



SECOND QUARTER 2024
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
July 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, site waters from 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.

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 for 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 24, 25 and 26 depict surfaces for the months of April, May and June 2024, 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).

On December 22, 2023, GIR requested a one-year extension for the filing of Designated Mining Operation (DMO) application. A Formal Public Hearing before the Board was scheduled for the Board meeting of January 17-18, 2024.

On January 17, 2024, the Board granted GIR's request extending the DMO application filing by 365 days.

On April 15, 2024, the Board issued to the Operator written confirmation of the Findings of Fact, Conclusion of Law, and Order and Bord Order document signed by the Board on April 11, 2024.

On January 31, 2024, GIR submitted to DRMS a request to Modify Water Sample Collection Frequency and Locations, Identified as Technical Revision 14 (TR-14), as follows:

Adjustment to Sampling Frequency

The Operator requests that the current sample collection is adjusted from Monthly Sampling to Once per Quarter Sampling.

Adjustment to Sampling Points

The Operator requests that the current 7 sample collection points (3 groundwater wells [Cross, Caribou and Compliance], 2 mine effluent points [Cross and Caribou Portals] and 2 surface water stations [one upstream and one downstream of the mine site], are adjusted to a single sample point for the site located at the Compliance Well.

On February 5, 2024, DRMS issued to GIR a partial approval of TR-14 addressing the request to change the sampling frequency at the site from monthly to quarterly. DRMS did not approve the request to reduce the number of sampling locations from seven (7) locations to one (1) location.

As a result of TR-14 partial approval, the sample collected by GIR on June 18, 2024, serves as the sample for the Second Quarter 2024 subject of this report. The results for groundwater are provided on Table 2.1.1.



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 Table 2.1.1 corresponding to the month of June 2024. 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 June 18, 2024

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Unit	Comments
Aluminum (Al)	5	ND	0.022	ND	0.57	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	ND	ND	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	ND	ND	mg/l	Dissolved
Barium (Ba)	2	0.027	0.0065	0.025	0.025	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	1.12	0.461	0.916	0.171	pCi/l	Std is in mrem
Boron (B)	0.75	0.0029	0.0015	0.0024	0.002	mg/l	Dissolved
Cadmium (Cd)	0.005	ND	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	250	2.6	ND	ND	1	mg/l	Dissolved
Chromium (Cr)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Cobalt (Co)	0.05	ND	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	0.2	0.0017	0.17	ND	ND	mg/l	Dissolved
Cyanide [Free] (Cn)	0.2	ND	ND	ND	ND	mg/l	Total
Fluoride (F)	2	ND	ND	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	15	0.851	-0.0954	0.936	0.796	pCi/l	
Iron (Fe)	0.3	0.11	0.016	ND	0.065	mg/l	Dissolved
Lead (Pb)	0.05	0.00023	ND	ND	ND	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0038	0.0024	0.0055	0.0058	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.00092	ND	0.0034	0.0037	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10.0	0.38	0.14	0.16	0.16	mg/l as N	Dissolved
Nitrite(NO2)	1.0	ND	ND	ND	ND	mg/l as N	Dissolved
Nitrate-Nitrite Total	10.0	0.40	0.093	0.13	0.13	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	7.0	6.9	7.1	7.1	pH units	
Selenium (Se)	0.02	ND	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	0.000048	ND	ND	ND	mg/l	Dissolved
Sulfate (SO4)	250	9	2.4	3.8	5	mg/l	Dissolved
TDS	400	92	32	54	56	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	0.000057	ND	0.000077	0.000086	mg/l	Dissolved
Vanadium (V)	0.1	ND	0.0017	ND	0.0013	mg/l	Dissolved
Zinc (Zn)	2	0.64	0.0065	0.07	0.065	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 - April, 2.2.2 May, and 2.2.3 June, provide date and groundwater elevations. The groundwater elevations shown on the tables were used to develop the potentiometric water surfaces depicted on Figures 24, 25, and 26 for the month of April, May and June 2024, respectively.

Table 2.2.1 Wells and Winze Groundwater Elevation – April 18, 2024

Groundwater Elevation - April		
WELL	COLLAR ELEV.	4/18/2024
	Ft. AMSL	
Caribou	9,744.25	9,706.37
Cabin (Compliance)	9,677.35	9,634.63
Cross	9,692.85	9,652.72
Winze	9,697.48	9,546.60

Table 2.2.2 Wells and Winze Groundwater Elevation – May 18, 2024

Groundwater Elevation - May		
WELL	COLLAR ELEV.	5/18/2024
	Ft. AMSL	
Caribou	9,744.25	9,703.75
Cabin (Compliance)	9,677.35	9,628.54
Cross	9,692.85	9,636.10
Winze	9,697.48	9,558.60

Table 2.2.3 Wells and Winze Groundwater Elevation – June 18, 2024

Groundwater Elevation - June		
WELL	COLLAR ELEV.	6/18/2024
	Ft. AMSL	
Caribou	9,744.25	9,702.47
Cabin (Compliance)	9,677.35	9,630.71
Cross	9,692.85	9,635.83
Winze	9,697.48	9,645.00



Figure 21 Potentiometric Water Surface – April 2024

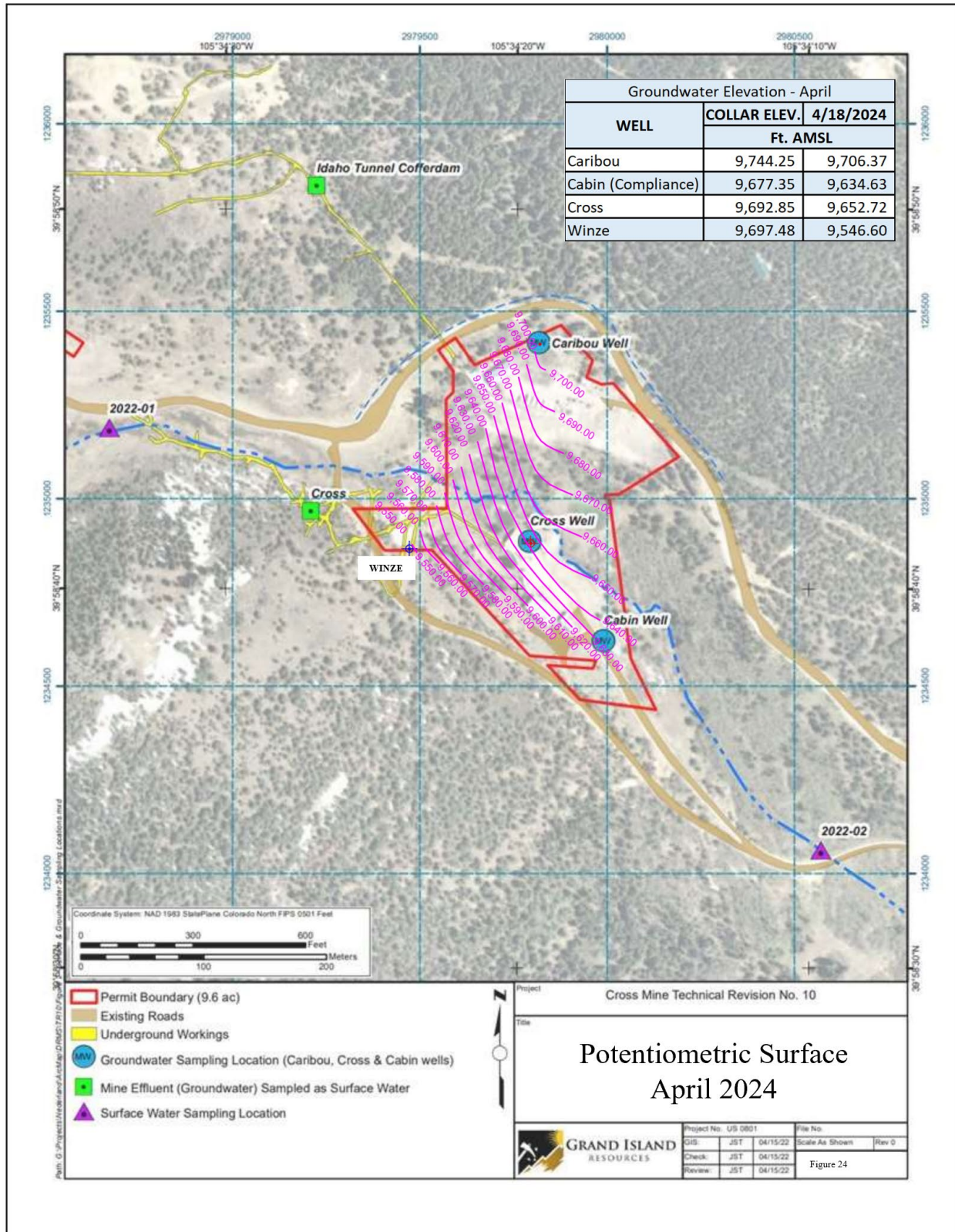




Figure 22 Potentiometric Water Surface – May 2024

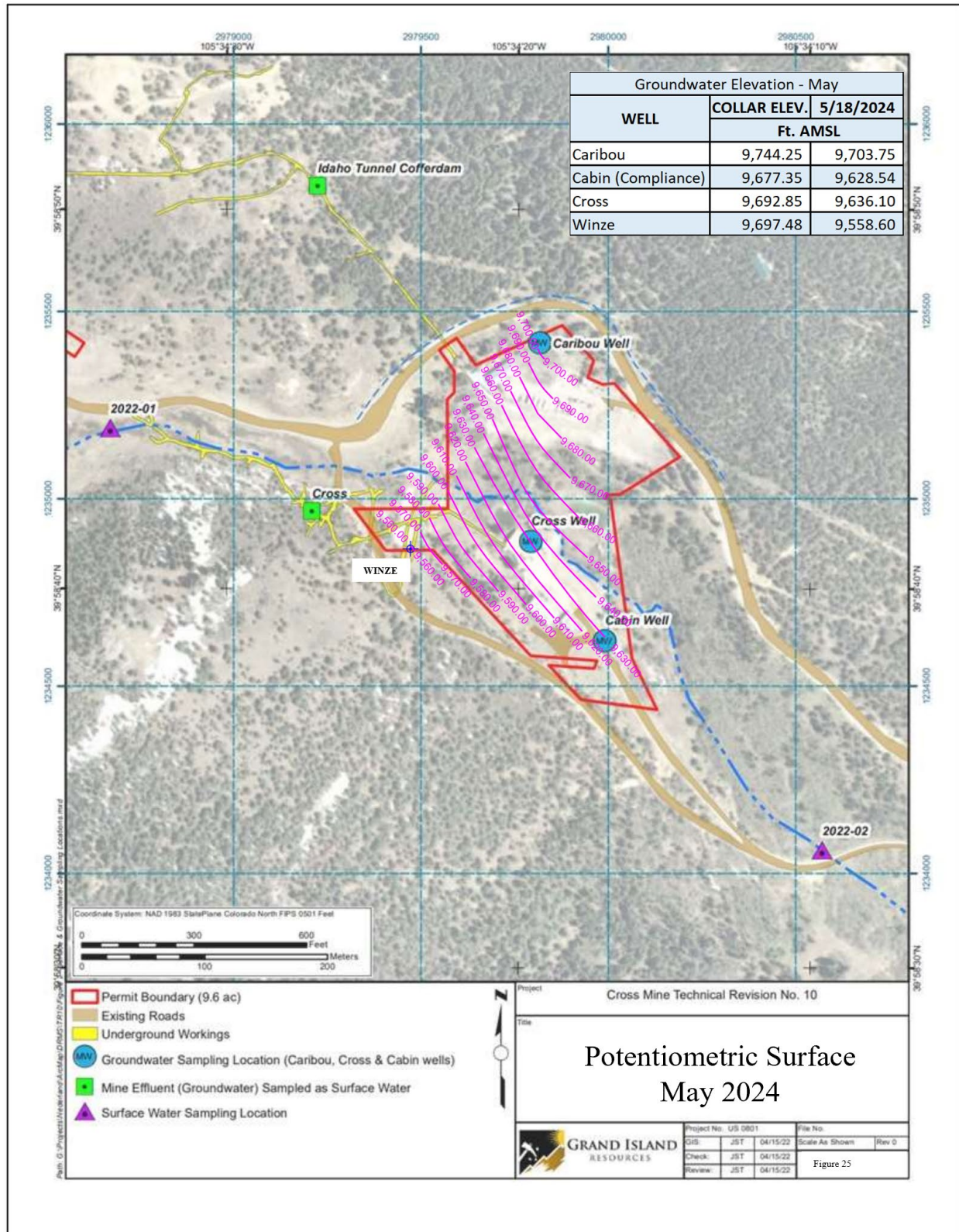
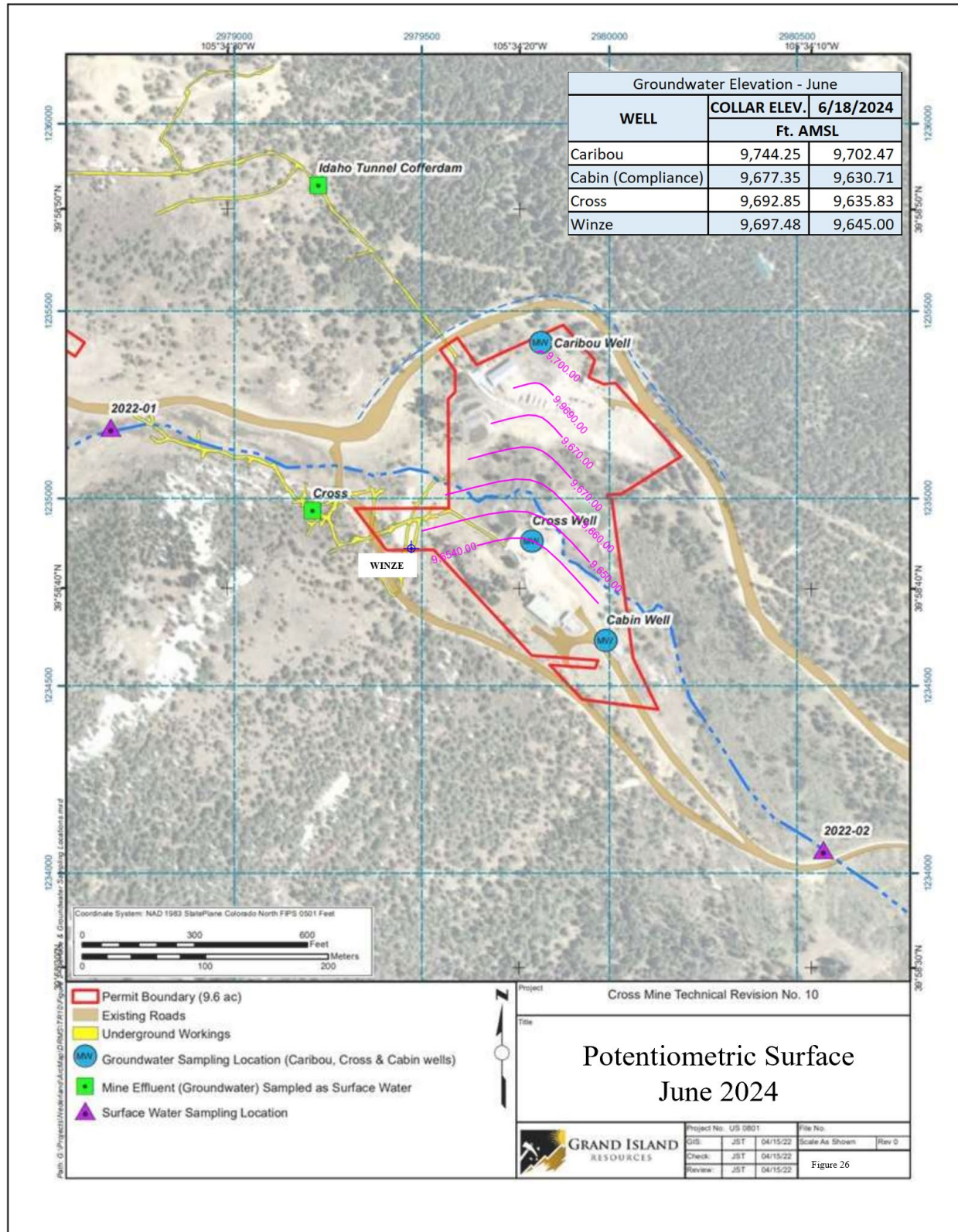




Figure 23 Potentiometric Water Surface – June 2024





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 in the Idaho Tunnel/Caribou Mine, namely Cross Portal and Caribou Portal, respectively. Water Quality Analytical Results are summarized on Table 3.1. for the month of June 2024. 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 June 18, 2024

Parameter	Standard	Cross Portal	Cross Portal Duplicate	Caribou Portal	Unit	Comments
Aluminum (Al)	5	ND	ND	ND	mg/l	Dissolved
Antimony (Sb)	0.006	ND	ND	0.0008	mg/l	Dissolved
Arsenic (As)	0.01	ND	ND	0.00063	mg/l	Dissolved
Barium (Ba)	2	0.046	0.044	0.053	mg/l	Dissolved
Beryllium (Be)	0.004	ND	ND	ND	mg/l	Dissolved
Beta and Photon Emitters	4	1.25	0.859	0.391	pCi/l	Std is in mrem
Boron (B)	0.75	0.0037	0.003	0.0029	mg/l	Dissolved
Cadmium (Cd)	0.005	0.00089	0.00092	ND	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	0.0018	0.0019	0.00084	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	4.13	0.758	0.419	pCi/l	
Iron (Fe)	0.3	0.02	0.012	0.036	mg/l	Dissolved
Lead (Pb)	0.05	0.0012	0.0012	0.0012	mg/l	Dissolved
Lithium (Li)	2.5	ND	ND	ND	mg/l	Dissolved
Manganese (Mn)	0.05	0.0067	0.007	0.012	mg/l	Dissolved
Mercury (inorganic) (Hg)	0.002	ND	ND	ND	mg/l	Dissolved
Molybdenum (Mo)	0.21	0.0038	0.0037	0.0052	mg/l	Dissolved
Nickel (Ni)	0.1	ND	ND	ND	mg/l	Dissolved
Nitrate (NO3)	10.0	0.24	0.17	0.17	mg/l as N	Dissolved
Nitrite(NO2)	1.0	ND	ND	ND	mg/l as N	Dissolved
Nitrate-Nitrite Total	10.0	0.22	0.13	0.13	mg/l as N	Dissolved
pH (field)	6.5 - 8.5	8.0	8.0	8.2	pH units	
Selenium (Se)	0.02	ND	ND	ND	mg/l	Dissolved
Silver (Ag)	0.05	0.000098	0.000073	0.00025	mg/l	Dissolved
Sulfate (SO4)	250	8.4	11	8.4	mg/l	Dissolved
TDS	400	87	120	90	mg/l	Total
Thallium (Tl)	0.002	ND	ND	ND	mg/l	Dissolved
Uranium (U)	0.0168 -0.03	0.00041	0.0004	0.0042	mg/l	Dissolved
Vanadium (V)	0.1	0.0015	0.0017	0.0016	mg/l	Dissolved
Zinc (Zn)	2	0.18	0.18	0.022	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

Surface water samples were collected on June 18, 2014, from both surface water sampling stations. Table 4.1.1 provides Analytical Results for the 2nd Quarter 2024.

4.2. Surface Water Flows

Surface water flow measurements were taken during the 2nd Quarter of 2024 for both surface water Stations at the time of the sampling event. Table 4.2.1 present the estimated corresponding flows.



Table 4.1.1 Surface Water Analytical Results – June 2024

Parameter	Sta. 2022-01	Sta. 2022-02	Sta. 2022-02 Duplicate	Sta. 2022-02 Field Blank	Unit
Arsenic Potentially Dissolved	ND	ND	ND	ND	ug/L
Arsenic Total Recoverable	ND	ND	ND	ND	ug/L
Cadmium Potentially Dissolved	0.23	ND	0.3	ND	ug/L
Cadmium Total Recoverable	0.25	ND	0.22	ND	ug/L
Chromium Potentially Dissolved	ND	ND	ND	ND	ug/L
Chromium Total Recoverable	ND	ND	ND	ND	ug/L
Chromium, hexavalent Dissolved	ND	ND	ND	ND	mg/L
Chromium, hexavalent Total	ND	ND	ND	ND	mg/L
Chromium, trivalent Potentially Dissolved	ND	ND	ND	ND	mg/L
Chromium, trivalent Total Recoverable	ND	ND	ND	ND	mg/L
Copper Potentially Dissolved	2.7	2.4	2.8	ND	ug/L
Copper Total Recoverable	3.0	2.4	3.0	ND	ug/L
Field pH	7.2	8.0	8.0	n/a	SU
Field Temperature	9.7	8.0	8.0	n/a	Degrees C
Iron Total Recoverable	440	780	470	15	ug/L
Lead Potentially Dissolved	2.1	0.32	2.0	ND	ug/L
Lead Total Recoverable	2.2	0.33	2.1	ND	ug/L
Manganese Potentially Dissolved	16	32	16	ND	ug/L
Mercury, Total/NA (Method 1631E= low level))	4.3	5.2	5.3	ND	ng/L
Mercury, Total/NA (Method 245.1)	ND	ND	ND	ND	ug/L
Nickel Potentially Dissolved	ND	ND	ND	ND	ug/L
pH adj. to 25 deg C	7.5	7.8	7.9	7.3	SU
Selenium Potentially Dissolved	ND	ND	ND	ND	ug/L
Silver Potentially Dissolved	ND	ND	ND	ND	ug/L
Specific Conductance	59	99	99	3.5	umhos/cm
Specific Conductance Total	59	99	99	3.5	umhos/cm
Sulfide Total (SM 4500 S2 D)	ND	ND	ND	0.027	mg/L
Sulfide Total (SM4500 S2 H)	ND	ND	ND	ND	mg/L
Temperature	22.4	22.4	22.5	21.0	Degrees C
Total Suspended Solids	2.8	2.8	4	ND	mg/L
Un-ionized Hydrogen Sulfide Total	ND	ND	ND	ND	mg/L
Zinc, Total Recoverable	66	2.5	65	ND	ug/L
Zinc Potentially Dissolved	77	16	78	10	ug/L



Table 4.2.1 Surface Water Flow Estimates – June 2024

Surface Water Flow Estimate - June				
Station	Velocity fps	Depth ft	Width ft	Flow gpm
2022-01	0.90	1.67	1.54	1,038
2022-02	3.80	2.33	0.63	2,487



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 1st 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 June sampling event. 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 June sampling event. 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

Field Duplicates were collected from Station 2022-02.



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 March, April and May 2024, respectively. Please note that the DMR Copy of Record for the month of March is not available at this time; however, appendix B provides Laboratory test results for the June 2024, the DMR Copies of Record for June 2024 will be included in the Third Quarter 2024 Report.

Table 6.1 DMR March 2024

DMR Copy of Record

Permit

Permit #:
Major:

CO0032751
No

Permittee:
Permittee Address:

Grand Island Resources LLC
12567 W Cedar Dr Ste 110
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 03/01/24 to 03/31/24

DMR Due Date:

04/28/24

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								=	5.2			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						=	7.5					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								<	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								=	11.0			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			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			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			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			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 6.1 DMR March 2024 (continued)

	Crj	Gross			Value NODI														
01303	Zinc, potentially dissolved	1 - Effluent Gross	3	--	Sample							=	15.5	=	18.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req.						<=	176.0 30DA AVG	<=	194.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB	
					Value NODI														
01304	Silver, potentially dissolved	1 - Effluent Gross	3	--	Sample									<	0.5	28 - ug/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req.						<=	0.11 30DA AVG	<=	3.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB	
					Value NODI							B - Below Detection Limit/No Detection							
01306	Copper, potentially dissolved	1 - Effluent Gross	3	--	Sample							<	2.0	<	2.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req.						<=	13.0 30DA AVG	<=	19.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB	
					Value NODI														
01309	Arsenic, potentially dissolved	1 - Effluent Gross	0	--	Sample									<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB	
					Permit Req.									Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB	
					Value NODI														
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	3	--	Sample									<	1.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req.						<=	0.6 30DA AVG	<=	2.4 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB	
					Value NODI							B - Below Detection Limit/No Detection							
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	20.0			28 - ug/L	01/30 - Monthly	GR - GRAB	
					Permit Req.							Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB	
					Value NODI														
01318	Lead, potentially dissolvd	1 - Effluent Gross	3	--	Sample							<	1.0	<	1.0	28 - ug/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req.						<=	3.6 30DA AVG	<=	90.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB	
					Value NODI														
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	3.0	<	3.0	28 - ug/L	01/30 - Monthly	GR - GRAB	
					Permit Req.							Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB	
					Value NODI														
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	3.0	<	3.0	28 - ug/L	01/30 - Monthly	GR - GRAB	
					Permit Req.							Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB	
					Value NODI														
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample							<	5.0	<	5.0	28 - ug/L	01/30 - Monthly	GR - GRAB	
					Permit Req.							Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB	
					Value NODI														
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										9 - Conditional Monitoring - Not Required This Period				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample									<	20.0	28 - ug/L	01/30 - Monthly	GR - GRAB	
					Permit Req.										Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	3	--	Sample							=	0.05831	=	0.070936	03 - MGD	99/99 - Continuous	RC - Recorder (auto)	
					Permit Req.						<=	0.129 30DA AVG		Req Mon DAILY MX	03 - MGD	0	99/99 - Continuous	RC - Recorder (auto)	
					Value NODI														
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample							<	1.0			19 - mg/L	01/30 - Monthly	GR - GRAB	
					Permit Req.							Req Mon 30DA AVG			19 - mg/L	0	01/30 - Monthly	GR - GRAB	
					Value NODI														

Table 6.2 DMR April 2024

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:
Major:

CO0032751
No

Permittee:
Permittee Address:

Grand Island Resources LLC
12567 W Cedar Dr Ste 110
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 04/01/24 to 04/30/24

DMR Due Date:

05/28/24

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	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
	Name					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								=	5.7		6.7	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						=	7.6				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							=	26.0				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							=	9.9		=	9.9	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															
																			02/30 - Twice Per	

Table 6.2 DMR April 2024 (continued)

01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						=	1.01	=	1.7	28 - ug/L		Month	GR - GRAB
					Permit Req.						<=	300.0 30DA AVG	<=	600.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI													
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.6	=	1.2	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						<=	150.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI													
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample						<	20.0	<	20.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.							Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI													
01303	Zinc, potentially dissolved	1 - Effluent Gross	4	--	Sample						=	16.0	=	16.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						<=	176.0 30DA AVG	<=	202.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI													
01304	Silver, potentially dissolved	1 - Effluent Gross	4	--	Sample								<	0.5	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						<=	0.11 30DA AVG	<=	3.1 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI							B - Below Detection Limit/No Detection						
01306	Copper, potentially dissolved	1 - Effluent Gross	4	--	Sample						=	0.65	=	1.3	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						<=	13.0 30DA AVG	<=	20.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI													
01309	Arsenic, potentially dissolved	1 - Effluent Gross	0	--	Sample								<	5.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI													
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	4	--	Sample								<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						<=	0.6 30DA AVG	<=	2.5 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI							B - Below Detection Limit/No Detection						
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample						<	20.0			28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.							Req Mon 30DA AVG			28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI													
01318	Lead, potentially dissolvd	1 - Effluent Gross	4	--	Sample						=	0.97	=	1.7	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						<=	3.6 30DA AVG	<=	94.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI													
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample						<	3.0	<	3.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.							Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI													
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample						<	3.0	<	3.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.							Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI													
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample						<	5.0	<	5.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.							Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI													
03582	Oil and grease	1 - Effluent Gross	0	--	Sample										19 - mg/L		77/77 - Contingent	GR - GRAB
					Permit Req.									<=	10.0 INST MAX			
					Value NODI										9 - Conditional Monitoring - Not Required This Period			
	Chromium, trivalent total	1 - Effluent			Sample								<	20.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.										Req Mon DAILY MX	28 - ug/L		01/30 - Monthly

Table 6.2 DMR April 2024 (continued)

04262	recoverable	Gross	0	--	Value NODI														0		
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	4	--	Sample									=	0.109079	=	0.2329	03 - MGD	0	99/99 - Continuous	RC - Recorder (auto)
					Permit Req.								<=	0.148 30DA AVG		Req Mon DAILY MX	03 - MGD	99/99 - Continuous		RC - Recorder (auto)	
					Value NODI																
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample									<	1.0			19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			19 - mg/L	01/30 - Monthly		GR - GRAB	
					Value NODI																
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample									<	0.2	<	0.2	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Permit Req.									<=	1.0 30DA AVG	<=	2.0 DAILY MX	28 - ug/L		01/30 - Monthly	GR - GRAB
					Value NODI																
84066	Oil and grease visual	1 - Effluent Gross	0	--	Sample			=	0.0	AB - abst=0;prst=1									0	02/30 - Twice Per Month	VI - VISUAL
					Permit Req.				Req Mon INST MAX	AB - abst=0;prst=1								02/30 - Twice Per Month		VI - VISUAL	
					Value NODI																

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

Attachments

Name	Type	Size
CO0032751_DMRcov_2024_04.pdf	pdf	201476.0
CO0032751_Lab_2024_04_J189644-1_04-04-24.pdf	pdf	1253302.0
CO0032751_Lab_2024_04_J190507-1_04-23-24.pdf	pdf	1006384.0

Report Last Saved By

Grand Island Resources LLC

User:JOHNRINKO

Name:John Rinko

E-Mail:johnrinko@yahoo.com

Date/Time:2024-05-28 16:47 (Time Zone: -06:00)

Report Last Signed By

User:JOHNRINKO

Name:John Rinko

E-Mail:johnrinko@yahoo.com

Date/Time:2024-05-28 16:47 (Time Zone: -06:00)

Table 6.3 DMR May 2024

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

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Permit

Permit #:

CO0032751

Major:

No

Permitted Feature:

001
External Outfall

Permittee:

Grand Island Resources LLC

Permittee Address:

12567 W Cedar Dr Ste 110
Lakewood, CO 80228

Discharge:

001-A
Treated Mine Water to Coon Track Creek

Facility:

CROSS AND CARIBOU MINES

Facility Location:

CROSS AND CARIBOU MINES
BOULDER COUNTY, CO 80466

Report Dates & Status

Monitoring Period:

From 05/01/24 to 05/31/24

DMR Due Date:

06/28/24

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:

Title:

Telephone:

Last Name:

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								=	6.5		7.1	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						=	7.4				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								=	33.0			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								=	11.0		11.0	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															
																			02/30 - Twice Per	

24

Table 6.3 DMR May 2024 (continued)

01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI				= 3.15 ≤ 300.0 30DA AVG	= 4.6 ≤ 600.0 DAILY MX	28 - ug/L 28 - ug/L 0	Month 02/30 - Twice Per Month	GR - GRAB
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI				= 1.8 ≤ 150.0 30DA AVG	= 1.8 ≤ 300.0 DAILY MX	28 - ug/L 28 - ug/L 0	02/30 - Twice Per Month 02/30 - Twice Per Month	GR - GRAB GR - GRAB
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI				< 20.0 Req Mon 30DA AVG	< 20.0 Req Mon DAILY MX	28 - ug/L 28 - ug/L 0	01/30 - Monthly 01/30 - Monthly	GR - GRAB GR - GRAB
01303	Zinc, potentially dissolved	1 - Effluent Gross	5	--	Sample Permit Req. Value NODI				= 17.0 ≤ 182.0 30DA AVG	= 18.0 ≤ 208.0 DAILY MX	28 - ug/L 28 - ug/L 0	02/30 - Twice Per Month 02/30 - Twice Per Month	GR - GRAB GR - GRAB
01304	Silver, potentially dissolved	1 - Effluent Gross	5	--	Sample Permit Req. Value NODI				<= 0.12 30DA AVG B - Below Detection Limit/No Detection	< 0.5 ≤ 3.2 DAILY MX	28 - ug/L 28 - ug/L 0	02/30 - Twice Per Month 02/30 - Twice Per Month	GR - GRAB GR - GRAB
01306	Copper, potentially dissolved	1 - Effluent Gross	5	--	Sample Permit Req. Value NODI				= 1.5 ≤ 13.0 30DA AVG	= 1.5 ≤ 20.0 DAILY MX	28 - ug/L 28 - ug/L 0	02/30 - Twice Per Month 02/30 - Twice Per Month	GR - GRAB GR - GRAB
01309	Arsenic, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI					< 5.0 Req Mon DAILY MX	28 - ug/L 28 - ug/L 0	01/30 - Monthly 01/30 - Monthly	GR - GRAB GR - GRAB
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	5	--	Sample Permit Req. Value NODI				<= 0.62 30DA AVG B - Below Detection Limit/No Detection	< 1.0 ≤ 2.6 DAILY MX	28 - ug/L 28 - ug/L 0	02/30 - Twice Per Month 02/30 - Twice Per Month	GR - GRAB GR - GRAB
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI				< 20.0 Req Mon 30DA AVG		28 - ug/L 28 - ug/L 0	01/30 - Monthly 01/30 - Monthly	GR - GRAB GR - GRAB
01318	Lead, potentially dissolvd	1 - Effluent Gross	5	--	Sample Permit Req. Value NODI				= 2.8 ≤ 3.8 30DA AVG	= 3.8 ≤ 97.0 DAILY MX	28 - ug/L 28 - ug/L 0	02/30 - Twice Per Month 02/30 - Twice Per Month	GR - GRAB GR - GRAB
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI				= 0.62 Req Mon 30DA AVG	= 0.62 Req Mon DAILY MX	28 - ug/L 28 - ug/L 0	01/30 - Monthly 01/30 - Monthly	GR - GRAB GR - GRAB
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI				< 3.0 Req Mon 30DA AVG	< 3.0 Req Mon DAILY MX	28 - ug/L 28 - ug/L 0	01/30 - Monthly 01/30 - Monthly	GR - GRAB GR - GRAB
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI				< 5.0 Req Mon 30DA AVG	< 5.0 Req Mon DAILY MX	28 - ug/L 28 - ug/L 0	01/30 - Monthly 01/30 - Monthly	GR - GRAB GR - GRAB
03582	Oil and grease	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI					<= 10.0 INST MAX 9 - Conditional Monitoring - Not Required This Period	19 - mg/L	77/77 - Contingent	GR - GRAB
	Chromium, trivalent total	1 - Effluent			Sample Permit Req.					< 20.0 Req Mon DAILY MX	28 - ug/L 28 - ug/L	01/30 - Monthly 01/30 - Monthly	GR - GRAB GR - GRAB

Table 6.3 DMR May 2024 (continued)

04262	recoverable	Gross	0		Value NODI													0	
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	5	--	Sample							=	0.213377	=	0.2728	03 - MGD		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.						<=	0.374 30DA AVG		Req Mon DAILY MX	03 - MGD	0	99/99 - Continuous	RC - Recorder (auto)	
					Value NODI														
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample							<	1.0			19 - mg/L		01/30 - Monthly	GR - GRAB
					Permit Req.							Req Mon 30DA AVG			19 - mg/L	0	01/30 - Monthly	GR - GRAB	
					Value NODI														
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample							<	0.2	<	0.2	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.						<=	1.0 30DA AVG	<=	2.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB	
					Value NODI														
84066	Oil and grease visual	1 - Effluent Gross	0	--	Sample			=	0.0	AB - abst=0;prst=1								02/30 - Twice Per Month	VI - VISUAL
					Permit Req.				Req Mon INST MAX	AB - abst=0;prst=1							0	02/30 - Twice Per Month	VI - VISUAL
					Value NODI														

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

Attachments

Name	Type	Size
CO0032751_DMRcov_2024_05.pdf	pdf	201183.0
CO0032751_Lab_2024_05_J191254-1_05-09-24.pdf	pdf	5817277.0
CO0032751_Lab_2024_05_J191949-1_05-23-24.pdf	pdf	1175486.0

Report Last Saved By

Grand Island Resources LLC

User:JOHNRINKO

Name:John Rinko

E-Mail:johnrinko@yahoo.com

Date/Time:2024-06-13 21:09 (Time Zone: -06:00)

Report Last Signed By

User:JOHNRINKO

Name:John Rinko

E-Mail:johnrinko@yahoo.com

Date/Time:2024-06-13 21:09 (Time Zone: -06:00)

Appendices

APPENDICES

APPENDIX A 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 7/17/2024 4:21:11 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-192965-1

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: 280-192965-1

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
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: Nederland, CO - Groundwater

Job ID: 280-192965-1

Job ID: 280-192965-1

Eurofins Denver

Job Narrative 280-192965-1

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 6/18/2024 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°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

Job ID: 280-192965-1

Job ID: 280-192965-1 (Continued)

Eurofins Denver

Receipt Exceptions

The 1L plastic bottle of unpreserved sample volume received for 2540C total dissolved solids analysis for the following sample was observed cracked and leaking after being stored in the laboratory's refrigerated storage and prior to analysis. The sample volume remaining in the container (approximately 900 mL) was transferred to a new container: CARIBOU PORTAL (280-192965-5).

