time	Start	4Hr. Check	14 Hr. Check	18 Hr. Check	22 Hr. Check, if needed										
FIELD DUPLICATES															
Normal Sample #		Duplicate Sample #										Normal Sample #		Duplicate Sample #	
MPN												MPN			
95% CI												95% CI			
Lower												Lower		Upper	
Upper												Upper			
TOTAL COLIFORM	Normal Duplicate Mean	Pass										Normal Duplicate Mean		Pass	
E. COLI	Normal Duplicate Mean	Pass										Normal Duplicate Mean		Pass	
BLANKS	Field Sample #	Pass										Field Sample #		Pass	
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data															
Sampler Signature / Date / Time Arrived:				Placed in Incubator By / Date / Time:				Trays Read By:							
Processor / Date / Time:				Pulled from Incubator By / Date / Time:				Entered into database:							
NOTES:															

Brooke Moran 11/30/23

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CROSS WELL Date 11/30/23 Start Time 11:30 Stop time 13:15 Page 1 of 1
 Project Number: _____
 Sample Control Number n/a Samplers BM

WEATHER CONDITIONS

Ambient Air Temperature: 25.9 °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 46 Total Depth 205 Top of Screen 15 Filter Pack Interval n/a Borehole Diameter (inches) 9" (0-40 ft)
 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 208 gallons 5 7/8" (40-205 ft)
 Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 1.2 Feet of Water n/a
 Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level 46 Total Depth 205 Total Volume Purged 624 Saturated Borehole Volume (gal) 100 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON 01

Buffer 7 Measured Value 7.0 Temp. 12.4 °C

Buffer 4 Measured Value 4.0 Temp. 12.4 °C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 12 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 12 °C

Turbidity Meter: New Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C ☐ °F ☒	Turbidity Visual Est. ☐ Measured ☒	Comments
11:30	0	6.8	0.4	7.6°	4.8	FIELD-FILTERED FOR
13:00	624	6.8	0.4	5.9	2.7	METALS & RADIONUCLIDES
						SAMPLES COLLECTED WITH
						DISPOSABLE CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
11/30	13:00	7.0	6.8	0.4	5.9	2.7		

Duplicate Sample-02 (sample control number/time n/a) QA/QC INFO
 Field Blank-03 (sample control number/time n/a) IN LAB REPORT
 Rinsate Sample-04 (sample control number/time n/a)
 Matrix Spike-MS (sample control number/time n/a)
 (sample control number/time n/a)

Notes: SAMPLED VIA PORT. * 6 5/8" (-1-40 ft) & 4 1/2" (15-205 ft)

Sampler's Signature

Brooke Moran 11/30/23

IDENTIFICATION

Project Number:

WEATHER CONDITIONS

Precipitation: None ☒ Rain ☐ Snow ☐ Heavy ☐ Moderate ☐ Light ☐ Sunny ☒ Partly Cloudy ☐

INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 185 gallons

Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 6.0 Feet of Water n/a

Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level 42 Total Depth 165 Total Volume Purged 554 Saturated Borehole Volume (gal) 277 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTONOI

Conductivity Meter: Meter Number CM1-2104-01479

Buffer 7 Measured Value 7.0 Temp. 12.4 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 12 °C

Buffer 4 Measured Value 4.0 Temp. 12.4 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 17 °C

Turbidity Meter: Newton Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

[illegible]

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
11/30	13:30	10.4	7.0	0.3	5.0	2.4		

Duplicate Sample-02	(sample control number/time <u>COMPLIANCE 02</u>)	QA/QC INFO IN LAB REPORT
Field Blank-03	(sample control number/time <u>COMPLIANCE 03</u>)	
Rinsate Sample-04	(sample control number/time <u>n/a</u>)	
Matrix Spike-MS	(sample control number/time <u>n/a</u>)	
	(sample control number/time <u>n/a</u>)	

Notes: SAMPLED AT WELL, *6 5/8" (-1-50ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Brake Moran 11/30/23