The 1L plastic bottle of unpreserved sample volume received for 2540C total dissolved solids analysis for the following sample was observed cracked and leaking after being stored in the laboratory's refrigerated storage and prior to analysis. The sample volume remaining in the container (approximately 500 mL) was transferred to a new container: COMPLIANCE 02 (280-192965-3).

Method 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Metals (ICP) - Dissolved. The samples were prepared on 7/8/2024 and analyzed on 6/19/2024 and 7/10/2024.

Method 200.8 - Metals (ICP/MS) - Dissolved

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared on 7/8/2024 and analyzed on 7/9/2024.

Method 245.1 - Mercury (CVAA) - Dissolved

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Mercury (CVAA) - Dissolved. The samples were prepared and analyzed on 7/8/2024.

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

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Solids, Total Dissolved (TDS). The samples were analyzed on 6/21/2024 and 6/24/2024.

Method 300.0 - Anions, Ion Chromatography

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 6/19/2024.

Method 300.0 - Anions, Ion Chromatography

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 6/19/2024.

Method 353.2 - Nitrogen, Nitrate-Nitrite

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Nitrogen, Nitrate-Nitrite. The samples were analyzed on 7/8/2024.

Method SM 4500 CN I - Cyanide, Weak Acid Dissociable

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Cyanide, Weak Acid Dissociable. The samples were analyzed on 6/25/2024.

Method SM 4500 Cl- E - Chloride, Total

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Chloride, Total. The samples were analyzed on 6/19/2024.

Method SM 4500 SO4 E - Sulfate, Total

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Sulfate, Total. The samples were analyzed on 6/19/2024.

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Case Narrative

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

Job ID: 280-192965-1

Job ID: 280-192965-1 (Continued)

Eurofins Denver

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

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Cesium 137 & Other Gamma Emitters (GS) - Dissolved. The samples were prepared on 7/2/2024 and analyzed on 7/3/2024 and 7/5/2024.

Gamma prep batch 160- 668939

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 activity for this analyte is well below the RL and MDC.

COMPLIANCE 02 (280-192965-3) and CARIBOU PORTAL (280-192965-5)

Gamma Prep Batch 160-668939

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

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 (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6), CROSS PORTAL 02 (280-192965-7) and (280-192965-A-1-B DU)

Method 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved

Samples CROSS WELL (280-192965-1), COMPLIANCE WELL (280-192965-2), COMPLIANCE 02 (280-192965-3), CARIBOU WELL (280-192965-4), CARIBOU PORTAL (280-192965-5), CROSS PORTAL (280-192965-6) and CROSS PORTAL 02 (280-192965-7) were analyzed for Gross Alpha and Gross Beta Radioactivity - Dissolved. The samples were prepared on 6/21/2024 and analyzed on 6/27/2024.

Gross Alpha Beta Batch 667434

The matrix spike (MS) recoveries for preparation batch 160-667434 and analytical batch 160-668481 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Eurofins Denver

Detection Summary

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

Job ID: 280-192965-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-192965-1

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
Iron	0.11		0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Barium	0.027		0.0030	0.00038	mg/L	1			200.8	Dissolved
Copper	0.0017	J	0.0020	0.00071	mg/L	1			200.8	Dissolved
Lead	0.00023	J	0.0010	0.00023	mg/L	1			200.8	Dissolved
Manganese	0.0038		0.0030	0.00051	mg/L	1			200.8	Dissolved
Molybdenum	0.00092	J	0.0020	0.00037	mg/L	1			200.8	Dissolved
Silver	0.000048	J	0.0010	0.000045	mg/L	1			200.8	Dissolved
Uranium	0.000057	J	0.0010	0.000030	mg/L	1			200.8	Dissolved
Zinc	0.64		0.010	0.0020	mg/L	1			200.8	Dissolved
Nitrate as N	0.38	J	0.50	0.090	mg/L	1			300.0	Total/NA
Nitrate Nitrite as N	0.40		0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	92		10	4.7	mg/L	1			SM 2540C	Total/NA
Chloride	2.6		2.0	0.68	mg/L	1			SM 4500 Cl- E	Total/NA
Sulfate	9.0		5.0	0.71	mg/L	1			SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-192965-2

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
Barium	0.025		0.0030	0.00038	mg/L	1			200.8	Dissolved
Manganese	0.0055		0.0030	0.00051	mg/L	1			200.8	Dissolved
Molybdenum	0.0034		0.0020	0.00037	mg/L	1			200.8	Dissolved
Uranium	0.000077	J	0.0010	0.000030	mg/L	1			200.8	Dissolved
Zinc	0.070		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	0.13		0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	54		10	4.7	mg/L	1			SM 2540C	Total/NA
Sulfate	3.8	J	5.0	0.71	mg/L	1			SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-192965-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.57		0.10	0.018	mg/L	1			200.7 Rev 4.4	Dissolved
Boron	0.0020	J	0.10	0.0015	mg/L	1			200.7 Rev 4.4	Dissolved
Iron	0.065	J	0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Barium	0.025		0.0030	0.00038	mg/L	1			200.8	Dissolved
Manganese	0.0058		0.0030	0.00051	mg/L	1			200.8	Dissolved
Molybdenum	0.0037		0.0020	0.00037	mg/L	1			200.8	Dissolved
Uranium	0.000086	J	0.0010	0.000030	mg/L	1			200.8	Dissolved
Vanadium	0.0013	J B	0.0050	0.0011	mg/L	1			200.8	Dissolved
Zinc	0.065		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	0.13		0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	56		10	4.7	mg/L	1			SM 2540C	Total/NA
Chloride	1.0	J	2.0	0.68	mg/L	1			SM 4500 Cl- E	Total/NA
Sulfate	5.0		5.0	0.71	mg/L	1			SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-192965-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.022	J	0.10	0.018	mg/L	1			200.7 Rev 4.4	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: 280-192965-1

Client Sample ID: CARIBOU WELL (Continued)

Lab Sample ID: 280-192965-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0015	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.016	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.0065		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.17		0.0020	0.00071	mg/L	1		200.8	Dissolved
Manganese	0.0024	J	0.0030	0.00051	mg/L	1		200.8	Dissolved
Vanadium	0.0017	J B	0.0050	0.0011	mg/L	1		200.8	Dissolved
Zinc	0.0065	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
Nitrate Nitrite as N	0.093	J	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	32		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	2.4	J	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-192965-5

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
Iron	0.036	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00080	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Arsenic	0.00063	J	0.0050	0.00050	mg/L	1		200.8	Dissolved
Barium	0.053		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.00084	J	0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.0012		0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.012		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0052		0.0020	0.00037	mg/L	1		200.8	Dissolved
Silver	0.00025	J	0.0010	0.000045	mg/L	1		200.8	Dissolved
Uranium	0.0042		0.0010	0.000030	mg/L	1		200.8	Dissolved
Vanadium	0.0016	J B	0.0050	0.0011	mg/L	1		200.8	Dissolved
Zinc	0.022		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.24	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.22		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	87		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	8.4		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-192965-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0037	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.020	J	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.046		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.00089	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	0.0012		0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0067		0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0038		0.0020	0.00037	mg/L	1		200.8	Dissolved
Silver	0.000098	J	0.0010	0.000045	mg/L	1		200.8	Dissolved
Uranium	0.00041	J	0.0010	0.000030	mg/L	1		200.8	Dissolved
Vanadium	0.0015	J B	0.0050	0.0011	mg/L	1		200.8	Dissolved
Zinc	0.18		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.17	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.13		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	11		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: 280-192965-1

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-192965-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.0030	J	0.10	0.0015	mg/L	1			200.7 Rev 4.4	Dissolved
Iron	0.012	J	0.10	0.0091	mg/L	1			200.7 Rev 4.4	Dissolved
Barium	0.044		0.0030	0.00038	mg/L	1			200.8	Dissolved
Cadmium	0.00092	J	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	0.0012		0.0010	0.00023	mg/L	1			200.8	Dissolved
Manganese	0.0070		0.0030	0.00051	mg/L	1			200.8	Dissolved
Molybdenum	0.0037		0.0020	0.00037	mg/L	1			200.8	Dissolved
Silver	0.000073	J	0.0010	0.000045	mg/L	1			200.8	Dissolved
Uranium	0.00040	J	0.0010	0.000030	mg/L	1			200.8	Dissolved
Vanadium	0.0017	J B	0.0050	0.0011	mg/L	1			200.8	Dissolved
Zinc	0.18		0.010	0.0020	mg/L	1			200.8	Dissolved
Nitrate as N	0.17	J	0.50	0.090	mg/L	1			300.0	Total/NA
Nitrate Nitrite as N	0.13		0.10	0.044	mg/L	1			353.2	Total/NA
Total Dissolved Solids (TDS)	90		10	4.7	mg/L	1			SM 2540C	Total/NA
Sulfate	8.4		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: 280-192965-1

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: 280-192965-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-192965-1	CROSS WELL	Water	06/18/24 13:00	06/18/24 15:27
280-192965-2	COMPLIANCE WELL	Water	06/18/24 13:30	06/18/24 15:27
280-192965-3	COMPLIANCE 02	Water	06/18/24 13:30	06/18/24 15:27
280-192965-4	CARIBOU WELL	Water	06/18/24 11:30	06/18/24 15:27
280-192965-5	CARIBOU PORTAL	Water	06/18/24 11:15	06/18/24 15:27
280-192965-6	CROSS PORTAL	Water	06/18/24 12:15	06/18/24 15:27
280-192965-7	CROSS PORTAL 02	Water	06/18/24 12:15	06/18/24 15:27

Client Sample Results

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

Job ID: 280-192965-1

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

Client Sample ID: CROSS WELL

Date Collected: 06/18/24 13:00

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		07/08/24 21:32	07/10/24 15:18	1
Boron	0.0029	J	0.10	0.0015	mg/L		07/08/24 21:32	07/10/24 15:18	1
Iron	0.11		0.10	0.0091	mg/L		07/08/24 21:32	07/10/24 15:18	1
Lithium	ND		0.020	0.0091	mg/L		07/08/24 21:32	07/10/24 15:18	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 06/18/24 13:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		07/08/24 21:32	07/10/24 15:22	1
Boron	0.0024	J	0.10	0.0015	mg/L		07/08/24 21:32	07/10/24 15:22	1
Iron	ND		0.10	0.0091	mg/L		07/08/24 21:32	07/10/24 15:22	1
Lithium	ND		0.020	0.0091	mg/L		07/08/24 21:32	07/10/24 15:22	1

Client Sample ID: COMPLIANCE 02

Date Collected: 06/18/24 13:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.57		0.10	0.018	mg/L		07/08/24 21:32	07/10/24 15:26	1
Boron	0.0020	J	0.10	0.0015	mg/L		07/08/24 21:32	07/10/24 15:26	1
Iron	0.065	J	0.10	0.0091	mg/L		07/08/24 21:32	07/10/24 15:26	1
Lithium	ND		0.020	0.0091	mg/L		07/08/24 21:32	07/10/24 15:26	1

Client Sample ID: CARIBOU WELL

Date Collected: 06/18/24 11:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.022	J	0.10	0.018	mg/L		07/08/24 21:32	07/10/24 15:29	1
Boron	0.0015	J	0.10	0.0015	mg/L		07/08/24 21:32	07/10/24 15:29	1
Iron	0.016	J	0.10	0.0091	mg/L		07/08/24 21:32	07/10/24 15:29	1
Lithium	ND		0.020	0.0091	mg/L		07/08/24 21:32	07/10/24 15:29	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 06/18/24 11:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		07/08/24 21:32	07/10/24 15:33	1
Boron	0.0029	J	0.10	0.0015	mg/L		07/08/24 21:32	07/10/24 15:33	1
Iron	0.036	J	0.10	0.0091	mg/L		07/08/24 21:32	07/10/24 15:33	1
Lithium	ND		0.020	0.0091	mg/L		07/08/24 21:32	07/10/24 15:33	1

Client Sample ID: CROSS PORTAL

Date Collected: 06/18/24 12:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		07/08/24 21:32	07/10/24 15:49	1
Boron	0.0037	J	0.10	0.0015	mg/L		07/08/24 21:32	07/10/24 15:49	1
Iron	0.020	J	0.10	0.0091	mg/L		07/08/24 21:32	07/10/24 15:49	1
Lithium	ND		0.020	0.0091	mg/L		07/08/24 21:32	07/10/24 15:49	1

Eurofins Denver

Client Sample Results

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

Job ID: 280-192965-1

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

Client Sample ID: CROSS PORTAL 02

Date Collected: 06/18/24 12:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		07/08/24 21:32	07/10/24 15:53	1
Boron	0.0030	J	0.10	0.0015	mg/L		07/08/24 21:32	07/10/24 15:53	1
Iron	0.012	J	0.10	0.0091	mg/L		07/08/24 21:32	07/10/24 15:53	1
Lithium	ND		0.020	0.0091	mg/L		07/08/24 21:32	07/10/24 15:53	1

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

Client Sample ID: CROSS WELL

Date Collected: 06/18/24 13:00

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		07/08/24 21:32	07/09/24 11:57	1
Arsenic	ND		0.0050	0.00050	mg/L		07/08/24 21:32	07/09/24 11:57	1
Barium	0.027		0.0030	0.00038	mg/L		07/08/24 21:32	07/09/24 11:57	1
Beryllium	ND		0.0010	0.00030	mg/L		07/08/24 21:32	07/09/24 11:57	1
Cadmium	ND		0.0010	0.00019	mg/L		07/08/24 21:32	07/09/24 11:57	1
Chromium	ND		0.0030	0.00050	mg/L		07/08/24 21:32	07/09/24 11:57	1
Cobalt	ND		0.0010	0.00033	mg/L		07/08/24 21:32	07/09/24 11:57	1
Copper	0.0017	J	0.0020	0.00071	mg/L		07/08/24 21:32	07/09/24 11:57	1
Lead	0.00023	J	0.0010	0.00023	mg/L		07/08/24 21:32	07/09/24 11:57	1
Manganese	0.0038		0.0030	0.00051	mg/L		07/08/24 21:32	07/09/24 11:57	1
Molybdenum	0.00092	J	0.0020	0.00037	mg/L		07/08/24 21:32	07/09/24 11:57	1
Nickel	ND		0.0030	0.00083	mg/L		07/08/24 21:32	07/09/24 11:57	1
Selenium	ND		0.0050	0.0010	mg/L		07/08/24 21:32	07/09/24 11:57	1
Silver	0.000048	J	0.0010	0.000045	mg/L		07/08/24 21:32	07/09/24 11:57	1
Thallium	ND		0.0010	0.00021	mg/L		07/08/24 21:32	07/09/24 11:57	1
Uranium	0.000057	J	0.0010	0.000030	mg/L		07/08/24 21:32	07/09/24 11:57	1
Vanadium	ND		0.0050	0.0011	mg/L		07/08/24 21:32	07/09/24 11:57	1
Zinc	0.64		0.010	0.0020	mg/L		07/08/24 21:32	07/09/24 11:57	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 06/18/24 13:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		07/08/24 21:32	07/09/24 11:59	1
Arsenic	ND		0.0050	0.00050	mg/L		07/08/24 21:32	07/09/24 11:59	1
Barium	0.025		0.0030	0.00038	mg/L		07/08/24 21:32	07/09/24 11:59	1
Beryllium	ND		0.0010	0.00030	mg/L		07/08/24 21:32	07/09/24 11:59	1
Cadmium	ND		0.0010	0.00019	mg/L		07/08/24 21:32	07/09/24 11:59	1
Chromium	ND		0.0030	0.00050	mg/L		07/08/24 21:32	07/09/24 11:59	1
Cobalt	ND		0.0010	0.00033	mg/L		07/08/24 21:32	07/09/24 11:59	1
Copper	ND		0.0020	0.00071	mg/L		07/08/24 21:32	07/09/24 11:59	1
Lead	ND		0.0010	0.00023	mg/L		07/08/24 21:32	07/09/24 11:59	1
Manganese	0.0055		0.0030	0.00051	mg/L		07/08/24 21:32	07/09/24 11:59	1
Molybdenum	0.0034		0.0020	0.00037	mg/L		07/08/24 21:32	07/09/24 11:59	1
Nickel	ND		0.0030	0.00083	mg/L		07/08/24 21:32	07/09/24 11:59	1
Selenium	ND		0.0050	0.0010	mg/L		07/08/24 21:32	07/09/24 11:59	1
Silver	ND		0.0010	0.000045	mg/L		07/08/24 21:32	07/09/24 11:59	1
Thallium	ND		0.0010	0.00021	mg/L		07/08/24 21:32	07/09/24 11:59	1
Uranium	0.000077	J	0.0010	0.000030	mg/L		07/08/24 21:32	07/09/24 11:59	1

Eurofins Denver

Client Sample Results

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

Job ID: 280-192965-1

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

Client Sample ID: COMPLIANCE WELL

Date Collected: 06/18/24 13:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.0050	0.0011	mg/L		07/08/24 21:32	07/09/24 11:59	1
Zinc	0.070		0.010	0.0020	mg/L		07/08/24 21:32	07/09/24 11:59	1

Client Sample ID: COMPLIANCE 02

Date Collected: 06/18/24 13:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		07/08/24 21:32	07/09/24 12:01	1
Arsenic	ND		0.0050	0.00050	mg/L		07/08/24 21:32	07/09/24 12:01	1
Barium	0.025		0.0030	0.00038	mg/L		07/08/24 21:32	07/09/24 12:01	1
Beryllium	ND		0.0010	0.00030	mg/L		07/08/24 21:32	07/09/24 12:01	1
Cadmium	ND		0.0010	0.00019	mg/L		07/08/24 21:32	07/09/24 12:01	1
Chromium	ND		0.0030	0.00050	mg/L		07/08/24 21:32	07/09/24 12:01	1
Cobalt	ND		0.0010	0.00033	mg/L		07/08/24 21:32	07/09/24 12:01	1
Copper	ND		0.0020	0.00071	mg/L		07/08/24 21:32	07/09/24 12:01	1
Lead	ND		0.0010	0.00023	mg/L		07/08/24 21:32	07/09/24 12:01	1
Manganese	0.0058		0.0030	0.00051	mg/L		07/08/24 21:32	07/09/24 12:01	1
Molybdenum	0.0037		0.0020	0.00037	mg/L		07/08/24 21:32	07/09/24 12:01	1
Nickel	ND		0.0030	0.00083	mg/L		07/08/24 21:32	07/09/24 12:01	1
Selenium	ND		0.0050	0.0010	mg/L		07/08/24 21:32	07/09/24 12:01	1
Silver	ND		0.0010	0.000045	mg/L		07/08/24 21:32	07/09/24 12:01	1
Thallium	ND		0.0010	0.00021	mg/L		07/08/24 21:32	07/09/24 12:01	1
Uranium	0.000086	J	0.0010	0.000030	mg/L		07/08/24 21:32	07/09/24 12:01	1
Vanadium	0.0013	J B	0.0050	0.0011	mg/L		07/08/24 21:32	07/09/24 12:01	1
Zinc	0.065		0.010	0.0020	mg/L		07/08/24 21:32	07/09/24 12:01	1

Client Sample ID: CARIBOU WELL

Date Collected: 06/18/24 11:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		07/08/24 21:32	07/09/24 12:04	1
Arsenic	ND		0.0050	0.00050	mg/L		07/08/24 21:32	07/09/24 12:04	1
Barium	0.0065		0.0030	0.00038	mg/L		07/08/24 21:32	07/09/24 12:04	1
Beryllium	ND		0.0010	0.00030	mg/L		07/08/24 21:32	07/09/24 12:04	1
Cadmium	ND		0.0010	0.00019	mg/L		07/08/24 21:32	07/09/24 12:04	1
Chromium	ND		0.0030	0.00050	mg/L		07/08/24 21:32	07/09/24 12:04	1
Cobalt	ND		0.0010	0.00033	mg/L		07/08/24 21:32	07/09/24 12:04	1
Copper	0.17		0.0020	0.00071	mg/L		07/08/24 21:32	07/09/24 12:04	1
Lead	ND		0.0010	0.00023	mg/L		07/08/24 21:32	07/09/24 12:04	1
Manganese	0.0024	J	0.0030	0.00051	mg/L		07/08/24 21:32	07/09/24 12:04	1
Molybdenum	ND		0.0020	0.00037	mg/L		07/08/24 21:32	07/09/24 12:04	1
Nickel	ND		0.0030	0.00083	mg/L		07/08/24 21:32	07/09/24 12:04	1
Selenium	ND		0.0050	0.0010	mg/L		07/08/24 21:32	07/09/24 12:04	1
Silver	ND		0.0010	0.000045	mg/L		07/08/24 21:32	07/09/24 12:04	1
Thallium	ND		0.0010	0.00021	mg/L		07/08/24 21:32	07/09/24 12:04	1
Uranium	ND		0.0010	0.000030	mg/L		07/08/24 21:32	07/09/24 12:04	1
Vanadium	0.0017	J B	0.0050	0.0011	mg/L		07/08/24 21:32	07/09/24 12:04	1
Zinc	0.0065	J	0.010	0.0020	mg/L		07/08/24 21:32	07/09/24 12:04	1

Eurofins Denver

Client Sample Results

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

Job ID: 280-192965-1

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

Client Sample ID: CARIBOU PORTAL

Date Collected: 06/18/24 11:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00080	J	0.0020	0.00040	mg/L		07/08/24 21:32	07/09/24 12:11	1
Arsenic	0.00063	J	0.0050	0.00050	mg/L		07/08/24 21:32	07/09/24 12:11	1
Barium	0.053		0.0030	0.00038	mg/L		07/08/24 21:32	07/09/24 12:11	1
Beryllium	ND		0.0010	0.00030	mg/L		07/08/24 21:32	07/09/24 12:11	1
Cadmium	ND		0.0010	0.00019	mg/L		07/08/24 21:32	07/09/24 12:11	1
Chromium	ND		0.0030	0.00050	mg/L		07/08/24 21:32	07/09/24 12:11	1
Cobalt	ND		0.0010	0.00033	mg/L		07/08/24 21:32	07/09/24 12:11	1
Copper	0.00084	J	0.0020	0.00071	mg/L		07/08/24 21:32	07/09/24 12:11	1
Lead	0.0012		0.0010	0.00023	mg/L		07/08/24 21:32	07/09/24 12:11	1
Manganese	0.012		0.0030	0.00051	mg/L		07/08/24 21:32	07/09/24 12:11	1
Molybdenum	0.0052		0.0020	0.00037	mg/L		07/08/24 21:32	07/09/24 12:11	1
Nickel	ND		0.0030	0.00083	mg/L		07/08/24 21:32	07/09/24 12:11	1
Selenium	ND		0.0050	0.0010	mg/L		07/08/24 21:32	07/09/24 12:11	1
Silver	0.00025	J	0.0010	0.000045	mg/L		07/08/24 21:32	07/09/24 12:11	1
Thallium	ND		0.0010	0.00021	mg/L		07/08/24 21:32	07/09/24 12:11	1
Uranium	0.0042		0.0010	0.000030	mg/L		07/08/24 21:32	07/09/24 12:11	1
Vanadium	0.0016	J B	0.0050	0.0011	mg/L		07/08/24 21:32	07/09/24 12:11	1
Zinc	0.022		0.010	0.0020	mg/L		07/08/24 21:32	07/09/24 12:11	1

Client Sample ID: CROSS PORTAL

Date Collected: 06/18/24 12:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		07/08/24 21:32	07/09/24 12:13	1
Arsenic	ND		0.0050	0.00050	mg/L		07/08/24 21:32	07/09/24 12:13	1
Barium	0.046		0.0030	0.00038	mg/L		07/08/24 21:32	07/09/24 12:13	1
Beryllium	ND		0.0010	0.00030	mg/L		07/08/24 21:32	07/09/24 12:13	1
Cadmium	0.00089	J	0.0010	0.00019	mg/L		07/08/24 21:32	07/09/24 12:13	1
Chromium	ND		0.0030	0.00050	mg/L		07/08/24 21:32	07/09/24 12:13	1
Cobalt	ND		0.0010	0.00033	mg/L		07/08/24 21:32	07/09/24 12:13	1
Copper	0.0018	J	0.0020	0.00071	mg/L		07/08/24 21:32	07/09/24 12:13	1
Lead	0.0012		0.0010	0.00023	mg/L		07/08/24 21:32	07/09/24 12:13	1
Manganese	0.0067		0.0030	0.00051	mg/L		07/08/24 21:32	07/09/24 12:13	1
Molybdenum	0.0038		0.0020	0.00037	mg/L		07/08/24 21:32	07/09/24 12:13	1
Nickel	ND		0.0030	0.00083	mg/L		07/08/24 21:32	07/09/24 12:13	1
Selenium	ND		0.0050	0.0010	mg/L		07/08/24 21:32	07/09/24 12:13	1
Silver	0.000098	J	0.0010	0.000045	mg/L		07/08/24 21:32	07/09/24 12:13	1
Thallium	ND		0.0010	0.00021	mg/L		07/08/24 21:32	07/09/24 12:13	1
Uranium	0.00041	J	0.0010	0.000030	mg/L		07/08/24 21:32	07/09/24 12:13	1
Vanadium	0.0015	J B	0.0050	0.0011	mg/L		07/08/24 21:32	07/09/24 12:13	1
Zinc	0.18		0.010	0.0020	mg/L		07/08/24 21:32	07/09/24 12:13	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 06/18/24 12:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		07/08/24 21:32	07/09/24 12:15	1
Arsenic	ND		0.0050	0.00050	mg/L		07/08/24 21:32	07/09/24 12:15	1
Barium	0.044		0.0030	0.00038	mg/L		07/08/24 21:32	07/09/24 12:15	1
Beryllium	ND		0.0010	0.00030	mg/L		07/08/24 21:32	07/09/24 12:15	1

Eurofins Denver

Client Sample Results

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

Job ID: 280-192965-1

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

Client Sample ID: CROSS PORTAL 02

Date Collected: 06/18/24 12:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.00092	J	0.0010	0.00019	mg/L		07/08/24 21:32	07/09/24 12:15	1
Chromium	ND		0.0030	0.00050	mg/L		07/08/24 21:32	07/09/24 12:15	1
Cobalt	ND		0.0010	0.00033	mg/L		07/08/24 21:32	07/09/24 12:15	1
Copper	0.0019	J	0.0020	0.00071	mg/L		07/08/24 21:32	07/09/24 12:15	1
Lead	0.0012		0.0010	0.00023	mg/L		07/08/24 21:32	07/09/24 12:15	1
Manganese	0.0070		0.0030	0.00051	mg/L		07/08/24 21:32	07/09/24 12:15	1
Molybdenum	0.0037		0.0020	0.00037	mg/L		07/08/24 21:32	07/09/24 12:15	1
Nickel	ND		0.0030	0.00083	mg/L		07/08/24 21:32	07/09/24 12:15	1
Selenium	ND		0.0050	0.0010	mg/L		07/08/24 21:32	07/09/24 12:15	1
Silver	0.000073	J	0.0010	0.000045	mg/L		07/08/24 21:32	07/09/24 12:15	1
Thallium	ND		0.0010	0.00021	mg/L		07/08/24 21:32	07/09/24 12:15	1
Uranium	0.00040	J	0.0010	0.000030	mg/L		07/08/24 21:32	07/09/24 12:15	1
Vanadium	0.0017	J B	0.0050	0.0011	mg/L		07/08/24 21:32	07/09/24 12:15	1
Zinc	0.18		0.010	0.0020	mg/L		07/08/24 21:32	07/09/24 12:15	1

Method: EPA 245.1 - Mercury (CVAA) - Dissolved

Client Sample ID: CROSS WELL

Date Collected: 06/18/24 13:00

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		07/08/24 17:24	07/08/24 21:53	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 06/18/24 13:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		07/08/24 17:24	07/08/24 21:56	1

Client Sample ID: COMPLIANCE 02

Date Collected: 06/18/24 13:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		07/08/24 17:24	07/08/24 21:58	1

Client Sample ID: CARIBOU WELL

Date Collected: 06/18/24 11:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		07/08/24 17:24	07/08/24 22:01	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 06/18/24 11:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		07/08/24 17:24	07/08/24 22:03	1

Eurofins Denver

Client Sample Results

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

Job ID: 280-192965-1

Method: EPA 245.1 - Mercury (CVAA) - Dissolved

Client Sample ID: CROSS PORTAL

Date Collected: 06/18/24 12:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		07/08/24 17:24	07/08/24 22:06	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 06/18/24 12:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		07/08/24 17:24	07/08/24 22:08	1

General Chemistry

Client Sample ID: CROSS WELL

Date Collected: 06/18/24 13:00

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			06/19/24 06:09	1
Nitrate as N (EPA 300.0)	0.38	J	0.50	0.090	mg/L			06/19/24 06:09	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			06/19/24 06:09	1
Nitrate Nitrite as N (EPA 353.2)	0.40		0.10	0.044	mg/L			07/08/24 16:03	1
Total Dissolved Solids (TDS) (SM 2540C)	92		10	4.7	mg/L			06/21/24 10:29	1
Chloride (SM 4500 Cl- E)	2.6		2.0	0.68	mg/L			06/19/24 10:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			06/25/24 11:14	1
Sulfate (SM 4500 SO4 E)	9.0		5.0	0.71	mg/L			06/19/24 13:52	1

Client Sample ID: COMPLIANCE WELL

Date Collected: 06/18/24 13:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			06/19/24 08:09	1
Nitrate as N (EPA 300.0)	0.16	J	0.50	0.090	mg/L			06/19/24 08:09	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			06/19/24 08:09	1
Nitrate Nitrite as N (EPA 353.2)	0.13		0.10	0.044	mg/L			07/08/24 16:05	1
Total Dissolved Solids (TDS) (SM 2540C)	54		10	4.7	mg/L			06/21/24 10:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			06/19/24 10:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			06/25/24 11:17	1
Sulfate (SM 4500 SO4 E)	3.8	J	5.0	0.71	mg/L			06/19/24 13:51	1