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CARIBOU WELL Date 11/30/23 Start Time 10:40 Stop time 11:40 Page 1 of 1
 Sample Control Number n/a Samplers BM

Project Number:

WEATHER CONDITIONS

Ambient Air Temperature: 25.9° °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 -35 Total Depth 165 Top of Screen 25 Filter Pack Interval n/a Borehole Diameter (inches) 9" (0-26 ft)
 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 161 gallons
 Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 2.4 Feet of Water n/a
 Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level -35 Total Depth 165 Total Volume Purged 483 Saturated Borehole Volume (gal) 299 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number 0AKTON01 Conductivity Meter: Meter Number CM1-2104-01479
 Buffer 7 Measured Value 7.0 Temp. 12.4 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 12 °C
 Buffer 4 Measured Value 4.0 Temp. 12.4 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 12 °C
 Turbidity Meter: Newtry Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C ☒ °F ☐	Turbidity Visual Est. ☐ Measured ☒	Comments
10:40	0	6.3	0.2	11.6	3.1	FIELD-FILTERED FOR
11:30	483	6.9	0.3	5.7°	4.8	METALS & RADIONUCLIDES
						SAMPLES COLLECTED
						WITH DISPOSABLE CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
11/30	11:30	10.0	6.9	0.3	5.7°	4.8		

Duplicate Sample-02 (sample control number/time n/a) QA/QC INFO
 Field Blank-03 (sample control number/time n/a) IN LAB REPORT
 Rinsate Sample-04 (sample control number/time n/a)
 Matrix Spike-MS (sample control number/time n/a)
 (sample control number/time n/a)

Notes: SAMPLED VIA PORT. * 6 5/8" (-1-26 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Brooke Moran 11/30/23

IDENTIFICATION

Sample Location CROSS PORTAL Date 11/30/23 Start Time 12:00 Stop time 12:30 Page 1 of 1
Sample Control Number n/a Samplers BM

Ambient Air Temperature: _____ °C ☒ °F ☒ Not Measured ☐ **Wind:** Heavy ☐ Moderate ☒ Light ☒

INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: _____ gallons

Well purged with:

Static Water Level___ Total Depth___ Total Volume Purged___ Saturated Borehole Volume (gal)___ Max Pumping Rate___

pH Meter: Meter Number OAKTON 01

Buffer 4.0 Measured Value 4.0 Temp. 12.4°C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 12 °C

Turbidity Meter: Newton Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
11/30	12:15	n/a	8.0	0.4	5.5	22.6		

Duplicate Sample-02	(sample control number/time <u>CROSS PORTAL 02</u>)	QA/QC INFO IN LAB REPORT
Field Blank-03	(sample control number/time <u>n/a</u>)	
Rinsate Sample-04	(sample control number/time <u>n/a</u>)	
Matrix Spike-MS	(sample control number/time <u>n/a</u>)	
	(sample control number/time <u>n/a</u>)	

Sampler's Signature

Brode Moran 11/30/23

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CARIBOU PORTAL Date 11/30/23 Start Time 10:30 Stop time 11:15 Page 1 of 1
 Sample Control Number n/a Samplers BM

Project Number:

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 = 1.4688 gal/ft Casing Volume: _____ gallons

Well Casing ID _____ Well Casing OD _____ Protective Casing Stickup _____ Well Casing Stickup _____ Feet of Water

Well purged with: _____

FINAL WELL MEASUREMENTS

Static Water Level _____ Total Depth _____ Total Volume Purged _____ Saturated Borehole Volume (gal) _____ Max Pumping Rate _____

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON 01

Buffer 7 Measured Value 7.0 Temp. 12.4 °C

Buffer 4 Measured Value 4.0 Temp. 12.4 °C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 12 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 12 °C