Client Sample ID: COMPLIANCE 02

Date Collected: 06/18/24 13:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			06/19/24 09:17	1
Nitrate as N (EPA 300.0)	0.16	J	0.50	0.090	mg/L			06/19/24 09:17	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			06/19/24 09:17	1
Nitrate Nitrite as N (EPA 353.2)	0.13		0.10	0.044	mg/L			07/08/24 16:07	1
Total Dissolved Solids (TDS) (SM 2540C)	56		10	4.7	mg/L			06/21/24 10:29	1
Chloride (SM 4500 Cl- E)	1.0	J	2.0	0.68	mg/L			06/19/24 10:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			06/25/24 11:19	1
Sulfate (SM 4500 SO4 E)	5.0		5.0	0.71	mg/L			06/19/24 13:50	1

Eurofins Denver

Client Sample Results

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

Job ID: 280-192965-1

General Chemistry

Client Sample ID: CARIBOU WELL

Date Collected: 06/18/24 11:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			06/19/24 04:44	1
Nitrate as N (EPA 300.0)	0.14	J	0.50	0.090	mg/L			06/19/24 04:44	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			06/19/24 04:44	1
Nitrate Nitrite as N (EPA 353.2)	0.093	J	0.10	0.044	mg/L			07/08/24 16:09	1
Total Dissolved Solids (TDS) (SM 2540C)	32		10	4.7	mg/L			06/21/24 10:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			06/19/24 10:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			06/25/24 11:22	1
Sulfate (SM 4500 SO4 E)	2.4	J	5.0	0.71	mg/L			06/19/24 13:50	1

Client Sample ID: CARIBOU PORTAL

Date Collected: 06/18/24 11:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			06/19/24 03:36	1
Nitrate as N (EPA 300.0)	0.24	J	0.50	0.090	mg/L			06/19/24 03:36	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			06/19/24 03:36	1
Nitrate Nitrite as N (EPA 353.2)	0.22		0.10	0.044	mg/L			07/08/24 16:11	1
Total Dissolved Solids (TDS) (SM 2540C)	87		10	4.7	mg/L			06/21/24 10:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			06/19/24 10:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			06/25/24 11:25	1
Sulfate (SM 4500 SO4 E)	8.4		5.0	0.71	mg/L			06/19/24 13:49	1

Client Sample ID: CROSS PORTAL

Date Collected: 06/18/24 12:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			06/19/24 05:01	1
Nitrate as N (EPA 300.0)	0.17	J	0.50	0.090	mg/L			06/19/24 05:01	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			06/19/24 05:01	1
Nitrate Nitrite as N (EPA 353.2)	0.13		0.10	0.044	mg/L			07/08/24 16:13	1
Total Dissolved Solids (TDS) (SM 2540C)	120		10	4.7	mg/L			06/21/24 10:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			06/19/24 10:48	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			06/25/24 11:27	1
Sulfate (SM 4500 SO4 E)	11		5.0	0.71	mg/L			06/19/24 13:54	1

Client Sample ID: CROSS PORTAL 02

Date Collected: 06/18/24 12:15

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	ND		0.50	0.17	mg/L			06/19/24 05:18	1
Nitrate as N (EPA 300.0)	0.17	J	0.50	0.090	mg/L			06/19/24 05:18	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			06/19/24 05:18	1
Nitrate Nitrite as N (EPA 353.2)	0.13		0.10	0.044	mg/L			07/08/24 16:25	1
Total Dissolved Solids (TDS) (SM 2540C)	90		10	4.7	mg/L			06/24/24 09:30	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			06/19/24 10:47	1
Cyanide, Free (SM 4500 CN I)	ND		0.010	0.0050	mg/L			06/25/24 11:30	1
Sulfate (SM 4500 SO4 E)	8.4		5.0	0.71	mg/L			06/19/24 13:50	1

Eurofins Denver

Client Sample Results

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

Job ID: 280-192965-1

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

Client Sample ID: CROSS WELL
Date Collected: 06/18/24 13:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.851	U	1.09	1.10	3.00	1.82	pCi/L	06/21/24 07:50	06/27/24 15:13	1
Gross Beta	1.12		0.615	0.625	4.00	0.891	pCi/L	06/21/24 07:50	06/27/24 15:13	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 06/18/24 13:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.936	U	0.863	0.870	3.00	1.35	pCi/L	06/21/24 07:50	06/27/24 15:12	1
Gross Beta	0.916		0.577	0.584	4.00	0.854	pCi/L	06/21/24 07:50	06/27/24 15:12	1

Client Sample ID: COMPLIANCE 02
Date Collected: 06/18/24 13:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.796	U	0.946	0.951	3.00	1.56	pCi/L	06/21/24 07:50	06/27/24 15:12	1
Gross Beta	0.171	U	0.520	0.520	4.00	0.882	pCi/L	06/21/24 07:50	06/27/24 15:12	1

Client Sample ID: CARIBOU WELL
Date Collected: 06/18/24 11:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.0954	U	0.558	0.558	3.00	1.13	pCi/L	06/21/24 07:50	06/27/24 15:12	1
Gross Beta	0.461	U	0.481	0.483	4.00	0.783	pCi/L	06/21/24 07:50	06/27/24 15:12	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 06/18/24 11:15
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	4.13		1.65	1.71	3.00	1.87	pCi/L	06/21/24 07:50	06/27/24 15:12	1
Gross Beta	1.25		0.681	0.692	4.00	0.940	pCi/L	06/21/24 07:50	06/27/24 15:12	1

Client Sample ID: CROSS PORTAL
Date Collected: 06/18/24 12:15
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.758	U	0.875	0.879	3.00	1.43	pCi/L	06/21/24 07:50	06/27/24 15:12	1
Gross Beta	0.859		0.550	0.557	4.00	0.818	pCi/L	06/21/24 07:50	06/27/24 15:12	1

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Client Sample Results

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

Job ID: 280-192965-1

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

Client Sample ID: CROSS PORTAL 02
Date Collected: 06/18/24 12:15
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.419	U	0.791	0.793	3.00	1.39	pCi/L	06/21/24 07:50	06/27/24 15:12	1
Gross Beta	0.391	U	0.553	0.555	4.00	0.915	pCi/L	06/21/24 07:50	06/27/24 15:12	1

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

Client Sample ID: CROSS WELL
Date Collected: 06/18/24 13:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-3.79	U	8.86	8.86	20.0	15.3	pCi/L	07/02/24 09:23	07/05/24 12:40	1
<i>Other Detected Radionuclides</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>07/02/24 09:23</i>	<i>07/05/24 12:40</i>	<i>1</i>

Client Sample ID: COMPLIANCE WELL
Date Collected: 06/18/24 13:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	1.08	U	10.9	10.9	20.0	19.3	pCi/L	07/02/24 09:23	07/03/24 18:36	1
<i>Other Detected Radionuclides</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>61.7</i>		<i>27.6</i>	<i>28.2</i>		<i>28.8</i>	<i>pCi/L</i>	<i>07/02/24 09:23</i>	<i>07/03/24 18:36</i>	<i>1</i>
<i>Pb-214</i>	<i>53.6</i>		<i>19.5</i>	<i>20.2</i>		<i>27.3</i>	<i>pCi/L</i>	<i>07/02/24 09:23</i>	<i>07/03/24 18:36</i>	<i>1</i>

Client Sample ID: COMPLIANCE 02
Date Collected: 06/18/24 13:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	0.000	U G	5.03	5.03	20.0	22.0	pCi/L	07/02/24 09:23	07/03/24 18:38	1
<i>Other Detected Radionuclides</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>76.6</i>		<i>21.9</i>	<i>23.1</i>		<i>17.4</i>	<i>pCi/L</i>	<i>07/02/24 09:23</i>	<i>07/03/24 18:38</i>	<i>1</i>
<i>Pb-214</i>	<i>78.5</i>		<i>23.4</i>	<i>24.7</i>		<i>25.2</i>	<i>pCi/L</i>	<i>07/02/24 09:23</i>	<i>07/03/24 18:38</i>	<i>1</i>

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Client Sample Results

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

Job ID: 280-192965-1

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

Client Sample ID: CARIBOU WELL
Date Collected: 06/18/24 11:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	3.12	U	8.77	8.77	20.0	15.3	pCi/L	07/02/24 09:23	07/03/24 18:39	1
Other Detected Radionuclides			Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide			None				pCi/L	07/02/24 09:23	07/03/24 18:39	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 06/18/24 11:15
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-9.09	U G	15.9	15.9	20.0	26.6	pCi/L	07/02/24 09:23	07/03/24 22:08	1
Other Detected Radionuclides			Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide			None				pCi/L	07/02/24 09:23	07/03/24 22:08	1

Client Sample ID: CROSS PORTAL
Date Collected: 06/18/24 12:15
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	2.58	U	5.75	5.76	20.0	10.1	pCi/L	07/02/24 09:23	07/03/24 19:50	1
Other Detected Radionuclides			Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Other Detected Radionuclide			None				pCi/L	07/02/24 09:23	07/03/24 19:50	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 06/18/24 12:15
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192965-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-3.56	U	9.20	9.21	20.0	15.9	pCi/L	07/02/24 09:23	07/03/24 22:09	1
Other Detected Radionuclides			Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Bi-214			76.2	20.8		16.3	pCi/L	07/02/24 09:23	07/03/24 22:09	1
Pb-214			70.2	19.1		18.5	pCi/L	07/02/24 09:23	07/03/24 22:09	1

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QC Sample Results

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

Job ID: 280-192965-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-659570/1-A

Matrix: Water

Analysis Batch: 660048

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 659570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		07/08/24 21:32	07/10/24 14:06	1
Boron	ND		0.10	0.0015	mg/L		07/08/24 21:32	07/10/24 14:06	1
Iron	ND		0.10	0.0091	mg/L		07/08/24 21:32	07/10/24 14:06	1
Lithium	ND		0.020	0.0091	mg/L		07/08/24 21:32	07/10/24 14:06	1

Lab Sample ID: LCS 280-659570/2-A

Matrix: Water

Analysis Batch: 660048

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 659570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	10.2		mg/L		102	87 - 111
Boron	2.00	2.02		mg/L		101	86 - 110
Iron	10.0	10.3		mg/L		103	85 - 115
Lithium	1.00	1.01		mg/L		101	90 - 112

Lab Sample ID: 280-193223-A-6-B MS

Matrix: Water

Analysis Batch: 660048

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 659570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		10.0	10.3		mg/L		103	70 - 130
Boron	0.020	J	2.00	2.05		mg/L		102	70 - 130
Iron	0.50		10.0	10.6		mg/L		101	70 - 130
Lithium	ND		1.00	1.01		mg/L		101	70 - 130

Lab Sample ID: 280-193223-A-6-C MSD

Matrix: Water

Analysis Batch: 660048

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 659570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		10.0	10.2		mg/L		102	70 - 130	1	20
Boron	0.020	J	2.00	2.05		mg/L		101	70 - 130	0	20
Iron	0.50		10.0	10.6		mg/L		101	70 - 130	1	20
Lithium	ND		1.00	1.01		mg/L		101	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-659570/1-A

Matrix: Water

Analysis Batch: 659737

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 659570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		07/08/24 21:32	07/09/24 11:20	1
Arsenic	ND		0.0050	0.00050	mg/L		07/08/24 21:32	07/09/24 11:20	1
Barium	ND		0.0030	0.00038	mg/L		07/08/24 21:32	07/09/24 11:20	1
Beryllium	ND		0.0010	0.00030	mg/L		07/08/24 21:32	07/09/24 11:20	1
Cadmium	ND		0.0010	0.00019	mg/L		07/08/24 21:32	07/09/24 11:20	1
Chromium	ND		0.0030	0.00050	mg/L		07/08/24 21:32	07/09/24 11:20	1
Cobalt	ND		0.0010	0.00033	mg/L		07/08/24 21:32	07/09/24 11:20	1
Copper	ND		0.0020	0.00071	mg/L		07/08/24 21:32	07/09/24 11:20	1

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QC Sample Results

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

Job ID: 280-192965-1

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

Lab Sample ID: MB 280-659570/1-A

Matrix: Water

Analysis Batch: 659737

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 659570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0010	0.00023	mg/L		07/08/24 21:32	07/09/24 11:20	1
Manganese	ND		0.0030	0.00051	mg/L		07/08/24 21:32	07/09/24 11:20	1
Molybdenum	ND		0.0020	0.00037	mg/L		07/08/24 21:32	07/09/24 11:20	1
Nickel	ND		0.0030	0.00083	mg/L		07/08/24 21:32	07/09/24 11:20	1
Selenium	ND		0.0050	0.0010	mg/L		07/08/24 21:32	07/09/24 11:20	1
Silver	ND		0.0010	0.000045	mg/L		07/08/24 21:32	07/09/24 11:20	1
Thallium	ND		0.0010	0.00021	mg/L		07/08/24 21:32	07/09/24 11:20	1
Uranium	ND		0.0010	0.000030	mg/L		07/08/24 21:32	07/09/24 11:20	1
Vanadium	0.00151	J	0.0050	0.0011	mg/L		07/08/24 21:32	07/09/24 11:20	1
Zinc	ND		0.010	0.0020	mg/L		07/08/24 21:32	07/09/24 11:20	1

Lab Sample ID: LCS 280-659570/24-A

Matrix: Water

Analysis Batch: 659737

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 659570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0384		mg/L		96	85 - 115
Arsenic	0.0400	0.0393		mg/L		98	89 - 111
Barium	0.0400	0.0386		mg/L		96	89 - 115
Beryllium	0.0400	0.0380		mg/L		95	85 - 115
Cadmium	0.0400	0.0381		mg/L		95	89 - 111
Chromium	0.0400	0.0384		mg/L		96	86 - 115
Cobalt	0.0400	0.0378		mg/L		95	92 - 115
Copper	0.0400	0.0374		mg/L		94	90 - 115
Lead	0.0400	0.0375		mg/L		94	88 - 115
Manganese	0.0400	0.0384		mg/L		96	87 - 115
Molybdenum	0.0400	0.0381		mg/L		95	89 - 112
Nickel	0.0400	0.0376		mg/L		94	86 - 115
Selenium	0.0400	0.0384		mg/L		96	85 - 114
Silver	0.0400	0.0383		mg/L		96	90 - 114
Thallium	0.0400	0.0373		mg/L		93	86 - 115
Uranium	0.0400	0.0381		mg/L		95	85 - 115
Vanadium	0.0400	0.0399		mg/L		100	90 - 115
Zinc	0.0400	0.0412		mg/L		103	88 - 115

Lab Sample ID: 280-193223-A-6-E MS

Matrix: Water

Analysis Batch: 659737

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 659570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0400	0.0396		mg/L		99	85 - 115
Arsenic	ND		0.0400	0.0419		mg/L		105	79 - 120
Barium	0.049		0.0400	0.0895		mg/L		102	89 - 115
Beryllium	ND		0.0400	0.0384		mg/L		96	85 - 115
Cadmium	ND		0.0400	0.0392		mg/L		98	89 - 111
Chromium	ND		0.0400	0.0390		mg/L		98	86 - 115
Cobalt	0.00049	J	0.0400	0.0386		mg/L		95	92 - 115
Copper	ND		0.0400	0.0392		mg/L		98	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: 280-192965-1

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

Lab Sample ID: 280-193223-A-6-E MS
Matrix: Water
Analysis Batch: 659737

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 659570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	2.9		0.0400	2.91	4	mg/L		60	87 - 115
Molybdenum	ND		0.0400	0.0397		mg/L		99	89 - 112
Nickel	ND		0.0400	0.0386		mg/L		97	86 - 115
Selenium	ND		0.0400	0.0384		mg/L		96	85 - 114
Silver	0.000088	J	0.0400	0.0395		mg/L		99	70 - 130
Thallium	ND		0.0400	0.0378		mg/L		95	86 - 115
Uranium	0.00034	J	0.0400	0.0395		mg/L		98	85 - 115
Vanadium	ND		0.0400	0.0394		mg/L		99	90 - 115
Zinc	ND		0.0400	0.0417		mg/L		104	88 - 115

Lab Sample ID: 280-193223-A-6-F MSD
Matrix: Water
Analysis Batch: 659737

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 659570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0400	0.0384		mg/L		96	85 - 115	3	20
Arsenic	ND		0.0400	0.0414		mg/L		104	79 - 120	1	20
Barium	0.049		0.0400	0.0870		mg/L		96	89 - 115	3	20
Beryllium	ND		0.0400	0.0375		mg/L		94	85 - 115	2	20
Cadmium	ND		0.0400	0.0383		mg/L		96	89 - 111	2	20
Chromium	ND		0.0400	0.0383		mg/L		96	86 - 115	2	20
Cobalt	0.00049	J	0.0400	0.0381		mg/L		94	92 - 115	1	20
Copper	ND		0.0400	0.0382		mg/L		95	90 - 115	3	20
Lead	ND		0.0400	0.0387		mg/L		97	88 - 115	2	20
Manganese	2.9		0.0400	2.87	4	mg/L		-27	87 - 115	1	20
Molybdenum	ND		0.0400	0.0391		mg/L		98	89 - 112	1	20
Nickel	ND		0.0400	0.0382		mg/L		95	86 - 115	1	20
Selenium	ND		0.0400	0.0365		mg/L		91	85 - 114	5	20
Silver	0.000088	J	0.0400	0.0383		mg/L		95	70 - 130	3	20
Thallium	ND		0.0400	0.0379		mg/L		95	86 - 115	0	20
Uranium	0.00034	J	0.0400	0.0398		mg/L		99	85 - 115	1	20
Vanadium	ND		0.0400	0.0387		mg/L		97	90 - 115	2	20
Zinc	ND		0.0400	0.0410		mg/L		103	88 - 115	2	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-659613/1-A
Matrix: Water
Analysis Batch: 659777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 659613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000061	mg/L		07/08/24 17:24	07/08/24 21:20	1

Lab Sample ID: LCS 280-659613/2-A
Matrix: Water
Analysis Batch: 659777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 659613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00507		mg/L		101	90 - 110

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QC Sample Results

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

Job ID: 280-192965-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 280-192737-P-22-E MS
Matrix: Water
Analysis Batch: 659777

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 659613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00500	0.00457		mg/L		91	80 - 120

Lab Sample ID: 280-192737-P-22-F MSD
Matrix: Water
Analysis Batch: 659777

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 659613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.00458		mg/L		92	80 - 120	0	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-657360/39
Matrix: Water
Analysis Batch: 657360

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			06/18/24 22:13	1
Nitrite as N	ND		0.50	0.049	mg/L			06/18/24 22:13	1

Lab Sample ID: MB 280-657360/73
Matrix: Water
Analysis Batch: 657360

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			06/19/24 07:52	1
Nitrite as N	ND		0.50	0.049	mg/L			06/19/24 07:52	1

Lab Sample ID: LCS 280-657360/37
Matrix: Water
Analysis Batch: 657360

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	4.92		mg/L		98	90 - 110
Nitrite as N	5.00	5.10		mg/L		102	90 - 110

Lab Sample ID: LCS 280-657360/71
Matrix: Water
Analysis Batch: 657360

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	4.87		mg/L		97	90 - 110
Nitrite as N	5.00	5.16		mg/L		103	90 - 110

Lab Sample ID: LCSD 280-657360/38
Matrix: Water
Analysis Batch: 657360

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	4.92		mg/L		98	90 - 110	0	10
Nitrite as N	5.00	5.13		mg/L		103	90 - 110	1	10

Eurofins Denver

QC Sample Results

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

Job ID: 280-192965-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-657360/72

Matrix: Water

Analysis Batch: 657360

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	4.88		mg/L		98	90 - 110	0	10
Nitrite as N	5.00	5.00		mg/L		100	90 - 110	3	10

Lab Sample ID: MRL 280-657360/3

Matrix: Water

Analysis Batch: 657360

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
Nitrate as N	0.500	0.474	J	mg/L		95	50 - 150		
Nitrite as N	0.500	0.484	J	mg/L		97	50 - 150		

Lab Sample ID: 280-192965-2 MS

Matrix: Water

Analysis Batch: 657360

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	RPD	RPD Limit
Nitrate as N	0.16	J	5.00	5.02		mg/L		97	80 - 120		
Nitrite as N	ND		5.00	5.35		mg/L		107	80 - 120		

Lab Sample ID: 280-192965-2 MSD

Matrix: Water

Analysis Batch: 657360

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
Nitrate as N	0.16	J	5.00	5.05		mg/L		98	80 - 120	1	20
Nitrite as N	ND		5.00	5.40		mg/L		108	80 - 120	1	20

Lab Sample ID: 280-192965-5 MS

Matrix: Water

Analysis Batch: 657360

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
Nitrate as N	0.24	J	5.00	5.14		mg/L		98	80 - 120		
Nitrite as N	ND		5.00	5.33		mg/L		107	80 - 120		

Lab Sample ID: 280-192965-5 MSD

Matrix: Water

Analysis Batch: 657360

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	0.24	J	5.00	5.05		mg/L		96	80 - 120	2	20
Nitrite as N	ND		5.00	5.30		mg/L		106	80 - 120	1	20

Lab Sample ID: 280-192965-2 DU

Matrix: Water

Analysis Batch: 657360

Client Sample ID: COMPLIANCE WELL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.16	J	0.162	J	mg/L				0.2	15
Nitrite as N	ND		ND		mg/L				NC	15

Eurofins Denver

QC Sample Results

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

Job ID: 280-192965-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-192965-5 DU

Matrix: Water

Analysis Batch: 657360

Client Sample ID: CARIBOU PORTAL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	0.24	J	0.234	J	mg/L		0.8	15
Nitrite as N	ND		ND		mg/L		NC	15

Lab Sample ID: MB 280-657361/39

Matrix: Water

Analysis Batch: 657361

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			06/18/24 22:13	1

Lab Sample ID: MB 280-657361/73

Matrix: Water

Analysis Batch: 657361

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			06/19/24 07:52	1

Lab Sample ID: LCS 280-657361/37

Matrix: Water

Analysis Batch: 657361

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	4.76		mg/L		95	90 - 110

Lab Sample ID: LCS 280-657361/71

Matrix: Water

Analysis Batch: 657361

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	4.77		mg/L		95	90 - 110

Lab Sample ID: LCSD 280-657361/38

Matrix: Water

Analysis Batch: 657361

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
Fluoride	5.00	4.76		mg/L		95	90 - 110	0	10

Lab Sample ID: LCSD 280-657361/72

Matrix: Water

Analysis Batch: 657361

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
Fluoride	5.00	4.76		mg/L		95	90 - 110	0	10

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QC Sample Results

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

Job ID: 280-192965-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-657361/3

Matrix: Water

Analysis Batch: 657361

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	0.463	J	mg/L		93	50 - 150

Lab Sample ID: 280-192965-2 MS

Matrix: Water

Analysis Batch: 657361

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	5.10		mg/L		102	80 - 120

Lab Sample ID: 280-192965-2 MSD

Matrix: Water

Analysis Batch: 657361

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	5.16		mg/L		103	80 - 120	1	20

Lab Sample ID: 280-192965-5 MS

Matrix: Water

Analysis Batch: 657361

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
Fluoride	ND		5.00	5.13		mg/L		103	80 - 120

Lab Sample ID: 280-192965-5 MSD

Matrix: Water

Analysis Batch: 657361

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		5.00	5.04		mg/L		101	80 - 120	2	20

Lab Sample ID: 280-192965-2 DU

Matrix: Water

Analysis Batch: 657361

Client Sample ID: COMPLIANCE WELL

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

Lab Sample ID: 280-192965-5 DU

Matrix: Water

Analysis Batch: 657361

Client Sample ID: CARIBOU PORTAL

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

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QC Sample Results

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

Job ID: 280-192965-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-659627/57

Matrix: Water

Analysis Batch: 659627

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			07/08/24 15:49	1

Lab Sample ID: LCS 280-659627/55

Matrix: Water

Analysis Batch: 659627

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	1.00	0.982		mg/L		98	90 - 110

Lab Sample ID: LCSD 280-659627/56

Matrix: Water

Analysis Batch: 659627

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 Nitrite as N	1.00	0.977		mg/L		98	90 - 110	1	10

Lab Sample ID: 280-192965-7 MS

Matrix: Water

Analysis Batch: 659627

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
Nitrate Nitrite as N	0.13		2.00	2.08		mg/L		97	90 - 110

Lab Sample ID: 280-192965-7 MSD

Matrix: Water

Analysis Batch: 659627

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
Nitrate Nitrite as N	0.13		2.00	2.08		mg/L		98	90 - 110	0	10

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

Lab Sample ID: MB 280-657889/1

Matrix: Water

Analysis Batch: 657889

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			06/21/24 10:29	1

Lab Sample ID: LCS 280-657889/2

Matrix: Water

Analysis Batch: 657889

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	501		mg/L		100	88 - 114

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QC Sample Results

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

Job ID: 280-192965-1

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

Lab Sample ID: LCSD 280-657889/3

Matrix: Water

Analysis Batch: 657889

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)	502	498		mg/L		99	88 - 114	1	20

Lab Sample ID: 280-192981-A-10 DU

Matrix: Water

Analysis Batch: 657889

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)	250		257		mg/L		2	10

Lab Sample ID: MB 280-658085/1

Matrix: Water

Analysis Batch: 658085

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			06/24/24 09:30	1

Lab Sample ID: LCS 280-658085/2

Matrix: Water

Analysis Batch: 658085

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	503		mg/L		100	88 - 114

Lab Sample ID: 280-192965-7 DU

Matrix: Water

Analysis Batch: 658085

Client Sample ID: CROSS PORTAL 02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	90		85.0		mg/L		6	10

Method: SM 4500 CI- E - Chloride, Total

Lab Sample ID: MB 280-657575/46

Matrix: Water

Analysis Batch: 657575

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			06/19/24 10:42	1

Lab Sample ID: LCS 280-657575/44

Matrix: Water

Analysis Batch: 657575

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	20.7		mg/L		103	90 - 110

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QC Sample Results

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

Job ID: 280-192965-1

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

Lab Sample ID: LCSD 280-657575/45
Matrix: Water
Analysis Batch: 657575

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	20.6		mg/L		103	90 - 110	0	10

Lab Sample ID: 280-192500-C-17 MS
Matrix: Water
Analysis Batch: 657575

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
Chloride	ND		20.0	20.6		mg/L		103	90 - 110		

Lab Sample ID: 280-192500-C-17 MSD
Matrix: Water
Analysis Batch: 657575

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	20.9		mg/L		104	90 - 110	1	10

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

Lab Sample ID: MB 280-658330/18
Matrix: Water
Analysis Batch: 658330

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			06/25/24 10:53	1

Lab Sample ID: LCS 280-658330/19
Matrix: Water
Analysis Batch: 658330

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	0.0963		mg/L		96	90 - 110		

Lab Sample ID: 280-192718-H-1 MS
Matrix: Water
Analysis Batch: 658330

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
Cyanide, Free	ND		0.0999	0.119		mg/L		119	75 - 120		

Lab Sample ID: 280-192718-H-1 MSD
Matrix: Water
Analysis Batch: 658330

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	0.114		mg/L		115	75 - 120	4	20

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QC Sample Results

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

Job ID: 280-192965-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 280-657604/45
Matrix: Water
Analysis Batch: 657604

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			06/19/24 13:39	1

Lab Sample ID: LCS 280-657604/43
Matrix: Water
Analysis Batch: 657604

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	26.6		mg/L		107	90 - 110

Lab Sample ID: LCSD 280-657604/44
Matrix: Water
Analysis Batch: 657604

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: 280-192836-A-4 MS
Matrix: Water
Analysis Batch: 657604

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	51		250	316		mg/L		106	90 - 110

Lab Sample ID: 280-192836-A-4 MSD
Matrix: Water
Analysis Batch: 657604

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	51		250	317		mg/L		106	90 - 110	0	10

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-667434/1-A
Matrix: Water
Analysis Batch: 668352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 667434

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.5009	U	0.733	0.735	3.00	1.24	pCi/L	06/21/24 07:50	06/27/24 07:53	1
Gross Beta	0.5856	U	0.519	0.522	4.00	0.817	pCi/L	06/21/24 07:50	06/27/24 07:53	1

Lab Sample ID: LCS 160-667434/2-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667434

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	49.5	42.37		6.41	3.00	1.38	pCi/L	86	75 - 125

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QC Sample Results

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

Job ID: 280-192965-1

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

Lab Sample ID: LCSB 160-667434/3-A
Matrix: Water
Analysis Batch: 668352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667434

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	71.3	67.71		7.30	4.00	0.987	pCi/L	95	75 - 125

Lab Sample ID: 380-100527-A-1-B MS
Matrix: Water
Analysis Batch: 668481

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 667434

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	5.18	G	99.1	56.49	F1	8.05	3.00	2.01	pCi/L	52	60 - 140

Lab Sample ID: 380-100527-A-1-C MSBT
Matrix: Water
Analysis Batch: 668481

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 667434

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	2.60		143	145.8		15.0	4.00	0.815	pCi/L	100	60 - 140

Lab Sample ID: 380-100527-A-1-D DU
Matrix: Water
Analysis Batch: 668481

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 667434

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Gross Alpha	5.18	G	4.510		2.18	3.00	1.86	pCi/L	0.15	1
Gross Beta	2.60		3.134		0.846	4.00	0.597	pCi/L	0.32	1

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

Lab Sample ID: MB 160-668939/1-A
Matrix: Water
Analysis Batch: 669224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 668939

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	4.466	U	8.84	8.85	20.0	15.1	pCi/L	07/02/24 09:23	07/03/24 17:35	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	07/02/24 09:23	07/03/24 17:35	1

Lab Sample ID: LCS 160-668939/2-A
Matrix: Water
Analysis Batch: 669222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 668939

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	135000	148100		15200		462	pCi/L	110	75 - 125

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QC Sample Results

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

Job ID: 280-192965-1

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

Lab Sample ID: LCS 160-668939/2-A
Matrix: Water
Analysis Batch: 669222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 668939

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Cesium-137	39700	45110		4410	20.0	127	pCi/L	114	75 - 125
Cobalt-60	15100	16960		1660		77.0	pCi/L	113	75 - 125

Lab Sample ID: 280-192965-1 DU
Matrix: Water
Analysis Batch: 669219

Client Sample ID: CROSS WELL
Prep Type: Dissolved
Prep Batch: 668939

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Cesium-137	-3.79	U	5.401	U	10.6	20.0	17.9	pCi/L	0.47	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		

QC Association Summary

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

Job ID: 280-192965-1

Metals

Prep Batch: 659570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Dissolved	Water	200.8	
280-192965-2	COMPLIANCE WELL	Dissolved	Water	200.8	
280-192965-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-192965-4	CARIBOU WELL	Dissolved	Water	200.8	
280-192965-5	CARIBOU PORTAL	Dissolved	Water	200.8	
280-192965-6	CROSS PORTAL	Dissolved	Water	200.8	
280-192965-7	CROSS PORTAL 02	Dissolved	Water	200.8	
MB 280-659570/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-659570/24-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-659570/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-193223-A-6-B MS	Matrix Spike	Dissolved	Water	200.8	
280-193223-A-6-C MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	
280-193223-A-6-E MS	Matrix Spike	Dissolved	Water	200.8	
280-193223-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	

Prep Batch: 659613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Dissolved	Water	245.1	
280-192965-2	COMPLIANCE WELL	Dissolved	Water	245.1	
280-192965-3	COMPLIANCE 02	Dissolved	Water	245.1	
280-192965-4	CARIBOU WELL	Dissolved	Water	245.1	
280-192965-5	CARIBOU PORTAL	Dissolved	Water	245.1	
280-192965-6	CROSS PORTAL	Dissolved	Water	245.1	
280-192965-7	CROSS PORTAL 02	Dissolved	Water	245.1	
MB 280-659613/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-659613/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-192737-P-22-E MS	Matrix Spike	Dissolved	Water	245.1	
280-192737-P-22-F MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	

Analysis Batch: 659737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Dissolved	Water	200.8	659570
280-192965-2	COMPLIANCE WELL	Dissolved	Water	200.8	659570
280-192965-3	COMPLIANCE 02	Dissolved	Water	200.8	659570
280-192965-4	CARIBOU WELL	Dissolved	Water	200.8	659570
280-192965-5	CARIBOU PORTAL	Dissolved	Water	200.8	659570
280-192965-6	CROSS PORTAL	Dissolved	Water	200.8	659570
280-192965-7	CROSS PORTAL 02	Dissolved	Water	200.8	659570
MB 280-659570/1-A	Method Blank	Total Recoverable	Water	200.8	659570
LCS 280-659570/24-A	Lab Control Sample	Total Recoverable	Water	200.8	659570
280-193223-A-6-E MS	Matrix Spike	Dissolved	Water	200.8	659570
280-193223-A-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	659570

Analysis Batch: 659777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Dissolved	Water	245.1	659613
280-192965-2	COMPLIANCE WELL	Dissolved	Water	245.1	659613
280-192965-3	COMPLIANCE 02	Dissolved	Water	245.1	659613
280-192965-4	CARIBOU WELL	Dissolved	Water	245.1	659613
280-192965-5	CARIBOU PORTAL	Dissolved	Water	245.1	659613
280-192965-6	CROSS PORTAL	Dissolved	Water	245.1	659613

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QC Association Summary

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

Job ID: 280-192965-1

Metals (Continued)

Analysis Batch: 659777 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-7	CROSS PORTAL 02	Dissolved	Water	245.1	659613
MB 280-659613/1-A	Method Blank	Total/NA	Water	245.1	659613
LCS 280-659613/2-A	Lab Control Sample	Total/NA	Water	245.1	659613
280-192737-P-22-E MS	Matrix Spike	Dissolved	Water	245.1	659613
280-192737-P-22-F MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	659613