Turbidity Meter: Newtry Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C ☒ °F ☐	Turbidity Visual Est. ☐ Measured ☒	Comments
11:15	n/a	8.8	0.4	1.8	2.6	
						FIELD-FILTERED FOR METALS & RADIONUCLIDES
						SAMPLES COLLECTED WITH DISPOSABLE CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
11/30	11:15	n/a	8.8	0.4	1.8	2.6		

Duplicate Sample-02 (sample control number/time n/a)

Field Blank-03 (sample control number/time n/a)

Rinsate Sample-04 (sample control number/time n/a)

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

QA/QC INFO
IN LAB REPORT

Notes:

Sampler's Signature

Brooke Moran 11/30/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Pg 1 of 1 Pgs			
*StationID: <u>2022-01</u>			*Date (mm/dd/yyyy): <u>12/21/23</u>			*Group: <u>n/a</u>			*Agency: <u>n/a</u>				
*Funding: <u>n/a</u>			ArrivalTime: <u>10:30</u>			DepartureTime: <u>10:45</u>			*SampleTime (1st sample): <u>n/a</u>				
*Personnel: <u>BM</u>			*Purpose (circle all that apply): WaterChem ☒ WaterTox ☐ FieldObs ☐ FieldMeasure ☐						*PurposeFailure: <u>n/a</u>				
*Location: Bank ☐ Thalweg ☐ Midchannel ☐ OpenWater ☐			*GPS/DGPS		Lat (dd.ddddd): <u>39.97904</u>		Long (ddd.ddddd): <u>-105.57585</u>		OCCUPATION METHOD: Walk-in ☐ Bridge ☐ RV ☐ Other ☐				
GPS Device: <u>GPS WAYPOINTS APP</u>			Target: <u>39.97904</u>		-105.57585		STARTING BANK (facing downstream): LB / RB / NA						
Datum: NAD83			Accuracy (ft/m): <u>1.20</u>		*Actual: <u>39.978993</u>		Point of Sample (if Integrated, then -88 in dbase)						
Field Observations (SampleType = FieldObs)													
SITE ODOR: ☒ None ☐ Sulfides ☐ Sewage ☐ Petroleum ☐ Mixed ☐ Other				WIND DIRECTION (from): <u>W</u>		BEAUFORT SCALE (see attachment): <u>3</u>		DISTANCE FROM BANK (m): <u>n/a</u>		STREAM WIDTH (m): <u>n/a</u>			
SKY CODE: ☒ Clear ☐ Partly Cloudy ☐ Overcast ☐ Fog				HYDROMODIFICATION: ☒ None ☐ Bridge ☐ Pipes ☐ ConcreteChannel ☐ GradeControl ☐ Culvert ☐ AerialZipline ☐ Other		LOCATION (to sample): US / DS / W /							
OTHERPRESENCE: ☐ Vascular ☐ Nonvascular ☐ OilySheen ☐ Foam ☐ Trash ☐ Other <u>n/a</u>				PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode):		1: (RB / LB / BB / US / DS / ##) <u>2022-01-DECA</u>							
DOMINANTSUBSTRATE: ☐ Bedrock ☐ Concrete ☐ Cobble ☐ Gravel ☐ Sand ☐ Mud ☐ Unk ☐ Other <u>n/a</u>				PRECIPITATION: ☒ None ☐ Fog ☐ Drizzle ☐ Rain ☐ Snow		2: (RB / LB / BB / US / DS / ##) <u>2022-01-DEC-B</u>							
WATERCLARITY: ☐ Clear (see bottom) ☐ Cloudy (>4" vis) ☐ Murky (<4" vis) <u>n/a</u>				PRECIPITATION (last 24 hrs): ☐ Unknown ☐ <1" ☐ >1" ☐ None		3: (RB / LB / BB / US / DS / ##) <u>2022-01-DEC-C</u>							
WATERODOR: ☐ None ☐ Sulfides ☐ Sewage ☐ Petroleum ☐ Mixed ☐ Other <u>n/a</u>													
WATERCOLOR: ☐ Colorless ☐ Green ☐ Yellow ☐ Brown <u>n/a</u>													
OBSERVED FLOW: ☐ NA ☐ Dry Waterbody Bed ☐ No Obs Flow ☐ Isolated Pool ☐ Trickle (<0.1cfs) ☐ 0.1-1cfs ☐ 1-5cfs ☐ 5-20cfs ☐ 20-50cfs ☐ 50-200cfs ☐ >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab													
Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)													
SAMPLE TYPE: ☐ Grab ☐ Integrated		COLLECTION EQUIPMENT: ☐ Indiv bottle (by hand, by pole, by bucket); ☐ Teflon tubing; ☐ Kemmer; ☐ Pole & Beaker; ☐ Other											
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: <u>SURFACE WATER NOT FLOWING SO NO SAMPLES COLLECTED</u>													