Analysis Batch: 660048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	659570
280-192965-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	659570
280-192965-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	659570
280-192965-4	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	659570
280-192965-5	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	659570
280-192965-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	659570
280-192965-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	659570
MB 280-659570/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	659570
LCS 280-659570/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	659570
280-193223-A-6-B MS	Matrix Spike	Dissolved	Water	200.7 Rev 4.4	659570
280-193223-A-6-C MSD	Matrix Spike Duplicate	Dissolved	Water	200.7 Rev 4.4	659570

General Chemistry

Analysis Batch: 657360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Total/NA	Water	300.0	
280-192965-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-192965-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-192965-4	CARIBOU WELL	Total/NA	Water	300.0	
280-192965-5	CARIBOU PORTAL	Total/NA	Water	300.0	
280-192965-6	CROSS PORTAL	Total/NA	Water	300.0	
280-192965-7	CROSS PORTAL 02	Total/NA	Water	300.0	
MB 280-657360/39	Method Blank	Total/NA	Water	300.0	
MB 280-657360/73	Method Blank	Total/NA	Water	300.0	
LCS 280-657360/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-657360/71	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-657360/38	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-657360/72	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-657360/3	Lab Control Sample	Total/NA	Water	300.0	
280-192965-2 MS	COMPLIANCE WELL	Total/NA	Water	300.0	
280-192965-2 MSD	COMPLIANCE WELL	Total/NA	Water	300.0	
280-192965-5 MS	CARIBOU PORTAL	Total/NA	Water	300.0	
280-192965-5 MSD	CARIBOU PORTAL	Total/NA	Water	300.0	
280-192965-2 DU	COMPLIANCE WELL	Total/NA	Water	300.0	
280-192965-5 DU	CARIBOU PORTAL	Total/NA	Water	300.0	

Analysis Batch: 657361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Total/NA	Water	300.0	
280-192965-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-192965-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-192965-4	CARIBOU WELL	Total/NA	Water	300.0	

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QC Association Summary

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

Job ID: 280-192965-1

General Chemistry (Continued)

Analysis Batch: 657361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-5	CARIBOU PORTAL	Total/NA	Water	300.0	
280-192965-6	CROSS PORTAL	Total/NA	Water	300.0	
280-192965-7	CROSS PORTAL 02	Total/NA	Water	300.0	
MB 280-657361/39	Method Blank	Total/NA	Water	300.0	
MB 280-657361/73	Method Blank	Total/NA	Water	300.0	
LCS 280-657361/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-657361/71	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-657361/38	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-657361/72	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-657361/3	Lab Control Sample	Total/NA	Water	300.0	
280-192965-2 MS	COMPLIANCE WELL	Total/NA	Water	300.0	
280-192965-2 MSD	COMPLIANCE WELL	Total/NA	Water	300.0	
280-192965-5 MS	CARIBOU PORTAL	Total/NA	Water	300.0	
280-192965-5 MSD	CARIBOU PORTAL	Total/NA	Water	300.0	
280-192965-2 DU	COMPLIANCE WELL	Total/NA	Water	300.0	
280-192965-5 DU	CARIBOU PORTAL	Total/NA	Water	300.0	

Analysis Batch: 657575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Total/NA	Water	SM 4500 Cl- E	
280-192965-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 Cl- E	
280-192965-3	COMPLIANCE 02	Total/NA	Water	SM 4500 Cl- E	
280-192965-4	CARIBOU WELL	Total/NA	Water	SM 4500 Cl- E	
280-192965-5	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-192965-6	CROSS PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-192965-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 Cl- E	
MB 280-657575/46	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-657575/44	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-657575/45	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-192500-C-17 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
280-192500-C-17 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 657604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
280-192965-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 SO4 E	
280-192965-3	COMPLIANCE 02	Total/NA	Water	SM 4500 SO4 E	
280-192965-4	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-192965-5	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-192965-6	CROSS PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-192965-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 SO4 E	
MB 280-657604/45	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 280-657604/43	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-657604/44	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
280-192836-A-4 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
280-192836-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 657889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Total/NA	Water	SM 2540C	
280-192965-2	COMPLIANCE WELL	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 280-192965-1

General Chemistry (Continued)

Analysis Batch: 657889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-3	COMPLIANCE 02	Total/NA	Water	SM 2540C	
280-192965-4	CARIBOU WELL	Total/NA	Water	SM 2540C	
280-192965-5	CARIBOU PORTAL	Total/NA	Water	SM 2540C	
280-192965-6	CROSS PORTAL	Total/NA	Water	SM 2540C	
MB 280-657889/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-657889/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-657889/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-192981-A-10 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 658085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-7	CROSS PORTAL 02	Total/NA	Water	SM 2540C	
MB 280-658085/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-658085/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-192965-7 DU	CROSS PORTAL 02	Total/NA	Water	SM 2540C	

Analysis Batch: 658330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Total/NA	Water	SM 4500 CN I	
280-192965-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 CN I	
280-192965-3	COMPLIANCE 02	Total/NA	Water	SM 4500 CN I	
280-192965-4	CARIBOU WELL	Total/NA	Water	SM 4500 CN I	
280-192965-5	CARIBOU PORTAL	Total/NA	Water	SM 4500 CN I	
280-192965-6	CROSS PORTAL	Total/NA	Water	SM 4500 CN I	
280-192965-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 CN I	
MB 280-658330/18	Method Blank	Total/NA	Water	SM 4500 CN I	
LCS 280-658330/19	Lab Control Sample	Total/NA	Water	SM 4500 CN I	
280-192718-H-1 MS	Matrix Spike	Total/NA	Water	SM 4500 CN I	
280-192718-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CN I	

Analysis Batch: 659627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Total/NA	Water	353.2	
280-192965-2	COMPLIANCE WELL	Total/NA	Water	353.2	
280-192965-3	COMPLIANCE 02	Total/NA	Water	353.2	
280-192965-4	CARIBOU WELL	Total/NA	Water	353.2	
280-192965-5	CARIBOU PORTAL	Total/NA	Water	353.2	
280-192965-6	CROSS PORTAL	Total/NA	Water	353.2	
280-192965-7	CROSS PORTAL 02	Total/NA	Water	353.2	
MB 280-659627/57	Method Blank	Total/NA	Water	353.2	
LCS 280-659627/55	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-659627/56	Lab Control Sample Dup	Total/NA	Water	353.2	
280-192965-7 MS	CROSS PORTAL 02	Total/NA	Water	353.2	
280-192965-7 MSD	CROSS PORTAL 02	Total/NA	Water	353.2	

Rad

Prep Batch: 667434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Dissolved	Water	Evaporation	
280-192965-2	COMPLIANCE WELL	Dissolved	Water	Evaporation	

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QC Association Summary

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

Job ID: 280-192965-1

Rad (Continued)

Prep Batch: 667434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-3	COMPLIANCE 02	Dissolved	Water	Evaporation	
280-192965-4	CARIBOU WELL	Dissolved	Water	Evaporation	
280-192965-5	CARIBOU PORTAL	Dissolved	Water	Evaporation	
280-192965-6	CROSS PORTAL	Dissolved	Water	Evaporation	
280-192965-7	CROSS PORTAL 02	Dissolved	Water	Evaporation	
MB 160-667434/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-667434/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-667434/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
380-100527-A-1-B MS	Matrix Spike	Total/NA	Water	Evaporation	
380-100527-A-1-C MSBT	Matrix Spike	Total/NA	Water	Evaporation	
380-100527-A-1-D DU	Duplicate	Total/NA	Water	Evaporation	

Prep Batch: 668939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192965-1	CROSS WELL	Dissolved	Water	Fill_Geo-0	
280-192965-2	COMPLIANCE WELL	Dissolved	Water	Fill_Geo-0	
280-192965-3	COMPLIANCE 02	Dissolved	Water	Fill_Geo-0	
280-192965-4	CARIBOU WELL	Dissolved	Water	Fill_Geo-0	
280-192965-5	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	
280-192965-6	CROSS PORTAL	Dissolved	Water	Fill_Geo-0	
280-192965-7	CROSS PORTAL 02	Dissolved	Water	Fill_Geo-0	
MB 160-668939/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-668939/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
280-192965-1 DU	CROSS WELL	Dissolved	Water	Fill_Geo-0	

Lab Chronicle

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

Job ID: 280-192965-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-192965-1

Date Collected: 06/18/24 13:00

Matrix: Water

Date Received: 06/18/24 15:27

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	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			660048	07/10/24 15:18	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.8		1			659737	07/09/24 11:57	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	659613	07/08/24 17:24	CAF	EET DEN
Dissolved	Analysis	245.1		1			659777	07/08/24 21:53	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657360	06/19/24 06:09	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657361	06/19/24 06:09	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	659627	07/08/24 16:03	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	657889	06/21/24 10:29	MF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	657575	06/19/24 10:48	CLP	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	658330	06/25/24 11:14	LBR	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	657604	06/19/24 13:52	CLP	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	667434	06/21/24 07:50	MEH	EET SL
Dissolved	Analysis	900.0		1			668351	06/27/24 15:13	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	668939	07/02/24 09:23	HGB	EET SL
Dissolved	Analysis	901.1		1			669448	07/05/24 12:40	CAH	EET SL

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-192965-2

Date Collected: 06/18/24 13:30

Matrix: Water

Date Received: 06/18/24 15:27

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	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			660048	07/10/24 15:22	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.8		1			659737	07/09/24 11:59	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	659613	07/08/24 17:24	CAF	EET DEN
Dissolved	Analysis	245.1		1			659777	07/08/24 21:56	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657360	06/19/24 08:09	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657361	06/19/24 08:09	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	659627	07/08/24 16:05	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	657889	06/21/24 10:29	MF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	657575	06/19/24 10:48	CLP	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	658330	06/25/24 11:17	LBR	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	657604	06/19/24 13:51	CLP	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	667434	06/21/24 07:50	MEH	EET SL
Dissolved	Analysis	900.0		1			668351	06/27/24 15:12	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	668939	07/02/24 09:23	HGB	EET SL
Dissolved	Analysis	901.1		1			669224	07/03/24 18:36	CAH	EET SL

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Lab Chronicle

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

Job ID: 280-192965-1

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-192965-3

Date Collected: 06/18/24 13:30

Matrix: Water

Date Received: 06/18/24 15:27

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	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			660048	07/10/24 15:26	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.8		1			659737	07/09/24 12:01	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	659613	07/08/24 17:24	CAF	EET DEN
Dissolved	Analysis	245.1		1			659777	07/08/24 21:58	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657360	06/19/24 09:17	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657361	06/19/24 09:17	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	659627	07/08/24 16:07	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	657889	06/21/24 10:29	MF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	657575	06/19/24 10:48	CLP	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	658330	06/25/24 11:19	LBR	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	657604	06/19/24 13:50	CLP	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	667434	06/21/24 07:50	MEH	EET SL
Dissolved	Analysis	900.0		1			668351	06/27/24 15:12	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	668939	07/02/24 09:23	HGB	EET SL
Dissolved	Analysis	901.1		1			669222	07/03/24 18:38	CAH	EET SL

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-192965-4

Date Collected: 06/18/24 11:30

Matrix: Water

Date Received: 06/18/24 15:27

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	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			660048	07/10/24 15:29	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.8		1			659737	07/09/24 12:04	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	659613	07/08/24 17:24	CAF	EET DEN
Dissolved	Analysis	245.1		1			659777	07/08/24 22:01	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657360	06/19/24 04:44	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657361	06/19/24 04:44	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	659627	07/08/24 16:09	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	657889	06/21/24 10:29	MF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	657575	06/19/24 10:48	CLP	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	658330	06/25/24 11:22	LBR	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	657604	06/19/24 13:50	CLP	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	667434	06/21/24 07:50	MEH	EET SL
Dissolved	Analysis	900.0		1			668351	06/27/24 15:12	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	668939	07/02/24 09:23	HGB	EET SL
Dissolved	Analysis	901.1		1			669220	07/03/24 18:39	CAH	EET SL

Eurofins Denver

Lab Chronicle

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

Job ID: 280-192965-1

Client Sample ID: CARIBOU PORTAL

Lab Sample ID: 280-192965-5

Date Collected: 06/18/24 11:15

Matrix: Water

Date Received: 06/18/24 15:27

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	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			660048	07/10/24 15:33	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.8		1			659737	07/09/24 12:11	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	659613	07/08/24 17:24	CAF	EET DEN
Dissolved	Analysis	245.1		1			659777	07/08/24 22:03	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657360	06/19/24 03:36	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657361	06/19/24 03:36	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	659627	07/08/24 16:11	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	657889	06/21/24 10:29	MF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	657575	06/19/24 10:48	CLP	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	658330	06/25/24 11:25	LBR	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	657604	06/19/24 13:49	CLP	EET DEN
Dissolved	Prep	Evaporation			200.03 mL	1.0 g	667434	06/21/24 07:50	MEH	EET SL
Dissolved	Analysis	900.0		1			668351	06/27/24 15:12	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	668939	07/02/24 09:23	HGB	EET SL
Dissolved	Analysis	901.1		1			669220	07/03/24 22:08	CAH	EET SL

Client Sample ID: CROSS PORTAL

Lab Sample ID: 280-192965-6

Date Collected: 06/18/24 12:15

Matrix: Water

Date Received: 06/18/24 15:27

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	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			660048	07/10/24 15:49	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.8		1			659737	07/09/24 12:13	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	659613	07/08/24 17:24	CAF	EET DEN
Dissolved	Analysis	245.1		1			659777	07/08/24 22:06	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657360	06/19/24 05:01	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657361	06/19/24 05:01	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	659627	07/08/24 16:13	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	657889	06/21/24 10:29	MF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	657575	06/19/24 10:48	CLP	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	658330	06/25/24 11:27	LBR	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	657604	06/19/24 13:54	CLP	EET DEN
Dissolved	Prep	Evaporation			200.03 mL	1.0 g	667434	06/21/24 07:50	MEH	EET SL
Dissolved	Analysis	900.0		1			668351	06/27/24 15:12	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	668939	07/02/24 09:23	HGB	EET SL
Dissolved	Analysis	901.1		1			669224	07/03/24 19:50	CAH	EET SL

Eurofins Denver

Lab Chronicle

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

Job ID: 280-192965-1

Client Sample ID: CROSS PORTAL 02

Lab Sample ID: 280-192965-7

Date Collected: 06/18/24 12:15

Matrix: Water

Date Received: 06/18/24 15:27

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	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			660048	07/10/24 15:53	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	659570	07/08/24 21:32	KLG	EET DEN
Dissolved	Analysis	200.8		1			659737	07/09/24 12:15	LMT	EET DEN
Dissolved	Prep	245.1			30 mL	50 mL	659613	07/08/24 17:24	CAF	EET DEN
Dissolved	Analysis	245.1		1			659777	07/08/24 22:08	CAF	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657360	06/19/24 05:18	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	657361	06/19/24 05:18	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	659627	07/08/24 16:25	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	658085	06/24/24 09:30	MF	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	657575	06/19/24 10:47	CLP	EET DEN
Total/NA	Analysis	SM 4500 CN I		1	10 mL	10 mL	658330	06/25/24 11:30	LBR	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	657604	06/19/24 13:50	CLP	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	667434	06/21/24 07:50	MEH	EET SL
Dissolved	Analysis	900.0		1			668351	06/27/24 15:12	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	668939	07/02/24 09:23	HGB	EET SL
Dissolved	Analysis	901.1		1			669222	07/03/24 22:09	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: 280-192965-1

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24 *
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-24 *
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	T104704183-23-23	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	06-14-25
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	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	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: 280-192965-1

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
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	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-24
New Jersey	NELAP	MO002	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-25
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	MO00054	07-31-24
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-24

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

Eurofins Denver

Chain of Custody Record

[illegible]

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



Client Information (Sub Contract Lab)				Sampler	Lab PM:	Bienilius, Dylan T	Carrier Tracking No(s)	COC No.		
					E-Mail	Dylan.Bienilius@et.eurofins.com	State of Origin Colorado	280-706765-1		
Shipping/Receiving				Phone:						
Company				Accreditations Required (See note).						
TestAmerica Laboratories, Inc.				Job # 280-192965-1						
Address: 13715 Rider Trail North, City Earth City State, Zip: MO. 63045 Phone 314-298-8566(Tel) 314-298-8757(Fax) Email 				Preservation Codes:						
Project Name Nederland, CO - Groundwater Site				Analysis Requested						
Due Date Requested: 7/18/2024 TAT Requested (days):										
PO #										
WO #										
Project # 28025589 SSOW#										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=waste/oil, BT=tissue, A=AU)	Field Filtered Sample (Yes or No)	Performs MS/MSD (Yes or No)	901_Ca/FIELD_FLTRD (MOD) Cesium-137 only	900_O/FIELD_FLTRD Standard Target List	Total Number of Containers	Special Instructions/Note:
CROSS WELL (280-192965-1)	6/18/24	13:00 Mountain		Water	X	X			2	
COMPLIANCE WELL (280-192965-2)	6/18/24	13:30 Mountain		Water	X	X			2	
COMPLIANCE 02 (280-192965-3)	6/18/24	13:30 Mountain		Water	X	X			2	
CARIBOU WELL (280-192965-4)	6/18/24	11:30 Mountain		Water	X	X			2	
CARIBOU PORTAL (280-192965-5)	6/18/24	11:15 Mountain		Water	X	X			2	
CROSS PORTAL (280-192965-6)	6/18/24	12:15 Mountain		Water	X	X			2	
CROSS PORTAL 02 (280-192965-7)	6/18/24	12:15 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

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
Relinquished by: _____ Date/Time: JUN 19 2024 14:44 Company: EFTDEN
Relinquished by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
Δ Yes Δ No

Received by: _____ Date/Time: JUN 20 2024 09:00 Company: CHSL
Received by: _____ Date/Time: _____ Company: _____
Received by: _____ Date/Time: _____ Company: _____
Cooler Temperature(s) °C and Other Remarks: _____

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-192965-1

Login Number: 192965

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: 280-192965-1

Login Number: 192965

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 06/20/24 02:33 PM

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

APPENDIX B OUTFALL-001 ANALYTICAL RESULTS

APPENDIX B.1 APRIL 2024 OUTFALL-001 ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/18/2024 1:43:26 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-189644-1

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



Generated
4/18/2024 1:43:26 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: 280-189644-1

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
F1	MS and/or MSD recovery exceeds control limits.
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: 280-189644-1

Job ID: 280-189644-1

Eurofins Denver

Job Narrative 280-189644-1

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.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

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

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt

The sample was received on 4/4/2024 4:44 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 5.8°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.

Method 1631E - Mercury, Low Level (CVAFS)

Sample OUTFALL 001 (280-189644-1) was analyzed for Mercury, Low Level (CVAFS). The sample was prepared on 4/10/2024 and analyzed on 4/11/2024.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Sample OUTFALL 001 (280-189644-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 4/9/2024 and analyzed on 4/10/2024.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved

Sample OUTFALL 001 (280-189644-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 4/8/2024 and analyzed on 4/9/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable

Sample OUTFALL 001 (280-189644-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 4/9/2024 and analyzed on 4/11/2024.

Method 245.1 - Mercury (CVAA)

Sample OUTFALL 001 (280-189644-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 4/9/2024.

Method SM 2510B - Conductivity, Specific Conductance

Sample OUTFALL 001 (280-189644-1) was analyzed for Conductivity, Specific Conductance. The sample was prepared on 4/9/2024 and analyzed on 4/8/2024 and 4/10/2024.

Eurofins Denver

Case Narrative

Client: Grand Island Resources
Project: Nederland, CO

Job ID: 280-189644-1

Job ID: 280-189644-1 (Continued)

Eurofins Denver

Method SM 2540D - Solids, Total Suspended (TSS)

Sample OUTFALL 001 (280-189644-1) was analyzed for Solids, Total Suspended (TSS). The sample was prepared on 4/9/2024 and analyzed on 4/10/2024 and 4/11/2024.

Method SM 3500 CR B - Chromium, Hexavalent

Sample OUTFALL 001 (280-189644-1) was analyzed for Chromium, Hexavalent. The sample was prepared on 4/9/2024 and analyzed on 4/4/2024 and 4/10/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Sample OUTFALL 001 (280-189644-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was prepared on 4/9/2024 and analyzed on 4/4/2024 and 4/10/2024.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved

Sample OUTFALL 001 (280-189644-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 4/18/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable

Sample OUTFALL 001 (280-189644-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 4/18/2024.

Method SM 4500 H+ B - pH

Sample OUTFALL 001 (280-189644-1) was analyzed for pH. The sample was analyzed on 4/5/2024.

Method SM 4500 S2 D - Sulfide, Total

Sample OUTFALL 001 (280-189644-1) was analyzed for Sulfide, Total. The sample was analyzed on 4/8/2024.

The matrix spike (MS) recoveries for analytical batch 280-648728 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits.

Method SM4500 S2 H - Unionized Hydrogen Sulfide

Sample OUTFALL 001 (280-189644-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 4/8/2024.

Eurofins Denver

Detection Summary

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

Job ID: 280-189644-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-189644-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.6		0.50	0.20	ng/L	1		1631E	Total/NA
Iron	26	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Lead	0.31	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	9.9	J	10	2.0	ug/L	1		200.8	Total Recoverable
Lead	0.23	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Zinc	16		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	240		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	21.4	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.9		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: 280-189644-1

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: 280-189644-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-189644-1	OUTFALL 001	Water	04/04/24 12:00	04/04/24 16:44

- 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: 280-189644-1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: OUTFALL 001
Date Collected: 04/04/24 12:00
Date Received: 04/04/24 16:44

Lab Sample ID: 280-189644-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		0.50	0.20	ng/L		04/10/24 15:17	04/11/24 13:17	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL 001
Date Collected: 04/04/24 12:00
Date Received: 04/04/24 16:44

Lab Sample ID: 280-189644-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	26	J B	100	9.1	ug/L		04/09/24 16:22	04/10/24 13:27	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL 001
Date Collected: 04/04/24 12:00
Date Received: 04/04/24 16:44

Lab Sample ID: 280-189644-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		04/09/24 16:22	04/11/24 01:09	1
Cadmium	ND		1.0	0.19	ug/L		04/09/24 16:22	04/11/24 01:09	1
Chromium	ND		3.0	0.50	ug/L		04/09/24 16:22	04/11/24 01:09	1
Copper	ND		2.0	0.71	ug/L		04/09/24 16:22	04/11/24 01:09	1
Lead	0.31	J	1.0	0.23	ug/L		04/09/24 16:22	04/11/24 01:09	1
Zinc	9.9	J	10	2.0	ug/L		04/09/24 16:22	04/11/24 01:09	1

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

Client Sample ID: OUTFALL 001
Date Collected: 04/04/24 12:00
Date Received: 04/04/24 16:44

Lab Sample ID: 280-189644-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		04/08/24 16:53	04/09/24 18:41	1
Cadmium	ND		1.0	0.19	ug/L		04/08/24 16:53	04/09/24 18:41	1
Chromium	ND		3.0	0.50	ug/L		04/08/24 16:53	04/09/24 18:41	1
Copper	ND		2.0	0.71	ug/L		04/08/24 16:53	04/09/24 18:41	1
Lead	0.23	J	1.0	0.23	ug/L		04/08/24 16:53	04/09/24 18:41	1
Manganese	ND		3.0	0.51	ug/L		04/08/24 16:53	04/09/24 18:41	1
Nickel	ND		3.0	0.83	ug/L		04/08/24 16:53	04/09/24 18:41	1
Selenium	ND		5.0	1.0	ug/L		04/08/24 16:53	04/09/24 18:41	1
Silver	ND		0.50	0.045	ug/L		04/08/24 16:53	04/09/24 18:41	1
Zinc	16		10	2.0	ug/L		04/08/24 16:53	04/09/24 18:41	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL 001
Date Collected: 04/04/24 12:00
Date Received: 04/04/24 16:44

Lab Sample ID: 280-189644-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		04/09/24 12:55	04/09/24 23:00	1

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Client Sample Results

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

Job ID: 280-189644-1

General Chemistry

Client Sample ID: OUTFALL 001
Date Collected: 04/04/24 12:00
Date Received: 04/04/24 16:44

Lab Sample ID: 280-189644-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	240		2.0	2.0	umhos/cm			04/08/24 21:39	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			04/10/24 16:34	1
Chromium, hexavalent (SM 3500 CR B)	ND		20	4.0	ug/L			04/04/24 19:44	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			04/05/24 16:29	1
Temperature (SM 4500 H+ B)	21.4	HF	1.0	1.0	Degrees C			04/05/24 16:29	1
Sulfide (SM 4500 S2 D)	ND	F1	0.050	0.022	mg/L			04/08/24 21:53	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			04/08/24 20:51	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			04/08/24 20:51	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			04/08/24 20:51	1
Specific Conductance (SM4500 S2 H)	240		2.0	2.0	umhos/cm			04/08/24 20:51	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			04/08/24 20:51	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL 001
Date Collected: 04/04/24 12:00
Date Received: 04/04/24 16:44

Lab Sample ID: 280-189644-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		20	20	ug/L			04/18/24 11:33	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL 001
Date Collected: 04/04/24 12:00
Date Received: 04/04/24 16:44

Lab Sample ID: 280-189644-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		20	4.0	ug/L			04/04/24 19:51	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL 001
Date Collected: 04/04/24 12:00
Date Received: 04/04/24 16:44

Lab Sample ID: 280-189644-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		20	20	ug/L			04/18/24 11:33	1

QC Sample Results

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

Job ID: 280-189644-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-667648/3-A
Matrix: Water
Analysis Batch: 667712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 667648

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		04/10/24 16:00	04/11/24 11:38	1

Lab Sample ID: LCS 400-667648/4-A
Matrix: Water
Analysis Batch: 667712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.40		ng/L		88	79 - 121

Lab Sample ID: LCSD 400-667648/5-A
Matrix: Water
Analysis Batch: 667712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 667648

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.33		ng/L		87	79 - 121	2	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-648671/1-A
Matrix: Water
Analysis Batch: 649125

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 648671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13.3	J	100	9.1	ug/L		04/09/24 16:22	04/10/24 13:20	1

Lab Sample ID: LCS 280-648671/2-A
Matrix: Water
Analysis Batch: 649125

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 648671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10200		ug/L		102	85 - 115

Lab Sample ID: 280-189644-1 MS
Matrix: Water
Analysis Batch: 649125

Client Sample ID: OUTFALL 001
Prep Type: Total Recoverable
Prep Batch: 648671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	26	J B	10000	10200		ug/L		102	70 - 130

Lab Sample ID: 280-189644-1 MSD
Matrix: Water
Analysis Batch: 649125

Client Sample ID: OUTFALL 001
Prep Type: Total Recoverable
Prep Batch: 648671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	26	J B	10000	10200		ug/L		102	70 - 130	0	20

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QC Sample Results

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

Job ID: 280-189644-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-648671/1-A
Matrix: Water
Analysis Batch: 649086

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 648671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		04/09/24 16:22	04/11/24 01:05	1
Cadmium	ND		1.0	0.19	ug/L		04/09/24 16:22	04/11/24 01:05	1
Chromium	ND		3.0	0.50	ug/L		04/09/24 16:22	04/11/24 01:05	1
Copper	ND		2.0	0.71	ug/L		04/09/24 16:22	04/11/24 01:05	1
Lead	ND		1.0	0.23	ug/L		04/09/24 16:22	04/11/24 01:05	1
Zinc	ND		10	2.0	ug/L		04/09/24 16:22	04/11/24 01:05	1

Lab Sample ID: LCS 280-648671/25-A
Matrix: Water
Analysis Batch: 649086

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 648671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.7		ug/L		104	89 - 111
Cadmium	40.0	38.6		ug/L		97	89 - 111
Chromium	40.0	41.4		ug/L		104	86 - 115
Copper	40.0	40.8		ug/L		102	90 - 115
Lead	40.0	40.4		ug/L		101	88 - 115
Zinc	40.0	39.6		ug/L		99	88 - 115

Lab Sample ID: 280-189644-1 MS
Matrix: Water
Analysis Batch: 649086

Client Sample ID: OUTFALL 001
Prep Type: Total Recoverable
Prep Batch: 648671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	42.5		ug/L		106	79 - 120
Cadmium	ND		40.0	39.6		ug/L		99	89 - 111
Chromium	ND		40.0	40.8		ug/L		102	86 - 115
Copper	ND		40.0	40.6		ug/L		101	90 - 115
Lead	0.31	J	40.0	41.3		ug/L		102	88 - 115
Zinc	9.9	J	40.0	51.9		ug/L		105	88 - 115

Lab Sample ID: 280-189644-1 MSD
Matrix: Water
Analysis Batch: 649086

Client Sample ID: OUTFALL 001
Prep Type: Total Recoverable
Prep Batch: 648671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	42.4		ug/L		106	79 - 120	0	20
Cadmium	ND		40.0	40.7		ug/L		102	89 - 111	3	20
Chromium	ND		40.0	41.8		ug/L		104	86 - 115	2	20
Copper	ND		40.0	41.4		ug/L		103	90 - 115	2	20
Lead	0.31	J	40.0	42.0		ug/L		104	88 - 115	2	20
Zinc	9.9	J	40.0	50.6		ug/L		102	88 - 115	3	20

Lab Sample ID: MB 280-648544/1-B
Matrix: Water
Analysis Batch: 648912

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 648656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		04/08/24 16:53	04/09/24 18:34	1

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QC Sample Results

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

Job ID: 280-189644-1

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

Lab Sample ID: MB 280-648544/1-B
Matrix: Water
Analysis Batch: 648912

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 648656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		04/08/24 16:53	04/09/24 18:34	1
Chromium	ND		3.0	0.50	ug/L		04/08/24 16:53	04/09/24 18:34	1
Copper	ND		2.0	0.71	ug/L		04/08/24 16:53	04/09/24 18:34	1
Lead	ND		1.0	0.23	ug/L		04/08/24 16:53	04/09/24 18:34	1
Manganese	ND		3.0	0.51	ug/L		04/08/24 16:53	04/09/24 18:34	1
Nickel	ND		3.0	0.83	ug/L		04/08/24 16:53	04/09/24 18:34	1
Selenium	ND		5.0	1.0	ug/L		04/08/24 16:53	04/09/24 18:34	1
Silver	ND		0.50	0.045	ug/L		04/08/24 16:53	04/09/24 18:34	1
Zinc	ND		10	2.0	ug/L		04/08/24 16:53	04/09/24 18:34	1

Lab Sample ID: LCS 280-648544/2-D
Matrix: Water
Analysis Batch: 648912

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 648656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	42.8		ug/L		107	89 - 111
Cadmium	40.0	40.4		ug/L		101	89 - 111
Chromium	40.0	42.5		ug/L		106	86 - 115
Copper	40.0	42.4		ug/L		106	90 - 115
Lead	40.0	40.0		ug/L		100	88 - 115
Manganese	40.0	43.1		ug/L		108	87 - 115
Nickel	40.0	40.9		ug/L		102	86 - 115
Selenium	40.0	41.3		ug/L		103	85 - 114
Silver	40.0	39.9		ug/L		100	90 - 114
Zinc	40.0	42.7		ug/L		107	88 - 115

Lab Sample ID: 280-189644-1 MS
Matrix: Water
Analysis Batch: 648912

Client Sample ID: OUTFALL 001
Prep Type: Potentially Dissolved
Prep Batch: 648656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	43.1		ug/L		108	79 - 120
Cadmium	ND		40.0	41.0		ug/L		103	89 - 111
Chromium	ND		40.0	41.9		ug/L		105	86 - 115
Copper	ND		40.0	42.4		ug/L		106	90 - 115
Lead	0.23	J	40.0	41.9		ug/L		104	88 - 115
Manganese	ND		40.0	42.3		ug/L		106	87 - 115
Nickel	ND		40.0	41.2		ug/L		103	86 - 115
Selenium	ND		40.0	41.0		ug/L		102	85 - 114
Silver	ND		40.0	40.3		ug/L		101	70 - 130
Zinc	16		40.0	55.2		ug/L		99	88 - 115

Lab Sample ID: 280-189644-1 MSD
Matrix: Water
Analysis Batch: 648912

Client Sample ID: OUTFALL 001
Prep Type: Potentially Dissolved
Prep Batch: 648656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	41.2		ug/L		103	79 - 120	5	20
Cadmium	ND		40.0	39.3		ug/L		98	89 - 111	4	20

Eurofins Denver

QC Sample Results

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

Job ID: 280-189644-1

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

Lab Sample ID: 280-189644-1 MSD

Matrix: Water

Analysis Batch: 648912

Client Sample ID: OUTFALL 001

Prep Type: Potentially Dissolved

Prep Batch: 648656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	ND		40.0	41.1		ug/L		103	86 - 115	2	20
Copper	ND		40.0	40.7		ug/L		102	90 - 115	4	20
Lead	0.23	J	40.0	41.0		ug/L		102	88 - 115	2	20
Manganese	ND		40.0	41.1		ug/L		103	87 - 115	3	20
Nickel	ND		40.0	38.9		ug/L		97	86 - 115	6	20
Selenium	ND		40.0	41.0		ug/L		102	85 - 114	0	20
Silver	ND		40.0	39.6		ug/L		99	70 - 130	2	20
Zinc	16		40.0	54.7		ug/L		98	88 - 115	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-648709/1-A

Matrix: Water

Analysis Batch: 649230

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 648709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		04/09/24 12:55	04/09/24 21:54	1

Lab Sample ID: LCS 280-648709/2-A

Matrix: Water

Analysis Batch: 649230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 648709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.83		ug/L		97	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-648725/4

Matrix: Water

Analysis Batch: 648725

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			04/08/24 21:39	1

Lab Sample ID: LCS 280-648725/3

Matrix: Water

Analysis Batch: 648725

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	1440		umhos/cm		102	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-649044/1

Matrix: Water

Analysis Batch: 649044

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			04/10/24 16:34	1

Eurofins Denver

QC Sample Results

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

Job ID: 280-189644-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 280-649044/2
Matrix: Water
Analysis Batch: 649044

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	502	480		mg/L		96	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-648386/10
Matrix: Water
Analysis Batch: 648386

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		20	4.0	ug/L			04/04/24 19:42	1

Lab Sample ID: LCS 280-648386/8
Matrix: Water
Analysis Batch: 648386

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	100	100		ug/L		100	91 - 112

Lab Sample ID: LCSD 280-648386/9
Matrix: Water
Analysis Batch: 648386

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	100	99.9		ug/L		100	91 - 112	0	20

Lab Sample ID: 280-189644-1 MS
Matrix: Water
Analysis Batch: 648386

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		100	101		ug/L		101	91 - 112

Lab Sample ID: 280-189644-1 MSD
Matrix: Water
Analysis Batch: 648386

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		100	101		ug/L		101	91 - 112	1	20

Lab Sample ID: 280-189644-1 DU
Matrix: Water
Analysis Batch: 648386

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		ug/L		NC	20

Eurofins Denver

QC Sample Results

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

Job ID: 280-189644-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 280-648382/3-A
Matrix: Water
Analysis Batch: 648386

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		20	4.0	ug/L			04/04/24 19:50	1

Lab Sample ID: LCS 280-648382/1-A
Matrix: Water
Analysis Batch: 648386

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	100	100		ug/L		100	91 - 112

Lab Sample ID: LCSD 280-648382/2-A
Matrix: Water
Analysis Batch: 648386

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	100	101		ug/L		101	91 - 112	0	20

Lab Sample ID: 280-189644-1 MS
Matrix: Water
Analysis Batch: 648386

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		100	101		ug/L		101	91 - 112

Lab Sample ID: 280-189644-1 MSD
Matrix: Water
Analysis Batch: 648386

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		100	101		ug/L		101	91 - 112	0	20

Lab Sample ID: 280-189644-1 DU
Matrix: Water
Analysis Batch: 648386

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		ug/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-648555/5
Matrix: Water
Analysis Batch: 648555

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

QC Sample Results

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

Job ID: 280-189644-1

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-648728/30
Matrix: Water
Analysis Batch: 648728

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			04/08/24 21:51	1

Lab Sample ID: LCS 280-648728/28
Matrix: Water
Analysis Batch: 648728

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	0.444		mg/L		89	81 - 122

Lab Sample ID: LCSD 280-648728/29
Matrix: Water
Analysis Batch: 648728

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	0.434		mg/L		87	81 - 122	2	10

Lab Sample ID: 280-189644-1 MS
Matrix: Water
Analysis Batch: 648728

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
Sulfide	ND	F1	0.500	0.401	F1	mg/L		80	81 - 122

Lab Sample ID: 280-189644-1 MSD
Matrix: Water
Analysis Batch: 648728

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
Sulfide	ND	F1	0.500	0.405		mg/L		81	81 - 122	1	10

QC Association Summary

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

Job ID: 280-189644-1

Metals

Filtration Batch: 648544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-648544/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-648544/2-D	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	
280-189644-1 MS	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	
280-189644-1 MSD	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 648656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Potentially Dissolved	Water	200.8	648544
MB 280-648544/1-B	Method Blank	Potentially Dissolved	Water	200.8	648544
LCS 280-648544/2-D	Lab Control Sample	Potentially Dissolved	Water	200.8	648544
280-189644-1 MS	OUTFALL 001	Potentially Dissolved	Water	200.8	648544
280-189644-1 MSD	OUTFALL 001	Potentially Dissolved	Water	200.8	648544

Prep Batch: 648671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total Recoverable	Water	200.7	
280-189644-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-648671/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-648671/25-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 280-648671/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-189644-1 MS	OUTFALL 001	Total Recoverable	Water	200.7	
280-189644-1 MS	OUTFALL 001	Total Recoverable	Water	200.8	
280-189644-1 MSD	OUTFALL 001	Total Recoverable	Water	200.7	
280-189644-1 MSD	OUTFALL 001	Total Recoverable	Water	200.8	

Prep Batch: 648709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total/NA	Water	245.1	
MB 280-648709/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-648709/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 648912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Potentially Dissolved	Water	200.8	648656
MB 280-648544/1-B	Method Blank	Potentially Dissolved	Water	200.8	648656
LCS 280-648544/2-D	Lab Control Sample	Potentially Dissolved	Water	200.8	648656
280-189644-1 MS	OUTFALL 001	Potentially Dissolved	Water	200.8	648656
280-189644-1 MSD	OUTFALL 001	Potentially Dissolved	Water	200.8	648656

Analysis Batch: 649086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total Recoverable	Water	200.8	648671
MB 280-648671/1-A	Method Blank	Total Recoverable	Water	200.8	648671
LCS 280-648671/25-A	Lab Control Sample	Total Recoverable	Water	200.8	648671
280-189644-1 MS	OUTFALL 001	Total Recoverable	Water	200.8	648671
280-189644-1 MSD	OUTFALL 001	Total Recoverable	Water	200.8	648671

Analysis Batch: 649125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	648671

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QC Association Summary

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

Job ID: 280-189644-1

Metals (Continued)

Analysis Batch: 649125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-648671/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	648671
LCS 280-648671/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	648671
280-189644-1 MS	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	648671
280-189644-1 MSD	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	648671

Analysis Batch: 649230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total/NA	Water	245.1	648709
MB 280-648709/1-A	Method Blank	Total/NA	Water	245.1	648709
LCS 280-648709/2-A	Lab Control Sample	Total/NA	Water	245.1	648709

Prep Batch: 667648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total/NA	Water	1631E	
MB 400-667648/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-667648/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-667648/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 667712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total/NA	Water	1631E	667648
MB 400-667648/3-A	Method Blank	Total/NA	Water	1631E	667648
LCS 400-667648/4-A	Lab Control Sample	Total/NA	Water	1631E	667648
LCSD 400-667648/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	667648

General Chemistry

Filtration Batch: 648382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Dissolved	Water	FILTRATION	
MB 280-648382/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-648382/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-648382/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-189644-1 MS	OUTFALL 001	Dissolved	Water	FILTRATION	
280-189644-1 MSD	OUTFALL 001	Dissolved	Water	FILTRATION	
280-189644-1 DU	OUTFALL 001	Dissolved	Water	FILTRATION	

Analysis Batch: 648386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Dissolved	Water	SM 3500 CR B	648382
280-189644-1	OUTFALL 001	Total/NA	Water	SM 3500 CR B	
MB 280-648382/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	648382
MB 280-648386/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-648382/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	648382
LCS 280-648386/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-648382/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	648382
LCSD 280-648386/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-189644-1 MS	OUTFALL 001	Dissolved	Water	SM 3500 CR B	648382
280-189644-1 MS	OUTFALL 001	Total/NA	Water	SM 3500 CR B	
280-189644-1 MSD	OUTFALL 001	Dissolved	Water	SM 3500 CR B	648382
280-189644-1 MSD	OUTFALL 001	Total/NA	Water	SM 3500 CR B	

Eurofins Denver

QC Association Summary

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

Job ID: 280-189644-1

General Chemistry (Continued)

Analysis Batch: 648386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1 DU	OUTFALL 001	Dissolved	Water	SM 3500 CR B	648382
280-189644-1 DU	OUTFALL 001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 648555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total/NA	Water	SM 4500 H+ B	
LCS 280-648555/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 648721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 648725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total/NA	Water	SM 2510B	
MB 280-648725/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-648725/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 648728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total/NA	Water	SM 4500 S2 D	
MB 280-648728/30	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-648728/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-648728/29	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-189644-1 MS	OUTFALL 001	Total/NA	Water	SM 4500 S2 D	
280-189644-1 MSD	OUTFALL 001	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 649044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Total/NA	Water	SM 2540D	
MB 280-649044/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-649044/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 650058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189644-1	OUTFALL 001	Potentially Dissolved	Water	SM3500 CR B	
280-189644-1	OUTFALL 001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-189644-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-189644-1

Date Collected: 04/04/24 12:00

Matrix: Water

Date Received: 04/04/24 16:44

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	667648	04/10/24 15:17	VLC	EET PEN
							Completed:	04/11/24 09:20 ¹		
Total/NA	Analysis	1631E		1			667712	04/11/24 13:17	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	648671	04/09/24 16:22	AES	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			649125	04/10/24 13:27	ADL	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	648544	04/06/24 12:45	LRD	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	648656	04/08/24 16:53	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			648912	04/09/24 18:41	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	648671	04/09/24 16:22	AES	EET DEN
Total Recoverable	Analysis	200.8		1			649086	04/11/24 01:09	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	648709	04/09/24 12:55	NKC	EET DEN
Total/NA	Analysis	245.1		1			649230	04/09/24 23:00	NKC	EET DEN
Total/NA	Analysis	SM 2510B		1			648725	04/08/24 21:39	LL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	649044	04/10/24 16:34	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	648382	04/04/24 19:16	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	648386	04/04/24 19:51	SL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	648386	04/04/24 19:44	SL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			648555	04/05/24 16:29	LL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	648728	04/08/24 21:53	SL	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			650058	04/18/24 11:33	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			650058	04/18/24 11:33	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			648721	04/08/24 20:51	C1A	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: 280-189644-1

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	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-25
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 (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-07	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
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	T104704183-23-23	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
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24

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

Eurofins Denver

Accreditation/Certification Summary

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

Job ID: 280-189644-1

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
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
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	03-31-25

1000

4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-189644-1

Login Number: 189644

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: 280-189644-1

Login Number: 189644

List Number: 2

Creator: Earnest, Tamantha

List Source: Eurofins Pensacola

List Creation: 04/08/24 11:15 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	False	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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 5/3/2024 10:23:14 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-190507-1

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



Generated
5/3/2024 10:23:14 AM

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: 280-190507-1

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: Nederland, CO

Job ID: 280-190507-1

Job ID: 280-190507-1

Eurofins Denver

Job Narrative 280-190507-1

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.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

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

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt

The sample was received on 4/23/2024 4:45 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 6.0°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.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved

Sample OUTFALL 001 (280-190507-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 4/29/2024 and analyzed on 4/30/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable

Sample OUTFALL 001 (280-190507-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 4/24/2024.

Eurofins Denver

Detection Summary

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

Job ID: 280-190507-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-190507-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	1.2	J	2.0	0.71	ug/L	1			200.8	Total
Lead	1.7		1.0	0.23	ug/L	1			200.8	Recoverable
Copper	1.3	J	2.0	0.71	ug/L	1			200.8	Total
Lead	1.7		1.0	0.23	ug/L	1			200.8	Recoverable
Zinc	16		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: 280-190507-1

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: 280-190507-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-190507-1	OUTFALL 001	Water	04/23/24 13:30	04/23/24 16:45

- 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: 280-190507-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL 001
Date Collected: 04/23/24 13:30
Date Received: 04/23/24 16:45

Lab Sample ID: 280-190507-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.2	J	2.0	0.71	ug/L		04/24/24 09:33	04/24/24 19:35	1
Lead	1.7		1.0	0.23	ug/L		04/24/24 09:33	04/24/24 19:35	1

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

Client Sample ID: OUTFALL 001
Date Collected: 04/23/24 13:30
Date Received: 04/23/24 16:45

Lab Sample ID: 280-190507-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		04/29/24 16:00	04/30/24 21:27	1
Copper	1.3	J	2.0	0.71	ug/L		04/29/24 16:00	04/30/24 21:27	1
Lead	1.7		1.0	0.23	ug/L		04/29/24 16:00	04/30/24 21:27	1
Silver	ND		0.50	0.045	ug/L		04/29/24 16:00	04/30/24 21:27	1
Zinc	16		10	2.0	ug/L		04/29/24 16:00	04/30/24 21:27	1

QC Sample Results

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

Job ID: 280-190507-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-650692/1-A
Matrix: Water
Analysis Batch: 650878

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 650692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		04/24/24 09:33	04/24/24 18:03	1
Lead	ND		1.0	0.23	ug/L		04/24/24 09:33	04/24/24 18:03	1

Lab Sample ID: LCS 280-650692/2-A
Matrix: Water
Analysis Batch: 650878

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 650692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	37.0		ug/L		93	90 - 115
Lead	40.0	40.8		ug/L		102	88 - 115

Lab Sample ID: MB 280-650844/1-B
Matrix: Water
Analysis Batch: 651613

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 651293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		04/29/24 16:00	04/30/24 21:22	1
Copper	ND		2.0	0.71	ug/L		04/29/24 16:00	04/30/24 21:22	1
Lead	ND		1.0	0.23	ug/L		04/29/24 16:00	04/30/24 21:22	1
Silver	ND		0.50	0.045	ug/L		04/29/24 16:00	04/30/24 21:22	1
Zinc	ND		10	2.0	ug/L		04/29/24 16:00	04/30/24 21:22	1

Lab Sample ID: LCS 280-650844/2-B
Matrix: Water
Analysis Batch: 651695

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 651293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	41.3		ug/L		103	89 - 111
Copper	40.0	41.4		ug/L		104	90 - 115
Lead	40.0	41.0		ug/L		102	88 - 115
Silver	40.0	38.1		ug/L		95	90 - 114
Zinc	40.0	37.6		ug/L		94	88 - 115

QC Association Summary

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

Job ID: 280-190507-1

Metals

Prep Batch: 650692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190507-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-650692/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-650692/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 650844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190507-1	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-650844/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-650844/2-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Analysis Batch: 650878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190507-1	OUTFALL 001	Total Recoverable	Water	200.8	650692
MB 280-650692/1-A	Method Blank	Total Recoverable	Water	200.8	650692
LCS 280-650692/2-A	Lab Control Sample	Total Recoverable	Water	200.8	650692

Prep Batch: 651293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190507-1	OUTFALL 001	Potentially Dissolved	Water	200.8	650844
MB 280-650844/1-B	Method Blank	Potentially Dissolved	Water	200.8	650844
LCS 280-650844/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	650844

Analysis Batch: 651613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190507-1	OUTFALL 001	Potentially Dissolved	Water	200.8	651293
MB 280-650844/1-B	Method Blank	Potentially Dissolved	Water	200.8	651293

Analysis Batch: 651695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-650844/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	651293

Lab Chronicle

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

Job ID: 280-190507-1

Client Sample ID: OUTFALL 001
Date Collected: 04/23/24 13:30
Date Received: 04/23/24 16:45

Lab Sample ID: 280-190507-1
Matrix: Water

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			150 mL	150 mL	650844	04/24/24 16:31	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	651293	04/29/24 16:00	KLG	EET DEN
Potentially Dissolved	Analysis	200.8		1			651613	04/30/24 21:27	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	650692	04/24/24 09:33	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			650878	04/24/24 19:35	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: 280-190507-1

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	11-30-25
Arizona	State	AZ0713	12-20-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24 *
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-07	07-31-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	04-01-25
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	T104704183-23-23	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 John Rinko		Phone: 303-506-1618	E-Mail: Dylan.Bienilius@et.eurofins.com	State of Origin:	Page:
Company: Grand Island Resources		PWSID:		Job #:	
Address: 12567 West Cedar Road Suite 250		Due Date Requested:			
City: Lakewood		TAT Requested (days):			
State, Zip: CO, 80466		Compliance Project: ☐ Yes ☒ No			
Phone: (303) 601-9230		Advance Payment Required			
Email: patrickdelaney@yahoo.com		PO #: 28022821			
Project Name: Nederland, CO		WO #: 28022821			
Site: second half of the month event		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)
OUTFALL 001	4/23/24	13:30	G	W	
Special Instructions/Note:		Total Number of Containers			
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		X			
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		X			
Barcode		280-190507 Chain of Custody			
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: Made Moran		Date/Time: 4/23/24 13:50		Company: QINX	
Relinquished by: John Rinko		Date/Time: 4/23/24 13:50		Company: QINX	
Relinquished by: John Rinko		Date/Time: 4/23/24 1645		Company: QINX	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 5.9, 6.7, 7.1, 12.1	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-190507-1

Login Number: 190507

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

APPENDIX B.2 MAY 2024 OUTFALL-001 ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/23/2024 10:53:07 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-191254-1

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



Generated
5/23/2024 10:53:07 AM

Authorized for release by
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Definitions/Glossary

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

Job ID: 280-191254-1

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: 280-191254-1

Job ID: 280-191254-1

Eurofins Denver

Job Narrative 280-191254-1

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.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

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

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt

The sample was received on 5/9/2024 2:00 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 4.7°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.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Sample OUTFALL 001 (280-191254-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 5/10/2024 and analyzed on 5/13/2024.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved

Sample OUTFALL 001 (280-191254-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 5/15/2024 and 5/19/2024 and analyzed on 5/13/2024, 5/15/2024, 5/16/2024 and 5/20/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable

Sample OUTFALL 001 (280-191254-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 5/10/2024 and analyzed on 5/10/2024 and 5/13/2024.

An instrument blank for analytical batch 280-653192 contained Chromium greater than one-half the reporting limit (RL), and associated samples were not re-analyzed because none of the samples associated with this blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 245.1 - Mercury (CVAA)

Sample OUTFALL 001 (280-191254-1) was analyzed for Mercury (CVAA). The sample was prepared on 5/21/2024 and analyzed on 5/13/2024 and 5/21/2024.

Method SM 2510B - Conductivity, Specific Conductance

Sample OUTFALL 001 (280-191254-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 5/20/2024.

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Case Narrative

Client: Grand Island Resources
Project: Nederland, CO

Job ID: 280-191254-1

Job ID: 280-191254-1 (Continued)

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Method SM 2540D - Solids, Total Suspended (TSS)

Sample OUTFALL 001 (280-191254-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 5/16/2024.

Method SM 3500 CR B - Chromium, Hexavalent

Sample OUTFALL 001 (280-191254-1) was analyzed for Chromium, Hexavalent. The sample was analyzed on 5/9/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Sample OUTFALL 001 (280-191254-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 5/9/2024.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved

Sample OUTFALL 001 (280-191254-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 5/21/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable

Sample OUTFALL 001 (280-191254-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 5/21/2024.

Method SM 4500 H+ B - pH

Sample OUTFALL 001 (280-191254-1) was analyzed for pH. The sample was analyzed on 5/10/2024.

Method SM 4500 S2 D - Sulfide, Total

Sample OUTFALL 001 (280-191254-1) was analyzed for Sulfide, Total. The sample was analyzed on 5/13/2024.

Method SM4500 S2 H - Unionized Hydrogen Sulfide

Sample OUTFALL 001 (280-191254-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 5/13/2024.

Eurofins Denver

Detection Summary

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

Job ID: 280-191254-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-191254-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	33	J	100	9.1	ug/L	1		200.7 Rev 4.4	Total
Copper	1.8	J	2.0	0.71	ug/L	1		200.8	Recoverable
Lead	1.7		1.0	0.23	ug/L	1		200.8	Total
Zinc	11		10	2.0	ug/L	1		200.8	Recoverable
Chromium	0.62	J B	3.0	0.50	ug/L	1		200.8	Total
Copper	1.5	J	2.0	0.71	ug/L	1		200.8	Recoverable
Lead	1.8		1.0	0.23	ug/L	1		200.8	Total
Manganese	0.62	J	3.0	0.51	ug/L	1		200.8	Recoverable
Zinc	16	B	10	2.0	ug/L	1		200.8	Total
Specific Conductance	180		2.0	2.0	umhos/cm	1		SM 2510B	Recoverable
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.6	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	180		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

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

Job ID: 280-191254-1

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: 280-191254-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-191254-1	OUTFALL 001	Water	05/09/24 11:30	05/09/24 14:00

- 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: 280-191254-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL 001
Date Collected: 05/09/24 11:30
Date Received: 05/09/24 14:00

Lab Sample ID: 280-191254-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	33	J	100	9.1	ug/L		05/10/24 08:26	05/13/24 22:35	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL 001
Date Collected: 05/09/24 11:30
Date Received: 05/09/24 14:00

Lab Sample ID: 280-191254-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		05/10/24 08:26	05/10/24 19:41	1
Cadmium	ND		1.0	0.19	ug/L		05/10/24 08:26	05/10/24 19:41	1
Chromium	ND		3.0	0.50	ug/L		05/10/24 08:26	05/10/24 19:41	1
Copper	1.8	J	2.0	0.71	ug/L		05/10/24 08:26	05/13/24 16:21	1
Lead	1.7		1.0	0.23	ug/L		05/10/24 08:26	05/13/24 16:21	1
Zinc	11		10	2.0	ug/L		05/10/24 08:26	05/13/24 16:21	1

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

Client Sample ID: OUTFALL 001
Date Collected: 05/09/24 11:30
Date Received: 05/09/24 14:00

Lab Sample ID: 280-191254-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		05/15/24 08:41	05/16/24 10:49	1
Cadmium	ND		1.0	0.19	ug/L		05/15/24 08:41	05/15/24 20:01	1
Chromium	0.62	J B	3.0	0.50	ug/L		05/15/24 08:41	05/16/24 10:49	1
Copper	1.5	J	2.0	0.71	ug/L		05/15/24 08:41	05/15/24 20:01	1
Lead	1.8		1.0	0.23	ug/L		05/19/24 10:33	05/20/24 14:35	1
Manganese	0.62	J	3.0	0.51	ug/L		05/15/24 08:41	05/15/24 20:01	1
Nickel	ND		3.0	0.83	ug/L		05/15/24 08:41	05/15/24 20:01	1
Selenium	ND		5.0	1.0	ug/L		05/15/24 08:41	05/15/24 20:01	1
Silver	ND		0.50	0.045	ug/L		05/15/24 08:41	05/16/24 10:49	1
Zinc	16	B	10	2.0	ug/L		05/15/24 08:41	05/16/24 10:49	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL 001
Date Collected: 05/09/24 11:30
Date Received: 05/09/24 14:00

Lab Sample ID: 280-191254-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		05/21/24 16:46	05/21/24 23:45	1

General Chemistry

Client Sample ID: OUTFALL 001
Date Collected: 05/09/24 11:30
Date Received: 05/09/24 14:00

Lab Sample ID: 280-191254-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	180		2.0	2.0	umhos/cm			05/20/24 13:03	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			05/16/24 14:40	1
Chromium, hexavalent (SM 3500 CR B)	ND		20	4.0	ug/L			05/09/24 16:36	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			05/10/24 19:30	1
Temperature (SM 4500 H+ B)	19.6	HF	1.0	1.0	Degrees C			05/10/24 19:30	1

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Client Sample Results

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

Job ID: 280-191254-1

General Chemistry (Continued)

Client Sample ID: OUTFALL 001

Date Collected: 05/09/24 11:30

Date Received: 05/09/24 14:00

Lab Sample ID: 280-191254-1

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			05/13/24 18:04	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/13/24 19:35	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			05/13/24 19:35	1
Field Temperature (SM4500 S2 H)	20		1.0	1.0	Celsius			05/13/24 19:35	1
Specific Conductance (SM4500 S2 H)	180		2.0	2.0	umhos/cm			05/13/24 19:35	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			05/13/24 19:35	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL 001

Date Collected: 05/09/24 11:30

Date Received: 05/09/24 14:00

Lab Sample ID: 280-191254-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		20	20	ug/L			05/21/24 18:05	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL 001

Date Collected: 05/09/24 11:30

Date Received: 05/09/24 14:00

Lab Sample ID: 280-191254-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		20	4.0	ug/L			05/09/24 17:30	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL 001

Date Collected: 05/09/24 11:30

Date Received: 05/09/24 14:00

Lab Sample ID: 280-191254-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		20	20	ug/L			05/21/24 18:05	1

QC Sample Results

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

Job ID: 280-191254-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-652878/1-A
Matrix: Water
Analysis Batch: 653314

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 652878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		05/10/24 08:26	05/13/24 21:38	1

Lab Sample ID: LCS 280-652878/2-A
Matrix: Water
Analysis Batch: 653314

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 652878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10400		ug/L		104	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-652878/1-A
Matrix: Water
Analysis Batch: 653192

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 652878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		05/10/24 08:26	05/10/24 19:13	1
Chromium	ND		3.0	0.50	ug/L		05/10/24 08:26	05/10/24 19:13	1

Lab Sample ID: MB 280-652878/1-A
Matrix: Water
Analysis Batch: 653259

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 652878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		05/10/24 08:26	05/13/24 15:51	1
Copper	ND		2.0	0.71	ug/L		05/10/24 08:26	05/13/24 15:51	1
Lead	ND		1.0	0.23	ug/L		05/10/24 08:26	05/13/24 15:51	1
Zinc	ND		10	2.0	ug/L		05/10/24 08:26	05/13/24 15:51	1

Lab Sample ID: LCS 280-652878/23-A
Matrix: Water
Analysis Batch: 653192

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 652878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.2		ug/L		100	89 - 111
Chromium	40.0	40.0		ug/L		100	86 - 115

Lab Sample ID: LCS 280-652878/23-A
Matrix: Water
Analysis Batch: 653259

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 652878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	41.6		ug/L		104	89 - 111
Copper	40.0	44.8		ug/L		112	90 - 115
Lead	40.0	42.0		ug/L		105	88 - 115
Zinc	40.0	42.6		ug/L		107	88 - 115

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QC Sample Results

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

Job ID: 280-191254-1

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

Lab Sample ID: MB 280-653158/1-B

Matrix: Water

Analysis Batch: 653610

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 653348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		05/15/24 08:41	05/15/24 19:47	1
Copper	ND		2.0	0.71	ug/L		05/15/24 08:41	05/15/24 19:47	1
Manganese	ND		3.0	0.51	ug/L		05/15/24 08:41	05/15/24 19:47	1
Nickel	ND		3.0	0.83	ug/L		05/15/24 08:41	05/15/24 19:47	1
Selenium	ND		5.0	1.0	ug/L		05/15/24 08:41	05/15/24 19:47	1

Lab Sample ID: MB 280-653158/1-B

Matrix: Water

Analysis Batch: 653705

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 653348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		05/15/24 08:41	05/16/24 10:35	1
Chromium	0.596	J	3.0	0.50	ug/L		05/15/24 08:41	05/16/24 10:35	1
Silver	ND		0.50	0.045	ug/L		05/15/24 08:41	05/16/24 10:35	1
Zinc	3.13	J	10	2.0	ug/L		05/15/24 08:41	05/16/24 10:35	1

Lab Sample ID: LCS 280-653158/2-C

Matrix: Water

Analysis Batch: 653610

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 653348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	41.5		ug/L		104	89 - 111
Copper	40.0	42.5		ug/L		106	90 - 115
Manganese	40.0	42.7		ug/L		107	87 - 115
Nickel	40.0	43.5		ug/L		109	86 - 115
Selenium	40.0	41.0		ug/L		103	85 - 114

Lab Sample ID: LCS 280-653158/2-C

Matrix: Water

Analysis Batch: 653705

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 653348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.5		ug/L		101	89 - 111
Chromium	40.0	41.4		ug/L		103	86 - 115
Silver	40.0	38.1		ug/L		95	90 - 114
Zinc	40.0	41.3		ug/L		103	88 - 115

Lab Sample ID: MB 280-653158/1-C

Matrix: Water

Analysis Batch: 654099

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 653865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.23	ug/L		05/19/24 10:33	05/20/24 14:27	1

Lab Sample ID: LCS 280-653158/2-D

Matrix: Water

Analysis Batch: 654099

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 653865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	40.0	39.2		ug/L		98	88 - 115

Eurofins Denver

QC Sample Results

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

Job ID: 280-191254-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-654111/1-A
Matrix: Water
Analysis Batch: 654441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 654111

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		05/21/24 16:46	05/21/24 23:39	1

Lab Sample ID: LCS 280-654111/2-A
Matrix: Water
Analysis Batch: 654441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.34		ug/L		107	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-654070/4
Matrix: Water
Analysis Batch: 654070

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			05/20/24 13:03	1

Lab Sample ID: LCS 280-654070/3
Matrix: Water
Analysis Batch: 654070

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	1450		umhos/cm		103	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-653726/1
Matrix: Water
Analysis Batch: 653726

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			05/16/24 14:40	1

Lab Sample ID: LCS 280-653726/2
Matrix: Water
Analysis Batch: 653726

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	504	481		mg/L		96	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-652861/10
Matrix: Water
Analysis Batch: 652861

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		20	4.0	ug/L			05/09/24 16:36	1

Eurofins Denver

QC Sample Results

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

Job ID: 280-191254-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 280-652861/8

Matrix: Water

Analysis Batch: 652861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	100	103		ug/L		103	91 - 112

Lab Sample ID: LCSD 280-652861/9

Matrix: Water

Analysis Batch: 652861

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	100	104		ug/L		104	91 - 112	1	20

Lab Sample ID: 280-191254-1 MS

Matrix: Water

Analysis Batch: 652861

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		100	102		ug/L		102	91 - 112

Lab Sample ID: 280-191254-1 MSD

Matrix: Water

Analysis Batch: 652861

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		100	103		ug/L		103	91 - 112	1	20

Lab Sample ID: 280-191254-1 DU

Matrix: Water

Analysis Batch: 652861

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		ug/L		NC	20

Lab Sample ID: MB 280-652846/3-A

Matrix: Water

Analysis Batch: 652861

Client Sample ID: Method Blank

Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		20	4.0	ug/L			05/09/24 17:29	1

Lab Sample ID: LCS 280-652846/1-A

Matrix: Water

Analysis Batch: 652861

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	100	104		ug/L		104	91 - 112

Lab Sample ID: LCSD 280-652846/2-A

Matrix: Water

Analysis Batch: 652861

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	100	106		ug/L		106	91 - 112	2	20

Eurofins Denver

QC Sample Results

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

Job ID: 280-191254-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-191254-1 MS

Matrix: Water

Analysis Batch: 652861

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		100	105		ug/L		105	91 - 112		

Lab Sample ID: 280-191254-1 MSD

Matrix: Water

Analysis Batch: 652861

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		100	104		ug/L		104	91 - 112	1	20

Lab Sample ID: 280-191254-1 DU

Matrix: Water

Analysis Batch: 652861

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		ug/L				NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-653170/5

Matrix: Water

Analysis Batch: 653170

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		100	99 - 101		

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-653234/16

Matrix: Water

Analysis Batch: 653234

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			05/13/24 18:06	1

Lab Sample ID: LCS 280-653234/9

Matrix: Water

Analysis Batch: 653234

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	0.493		mg/L		99	81 - 122		

Lab Sample ID: LCSD 280-653234/15

Matrix: Water

Analysis Batch: 653234

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	0.483		mg/L		97	81 - 122	2	10

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QC Sample Results

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

Job ID: 280-191254-1

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

Lab Sample ID: 280-191254-1 MS
Matrix: Water
Analysis Batch: 653234

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		
Sulfide	ND		0.500	0.474		mg/L		95	81 - 122		

Lab Sample ID: 280-191254-1 MSD
Matrix: Water
Analysis Batch: 653234

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
Sulfide	ND		0.500	0.461		mg/L		92	81 - 122	3	10

QC Association Summary

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

Job ID: 280-191254-1

Metals

Prep Batch: 652878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total Recoverable	Water	200.7	
MB 280-652878/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-652878/23-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 280-652878/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Filtration Batch: 653158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-653158/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-653158/1-C	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-653158/2-C	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-653158/2-D	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Analysis Batch: 653192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total Recoverable	Water	200.8	652878
MB 280-652878/1-A	Method Blank	Total Recoverable	Water	200.8	652878
LCS 280-652878/23-A	Lab Control Sample	Total Recoverable	Water	200.8	652878

Analysis Batch: 653259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total Recoverable	Water	200.8	652878
MB 280-652878/1-A	Method Blank	Total Recoverable	Water	200.8	652878
LCS 280-652878/23-A	Lab Control Sample	Total Recoverable	Water	200.8	652878

Analysis Batch: 653314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total Recoverable	Water	200.7 Rev 4.4	652878
MB 280-652878/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	652878
LCS 280-652878/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	652878

Prep Batch: 653348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Potentially Dissolved	Water	200.8	653158
MB 280-653158/1-B	Method Blank	Potentially Dissolved	Water	200.8	653158
LCS 280-653158/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	653158

Analysis Batch: 653610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Potentially Dissolved	Water	200.8	653348
MB 280-653158/1-B	Method Blank	Potentially Dissolved	Water	200.8	653348
LCS 280-653158/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	653348

Analysis Batch: 653705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Potentially Dissolved	Water	200.8	653348
MB 280-653158/1-B	Method Blank	Potentially Dissolved	Water	200.8	653348
LCS 280-653158/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	653348

QC Association Summary

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

Job ID: 280-191254-1

Metals

Prep Batch: 653865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Potentially Dissolved	Water	200.8	653158
MB 280-653158/1-C	Method Blank	Potentially Dissolved	Water	200.8	653158
LCS 280-653158/2-D	Lab Control Sample	Potentially Dissolved	Water	200.8	653158

Analysis Batch: 654099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Potentially Dissolved	Water	200.8	653865
MB 280-653158/1-C	Method Blank	Potentially Dissolved	Water	200.8	653865
LCS 280-653158/2-D	Lab Control Sample	Potentially Dissolved	Water	200.8	653865