Run:										Sample Processing Date:									
Sample ID #:																			
Site Code:																			
N/A																			
Yellow +																			
# Small Wells																			
# Large Wells																			
Empty Wells																			
MPN																			
Yellow + Fluorescence (+)																			
# Small Wells																			
# Large Wells																			
False Positives																			
MPN																			
Temp/Time																			
Start																			
4Hr. Check																			
14 Hr. Check																			
18 Hr. Check																			
22 Hr. Check, if needed																			
FIELD DUPLICATES										LAB DUPLICATES									
Normal Sample #										Normal Sample #									
Duplicate Sample #										Duplicate Sample #									
MPN										MPN									
95% CI										95% CI									
Lower										Lower									
Upper										Upper									
TOTAL COLIFORM										TOTAL COLIFORM									
Normal Duplicate										Normal Duplicate									
Mean										Mean									
Pass										Pass									
Needs Review										Needs Review									
E. COLI										E. COLI									
Normal Duplicate										Normal Duplicate									
Mean										Mean									
Pass										Pass									
Needs Review										Needs Review									
BLANKS										BLANKS									
Field Sample #										Lab Sample #									
Pass										Pass									
Needs Review										Needs Review									
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data																			
Sampler Signature / Date / Time Arrived:										Placed in Incubator By / Date / Time:									
Processor / Date / Time:										Trays Read By:									
Pulled from Incubator By / Date / Time:										Entered into database:									
NOTES:																			

Boche Moran 12/21/23

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ						Entered in database (mm/dd/yyyy) <i>n/a</i>		Pg	of	Pgs			
*StationID: <i>2022-02</i>		*Date (mm/dd/yyyy): <i>12/21/23</i>		*Group: <i>n/a</i>		*Agency: <i>n/a</i>							
*Funding: <i>n/a</i>		ArrivalTime: <i>10:10</i>		DepartureTime: <i>10:25</i>		*SampleTime (1st sample): <i>n/a</i>		*Protocol: <i>n/a</i>					
*Personnel: <i>Bm</i>		*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure				*PurposeFailure: <i>n/a</i>							
*Location: Bank Thalweg Midchannel OpenWater		*GPS/DGPS		Lat (dd.ddddd): <i>39.975787</i>		Long (ddd.ddddd): <i>-105.569328</i>		OCCUPATION METHOD: Walk-In Bridge R/V Other					
GPS Device: <i>GPS WAYPOINTS APP</i>		Target: <i>39.975787</i>		*Actual: <i>39.975873</i>		-105.569305		STARTING BANK (facing downstream): LB / RB / NA					
Datum: NAD83		Accuracy (ft/m): <i>1.40</i>		Point of Sample (if Integrated, then -88 in dbase)									
Field Observations (SampleType = FieldObs)													
SITE ODOR: <i>None, Sulfides, Sewage, Petroleum, Mixed, Other</i>						BEAUFORT SCALE (see attachment): <i>2</i>		DISTANCE FROM BANK (m): <i>n/a</i>		STREAM WIDTH (m): <i>n/a</i>			
SKY CODE: <i>Clear, Partly Cloudy, Overcast, Fog</i>						WIND DIRECTION (from): <i>W</i>		HYDROMODIFICATION: <i>None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other</i>		LOCATION (to sample): US / DS / W / R			
OTHER PRESENCE: <i>Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other</i>						PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode):		1: (RB / LB / BB / US / DS / ##) <i>2022-02-DEC-A</i>					
DOMINANT SUBSTRATE: <i>Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other</i>						PRECIPITATION: <i>None, Fog, Drizzle, Rain, Snow</i>		2: (RB / LB / BB / US / DS / ##) <i>2022-02-DEC-B</i>					
WATER CLARITY: <i>Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)</i>						PRECIPITATION (last 24 hrs): <i>Unknown, <1", >1", None</i>		3: (RB / LB / BB / US / DS / ##) <i>2022-02-DEC-C</i>					
WATER COLOR: <i>Colorless, Green, Yellow, Brown</i>													
OBSERVED FLOW: <i>NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs</i>													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: <i>Grab / Integrated</i>		COLLECTION EQUIPMENT:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: <i>NO SURFACE WATER FLOWING, SO NO SAMPLES TAKEN.</i>													