Prep Batch: 654111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total/NA	Water	245.1	
MB 280-654111/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-654111/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 654441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total/NA	Water	245.1	654111
MB 280-654111/1-A	Method Blank	Total/NA	Water	245.1	654111
LCS 280-654111/2-A	Lab Control Sample	Total/NA	Water	245.1	654111

General Chemistry

Filtration Batch: 652846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Dissolved	Water	FILTRATION	
MB 280-652846/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-652846/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-652846/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-191254-1 MS	OUTFALL 001	Dissolved	Water	FILTRATION	
280-191254-1 MSD	OUTFALL 001	Dissolved	Water	FILTRATION	
280-191254-1 DU	OUTFALL 001	Dissolved	Water	FILTRATION	

Analysis Batch: 652861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Dissolved	Water	SM 3500 CR B	652846
280-191254-1	OUTFALL 001	Total/NA	Water	SM 3500 CR B	
MB 280-652846/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	652846
MB 280-652861/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-652846/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	652846
LCS 280-652861/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-652846/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	652846
LCSD 280-652861/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-191254-1 MS	OUTFALL 001	Dissolved	Water	SM 3500 CR B	652846
280-191254-1 MS	OUTFALL 001	Total/NA	Water	SM 3500 CR B	
280-191254-1 MSD	OUTFALL 001	Dissolved	Water	SM 3500 CR B	652846
280-191254-1 MSD	OUTFALL 001	Total/NA	Water	SM 3500 CR B	
280-191254-1 DU	OUTFALL 001	Dissolved	Water	SM 3500 CR B	652846
280-191254-1 DU	OUTFALL 001	Total/NA	Water	SM 3500 CR B	

Eurofins Denver

QC Association Summary

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

Job ID: 280-191254-1

General Chemistry

Analysis Batch: 653170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total/NA	Water	SM 4500 H+ B	
LCS 280-653170/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 653234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total/NA	Water	SM 4500 S2 D	
MB 280-653234/16	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-653234/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-653234/15	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-191254-1 MS	OUTFALL 001	Total/NA	Water	SM 4500 S2 D	
280-191254-1 MSD	OUTFALL 001	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 653242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 653726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total/NA	Water	SM 2540D	
MB 280-653726/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-653726/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 654070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Total/NA	Water	SM 2510B	
MB 280-654070/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-654070/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 654299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191254-1	OUTFALL 001	Potentially Dissolved	Water	SM3500 CR B	
280-191254-1	OUTFALL 001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-191254-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-191254-1

Date Collected: 05/09/24 11:30

Matrix: Water

Date Received: 05/09/24 14:00

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	652878	05/10/24 08:26	KO	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			653314	05/13/24 22:35	NKC	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	653158	05/13/24 10:45	AES	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	653348	05/15/24 08:41	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			653610	05/15/24 20:01	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	653158	05/13/24 10:45	AES	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	653348	05/15/24 08:41	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			653705	05/16/24 10:49	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	653158	05/13/24 10:45	AES	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	653865	05/19/24 10:33	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			654099	05/20/24 14:35	LMT	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	652878	05/10/24 08:26	KO	EET DEN
Total Recoverable	Analysis	200.8		1			653192	05/10/24 19:41	LMT	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	652878	05/10/24 08:26	KO	EET DEN
Total Recoverable	Analysis	200.8		1			653259	05/13/24 16:21	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	654111	05/21/24 16:46	CAF	EET DEN
Total/NA	Analysis	245.1		1			654441	05/21/24 23:45	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			654070	05/20/24 13:03	AKF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	653726	05/16/24 14:40	MF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	652846	05/09/24 16:04	LL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	652861	05/09/24 17:30	LL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	652861	05/09/24 16:36	LL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			653170	05/10/24 19:30	AKF	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	653234	05/13/24 18:04	CLP	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			654299	05/21/24 18:05	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			654299	05/21/24 18:05	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			653242	05/13/24 19:35	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: 280-191254-1

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	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24 *
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	05-22-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	04-01-25
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	T104704183-23-23	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

Eurofins TestAmerica, Denver

4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record



Environment Testing
America

Client Information		Sampler: BM		Lab PM: Bieniulis, Dylan T		Carrier Tracking No(s):		COC No:																																						
Client Contact: Patrick Delaney		Phone: 303-506-1618		E-Mail: Dylan.Bieniulis@et.eurofinsus.com		State of Origin:		Page:																																						
Company: Grand Island Resources		PWSID:		Analysis Requested						Job #:																																				
Address: 12567 West Cedar Road Suite 250		Due Date Requested:		<table border="1"><tr><td rowspan="4">Field Filtered Sample (Yes or No)</td><td rowspan="4">Perform MS/MSD (Yes or No)</td><td rowspan="4">2510B - Specific Conductance, 2540D - TSS, SM4500_H+ - pH / Temp</td><td rowspan="4">3500_CR_B - Total Hexavalent Cr and Trivalent Cr (calc)</td><td rowspan="4">3500_CR_B - Dissolved Hexavalent Cr (LAB FILTER) and Potentially Dissolved Trivalent Cr (calc)</td><td rowspan="4">SM4500_S2_D - Sulfide and SM3500_S2_H - Unionized Hydrogen Sulfide (calc)</td><td rowspan="4">200.8 - Potentially Dissolved Metals (First half of the month permit list)</td><td rowspan="4">200.7 / 200.8 / 245.1 - Total Recoverable Metals and Mercury (First half of the month permit list)</td><td rowspan="4">Total Number of containers</td><td colspan="2">Preservation Codes:</td></tr><tr><td colspan="2">A - HCL M - Hexane</td></tr><tr><td colspan="2">B - NaOH N - None</td></tr><tr><td colspan="2">C - Zn Acetate O - AsNaO2</td></tr><tr><td colspan="2">D - Nitric Acid P - Na2O4S</td></tr><tr><td colspan="2">E - NaHSO4 Q - Na2SO3</td></tr><tr><td colspan="2">F - MeOH R - Na2S2O3</td></tr><tr><td colspan="2">G - Amchlor S - H2SO4</td></tr><tr><td colspan="2">H - Ascorbic Acid T - TSP Dodecahydrate</td></tr><tr><td colspan="2">I - Ice U - Acetone</td></tr><tr><td colspan="2">J - DI Water V - MCAA</td></tr><tr><td colspan="2">K - EDTA W - pH 4-5</td></tr><tr><td colspan="2">L - EDA Z - other (specify)</td></tr></table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2510B - Specific Conductance, 2540D - TSS, SM4500_H+ - pH / Temp	3500_CR_B - Total Hexavalent Cr and Trivalent Cr (calc)	3500_CR_B - Dissolved Hexavalent Cr (LAB FILTER) and Potentially Dissolved Trivalent Cr (calc)	SM4500_S2_D - Sulfide and SM3500_S2_H - Unionized Hydrogen Sulfide (calc)	200.8 - Potentially Dissolved Metals (First half of the month permit list)	200.7 / 200.8 / 245.1 - Total Recoverable Metals and Mercury (First half of the month permit list)	Total Number of containers	Preservation Codes:		A - HCL M - Hexane		B - NaOH N - None		C - Zn Acetate O - AsNaO2		D - Nitric Acid P - Na2O4S		E - NaHSO4 Q - Na2SO3		F - MeOH R - Na2S2O3		G - Amchlor S - H2SO4		H - Ascorbic Acid T - TSP Dodecahydrate		I - Ice U - Acetone		J - DI Water V - MCAA		K - EDTA W - pH 4-5		L - EDA Z - other (specify)		Other:	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2510B - Specific Conductance, 2540D - TSS, SM4500_H+ - pH / Temp	3500_CR_B - Total Hexavalent Cr and Trivalent Cr (calc)																3500_CR_B - Dissolved Hexavalent Cr (LAB FILTER) and Potentially Dissolved Trivalent Cr (calc)	SM4500_S2_D - Sulfide and SM3500_S2_H - Unionized Hydrogen Sulfide (calc)	200.8 - Potentially Dissolved Metals (First half of the month permit list)	200.7 / 200.8 / 245.1 - Total Recoverable Metals and Mercury (First half of the month permit list)	Total Number of containers	Preservation Codes:																						
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K - EDTA W - pH 4-5																																														
L - EDA Z - other (specify)																																														
City: Lakewood		TAT Requested (days):		Project Name: Nederland, CO		Project #: 28022821		Special Instructions/Note:																																						
State, Zip: CO, 80466		Compliance Project: ☐ Yes ☐ No		Site: First half of the month event		SSOW#:																																								
Phone: 315-414-6986		PO #: Advance Payment Required																																												
Email: pdelaney@blackfoxmining.com		WO #:																																												
Project Name: Nederland, CO		Project #: 28022821																																												
Site: First half of the month event		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)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		2510B - Specific Conductance, 2540D - TSS, SM4500_H+ - pH / Temp		3500_CR_B - Total Hexavalent Cr and Trivalent Cr (calc)		3500_CR_B - Dissolved Hexavalent Cr (LAB FILTER) and Potentially Dissolved Trivalent Cr (calc)		SM4500_S2_D - Sulfide and SM3500_S2_H - Unionized Hydrogen Sulfide (calc)		200.8 - Potentially Dissolved Metals (First half of the month permit list)		200.7 / 200.8 / 245.1 - Total Recoverable Metals and Mercury (First half of the month permit list)		Total Number of containers		Special Instructions/Note:																		
OUTFALL 001		5/9/24		11:30		G		W		N		N		N		N		CB		D		D								*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)																
																														pH = 7.5 temp = 6°C																
																														NO O2G																
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 1 Months		Special Instructions/QC Requirements:																																						
Deliverable Requested: I, II, III, IV, Other (specify)																																														
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																																								
Relinquished by: B. Moran		Date/Time: 5/9/24 12:06		Company: GIR		Received by: JP Brewer		Date/Time: 5/9/24 12:10		Company: GIR																																				
Relinquished by: Joan P. Brewer		Date/Time: 5/9/24 2:09pm		Company: GIR		Received by: JP		Date/Time: 5-9-24 14:00		Company: EEDEN																																				
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: 4.5°C NAGrA CF0.2																																								

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-191254-1

Login Number: 191254

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").	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 6/7/2024 3:21:42 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-191949-1

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



Generated
6/7/2024 3:21:42 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: 280-191949-1

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: Nederland, CO

Job ID: 280-191949-1

Job ID: 280-191949-1

Eurofins Denver

Job Narrative 280-191949-1

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.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

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

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt

The sample was received on 5/23/2024 3:55 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 6.6°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.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved

Sample OUTFALL 001 (280-191949-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 5/29/2024 and analyzed on 5/31/2024 and 6/1/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable

Sample OUTFALL 001 (280-191949-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 5/24/2024 and analyzed on 5/31/2024.

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Detection Summary

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

Job ID: 280-191949-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-191949-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.8	J	2.0	0.71	ug/L	1		200.8	Total
Lead	4.6		1.0	0.23	ug/L	1		200.8	Recoverable
Copper	1.5	J	2.0	0.71	ug/L	1		200.8	Total
Lead	3.8		1.0	0.23	ug/L	1		200.8	Recoverable
Zinc	18		10	2.0	ug/L	1		200.8	Potentially Dissolved
									Potentially Dissolved
									Potentially Dissolved

This Detection Summary does not include radiochemical test results.

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Method Summary

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

Job ID: 280-191949-1

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: 280-191949-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-191949-1	OUTFALL 001	Water	05/23/24 12:00	05/23/24 15:55

- 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: 280-191949-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL 001

Date Collected: 05/23/24 12:00

Date Received: 05/23/24 15:55

Lab Sample ID: 280-191949-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.8	J	2.0	0.71	ug/L		05/24/24 09:37	05/31/24 18:47	1
Lead	4.6		1.0	0.23	ug/L		05/24/24 09:37	05/31/24 18:47	1

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

Client Sample ID: OUTFALL 001

Date Collected: 05/23/24 12:00

Date Received: 05/23/24 15:55

Lab Sample ID: 280-191949-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		05/29/24 15:08	05/31/24 11:23	1
Copper	1.5	J	2.0	0.71	ug/L		05/29/24 15:08	05/31/24 11:23	1
Lead	3.8		1.0	0.23	ug/L		05/29/24 15:08	05/31/24 11:23	1
Silver	ND		0.50	0.045	ug/L		05/29/24 15:08	05/31/24 11:23	1
Zinc	18		10	2.0	ug/L		05/29/24 15:08	06/01/24 12:11	1

QC Sample Results

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

Job ID: 280-191949-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-654611/1-A
Matrix: Water
Analysis Batch: 655485

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 654611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		05/24/24 09:37	05/31/24 18:38	1
Lead	ND		1.0	0.23	ug/L		05/24/24 09:37	05/31/24 18:38	1

Lab Sample ID: LCS 280-654611/2-A
Matrix: Water
Analysis Batch: 655485

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 654611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	43.0		ug/L		108	90 - 115
Lead	40.0	41.7		ug/L		104	88 - 115

Lab Sample ID: LCSD 280-654611/3-A
Matrix: Water
Analysis Batch: 655485

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 654611

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	40.0	42.9		ug/L		107	90 - 115	0	20
Lead	40.0	42.1		ug/L		105	88 - 115	1	20

Lab Sample ID: MB 280-654951/1-B
Matrix: Water
Analysis Batch: 655434

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 654979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		05/29/24 15:08	05/31/24 10:48	1
Copper	ND		2.0	0.71	ug/L		05/29/24 15:08	05/31/24 10:48	1
Lead	ND		1.0	0.23	ug/L		05/29/24 15:08	05/31/24 10:48	1
Silver	ND		0.50	0.045	ug/L		05/29/24 15:08	05/31/24 10:48	1

Lab Sample ID: MB 280-654951/1-B
Matrix: Water
Analysis Batch: 655485

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 654979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		05/29/24 15:08	05/31/24 17:11	1

Lab Sample ID: LCS 280-654951/11-B
Matrix: Water
Analysis Batch: 655440

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 654979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	36.9		ug/L		92	89 - 111
Copper	40.0	40.8		ug/L		102	90 - 115
Lead	40.0	38.7		ug/L		97	88 - 115
Silver	40.0	36.7		ug/L		92	90 - 114

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QC Sample Results

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

Job ID: 280-191949-1

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

Lab Sample ID: LCS 280-654951/11-B				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Potentially Dissolved			
Analysis Batch: 655485				Prep Batch: 654979			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	43.1		ug/L		108	88 - 115

QC Association Summary

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

Job ID: 280-191949-1

Metals

Prep Batch: 654611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191949-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-654611/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-654611/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-654611/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Filtration Batch: 654726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191949-1	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	

Filtration Batch: 654951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-654951/1-B	Method Blank	Potentially Dissolved	Water	Filtration	
LCS 280-654951/11-B	Lab Control Sample	Potentially Dissolved	Water	Filtration	

Prep Batch: 654979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191949-1	OUTFALL 001	Potentially Dissolved	Water	200.8	654726
MB 280-654951/1-B	Method Blank	Potentially Dissolved	Water	200.8	654951
LCS 280-654951/11-B	Lab Control Sample	Potentially Dissolved	Water	200.8	654951

Analysis Batch: 655434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191949-1	OUTFALL 001	Potentially Dissolved	Water	200.8	654979
MB 280-654951/1-B	Method Blank	Potentially Dissolved	Water	200.8	654979

Analysis Batch: 655440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-654951/11-B	Lab Control Sample	Potentially Dissolved	Water	200.8	654979

Analysis Batch: 655485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191949-1	OUTFALL 001	Total Recoverable	Water	200.8	654611
MB 280-654611/1-A	Method Blank	Total Recoverable	Water	200.8	654611
MB 280-654951/1-B	Method Blank	Potentially Dissolved	Water	200.8	654979
LCS 280-654611/2-A	Lab Control Sample	Total Recoverable	Water	200.8	654611
LCS 280-654951/11-B	Lab Control Sample	Potentially Dissolved	Water	200.8	654979
LCSD 280-654611/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	654611

Analysis Batch: 655531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191949-1	OUTFALL 001	Potentially Dissolved	Water	200.8	654979

Lab Chronicle

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

Job ID: 280-191949-1

Client Sample ID: OUTFALL 001

Lab Sample ID: 280-191949-1

Date Collected: 05/23/24 12:00

Matrix: Water

Date Received: 05/23/24 15:55

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			150 mL	150 mL	654726	05/24/24 13:36	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	654979	05/29/24 15:08	AMH	EET DEN
Potentially Dissolved	Analysis	200.8		1			655434	05/31/24 11:23	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	654726	05/24/24 13:36	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	654979	05/29/24 15:08	AMH	EET DEN
Potentially Dissolved	Analysis	200.8		1			655531	06/01/24 12:11	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	654611	05/24/24 09:37	KO	EET DEN
Total Recoverable	Analysis	200.8		1			655485	05/31/24 18:47	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: 280-191949-1

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	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24 *
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	04-01-25
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	T104704183-23-23	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.

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Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-191949-1

Login Number: 191949

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

APPENDIX B.3 JUNE 2024 OUTFALL-001 ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/25/2024 11:25:22 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-192702-1

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



Generated
6/25/2024 11:25:22 AM

Authorized for release by
Dylan Bieniulis, Project Manager I
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(303)736-0138

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Definitions/Glossary

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

Job ID: 280-192702-1

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.
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: Nederland, CO

Job ID: 280-192702-1

Job ID: 280-192702-1

Eurofins Denver

Job Narrative 280-192702-1

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.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

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

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt

The sample was received on 6/12/2024 4:10 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 5.1°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.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Sample UTFALL-001 (280-192702-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 6/14/2024 and analyzed on 6/19/2024.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved

Sample UTFALL-001 (280-192702-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 6/17/2024 and analyzed on 6/19/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable

Sample UTFALL-001 (280-192702-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 6/14/2024 and analyzed on 6/17/2024.

Method 245.1 - Mercury (CVAA)

Sample UTFALL-001 (280-192702-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 6/17/2024.

Method SM 2510B - Conductivity, Specific Conductance

Sample UTFALL-001 (280-192702-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 6/17/2024.

Method SM 2540D - Solids, Total Suspended (TSS)

Sample UTFALL-001 (280-192702-1) was analyzed for Solids, Total Suspended (TSS). The sample was prepared on 6/14/2024 and analyzed on 6/14/2024, 6/17/2024 and 6/19/2024.

Method SM 3500 CR B - Chromium, Hexavalent

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Case Narrative

Client: Grand Island Resources
Project: Nederland, CO

Job ID: 280-192702-1

Job ID: 280-192702-1 (Continued)

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Sample OUTFALL-001 (280-192702-1) was analyzed for Chromium, Hexavalent. The sample was prepared on 6/14/2024 and analyzed on 6/12/2024 and 6/19/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Sample OUTFALL-001 (280-192702-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 6/12/2024.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved

Sample OUTFALL-001 (280-192702-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 6/24/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable

Sample OUTFALL-001 (280-192702-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 6/24/2024.

Method SM 4500 H+ B - pH

Sample OUTFALL-001 (280-192702-1) was analyzed for pH. The sample was analyzed on 6/14/2024.

Method SM 4500 S2 D - Sulfide, Total

Sample OUTFALL-001 (280-192702-1) was analyzed for Sulfide, Total. The sample was prepared on 6/14/2024 and analyzed on 6/14/2024 and 6/17/2024.

Method SM4500 S2 H - Unionized Hydrogen Sulfide

Sample OUTFALL-001 (280-192702-1) was analyzed for Unionized Hydrogen Sulfide. The sample was prepared on 6/14/2024 and analyzed on 6/17/2024, 6/18/2024 and 6/20/2024.

Eurofins Denver

Detection Summary

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

Job ID: 280-192702-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-192702-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	42	J B	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	1.7		1.0	0.23	ug/L	1			200.8	Total
Zinc	15		10	2.0	ug/L	1			200.8	Recoverable
Cadmium	0.31	J	1.0	0.19	ug/L	1			200.8	Total
Copper	2.3		2.0	0.71	ug/L	1			200.8	Recoverable
Lead	2.0		1.0	0.23	ug/L	1			200.8	Total
Manganese	0.58	J	3.0	0.51	ug/L	1			200.8	Recoverable
Silver	0.13	J	0.50	0.045	ug/L	1			200.8	Total
Zinc	30		10	2.0	ug/L	1			200.8	Recoverable
Specific Conductance	130		2.0	2.0	umhos/cm	1			SM 2510B	Potentially Dissolved
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1			SM 4500 H+ B	Total/NA
Temperature	21.3	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	21		1.0	1.0	Celsius	1			SM4500 S2 H	Total/NA
Specific Conductance	130		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: 280-192702-1

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: 280-192702-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-192702-1	OUTFALL-001	Water	06/12/24 10:30	06/12/24 16:10

- 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: 280-192702-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 06/12/24 10:30
Date Received: 06/12/24 16:10

Lab Sample ID: 280-192702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	42	J B	100	9.1	ug/L		06/14/24 15:10	06/19/24 04:23	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 06/12/24 10:30
Date Received: 06/12/24 16:10

Lab Sample ID: 280-192702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/14/24 15:10	06/17/24 18:52	1
Cadmium	ND		1.0	0.19	ug/L		06/14/24 15:10	06/17/24 18:52	1
Chromium	ND		3.0	0.50	ug/L		06/14/24 15:10	06/17/24 18:52	1
Copper	2.2		2.0	0.71	ug/L		06/14/24 15:10	06/17/24 18:52	1
Lead	1.7		1.0	0.23	ug/L		06/14/24 15:10	06/17/24 18:52	1
Zinc	15		10	2.0	ug/L		06/14/24 15:10	06/17/24 18:52	1

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

Client Sample ID: OUTFALL-001
Date Collected: 06/12/24 10:30
Date Received: 06/12/24 16:10

Lab Sample ID: 280-192702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/17/24 16:20	06/19/24 14:07	1
Cadmium	0.31	J	1.0	0.19	ug/L		06/17/24 16:20	06/19/24 14:07	1
Chromium	ND		3.0	0.50	ug/L		06/17/24 16:20	06/19/24 14:07	1
Copper	2.3		2.0	0.71	ug/L		06/17/24 16:20	06/19/24 14:07	1
Lead	2.0		1.0	0.23	ug/L		06/17/24 16:20	06/19/24 14:07	1
Manganese	0.58	J	3.0	0.51	ug/L		06/17/24 16:20	06/19/24 14:07	1
Nickel	ND		3.0	0.83	ug/L		06/17/24 16:20	06/19/24 14:07	1
Selenium	ND		5.0	1.0	ug/L		06/17/24 16:20	06/19/24 14:07	1
Silver	0.13	J	0.50	0.045	ug/L		06/17/24 16:20	06/19/24 14:07	1
Zinc	30		10	2.0	ug/L		06/17/24 16:20	06/19/24 14:07	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 06/12/24 10:30
Date Received: 06/12/24 16:10

Lab Sample ID: 280-192702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		06/17/24 17:17	06/17/24 22:06	1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 06/12/24 10:30
Date Received: 06/12/24 16:10

Lab Sample ID: 280-192702-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	130		2.0	2.0	umhos/cm			06/17/24 16:23	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			06/14/24 15:44	1
Chromium, hexavalent (SM 3500 CR B)	ND		20	4.0	ug/L			06/12/24 17:20	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			06/14/24 10:54	1
Temperature (SM 4500 H+ B)	21.3	HF	1.0	1.0	Degrees C			06/14/24 10:54	1

Eurofins Denver

Client Sample Results

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

Job ID: 280-192702-1

General Chemistry (Continued)

Client Sample ID: OUTFALL-001

Date Collected: 06/12/24 10:30

Date Received: 06/12/24 16:10

Lab Sample ID: 280-192702-1

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			06/14/24 15:54	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/18/24 03:57	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			06/18/24 03:57	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			06/18/24 03:57	1
Specific Conductance (SM4500 S2 H)	130		2.0	2.0	umhos/cm			06/18/24 03:57	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/18/24 03:57	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001

Date Collected: 06/12/24 10:30

Date Received: 06/12/24 16:10

Lab Sample ID: 280-192702-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		20	20	ug/L			06/24/24 11:13	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001

Date Collected: 06/12/24 10:30

Date Received: 06/12/24 16:10

Lab Sample ID: 280-192702-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	ND		20	4.0	ug/L			06/12/24 17:24	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001

Date Collected: 06/12/24 10:30

Date Received: 06/12/24 16:10

Lab Sample ID: 280-192702-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		20	20	ug/L			06/24/24 11:13	1

QC Sample Results

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

Job ID: 280-192702-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-656984/1-A
Matrix: Water
Analysis Batch: 657542

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 656984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	36.5	J	100	9.1	ug/L		06/14/24 15:10	06/19/24 03:40	1

Lab Sample ID: LCS 280-656984/2-A
Matrix: Water
Analysis Batch: 657542

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 656984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10400		ug/L		104	85 - 115

Lab Sample ID: 280-192702-1 MS
Matrix: Water
Analysis Batch: 657542

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 656984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	42	J B	10000	10900		ug/L		109	70 - 130

Lab Sample ID: 280-192702-1 MSD
Matrix: Water
Analysis Batch: 657542

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 656984

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	42	J B	10000	10800		ug/L		108	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-656984/1-A
Matrix: Water
Analysis Batch: 657348

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 656984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/14/24 15:10	06/17/24 18:34	1
Cadmium	ND		1.0	0.19	ug/L		06/14/24 15:10	06/17/24 18:34	1
Chromium	ND		3.0	0.50	ug/L		06/14/24 15:10	06/17/24 18:34	1
Copper	ND		2.0	0.71	ug/L		06/14/24 15:10	06/17/24 18:34	1
Lead	ND		1.0	0.23	ug/L		06/14/24 15:10	06/17/24 18:34	1
Zinc	ND		10	2.0	ug/L		06/14/24 15:10	06/17/24 18:34	1

Lab Sample ID: LCS 280-656984/25-A
Matrix: Water
Analysis Batch: 657348

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 656984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	37.5		ug/L		94	89 - 111
Cadmium	40.0	37.7		ug/L		94	89 - 111
Chromium	40.0	38.1		ug/L		95	86 - 115
Copper	40.0	38.4		ug/L		96	90 - 115
Lead	40.0	37.1		ug/L		93	88 - 115

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QC Sample Results

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

Job ID: 280-192702-1

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

Lab Sample ID: LCS 280-656984/25-A
Matrix: Water
Analysis Batch: 657426

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 656984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	36.1		ug/L		90	88 - 115

Lab Sample ID: 280-192702-1 MS
Matrix: Water
Analysis Batch: 657348

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 656984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	38.2		ug/L		95	79 - 120
Cadmium	ND		40.0	39.5		ug/L		99	89 - 111
Chromium	ND		40.0	38.6		ug/L		96	86 - 115
Copper	2.2		40.0	40.4		ug/L		96	90 - 115
Lead	1.7		40.0	39.8		ug/L		95	88 - 115
Zinc	15		40.0	54.3		ug/L		98	88 - 115

Lab Sample ID: 280-192702-1 MSD
Matrix: Water
Analysis Batch: 657348

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 656984

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	41.5		ug/L		104	79 - 120	8	20
Cadmium	ND		40.0	41.1		ug/L		103	89 - 111	4	20
Chromium	ND		40.0	40.8		ug/L		102	86 - 115	6	20
Copper	2.2		40.0	42.3		ug/L		100	90 - 115	4	20
Lead	1.7		40.0	42.0		ug/L		101	88 - 115	5	20
Zinc	15		40.0	54.2		ug/L		98	88 - 115	0	20

Lab Sample ID: MB 280-657132/1-B
Matrix: Water
Analysis Batch: 657620

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 657272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/17/24 16:20	06/19/24 13:49	1
Cadmium	ND		1.0	0.19	ug/L		06/17/24 16:20	06/19/24 13:49	1
Chromium	ND		3.0	0.50	ug/L		06/17/24 16:20	06/19/24 13:49	1
Copper	ND		2.0	0.71	ug/L		06/17/24 16:20	06/19/24 13:49	1
Lead	ND		1.0	0.23	ug/L		06/17/24 16:20	06/19/24 13:49	1
Manganese	ND		3.0	0.51	ug/L		06/17/24 16:20	06/19/24 13:49	1
Nickel	ND		3.0	0.83	ug/L		06/17/24 16:20	06/19/24 13:49	1
Selenium	ND		5.0	1.0	ug/L		06/17/24 16:20	06/19/24 13:49	1
Silver	ND		0.50	0.045	ug/L		06/17/24 16:20	06/19/24 13:49	1
Zinc	ND		10	2.0	ug/L		06/17/24 16:20	06/19/24 13:49	1

Lab Sample ID: LCS 280-657132/10-B
Matrix: Water
Analysis Batch: 657620

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 657272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.8		ug/L		102	89 - 111
Cadmium	40.0	40.3		ug/L		101	89 - 111

Eurofins Denver

QC Sample Results

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

Job ID: 280-192702-1

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

Lab Sample ID: LCS 280-657132/10-B
Matrix: Water
Analysis Batch: 657620

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 657272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	40.0	40.6		ug/L		101	86 - 115
Copper	40.0	41.2		ug/L		103	90 - 115
Lead	40.0	40.8		ug/L		102	88 - 115
Manganese	40.0	40.7		ug/L		102	87 - 115
Nickel	40.0	39.2		ug/L		98	86 - 115
Selenium	40.0	40.7		ug/L		102	85 - 114
Silver	40.0	39.7		ug/L		99	90 - 114
Zinc	40.0	41.4		ug/L		103	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-657319/1-A
Matrix: Water
Analysis Batch: 657466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		06/17/24 17:17	06/17/24 21:59	1

Lab Sample ID: LCS 280-657319/2-A
Matrix: Water
Analysis Batch: 657466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.02		ug/L		100	90 - 110

Lab Sample ID: LCSD 280-657319/3-A
Matrix: Water
Analysis Batch: 657466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 657319

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.95		ug/L		99	90 - 110	1	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-657322/4
Matrix: Water
Analysis Batch: 657322

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			06/17/24 16:23	1

Lab Sample ID: LCS 280-657322/3
Matrix: Water
Analysis Batch: 657322

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: 280-192702-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-657152/1
Matrix: Water
Analysis Batch: 657152

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			06/14/24 15:44	1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-656840/10
Matrix: Water
Analysis Batch: 656840

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		20	4.0	ug/L			06/12/24 17:20	1

Lab Sample ID: LCS 280-656840/8
Matrix: Water
Analysis Batch: 656840

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	100	102		ug/L		102	91 - 112

Lab Sample ID: LCSD 280-656840/9
Matrix: Water
Analysis Batch: 656840

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	100	105		ug/L		105	91 - 112	2	20

Lab Sample ID: 280-192702-1 MS
Matrix: Water
Analysis Batch: 656840

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		100	105		ug/L		105	91 - 112

Lab Sample ID: 280-192702-1 MSD
Matrix: Water
Analysis Batch: 656840

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		100	101		ug/L		101	91 - 112	3	20

Lab Sample ID: 280-192702-1 DU
Matrix: Water
Analysis Batch: 656840

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		ug/L		NC	20

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QC Sample Results

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

Job ID: 280-192702-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 280-656831/3-A
Matrix: Water
Analysis Batch: 656840

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		20	4.0	ug/L			06/12/24 17:24	1

Lab Sample ID: LCS 280-656831/1-A
Matrix: Water
Analysis Batch: 656840

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	100	102		ug/L		102	91 - 112

Lab Sample ID: LCSD 280-656831/2-A
Matrix: Water
Analysis Batch: 656840

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	100	103		ug/L		103	91 - 112	1	20

Lab Sample ID: 280-192702-1 MS
Matrix: Water
Analysis Batch: 656840

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		100	102		ug/L		102	91 - 112

Lab Sample ID: 280-192702-1 MSD
Matrix: Water
Analysis Batch: 656840

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		100	104		ug/L		104	91 - 112	2	20

Lab Sample ID: 280-192702-1 DU
Matrix: Water
Analysis Batch: 656840

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		4.44	J	ug/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-657134/5
Matrix: Water
Analysis Batch: 657134

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		100	99 - 101

QC Sample Results

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

Job ID: 280-192702-1

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-657167/11
Matrix: Water
Analysis Batch: 657167

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			06/14/24 15:51	1

Lab Sample ID: LCS 280-657167/9
Matrix: Water
Analysis Batch: 657167

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.501	0.507		mg/L		101	81 - 122

Lab Sample ID: LCSD 280-657167/10
Matrix: Water
Analysis Batch: 657167

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	0.501	0.503		mg/L		100	81 - 122	1	10

QC Association Summary

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

Job ID: 280-192702-1

Metals

Prep Batch: 656984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total Recoverable	Water	200.7	
280-192702-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-656984/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-656984/25-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 280-656984/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-192702-1 MS	OUTFALL-001	Total Recoverable	Water	200.7	
280-192702-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	
280-192702-1 MSD	OUTFALL-001	Total Recoverable	Water	200.7	
280-192702-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	

Filtration Batch: 657132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-657132/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-657132/10-B	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 657272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Potentially Dissolved	Water	200.8	657132
MB 280-657132/1-B	Method Blank	Potentially Dissolved	Water	200.8	657132
LCS 280-657132/10-B	Lab Control Sample	Potentially Dissolved	Water	200.8	657132

Prep Batch: 657319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-657319/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-657319/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 280-657319/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Analysis Batch: 657348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total Recoverable	Water	200.8	656984
MB 280-656984/1-A	Method Blank	Total Recoverable	Water	200.8	656984
LCS 280-656984/25-A	Lab Control Sample	Total Recoverable	Water	200.8	656984
280-192702-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	656984
280-192702-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	656984

Analysis Batch: 657426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-656984/25-A	Lab Control Sample	Total Recoverable	Water	200.8	656984

Analysis Batch: 657466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total/NA	Water	245.1	657319
MB 280-657319/1-A	Method Blank	Total/NA	Water	245.1	657319
LCS 280-657319/2-A	Lab Control Sample	Total/NA	Water	245.1	657319
LCSD 280-657319/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	657319

Analysis Batch: 657542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	656984

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QC Association Summary

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

Job ID: 280-192702-1

Metals (Continued)

Analysis Batch: 657542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-656984/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	656984
LCS 280-656984/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	656984
280-192702-1 MS	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	656984
280-192702-1 MSD	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	656984

Analysis Batch: 657620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Potentially Dissolved	Water	200.8	657272
MB 280-657132/1-B	Method Blank	Potentially Dissolved	Water	200.8	657272
LCS 280-657132/10-B	Lab Control Sample	Potentially Dissolved	Water	200.8	657272

General Chemistry

Filtration Batch: 656831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-656831/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-656831/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-656831/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-192702-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-192702-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-192702-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 656840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	656831
280-192702-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-656831/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	656831
MB 280-656840/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-656831/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	656831
LCS 280-656840/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-656831/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	656831
LCSD 280-656840/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-192702-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	656831
280-192702-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-192702-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	656831
280-192702-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-192702-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	656831
280-192702-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 657134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-657134/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 657152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-657152/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-657152/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Eurofins Denver

QC Association Summary

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

Job ID: 280-192702-1

General Chemistry

Analysis Batch: 657167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-657167/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-657167/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-657167/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 657322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-657322/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-657322/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 657337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 658107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192702-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	
280-192702-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-192702-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-192702-1

Date Collected: 06/12/24 10:30

Matrix: Water

Date Received: 06/12/24 16:10

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	656984	06/14/24 15:10	AES	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			657542	06/19/24 04:23	NKC	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	657132	06/13/24 13:28	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	657272	06/17/24 16:20	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			657620	06/19/24 14:07	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	656984	06/14/24 15:10	AES	EET DEN
Total Recoverable	Analysis	200.8		1			657348	06/17/24 18:52	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	657319	06/17/24 17:17	CAF	EET DEN
Total/NA	Analysis	245.1		1			657466	06/17/24 22:06	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			657322	06/17/24 16:23	AKF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	657152	06/14/24 15:44	MF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	656831	06/12/24 16:56	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	656840	06/12/24 17:24	CLP	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	656840	06/12/24 17:20	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			657134	06/14/24 10:54	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	657167	06/14/24 15:54	CLP	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			658107	06/24/24 11:13	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			658107	06/24/24 11:13	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			657337	06/18/24 03:57	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: 280-192702-1

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	04-01-25
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	T104704183-23-23	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.

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Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-192702-1

Login Number: 192702

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 7/10/2024 2:18:48 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-193445-1

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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7/10/2024 2:18:48 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: 280-193445-1

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.

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

Job ID: 280-193445-1

Job ID: 280-193445-1

Eurofins Denver

Job Narrative 280-193445-1

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.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

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

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt

The sample was received on 6/28/2024 1:45 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 1.8°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.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved

Sample OUTFALL 001 (280-193445-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 7/2/2024 and analyzed on 7/3/2024 and 7/4/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable

Sample OUTFALL 001 (280-193445-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 7/1/2024 and analyzed on 7/2/2024.

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Job ID: 280-193445-1

Lab Sample ID: 280-193445-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	1.4	J	2.0	0.71	ug/L	1			200.8	Total Recoverable
Lead	1.3		1.0	0.23	ug/L	1			200.8	Total Recoverable
Copper	0.97	J	2.0	0.71	ug/L	1			200.8	Potentially Dissolved
Lead	1.1		1.0	0.23	ug/L	1			200.8	Potentially Dissolved
Zinc	35	B	10	2.0	ug/L	1			200.8	Potentially Dissolved

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Method Summary

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

Job ID: 280-193445-1

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: 280-193445-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-193445-1	OUTFALL 001	Water	06/28/24 10:30	06/28/24 13:45

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Client Sample Results

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

Job ID: 280-193445-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL 001

Date Collected: 06/28/24 10:30

Date Received: 06/28/24 13:45

Lab Sample ID: 280-193445-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.4	J	2.0	0.71	ug/L		07/01/24 22:43	07/02/24 09:33	1
Lead	1.3		1.0	0.23	ug/L		07/01/24 22:43	07/02/24 09:33	1

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

Client Sample ID: OUTFALL 001

Date Collected: 06/28/24 10:30

Date Received: 06/28/24 13:45

Lab Sample ID: 280-193445-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		07/02/24 17:50	07/03/24 12:12	1
Copper	0.97	J	2.0	0.71	ug/L		07/02/24 17:50	07/03/24 12:12	1
Lead	1.1		1.0	0.23	ug/L		07/02/24 17:50	07/03/24 12:12	1
Silver	ND		0.50	0.045	ug/L		07/02/24 17:50	07/03/24 12:12	1
Zinc	35	B	10	2.0	ug/L		07/02/24 17:50	07/04/24 12:58	1

QC Sample Results

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

Job ID: 280-193445-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-658841/1-A
Matrix: Water
Analysis Batch: 659102

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 658841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		07/01/24 22:43	07/02/24 09:29	1
Lead	ND		1.0	0.23	ug/L		07/01/24 22:43	07/02/24 09:29	1

Lab Sample ID: LCS 280-658841/2-A
Matrix: Water
Analysis Batch: 659102

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 658841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	40.6		ug/L		101	90 - 115
Lead	40.0	37.5		ug/L		94	88 - 115

Lab Sample ID: MB 280-658976/1-B
Matrix: Water
Analysis Batch: 659252

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 658983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		07/02/24 17:50	07/03/24 10:43	1
Copper	ND		2.0	0.71	ug/L		07/02/24 17:50	07/03/24 10:43	1
Lead	ND		1.0	0.23	ug/L		07/02/24 17:50	07/03/24 10:43	1
Silver	ND		0.50	0.045	ug/L		07/02/24 17:50	07/03/24 10:43	1

Lab Sample ID: MB 280-658976/1-B
Matrix: Water
Analysis Batch: 659430

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 658983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.06	J	10	2.0	ug/L		07/02/24 17:50	07/04/24 12:46	1

Lab Sample ID: LCS 280-658976/25-B
Matrix: Water
Analysis Batch: 659252

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 658983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	37.2		ug/L		93	89 - 111
Copper	40.0	37.3		ug/L		93	90 - 115
Lead	40.0	39.0		ug/L		97	88 - 115
Silver	40.0	36.2		ug/L		91	90 - 114

Lab Sample ID: LCS 280-658976/25-B
Matrix: Water
Analysis Batch: 659430

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 658983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	44.4		ug/L		111	88 - 115

QC Association Summary

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

Job ID: 280-193445-1

Metals

Prep Batch: 658841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193445-1	OUTFALL 001	Total Recoverable	Water	200.8	
MB 280-658841/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-658841/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 658976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-658976/1-B	Method Blank	Potentially Dissolved	Water	Filtration	
LCS 280-658976/25-B	Lab Control Sample	Potentially Dissolved	Water	Filtration	

Filtration Batch: 658980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193445-1	OUTFALL 001	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 658983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193445-1	OUTFALL 001	Potentially Dissolved	Water	200.8	658980
MB 280-658976/1-B	Method Blank	Potentially Dissolved	Water	200.8	658976
LCS 280-658976/25-B	Lab Control Sample	Potentially Dissolved	Water	200.8	658976

Analysis Batch: 659102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193445-1	OUTFALL 001	Total Recoverable	Water	200.8	658841
MB 280-658841/1-A	Method Blank	Total Recoverable	Water	200.8	658841
LCS 280-658841/2-A	Lab Control Sample	Total Recoverable	Water	200.8	658841

Analysis Batch: 659252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-658976/1-B	Method Blank	Potentially Dissolved	Water	200.8	658983
LCS 280-658976/25-B	Lab Control Sample	Potentially Dissolved	Water	200.8	658983

Analysis Batch: 659268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193445-1	OUTFALL 001	Potentially Dissolved	Water	200.8	658983

Analysis Batch: 659430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193445-1	OUTFALL 001	Potentially Dissolved	Water	200.8	658983
MB 280-658976/1-B	Method Blank	Potentially Dissolved	Water	200.8	658983
LCS 280-658976/25-B	Lab Control Sample	Potentially Dissolved	Water	200.8	658983

Lab Chronicle

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

Job ID: 280-193445-1

Client Sample ID: **OUTFALL 001**
Date Collected: 06/28/24 10:30
Date Received: 06/28/24 13:45

Lab Sample ID: **280-193445-1**
Matrix: **Water**

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	658980	07/01/24 11:34	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658983	07/02/24 17:50	KLG	EET DEN
Potentially Dissolved	Analysis	200.8		1			659268	07/03/24 12:12	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	658980	07/01/24 11:34	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658983	07/02/24 17:50	KLG	EET DEN
Potentially Dissolved	Analysis	200.8		1			659430	07/04/24 12:58	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	658841	07/01/24 22:43	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			659102	07/02/24 09:33	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: 280-193445-1

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24 *
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	07-02-24 *
New York	NELAP	59923	04-01-25
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	T104704183-23-23	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	06-14-25
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		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact:		Lab PM:		Carrier Tracking No(s):		COC No:	
John Rinko		Bleniulis, Dylan T		Carrier Tracking No(s):		COC No:	
Company:		E-Mail:		State of Origin:		Page:	
Grand Island Resources		Dylan.Bleniulis@et.eurofinsus.com		State of Origin:		Page:	
Address:		PWSID:		Analysis Requested		Job #:	
12567 West Cedar Drive Suite 110				Due Date Requested:		Preservation Codes:	
City:		TAT Requested (days):		Compliance Project: ☐ Yes ☐ No		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:	
State, Zip:		PO #:		WO #:		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 Z - other (specify)	
Phone:		Project #:		SSOW#:			
Email:		28022821					
johnrinko@yahoo.com							
Project Name:		Sample Date		Sample Time		Sample Type	
Nederland, CO		06/28/24		10:30		G=grab	
Site:		Sample Date		Sample Time		Matrix	
second half of the month event		06/28/24		10:30		(W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Sample Identification		Sample Date		Sample Time		Sample Type	
OUTFALL 001		06/28/24		10:30		G=grab	
Preservation Code:		Sample Date		Sample Time		Matrix	
W N		06/28/24		10:30		(W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	
Total Number of containers		Sample Date		Sample Time		Sample Type	
2		06/28/24		10:30		G=grab	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	
Total Number of containers		Sample Date		Sample Time		Sample Type	
2		06/28/24		10:30		G=grab	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	
Total Number of containers		Sample Date		Sample Time		Sample Type	
2		06/28/24		10:30		G=grab	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	
Total Number of containers		Sample Date		Sample Time		Sample Type	
2		06/28/24		10:30		G=grab	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	
Total Number of containers		Sample Date		Sample Time		Sample Type	
2		06/28/24		10:30		G=grab	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	
Total Number of containers		Sample Date		Sample Time		Sample Type	
2		06/28/24		10:30		G=grab	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	
Total Number of containers		Sample Date		Sample Time		Sample Type	
2		06/28/24		10:30		G=grab	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	
Total Number of containers		Sample Date		Sample Time		Sample Type	
2		06/28/24		10:30		G=grab	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	
Total Number of containers		Sample Date		Sample Time		Sample Type	
2		06/28/24		10:30		G=grab	
Special Instructions/Note:		Sample Date		Sample Time		Sample Type	
*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)		06/28/24		10:30		G=grab	
*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)		06/28/24		10:30		G=grab	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-193445-1

Login Number: 193445

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/3/2024 11:15:37 AM

JOB DESCRIPTION

Nederland, CO - Surface Water

JOB NUMBER

280-192966-1

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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7/3/2024 11:15:37 AM

Authorized for release by
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Definitions/Glossary

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

Job ID: 280-192966-1

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
F1	MS and/or MSD recovery exceeds control limits.
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: Nederland, CO - Surface Water

Job ID: 280-192966-1

Job ID: 280-192966-1

Eurofins Denver

Job Narrative 280-192966-1

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.
- 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.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. 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.

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

If potentially dissolved silver by method 200.8 is requested for samples on the chain of custody, this report contains a client specific, custom reporting limit.

Receipt

The samples were received on 6/18/2024 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°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

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 2022-02 (280-192966-2). The two 500 mL Plastic Nitric Acid preserved and the 250 mL Plastic Zinc Acetate/Sodium Hydroxide container labels list 2022-01, while the COC lists 2022-02. The collection dates/times matched the COC. Logged the sample ID per the COC.

Method 1631E - Mercury, Low Level (CVAFS)

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Mercury, Low Level (CVAFS). The samples were prepared on 6/21/2024 and analyzed on 6/26/2024.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Metals (ICP) - Total Recoverable. The samples were prepared on 6/19/2024 and analyzed on 6/20/2024.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Metals (ICP/MS) - Potentially Dissolved. The samples were prepared on 6/25/2024 and 6/27/2024 and analyzed on 6/25/2024 and 6/28/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Metals (ICP/MS) - Total Recoverable. The samples were prepared on 6/19/2024 and 7/1/2024 and analyzed on 6/20/2024, 6/24/2024 and 7/2/2024.

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Case Narrative

Client: Grand Island Resources
Project: Nederland, CO - Surface Water

Job ID: 280-192966-1

Job ID: 280-192966-1 (Continued)

Eurofins Denver

The continuing calibration verification (CCV) associated with batch 280-657797 recovered above the upper control limit for Zinc. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 280-657797/102) and (MB 280-657510/1-A).

Method 245.1 - Mercury (CVAA)

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Mercury (CVAA). The samples were prepared on 6/25/2024 and analyzed on 6/25/2024 and 6/26/2024.

Method SM 2510B - Conductivity, Specific Conductance

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Conductivity, Specific Conductance. The samples were prepared on 6/19/2024 and analyzed on 6/19/2024 and 6/20/2024.

Method SM 2540D - Solids, Total Suspended (TSS)

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Solids, Total Suspended (TSS). The samples were analyzed on 6/19/2024 and 6/20/2024.

Method SM 3500 CR B - Chromium, Hexavalent

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Chromium, Hexavalent. The samples were analyzed on 6/18/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Chromium, Hexavalent - Dissolved. The samples were analyzed on 6/18/2024.

The matrix spike duplicate (MSD) recoveries for preparation batch 280-657474 and analytical batch 280-657486 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Chromium, Trivalent - Potentially Dissolved. The samples were analyzed on 6/26/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Chromium, Trivalent - Total Recoverable. The samples were analyzed on 6/26/2024.

Method SM 4500 H+ B - pH

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for pH. The samples were prepared on 6/19/2024 and analyzed on 6/19/2024, 6/20/2024 and 6/25/2024.

The following samples did not equilibrate to within 0.05 pH units after three measurements. This was observed in a previous analysis thus the sample was not rerun: 2022-02-03 (280-192966-4) and (280-192966-F-4 DU)

The sample duplicate (DUP) precision for analytical batch 280-658301 was outside control limits. Sample matrix interference is suspected.

Method SM 4500 S2 D - Sulfide, Total

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Sulfide, Total. The samples were analyzed on 6/20/2024.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-657817 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.

Method SM4500 S2 H - Unionized Hydrogen Sulfide

Samples 2022-01 (280-192966-1), 2022-02 (280-192966-2), 2022-02-02 (280-192966-3) and 2022-02-03 (280-192966-4) were analyzed for Unionized Hydrogen Sulfide. The samples were analyzed on 6/20/2024 and 6/26/2024.

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Detection Summary

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

Job ID: 280-192966-1

Client Sample ID: 2022-01

Lab Sample ID: 280-192966-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	4.3		0.50	0.20	ng/L	1		1631E	Total/NA
Iron	440	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Cadmium	0.25	J	1.0	0.19	ug/L	1		200.8	Total Recoverable
Copper	3.0		2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	2.2		1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	66		10	2.0	ug/L	1		200.8	Total Recoverable
Cadmium	0.23	J	1.0	0.19	ug/L	1		200.8	Potentially Dissolved
Copper	2.7		2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	2.1		1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Manganese	16		3.0	0.51	ug/L	1		200.8	Potentially Dissolved
Zinc	77		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	59		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	2.8	J	4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH adj. to 25 deg C	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.4	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.5		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	59		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02

Lab Sample ID: 280-192966-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	5.2		0.50	0.20	ng/L	1		1631E	Total/NA
Iron	780	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Copper	2.4		2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	0.33	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	2.5	J	10	2.0	ug/L	1		200.8	Total Recoverable
Copper	2.4		2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	0.32	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Manganese	32		3.0	0.51	ug/L	1		200.8	Potentially Dissolved
Zinc	16		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	99		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	2.8	J	4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH adj. to 25 deg C	7.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.4	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Field pH	7.8		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	99		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

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

Job ID: 280-192966-1

Client Sample ID: 2022-02-02

Lab Sample ID: 280-192966-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	5.3		0.50	0.20	ng/L	1		1631E	Total/NA
Iron	470	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Cadmium	0.22	J	1.0	0.19	ug/L	1		200.8	Total Recoverable
Copper	2.8		2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	2.1		1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	65		10	2.0	ug/L	1		200.8	Total Recoverable
Cadmium	0.30	J	1.0	0.19	ug/L	1		200.8	Potentially Dissolved
Copper	3.0		2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	2.0		1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Manganese	16		3.0	0.51	ug/L	1		200.8	Potentially Dissolved
Zinc	78		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	99		2.0	2.0	umhos/cm	1		SM 2510B	Total/NA
Total Suspended Solids	4.0		4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH adj. to 25 deg C	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.5	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	23		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	99		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

Client Sample ID: 2022-02-03

Lab Sample ID: 280-192966-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	15	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	10		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	3.5		2.0	2.0	umhos/cm	1		SM 2510B	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
Sulfide	0.027	J	0.050	0.022	mg/L	1		SM 4500 S2 D	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	3.5		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 - Surface Water

Job ID: 280-192966-1

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 - Surface Water

Job ID: 280-192966-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-192966-1	2022-01	Water	06/18/24 09:30	06/18/24 15:27
280-192966-2	2022-02	Water	06/18/24 09:00	06/18/24 15:27
280-192966-3	2022-02-02	Water	06/18/24 09:00	06/18/24 15:27
280-192966-4	2022-02-03	Water	06/18/24 09:00	06/18/24 15:27

- 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 - Surface Water

Job ID: 280-192966-1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.3		0.50	0.20	ng/L		06/21/24 16:30	06/26/24 15:39	1

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.2		0.50	0.20	ng/L		06/21/24 16:30	06/26/24 15:46	1

Client Sample ID: 2022-02-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.3		0.50	0.20	ng/L		06/21/24 16:30	06/26/24 15:54	1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		06/21/24 16:30	06/26/24 16:02	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	440	B	100	9.1	ug/L		06/19/24 14:06	06/20/24 20:25	1

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	780	B	100	9.1	ug/L		06/19/24 14:06	06/20/24 20:44	1

Client Sample ID: 2022-02-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	470	B	100	9.1	ug/L		06/19/24 14:06	06/20/24 20:48	1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15	J B	100	9.1	ug/L		06/19/24 14:06	06/20/24 20:52	1

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Client Sample Results

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

Job ID: 280-192966-1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/19/24 14:06	06/20/24 11:57	1
Cadmium	0.25	J	1.0	0.19	ug/L		06/19/24 14:06	06/20/24 11:57	1
Chromium	ND		3.0	0.50	ug/L		06/19/24 14:06	06/20/24 11:57	1
Copper	3.0		2.0	0.71	ug/L		07/01/24 22:43	07/02/24 11:00	1
Lead	2.2		1.0	0.23	ug/L		06/19/24 14:06	06/20/24 11:57	1
Zinc	66		10	2.0	ug/L		06/19/24 14:06	06/20/24 13:14	1

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/19/24 14:06	06/20/24 12:08	1
Cadmium	ND		1.0	0.19	ug/L		06/19/24 14:06	06/20/24 12:08	1
Chromium	ND		3.0	0.50	ug/L		06/19/24 14:06	06/20/24 12:08	1
Copper	2.4		2.0	0.71	ug/L		07/01/24 22:43	07/02/24 11:03	1
Lead	0.33	J	1.0	0.23	ug/L		06/19/24 14:06	06/20/24 12:08	1
Zinc	2.5	J	10	2.0	ug/L		06/19/24 14:06	06/20/24 13:25	1

Client Sample ID: 2022-02-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/19/24 14:06	06/20/24 12:15	1
Cadmium	0.22	J	1.0	0.19	ug/L		06/19/24 14:06	06/20/24 12:15	1
Chromium	ND		3.0	0.50	ug/L		06/19/24 14:06	06/20/24 12:15	1
Copper	2.8		2.0	0.71	ug/L		07/01/24 22:43	07/02/24 11:05	1
Lead	2.1		1.0	0.23	ug/L		06/19/24 14:06	06/20/24 12:15	1
Zinc	65		10	2.0	ug/L		06/19/24 14:06	06/24/24 17:58	1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/19/24 14:06	06/20/24 12:18	1
Cadmium	ND		1.0	0.19	ug/L		06/19/24 14:06	06/20/24 12:18	1
Chromium	ND		3.0	0.50	ug/L		06/19/24 14:06	06/20/24 12:18	1
Copper	ND		2.0	0.71	ug/L		07/01/24 22:43	07/02/24 11:07	1
Lead	ND		1.0	0.23	ug/L		06/19/24 14:06	06/20/24 12:18	1
Zinc	ND		10	2.0	ug/L		06/19/24 14:06	06/24/24 18:00	1

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

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/25/24 08:27	06/25/24 19:54	1
Cadmium	0.23	J	1.0	0.19	ug/L		06/25/24 08:27	06/25/24 19:54	1
Chromium	ND		3.0	0.50	ug/L		06/25/24 08:27	06/25/24 19:54	1
Copper	2.7		2.0	0.71	ug/L		06/25/24 08:27	06/25/24 19:54	1
Lead	2.1		1.0	0.23	ug/L		06/25/24 08:27	06/25/24 19:54	1

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Client Sample Results

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

Job ID: 280-192966-1

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

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	16		3.0	0.51	ug/L		06/25/24 08:27	06/25/24 19:54	1
Nickel	ND		3.0	0.83	ug/L		06/25/24 08:27	06/25/24 19:54	1
Selenium	ND		5.0	1.0	ug/L		06/25/24 08:27	06/25/24 19:54	1
Silver	ND		0.50	0.045	ug/L		06/25/24 08:27	06/25/24 19:54	1
Zinc	77		10	2.0	ug/L		06/27/24 14:53	06/28/24 07:48	1

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/25/24 08:27	06/25/24 19:57	1
Cadmium	ND		1.0	0.19	ug/L		06/25/24 08:27	06/25/24 19:57	1
Chromium	ND		3.0	0.50	ug/L		06/25/24 08:27	06/25/24 19:57	1
Copper	2.4		2.0	0.71	ug/L		06/25/24 08:27	06/25/24 19:57	1
Lead	0.32 J		1.0	0.23	ug/L		06/25/24 08:27	06/25/24 19:57	1
Manganese	32		3.0	0.51	ug/L		06/25/24 08:27	06/25/24 19:57	1
Nickel	ND		3.0	0.83	ug/L		06/25/24 08:27	06/25/24 19:57	1
Selenium	ND		5.0	1.0	ug/L		06/25/24 08:27	06/25/24 19:57	1
Silver	ND		0.50	0.045	ug/L		06/25/24 08:27	06/25/24 19:57	1
Zinc	16		10	2.0	ug/L		06/27/24 14:53	06/28/24 07:52	1

Client Sample ID: 2022-02-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/25/24 08:27	06/25/24 19:59	1
Cadmium	0.30 J		1.0	0.19	ug/L		06/25/24 08:27	06/25/24 19:59	1
Chromium	ND		3.0	0.50	ug/L		06/25/24 08:27	06/25/24 19:59	1
Copper	3.0		2.0	0.71	ug/L		06/25/24 08:27	06/25/24 19:59	1
Lead	2.0		1.0	0.23	ug/L		06/25/24 08:27	06/25/24 19:59	1
Manganese	16		3.0	0.51	ug/L		06/25/24 08:27	06/25/24 19:59	1
Nickel	ND		3.0	0.83	ug/L		06/25/24 08:27	06/25/24 19:59	1
Selenium	ND		5.0	1.0	ug/L		06/25/24 08:27	06/25/24 19:59	1
Silver	ND		0.50	0.045	ug/L		06/25/24 08:27	06/25/24 19:59	1
Zinc	78		10	2.0	ug/L		06/27/24 14:53	06/28/24 08:10	1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/25/24 08:27	06/25/24 20:01	1
Cadmium	ND		1.0	0.19	ug/L		06/25/24 08:27	06/25/24 20:01	1
Chromium	ND		3.0	0.50	ug/L		06/25/24 08:27	06/25/24 20:01	1
Copper	ND		2.0	0.71	ug/L		06/25/24 08:27	06/25/24 20:01	1
Lead	ND		1.0	0.23	ug/L		06/25/24 08:27	06/25/24 20:01	1
Manganese	ND		3.0	0.51	ug/L		06/25/24 08:27	06/25/24 20:01	1
Nickel	ND		3.0	0.83	ug/L		06/25/24 08:27	06/25/24 20:01	1
Selenium	ND		5.0	1.0	ug/L		06/25/24 08:27	06/25/24 20:01	1
Silver	ND		0.50	0.045	ug/L		06/25/24 08:27	06/25/24 20:01	1
Zinc	10		10	2.0	ug/L		06/27/24 14:53	06/28/24 08:13	1

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Client Sample Results

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

Job ID: 280-192966-1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		06/25/24 16:35	06/25/24 23:56	1

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		06/25/24 16:35	06/25/24 23:58	1

Client Sample ID: 2022-02-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		06/25/24 16:35	06/26/24 00:01	1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		06/25/24 16:35	06/26/24 00:03	1

General Chemistry

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	59		2.0	2.0	umhos/cm			06/19/24 11:24	1
Total Suspended Solids (SM 2540D)	2.8	J	4.0	1.1	mg/L			06/20/24 11:24	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			06/18/24 17:13	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.5	HF	0.1	0.1	SU			06/19/24 13:38	1
Temperature (SM 4500 H+ B)	22.4	HF	1.0	1.0	Degrees C			06/19/24 13:38	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			06/20/24 17:52	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/20/24 19:25	1
Field pH (SM4500 S2 H)	7.5		1.0	1.0	SU			06/20/24 19:25	1
Field Temperature (SM4500 S2 H)	22		1.0	1.0	Celsius			06/20/24 19:25	1
Specific Conductance (SM4500 S2 H)	59		2.0	2.0	umhos/cm			06/20/24 19:25	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/20/24 19:25	1

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	99		2.0	2.0	umhos/cm			06/19/24 11:24	1
Total Suspended Solids (SM 2540D)	2.8	J	4.0	1.1	mg/L			06/19/24 11:22	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			06/18/24 17:13	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.8	HF	0.1	0.1	SU			06/19/24 13:38	1

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Client Sample Results

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

Job ID: 280-192966-1

General Chemistry (Continued)

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature (SM 4500 H+ B)	22.4	HF	1.0	1.0	Degrees C			06/19/24 13:38	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			06/20/24 17:51	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/20/24 19:25	1
Field pH (SM4500 S2 H)	7.8		1.0	1.0	SU			06/20/24 19:25	1
Field Temperature (SM4500 S2 H)	22		1.0	1.0	Celsius			06/20/24 19:25	1
Specific Conductance (SM4500 S2 H)	99		2.0	2.0	umhos/cm			06/20/24 19:25	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/20/24 19:25	1

Client Sample ID: 2022-02-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	99		2.0	2.0	umhos/cm			06/19/24 11:24	1
Total Suspended Solids (SM 2540D)	4.0		4.0	1.1	mg/L			06/19/24 11:22	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			06/18/24 17:12	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			06/19/24 13:38	1
Temperature (SM 4500 H+ B)	22.5	HF	1.0	1.0	Degrees C			06/19/24 13:38	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			06/20/24 17:52	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/20/24 19:25	1
Field pH (SM4500 S2 H)	7.9		1.0	1.0	SU			06/20/24 19:25	1
Field Temperature (SM4500 S2 H)	23		1.0	1.0	Celsius			06/20/24 19:25	1
Specific Conductance (SM4500 S2 H)	99		2.0	2.0	umhos/cm			06/20/24 19:25	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/20/24 19:25	1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	3.5		2.0	2.0	umhos/cm			06/19/24 11:24	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			06/19/24 11:22	1
Chromium, hexavalent (SM 3500 CR B)	ND		0.020	0.0040	mg/L			06/18/24 17:12	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.3	HF	0.1	0.1	SU			06/25/24 10:35	1
Temperature (SM 4500 H+ B)	21.0	HF	1.0	1.0	Degrees C			06/25/24 10:35	1
Sulfide (SM 4500 S2 D)	0.027	J	0.050	0.022	mg/L			06/20/24 17:53	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/26/24 03:11	1
Field pH (SM4500 S2 H)	7.3		1.0	1.0	SU			06/26/24 03:11	1
Field Temperature (SM4500 S2 H)	21		1.0	1.0	Celsius			06/26/24 03:11	1
Specific Conductance (SM4500 S2 H)	3.5		2.0	2.0	umhos/cm			06/26/24 03:11	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			06/26/24 03:11	1

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Client Sample Results

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

Job ID: 280-192966-1

General Chemistry - Total Recoverable

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
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			06/26/24 09:30	1

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
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			06/26/24 09:30	1

Client Sample ID: 2022-02-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-3
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			06/26/24 09:30	1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
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			06/26/24 09:30	1

General Chemistry - Dissolved

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
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			06/18/24 17:38	1

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
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			06/18/24 17:36	1

Client Sample ID: 2022-02-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-3
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			06/18/24 17:35	1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
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			06/18/24 17:32	1

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Client Sample Results

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

Job ID: 280-192966-1

General Chemistry - Potentially Dissolved

Client Sample ID: 2022-01
Date Collected: 06/18/24 09:30
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1
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	-		06/26/24 09:30	1

Client Sample ID: 2022-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2
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	-		06/26/24 09:30	1

Client Sample ID: 2022-02-02
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-3
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	-		06/26/24 09:30	1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
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	-		06/26/24 09:30	1

QC Sample Results

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

Job ID: 280-192966-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-676057/3-A

Matrix: Water

Analysis Batch: 676162

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 676057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		06/25/24 16:00	06/26/24 10:16	1

Lab Sample ID: LCS 400-676057/4-A

Matrix: Water

Analysis Batch: 676162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 676057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.15		ng/L		103	79 - 121

Lab Sample ID: LCSD 400-676057/5-A

Matrix: Water

Analysis Batch: 676162

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 676057

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	5.00	5.05		ng/L		101	79 - 121	2	20

Lab Sample ID: 400-257375-Y-1-B MS

Matrix: Water

Analysis Batch: 676162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 676057

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	6.8		25.0	29.7		ng/L		91	71 - 125

Lab Sample ID: 400-257375-Y-1-C MSD

Matrix: Water

Analysis Batch: 676162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 676057

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	6.8		25.0	28.3		ng/L		86	71 - 125	5	24

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-657510/1-A

Matrix: Water

Analysis Batch: 657898

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 657510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11.6	J	100	9.1	ug/L		06/19/24 14:06	06/20/24 19:05	1

Lab Sample ID: LCS 280-657510/2-A

Matrix: Water

Analysis Batch: 657898

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 657510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10200		ug/L		102	85 - 115

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QC Sample Results

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

Job ID: 280-192966-1

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

Lab Sample ID: 280-192966-1 MS

Matrix: Water

Analysis Batch: 657898

Client Sample ID: 2022-01

Prep Type: Total Recoverable

Prep Batch: 657510

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Iron	440	B	10000	10600		ug/L		102	70 - 130	

Lab Sample ID: 280-192966-1 MSD

Matrix: Water

Analysis Batch: 657898

Client Sample ID: 2022-01

Prep Type: Total Recoverable

Prep Batch: 657510

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	440	B	10000	10600		ug/L		102	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 280-192943-A-3-B MS

Matrix: Water

Analysis Batch: 659102

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 658982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Copper	2.3		40.0	42.1		ug/L		99	90 - 115	

Lab Sample ID: 280-192943-A-3-C MSD

Matrix: Water

Analysis Batch: 659102

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 658982

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Copper	2.3		40.0	42.8		ug/L		101	90 - 115	2	20

Lab Sample ID: MB 280-657510/1-A

Matrix: Water

Analysis Batch: 657797

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 657510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/19/24 14:06	06/20/24 11:48	1
Cadmium	ND		1.0	0.19	ug/L		06/19/24 14:06	06/20/24 11:48	1
Chromium	ND		3.0	0.50	ug/L		06/19/24 14:06	06/20/24 11:48	1
Lead	ND		1.0	0.23	ug/L		06/19/24 14:06	06/20/24 11:48	1

Lab Sample ID: MB 280-657510/1-A

Matrix: Water

Analysis Batch: 658201

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 657510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		06/19/24 14:06	06/24/24 17:42	1

Lab Sample ID: LCS 280-657510/25-A

Matrix: Water

Analysis Batch: 657797

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 657510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Arsenic	40.0	42.0		ug/L		105	89 - 111	
Cadmium	40.0	40.1		ug/L		100	89 - 111	
Chromium	40.0	41.7		ug/L		104	86 - 115	