Run:												Sample Processing Date:	
Sample ID #:													
Site Code:													
Yellow +	# Small Wells												
	# Large Wells												
	Empty Wells												
	MPN												
Yellow + Fluorescence (+)	# Small Wells												
	# Large Wells												
	False Positives												
	MPN												
Temp/Time	Start	4Hr. Check	14 Hr. Check	18 Hr. Check	22 Hr. Check, if needed								
FIELD DUPLICATES													
TOTAL COLIFORM	Normal Sample #					Normal Sample #							
	Duplicate Sample #					Duplicate Sample #							
	MPN					MPN							
	95% CI					95% CI							
E. COLI	Normal					Normal							
	Duplicate					Duplicate							
	Mean					Mean							
	Pass					Pass							
BLANKS	Normal					Normal							
	Duplicate					Duplicate							
	Mean					Mean							
	Pass					Pass							
Mean = Mean of Normal and Duplicate, which is then compared to the individual corresponding CI's to determine acceptability of data													
Sampler Signature / Date / Time Arrived:		Placed in Incubator By / Date / Time:						Trays Read By:					
Processor / Date / Time:		Pulled from Incubator By / Date / Time:						Entered into database:					
NOTES:													

Broke Morem 12/21/23

IDENTIFICATION

WEATHER CONDITIONS

Brooke Moran 12/21/23

IDENTIFICATION

Sample Control Number n/a Samplers BM

Ambient Air Temperature: 35° °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 -42 Total Depth 165 Top of Screen 65 Filter Pack Interval n/a Borehole Diameter (inches) 6" (50-165 ft)

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 185 gallons

Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 1.0 Feet of Water n/a

Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level 42 Total Depth 165 Total Volume Purged 554 Saturated Borehole Volume (gal) 277 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON 01

Conductivity Meter: Meter Number CMI-2104-0.479

Buffer 7 Measured Value 7.0 Temp. 13.6 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Buffer 4 Measured Value 4.0 Temp. 13.7°C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Turbidity Meter: Newmy Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

[illegible]

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Meas. red ☒		
12/21/23	13:30	10.4	8.0	0.3	5.2 $^{\circ}$	1.6		

Duplicate Sample-02 (sample control number/time COMPLIANCE 02) QA/QC INFO

Field Blank-03 (sample control number/time COMPLIANCE 03) IN LAB REPORT

Rinsate Sample-04 (sample control number/time n/a)

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

Notes: SAMPLED AT WELL, #6 5/8" (-1-50 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Brooke Moran 12/21/23

IDENTIFICATION

WEATHER CONDITIONS

Precipitation: None ☒ Rain ☐ Snow ☐ Heavy ☐ Moderate ☐ Light ☐ Sunny ☐ Partly Cloudy ☐

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 161 gallons

Well purged with: WELL PUMP

INSTRUMENT CALIBRATION

Turbidity Meter: Newton Standard 1 NTU Measured Value 1.2 NTU Standard 1 NTU Measured Value 1.2 NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
12/21/22	11:30	10.0	6.6	0.3	5.7	1.6		

Duplicate Sample-02	(sample control number/time <u>n/a</u>)	QA/QC INFO IN LAB REPORT
Field Blank-03	(sample control number/time <u>n/a</u>)	
Rinsate Sample-04	(sample control number/time <u>n/a</u>)	
Matrix Spike-MS	(sample control number/time <u>n/a</u>)	
	(sample control number/time <u>n/a</u>)	

Notes: SAMPLED VIA PORT. * $6\frac{5}{8}"$ (-1-26 ft) & $4\frac{1}{2}"$ (15-165 ft)

Sampler's Signature

Brooke Moran 12/21/23

IDENTIFICATION

WEATHER CONDITIONS

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 = 1.4688 gal/ft Casing Volume: gallons

Well Casing ID	Well Casing OD	Protective Casing Stickup	Well Casing Stickup	Feet of Water

Well purged with:

FINAL WELL MEASUREMENTS

Static Water Level	Total Depth	Total Volume Purged	Saturated Borehole Volume (gal)	Max Pumping Rate
--------------------	-------------	---------------------	---------------------------------	------------------

INSTRUMENT CALIBRATION

pH Meter: Meter Number 0AKTON01

Buffer 7 Measured Value 7.0 Temp. 13.8C

Buffer 4 Measured Value 4.0 Temp. 13.7°C

Conductivity Meter: Meter Number CMI-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Turbidity Meter: *Newtry* Standard *n/a* NTU Measured Value *n/a* NTU Standard *n/a* NTU Measured Value *n/a* NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measured ☒		
12/21/23	12:15	n/a	8.3	0.4	5.20	28.4		

Duplicate Sample-02 (sample control number/time CROSS PORTAL 02)

Field Blank-03 (sample control number/time n/a)

Rinsate Sample-04 (sample control number/time n/a)

Matrix Spike-MS (sample control number/time n/a)

(sample control number/time n/a)

Notes:

Sampler's Signature

Brooke Moran 12/21/23

IDENTIFICATION

Sample Location CARIBOU PORTAL Date 12/21/23 Start Time 10:30 Stop time 11:15 Page 1 of 1
Sample Control Number n/a Samplers BM

Ambient Air Temperature: _____ °C ☐ °F ☐ Not Measured ☐ **Wind:** Heavy ☐ Moderate ☐ Light ☐

INITIAL WELL MEASUREMENTS (Measurements in feet made from top of well casing)

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: _____ gallons

Well purged with:

Static Water Level___ Total Depth___ Total Volume Purged___ Saturated Borehole Volume (gal)___ Max Pumping Rate___

pH Meter: Meter Number OAKTON 01

Buffer 4 Measured Value 4.0 Temp. 13.7°C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Turbidity Meter: None Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

[illegible]

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (μ S/cm)	Temp. ($^{\circ}$ C)	Turbidity Visual Est. ☐ Measu red ☒		
12/21/23	11:15	n/a	8.5	0.3	3.2 $^{\circ}$	1.1		

Duplicate Sample-02	(sample control number/time <u>n/a</u>)	QA/QC INFO IN LAB REPORT
Field Blank-03	(sample control number/time <u>n/a</u>)	
Rinsate Sample-04	(sample control number/time <u>n/a</u>)	
Matrix Spike-MS	(sample control number/time <u>n/a</u>)	
	(sample control number/time <u>n/a</u>)	

Sampler's Signature Mahe Moran 12/21/23

APPENDIX F PHOTOGRAPHS

APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS

OCTOBER 2023







NOVEMBER 2023







DECEMBER 2023







APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS

OCTOBER 2023







NOVEMBER 2023







DECEMBER 2023