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QC Sample Results

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

Job ID: 280-192966-1

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

Lab Sample ID: LCS 280-657510/25-A
Matrix: Water
Analysis Batch: 657797

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 657510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	40.0	40.7		ug/L		102	88 - 115

Lab Sample ID: LCS 280-657510/25-A
Matrix: Water
Analysis Batch: 657797

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 657510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	41.8		ug/L		105	88 - 115

Lab Sample ID: LCS 280-657510/25-A
Matrix: Water
Analysis Batch: 658201

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 657510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	42.9		ug/L		107	88 - 115

Lab Sample ID: 280-192966-1 MS
Matrix: Water
Analysis Batch: 657797

Client Sample ID: 2022-01
Prep Type: Total Recoverable
Prep Batch: 657510

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	41.1		ug/L		103	79 - 120
Cadmium	0.19	J	40.0	40.2		ug/L		100	89 - 111
Chromium	ND		40.0	41.6		ug/L		104	86 - 115
Lead	2.2		40.0	43.1		ug/L		102	88 - 115

Lab Sample ID: 280-192966-1 MS
Matrix: Water
Analysis Batch: 657797

Client Sample ID: 2022-01
Prep Type: Total Recoverable
Prep Batch: 657510

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	66		40.0	107		ug/L		103	88 - 115

Lab Sample ID: 280-192966-1 MSD
Matrix: Water
Analysis Batch: 657797

Client Sample ID: 2022-01
Prep Type: Total Recoverable
Prep Batch: 657510

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	42.6		ug/L		106	79 - 120	3	20
Cadmium	0.19	J	40.0	40.9		ug/L		102	89 - 111	2	20
Chromium	ND		40.0	41.8		ug/L		105	86 - 115	0	20
Lead	2.2		40.0	43.7		ug/L		104	88 - 115	1	20

Lab Sample ID: 280-192966-1 MSD
Matrix: Water
Analysis Batch: 657797

Client Sample ID: 2022-01
Prep Type: Total Recoverable
Prep Batch: 657510

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	66		40.0	103		ug/L		93	88 - 115	4	20

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QC Sample Results

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

Job ID: 280-192966-1

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

Lab Sample ID: MB 280-658982/1-A

Matrix: Water

Analysis Batch: 659102

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 658982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		07/01/24 22:43	07/02/24 10:53	1

Lab Sample ID: LCS 280-658982/2-A

Matrix: Water

Analysis Batch: 659102

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 658982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	37.9		ug/L		95	90 - 115

Lab Sample ID: MB 280-657132/1-C

Matrix: Water

Analysis Batch: 658372

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 658116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		06/25/24 08:27	06/25/24 19:47	1
Cadmium	ND		1.0	0.19	ug/L		06/25/24 08:27	06/25/24 19:47	1
Chromium	ND		3.0	0.50	ug/L		06/25/24 08:27	06/25/24 19:47	1
Copper	ND		2.0	0.71	ug/L		06/25/24 08:27	06/25/24 19:47	1
Lead	ND		1.0	0.23	ug/L		06/25/24 08:27	06/25/24 19:47	1
Manganese	ND		3.0	0.51	ug/L		06/25/24 08:27	06/25/24 19:47	1
Nickel	ND		3.0	0.83	ug/L		06/25/24 08:27	06/25/24 19:47	1
Selenium	ND		5.0	1.0	ug/L		06/25/24 08:27	06/25/24 19:47	1
Silver	ND		0.50	0.045	ug/L		06/25/24 08:27	06/25/24 19:47	1

Lab Sample ID: LCS 280-657132/10-C

Matrix: Water

Analysis Batch: 658372

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 658116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	39.0		ug/L		98	89 - 111
Cadmium	40.0	37.4		ug/L		94	89 - 111
Chromium	40.0	41.1		ug/L		103	86 - 115
Copper	40.0	40.4		ug/L		101	90 - 115
Lead	40.0	38.4		ug/L		96	88 - 115
Manganese	40.0	40.2		ug/L		101	87 - 115
Nickel	40.0	39.4		ug/L		98	86 - 115
Selenium	40.0	42.1		ug/L		105	85 - 114
Silver	40.0	37.8		ug/L		95	90 - 114

Lab Sample ID: 280-193107-A-1-E MS

Matrix: Water

Analysis Batch: 658372

Client Sample ID: Matrix Spike

Prep Type: Potentially Dissolved

Prep Batch: 658116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	44.2		ug/L		110	79 - 120
Cadmium	ND		40.0	41.5		ug/L		104	89 - 111
Chromium	ND		40.0	44.9		ug/L		112	86 - 115
Copper	1.8	J	40.0	44.6		ug/L		107	90 - 115
Lead	ND		40.0	42.0		ug/L		105	88 - 115

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QC Sample Results

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

Job ID: 280-192966-1

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

Lab Sample ID: 280-193107-A-1-E MS

Matrix: Water

Analysis Batch: 658372

Client Sample ID: Matrix Spike

Prep Type: Potentially Dissolved

Prep Batch: 658116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	12		40.0	55.9		ug/L		109	87 - 115
Nickel	1.0	J	40.0	42.4		ug/L		104	86 - 115
Selenium	2.7	J	40.0	45.1		ug/L		106	85 - 114
Silver	ND		40.0	40.1		ug/L		100	70 - 130

Lab Sample ID: 280-193107-A-1-F MSD

Matrix: Water

Analysis Batch: 658372

Client Sample ID: Matrix Spike Duplicate

Prep Type: Potentially Dissolved

Prep Batch: 658116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	44.6		ug/L		112	79 - 120	1	20
Cadmium	ND		40.0	39.6		ug/L		99	89 - 111	5	20
Chromium	ND		40.0	44.3		ug/L		111	86 - 115	1	20
Copper	1.8	J	40.0	44.4		ug/L		107	90 - 115	0	20
Lead	ND		40.0	41.7		ug/L		104	88 - 115	1	20
Manganese	12		40.0	54.8		ug/L		106	87 - 115	2	20
Nickel	1.0	J	40.0	42.1		ug/L		103	86 - 115	1	20
Selenium	2.7	J	40.0	43.4		ug/L		102	85 - 114	4	20
Silver	ND		40.0	39.0		ug/L		98	70 - 130	3	20

Lab Sample ID: MB 280-657132/1-D

Matrix: Water

Analysis Batch: 658774

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

Prep Batch: 658569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		06/27/24 14:53	06/28/24 07:38	1

Lab Sample ID: LCS 280-657132/2-C

Matrix: Water

Analysis Batch: 658774

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Prep Batch: 658569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	44.8		ug/L		112	88 - 115

Lab Sample ID: 280-192966-2 MS

Matrix: Water

Analysis Batch: 658774

Client Sample ID: 2022-02

Prep Type: Potentially Dissolved

Prep Batch: 658569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	16		40.0	60.5		ug/L		110	88 - 115

Lab Sample ID: 280-192966-2 MSD

Matrix: Water

Analysis Batch: 658774

Client Sample ID: 2022-02

Prep Type: Potentially Dissolved

Prep Batch: 658569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	16		40.0	58.4		ug/L		105	88 - 115	4	20

Eurofins Denver

QC Sample Results

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

Job ID: 280-192966-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-658305/1-A

Matrix: Water

Analysis Batch: 658474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 658305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		06/25/24 16:35	06/25/24 23:05	1

Lab Sample ID: LCS 280-658305/2-A

Matrix: Water

Analysis Batch: 658474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 658305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.03		ug/L		101	90 - 110

Lab Sample ID: 280-192691-A-3-C MS

Matrix: Water

Analysis Batch: 658474

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 658305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		5.00	4.97		ug/L		99	80 - 120

Lab Sample ID: 280-192691-A-3-D MSD

Matrix: Water

Analysis Batch: 658474

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 658305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		5.00	5.08		ug/L		102	80 - 120	2	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-657577/4

Matrix: Water

Analysis Batch: 657577

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			06/19/24 11:24	1

Lab Sample ID: LCS 280-657577/3

Matrix: Water

Analysis Batch: 657577

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	1440		umhos/cm		102	90 - 110

Lab Sample ID: 280-192919-B-2 DU

Matrix: Water

Analysis Batch: 657577

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	3000		2960		umhos/cm		0.07	10

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QC Sample Results

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

Job ID: 280-192966-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-657576/1

Matrix: Water

Analysis Batch: 657576

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			06/19/24 11:22	1

Lab Sample ID: LCS 280-657576/2

Matrix: Water

Analysis Batch: 657576

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	500	456		mg/L		91	79 - 114

Lab Sample ID: 280-192968-A-2 DU

Matrix: Water

Analysis Batch: 657576

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	52		50.0		mg/L		4	10

Lab Sample ID: MB 280-657736/1

Matrix: Water

Analysis Batch: 657736

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			06/20/24 11:24	1

Lab Sample ID: LCS 280-657736/2

Matrix: Water

Analysis Batch: 657736

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	500	465		mg/L		93	79 - 114

Lab Sample ID: 280-193023-B-1 DU

Matrix: Water

Analysis Batch: 657736

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	2.4	J	2.40	J	mg/L		0	10

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-657486/10

Matrix: Water

Analysis Batch: 657486

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			06/18/24 17:09	1

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QC Sample Results

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

Job ID: 280-192966-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 280-657486/8

Matrix: Water

Analysis Batch: 657486

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 280-657486/9

Matrix: Water

Analysis Batch: 657486

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: 280-192958-A-3 MS

Matrix: Water

Analysis Batch: 657486

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
Chromium, hexavalent	ND		0.100	0.0987		mg/L		99	91 - 112

Lab Sample ID: 280-192958-A-3 MSD

Matrix: Water

Analysis Batch: 657486

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
Chromium, hexavalent	ND		0.100	0.107		mg/L		107	91 - 112	8	20

Lab Sample ID: 280-192958-A-3 DU

Matrix: Water

Analysis Batch: 657486

Client Sample ID: Duplicate

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 280-657474/3-A

Matrix: Water

Analysis Batch: 657486

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			06/18/24 17:31	1

Lab Sample ID: LCS 280-657474/1-A

Matrix: Water

Analysis Batch: 657486

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	0.104		mg/L		104	91 - 112

Lab Sample ID: LCSD 280-657474/2-A

Matrix: Water

Analysis Batch: 657486

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	0.104		mg/L		104	91 - 112	1	20

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QC Sample Results

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

Job ID: 280-192966-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-192966-4 MS

Matrix: Water

Analysis Batch: 657486

Client Sample ID: 2022-02-03

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chromium, hexavalent	ND	F1	0.100	0.105		mg/L		105	91 - 112	

Lab Sample ID: 280-192966-4 MSD

Matrix: Water

Analysis Batch: 657486

Client Sample ID: 2022-02-03

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	F1	0.100	0.113	F1	mg/L		113	91 - 112	7	20

Lab Sample ID: 280-192966-4 DU

Matrix: Water

Analysis Batch: 657486

Client Sample ID: 2022-02-03

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND	F1		ND		mg/L				NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-657601/4

Matrix: Water

Analysis Batch: 657601

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		100	99 - 101	

Lab Sample ID: 280-192718-J-1 DU

Matrix: Water

Analysis Batch: 657601

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	RPD Limit
pH adj. to 25 deg C	7.9			7.9		SU			0.3	5
Temperature	21.9			21.2		Degrees C			3	10

Lab Sample ID: LCS 280-658301/5

Matrix: Water

Analysis Batch: 658301

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		100	99 - 101	

Lab Sample ID: 280-192966-4 DU

Matrix: Water

Analysis Batch: 658301

Client Sample ID: 2022-02-03

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		6.9	F3	SU			6	5
Temperature	21.0	HF		20.8		Degrees C			1	10

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QC Sample Results

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

Job ID: 280-192966-1

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-657817/11

Matrix: Water

Analysis Batch: 657817

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			06/20/24 17:50	1

Lab Sample ID: LCS 280-657817/33

Matrix: Water

Analysis Batch: 657817

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 280-657817/34

Matrix: Water

Analysis Batch: 657817

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	0.517		mg/L		103	81 - 122	6	10

Lab Sample ID: 280-192987-D-1 MS

Matrix: Water

Analysis Batch: 657817

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
Sulfide	0.20	F1	0.500	0.482	F1	mg/L		57	81 - 122

Lab Sample ID: 280-192987-D-1 MSD

Matrix: Water

Analysis Batch: 657817

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
Sulfide	0.20	F1	0.500	0.479	F1	mg/L		56	81 - 122	0	10

Lab Sample ID: 280-193060-H-1 MS

Matrix: Water

Analysis Batch: 657817

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
Sulfide	ND		0.500	0.466		mg/L		93	81 - 122

Lab Sample ID: 280-193060-H-1 MSD

Matrix: Water

Analysis Batch: 657817

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
Sulfide	ND		0.500	0.491		mg/L		98	81 - 122	5	10

Eurofins Denver

QC Association Summary

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

Job ID: 280-192966-1

Metals

Filtration Batch: 657132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-657132/1-C	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-657132/1-D	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-657132/10-C	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-657132/2-C	Lab Control Sample	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 657510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total Recoverable	Water	200.7	
280-192966-1	2022-01	Total Recoverable	Water	200.8	
280-192966-2	2022-02	Total Recoverable	Water	200.8	
280-192966-3	2022-02-02	Total Recoverable	Water	200.8	
280-192966-4	2022-02-03	Total Recoverable	Water	200.8	
MB 280-657510/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-657510/25-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-657510/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-192966-1 MS	2022-01	Total Recoverable	Water	200.7	
280-192966-1 MS	2022-01	Total Recoverable	Water	200.8	
280-192966-1 MSD	2022-01	Total Recoverable	Water	200.7	
280-192966-1 MSD	2022-01	Total Recoverable	Water	200.8	

Filtration Batch: 657612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Potentially Dissolved	Water	Poten_Diss_Met	
280-192966-2	2022-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-192966-3	2022-02-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-192966-4	2022-02-03	Potentially Dissolved	Water	Poten_Diss_Met	
280-192966-2 MS	2022-02	Potentially Dissolved	Water	Poten_Diss_Met	
280-192966-2 MSD	2022-02	Potentially Dissolved	Water	Poten_Diss_Met	

Analysis Batch: 657797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total Recoverable	Water	200.8	657510
280-192966-1	2022-01	Total Recoverable	Water	200.8	657510
280-192966-2	2022-02	Total Recoverable	Water	200.8	657510
280-192966-2	2022-02	Total Recoverable	Water	200.8	657510
280-192966-3	2022-02-02	Total Recoverable	Water	200.8	657510
280-192966-4	2022-02-03	Total Recoverable	Water	200.8	657510
MB 280-657510/1-A	Method Blank	Total Recoverable	Water	200.8	657510
LCS 280-657510/25-A	Lab Control Sample	Total Recoverable	Water	200.8	657510
LCS 280-657510/25-A	Lab Control Sample	Total Recoverable	Water	200.8	657510
280-192966-1 MS	2022-01	Total Recoverable	Water	200.8	657510
280-192966-1 MS	2022-01	Total Recoverable	Water	200.8	657510
280-192966-1 MSD	2022-01	Total Recoverable	Water	200.8	657510
280-192966-1 MSD	2022-01	Total Recoverable	Water	200.8	657510

Analysis Batch: 657898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total Recoverable	Water	200.7 Rev 4.4	657510
280-192966-2	2022-02	Total Recoverable	Water	200.7 Rev 4.4	657510
280-192966-3	2022-02-02	Total Recoverable	Water	200.7 Rev 4.4	657510
280-192966-4	2022-02-03	Total Recoverable	Water	200.7 Rev 4.4	657510

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QC Association Summary

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

Job ID: 280-192966-1

Metals (Continued)

Analysis Batch: 657898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-657510/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	657510
LCS 280-657510/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	657510
280-192966-1 MS	2022-01	Total Recoverable	Water	200.7 Rev 4.4	657510
280-192966-1 MSD	2022-01	Total Recoverable	Water	200.7 Rev 4.4	657510

Filtration Batch: 657977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193107-A-1-E MS	Matrix Spike	Potentially Dissolved	Water	Poten_Diss_Met	
280-193107-A-1-F MSD	Matrix Spike Duplicate	Potentially Dissolved	Water	Poten_Diss_Met	

Prep Batch: 658116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Potentially Dissolved	Water	200.8	657612
280-192966-2	2022-02	Potentially Dissolved	Water	200.8	657612
280-192966-3	2022-02-02	Potentially Dissolved	Water	200.8	657612
280-192966-4	2022-02-03	Potentially Dissolved	Water	200.8	657612
MB 280-657132/1-C	Method Blank	Potentially Dissolved	Water	200.8	657132
LCS 280-657132/10-C	Lab Control Sample	Potentially Dissolved	Water	200.8	657132
280-193107-A-1-E MS	Matrix Spike	Potentially Dissolved	Water	200.8	657977
280-193107-A-1-F MSD	Matrix Spike Duplicate	Potentially Dissolved	Water	200.8	657977

Analysis Batch: 658201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-3	2022-02-02	Total Recoverable	Water	200.8	657510
280-192966-4	2022-02-03	Total Recoverable	Water	200.8	657510
MB 280-657510/1-A	Method Blank	Total Recoverable	Water	200.8	657510
LCS 280-657510/25-A	Lab Control Sample	Total Recoverable	Water	200.8	657510

Prep Batch: 658305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total/NA	Water	245.1	
280-192966-2	2022-02	Total/NA	Water	245.1	
280-192966-3	2022-02-02	Total/NA	Water	245.1	
280-192966-4	2022-02-03	Total/NA	Water	245.1	
MB 280-658305/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-658305/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-192691-A-3-C MS	Matrix Spike	Total/NA	Water	245.1	
280-192691-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 658372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Potentially Dissolved	Water	200.8	658116
280-192966-2	2022-02	Potentially Dissolved	Water	200.8	658116
280-192966-3	2022-02-02	Potentially Dissolved	Water	200.8	658116
280-192966-4	2022-02-03	Potentially Dissolved	Water	200.8	658116
MB 280-657132/1-C	Method Blank	Potentially Dissolved	Water	200.8	658116
LCS 280-657132/10-C	Lab Control Sample	Potentially Dissolved	Water	200.8	658116
280-193107-A-1-E MS	Matrix Spike	Potentially Dissolved	Water	200.8	658116
280-193107-A-1-F MSD	Matrix Spike Duplicate	Potentially Dissolved	Water	200.8	658116

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QC Association Summary

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

Job ID: 280-192966-1

Metals

Analysis Batch: 658474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total/NA	Water	245.1	658305
280-192966-2	2022-02	Total/NA	Water	245.1	658305
280-192966-3	2022-02-02	Total/NA	Water	245.1	658305
280-192966-4	2022-02-03	Total/NA	Water	245.1	658305
MB 280-658305/1-A	Method Blank	Total/NA	Water	245.1	658305
LCS 280-658305/2-A	Lab Control Sample	Total/NA	Water	245.1	658305
280-192691-A-3-C MS	Matrix Spike	Total/NA	Water	245.1	658305
280-192691-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	658305

Prep Batch: 658569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Potentially Dissolved	Water	200.8	657612
280-192966-2	2022-02	Potentially Dissolved	Water	200.8	657612
280-192966-3	2022-02-02	Potentially Dissolved	Water	200.8	657612
280-192966-4	2022-02-03	Potentially Dissolved	Water	200.8	657612
MB 280-657132/1-D	Method Blank	Potentially Dissolved	Water	200.8	657132
LCS 280-657132/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	657132
280-192966-2 MS	2022-02	Potentially Dissolved	Water	200.8	657612
280-192966-2 MSD	2022-02	Potentially Dissolved	Water	200.8	657612

Analysis Batch: 658774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Potentially Dissolved	Water	200.8	658569
280-192966-2	2022-02	Potentially Dissolved	Water	200.8	658569
280-192966-3	2022-02-02	Potentially Dissolved	Water	200.8	658569
280-192966-4	2022-02-03	Potentially Dissolved	Water	200.8	658569
MB 280-657132/1-D	Method Blank	Potentially Dissolved	Water	200.8	658569
LCS 280-657132/2-C	Lab Control Sample	Potentially Dissolved	Water	200.8	658569
280-192966-2 MS	2022-02	Potentially Dissolved	Water	200.8	658569
280-192966-2 MSD	2022-02	Potentially Dissolved	Water	200.8	658569

Prep Batch: 658982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total Recoverable	Water	200.8	
280-192966-2	2022-02	Total Recoverable	Water	200.8	
280-192966-3	2022-02-02	Total Recoverable	Water	200.8	
280-192966-4	2022-02-03	Total Recoverable	Water	200.8	
MB 280-658982/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-658982/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-192943-A-3-B MS	Matrix Spike	Total/NA	Water	200.8	
280-192943-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 659102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total Recoverable	Water	200.8	658982
280-192966-2	2022-02	Total Recoverable	Water	200.8	658982
280-192966-3	2022-02-02	Total Recoverable	Water	200.8	658982
280-192966-4	2022-02-03	Total Recoverable	Water	200.8	658982
MB 280-658982/1-A	Method Blank	Total Recoverable	Water	200.8	658982
LCS 280-658982/2-A	Lab Control Sample	Total Recoverable	Water	200.8	658982
280-192943-A-3-B MS	Matrix Spike	Total/NA	Water	200.8	658982

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QC Association Summary

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

Job ID: 280-192966-1

Metals (Continued)

Analysis Batch: 659102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192943-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	658982

Prep Batch: 676057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total/NA	Water	1631E	
280-192966-2	2022-02	Total/NA	Water	1631E	
280-192966-3	2022-02-02	Total/NA	Water	1631E	
280-192966-4	2022-02-03	Total/NA	Water	1631E	
MB 400-676057/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-676057/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-676057/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
400-257375-Y-1-B MS	Matrix Spike	Total/NA	Water	1631E	
400-257375-Y-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	

Analysis Batch: 676162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total/NA	Water	1631E	676057
280-192966-2	2022-02	Total/NA	Water	1631E	676057
280-192966-3	2022-02-02	Total/NA	Water	1631E	676057
280-192966-4	2022-02-03	Total/NA	Water	1631E	676057
MB 400-676057/3-A	Method Blank	Total/NA	Water	1631E	676057
LCS 400-676057/4-A	Lab Control Sample	Total/NA	Water	1631E	676057
LCSD 400-676057/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	676057
400-257375-Y-1-B MS	Matrix Spike	Total/NA	Water	1631E	676057
400-257375-Y-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	676057

General Chemistry

Filtration Batch: 657474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Dissolved	Water	FILTRATION	
280-192966-2	2022-02	Dissolved	Water	FILTRATION	
280-192966-3	2022-02-02	Dissolved	Water	FILTRATION	
280-192966-4	2022-02-03	Dissolved	Water	FILTRATION	
MB 280-657474/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-657474/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-657474/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-192966-4 MS	2022-02-03	Dissolved	Water	FILTRATION	
280-192966-4 MSD	2022-02-03	Dissolved	Water	FILTRATION	
280-192966-4 DU	2022-02-03	Dissolved	Water	FILTRATION	

Analysis Batch: 657486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Dissolved	Water	SM 3500 CR B	657474
280-192966-1	2022-01	Total/NA	Water	SM 3500 CR B	
280-192966-2	2022-02	Dissolved	Water	SM 3500 CR B	657474
280-192966-2	2022-02	Total/NA	Water	SM 3500 CR B	
280-192966-3	2022-02-02	Dissolved	Water	SM 3500 CR B	657474
280-192966-3	2022-02-02	Total/NA	Water	SM 3500 CR B	
280-192966-4	2022-02-03	Dissolved	Water	SM 3500 CR B	657474
280-192966-4	2022-02-03	Total/NA	Water	SM 3500 CR B	

Eurofins Denver

QC Association Summary

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

Job ID: 280-192966-1

General Chemistry (Continued)

Analysis Batch: 657486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-657474/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	657474
MB 280-657486/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-657474/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	657474
LCS 280-657486/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-657474/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	657474
LCSD 280-657486/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-192958-A-3 MS	Matrix Spike	Total/NA	Water	SM 3500 CR B	
280-192958-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 3500 CR B	
280-192966-4 MS	2022-02-03	Dissolved	Water	SM 3500 CR B	657474
280-192966-4 MSD	2022-02-03	Dissolved	Water	SM 3500 CR B	657474
280-192958-A-3 DU	Duplicate	Total/NA	Water	SM 3500 CR B	
280-192966-4 DU	2022-02-03	Dissolved	Water	SM 3500 CR B	657474

Analysis Batch: 657576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-2	2022-02	Total/NA	Water	SM 2540D	
280-192966-3	2022-02-02	Total/NA	Water	SM 2540D	
280-192966-4	2022-02-03	Total/NA	Water	SM 2540D	
MB 280-657576/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-657576/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-192968-A-2 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 657577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total/NA	Water	SM 2510B	
280-192966-2	2022-02	Total/NA	Water	SM 2510B	
280-192966-3	2022-02-02	Total/NA	Water	SM 2510B	
280-192966-4	2022-02-03	Total/NA	Water	SM 2510B	
MB 280-657577/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-657577/3	Lab Control Sample	Total/NA	Water	SM 2510B	
280-192919-B-2 DU	Duplicate	Total/NA	Water	SM 2510B	

Analysis Batch: 657601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total/NA	Water	SM 4500 H+ B	
280-192966-2	2022-02	Total/NA	Water	SM 4500 H+ B	
280-192966-3	2022-02-02	Total/NA	Water	SM 4500 H+ B	
LCS 280-657601/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-192718-J-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 657736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total/NA	Water	SM 2540D	
MB 280-657736/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-657736/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-193023-B-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 657817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total/NA	Water	SM 4500 S2 D	
280-192966-2	2022-02	Total/NA	Water	SM 4500 S2 D	

Eurofins Denver

QC Association Summary

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

Job ID: 280-192966-1

General Chemistry (Continued)

Analysis Batch: 657817 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-3	2022-02-02	Total/NA	Water	SM 4500 S2 D	
280-192966-4	2022-02-03	Total/NA	Water	SM 4500 S2 D	
MB 280-657817/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-657817/33	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-657817/34	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-192987-D-1 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
280-192987-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	
280-193060-H-1 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
280-193060-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 657820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Total/NA	Water	SM4500 S2 H	
280-192966-2	2022-02	Total/NA	Water	SM4500 S2 H	
280-192966-3	2022-02-02	Total/NA	Water	SM4500 S2 H	
280-192966-4	2022-02-03	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 658107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-1	2022-01	Potentially Dissolved	Water	SM3500 CR B	
280-192966-1	2022-01	Total Recoverable	Water	SM3500 CR B	
280-192966-2	2022-02	Potentially Dissolved	Water	SM3500 CR B	
280-192966-2	2022-02	Total Recoverable	Water	SM3500 CR B	
280-192966-3	2022-02-02	Potentially Dissolved	Water	SM3500 CR B	
280-192966-3	2022-02-02	Total Recoverable	Water	SM3500 CR B	
280-192966-4	2022-02-03	Potentially Dissolved	Water	SM3500 CR B	
280-192966-4	2022-02-03	Total Recoverable	Water	SM3500 CR B	

Analysis Batch: 658301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-192966-4	2022-02-03	Total/NA	Water	SM 4500 H+ B	
LCS 280-658301/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-192966-4 DU	2022-02-03	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

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

Job ID: 280-192966-1

Client Sample ID: 2022-01

Date Collected: 06/18/24 09:30

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	676057	06/21/24 16:30	VLC	EET PEN
							Completed:	06/24/24 09:00 ¹		
Total/NA	Analysis	1631E		1			676162	06/26/24 15:39	VLC	EET PEN
Total Recoverable	Prep	200.7			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			657898	06/20/24 20:25	NKC	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	657612	06/19/24 14:24	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658569	06/27/24 14:53	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			658774	06/28/24 07:48	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	657612	06/19/24 14:24	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658116	06/25/24 08:27	SLH	EET DEN
Potentially Dissolved	Analysis	200.8		1			658372	06/25/24 19:54	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			657797	06/20/24 11:57	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			657797	06/20/24 13:14	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	658982	07/01/24 22:43	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			659102	07/02/24 11:00	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	658305	06/25/24 16:35	CAF	EET DEN
Total/NA	Analysis	245.1		1			658474	06/25/24 23:56	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			657577	06/19/24 11:24	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	657736	06/20/24 11:24	MF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	657474	06/18/24 17:02	LL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	657486	06/18/24 17:38	LL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	657486	06/18/24 17:13	LL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			657601	06/19/24 13:38	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	657817	06/20/24 17:52	CLP	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			658107	06/26/24 09:30	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			658107	06/26/24 09:30	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			657820	06/20/24 19:25	C1A	EET DEN

Client Sample ID: 2022-02

Date Collected: 06/18/24 09:00

Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	676057	06/21/24 16:30	VLC	EET PEN
							Completed:	06/24/24 09:00 ¹		
Total/NA	Analysis	1631E		1			676162	06/26/24 15:46	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			657898	06/20/24 20:44	NKC	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	657612	06/19/24 14:24	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658569	06/27/24 14:53	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			658774	06/28/24 07:52	LMT	EET DEN

Eurofins Denver

Lab Chronicle

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

Job ID: 280-192966-1

Client Sample ID: 2022-02

Lab Sample ID: 280-192966-2

Date Collected: 06/18/24 09:00

Matrix: Water

Date Received: 06/18/24 15:27

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			150 mL	150 mL	657612	06/19/24 14:24	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658116	06/25/24 08:27	SLH	EET DEN
Potentially Dissolved	Analysis	200.8		1			658372	06/25/24 19:57	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			657797	06/20/24 12:08	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			657797	06/20/24 13:25	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	658982	07/01/24 22:43	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			659102	07/02/24 11:03	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	658305	06/25/24 16:35	CAF	EET DEN
Total/NA	Analysis	245.1		1			658474	06/25/24 23:58	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			657577	06/19/24 11:24	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	657576	06/19/24 11:22	MF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	657474	06/18/24 17:02	LL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	657486	06/18/24 17:36	LL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	657486	06/18/24 17:13	LL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			657601	06/19/24 13:38	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	657817	06/20/24 17:51	CLP	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			658107	06/26/24 09:30	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			658107	06/26/24 09:30	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			657820	06/20/24 19:25	C1A	EET DEN

Client Sample ID: 2022-02-02

Lab Sample ID: 280-192966-3

Date Collected: 06/18/24 09:00

Matrix: Water

Date Received: 06/18/24 15:27

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	676057	06/21/24 16:30	VLC	EET PEN
							Completed:	06/24/24 09:00 ¹		
Total/NA	Analysis	1631E		1			676162	06/26/24 15:54	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			657898	06/20/24 20:48	NKC	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	657612	06/19/24 14:24	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658569	06/27/24 14:53	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			658774	06/28/24 08:10	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	657612	06/19/24 14:24	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658116	06/25/24 08:27	SLH	EET DEN
Potentially Dissolved	Analysis	200.8		1			658372	06/25/24 19:59	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			657797	06/20/24 12:15	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			658201	06/24/24 17:58	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	658982	07/01/24 22:43	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			659102	07/02/24 11:05	LMT	EET DEN

Eurofins Denver

Lab Chronicle

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

Job ID: 280-192966-1

Client Sample ID: 2022-02-02

Lab Sample ID: 280-192966-3

Date Collected: 06/18/24 09:00

Matrix: Water

Date Received: 06/18/24 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			30 mL	50 mL	658305	06/25/24 16:35	CAF	EET DEN
Total/NA	Analysis	245.1		1			658474	06/26/24 00:01	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			657577	06/19/24 11:24	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	657576	06/19/24 11:22	MF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	657474	06/18/24 17:02	LL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	657486	06/18/24 17:35	LL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	657486	06/18/24 17:12	LL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			657601	06/19/24 13:38	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	657817	06/20/24 17:52	CLP	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			658107	06/26/24 09:30	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			658107	06/26/24 09:30	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			657820	06/20/24 19:25	C1A	EET DEN

Client Sample ID: 2022-02-03

Lab Sample ID: 280-192966-4

Date Collected: 06/18/24 09:00

Matrix: Water

Date Received: 06/18/24 15:27

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	676057	06/21/24 16:30	VLC	EET PEN
							Completed:	06/24/24 09:00 ¹		
Total/NA	Analysis	1631E		1			676162	06/26/24 16:02	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			657898	06/20/24 20:52	NKC	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	657612	06/19/24 14:24	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658569	06/27/24 14:53	AES	EET DEN
Potentially Dissolved	Analysis	200.8		1			658774	06/28/24 08:13	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			150 mL	150 mL	657612	06/19/24 14:24	KLG	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	658116	06/25/24 08:27	SLH	EET DEN
Potentially Dissolved	Analysis	200.8		1			658372	06/25/24 20:01	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			657797	06/20/24 12:18	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	657510	06/19/24 14:06	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			658201	06/24/24 18:00	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	658982	07/01/24 22:43	AMH	EET DEN
Total Recoverable	Analysis	200.8		1			659102	07/02/24 11:07	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	658305	06/25/24 16:35	CAF	EET DEN
Total/NA	Analysis	245.1		1			658474	06/26/24 00:03	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			657577	06/19/24 11:24	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	657576	06/19/24 11:22	MF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	657474	06/18/24 17:02	LL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	657486	06/18/24 17:32	LL	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	657486	06/18/24 17:12	LL	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			658301	06/25/24 10:35	EL	EET DEN

Eurofins Denver

Lab Chronicle

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

Job ID: 280-192966-1

Client Sample ID: 2022-02-03
Date Collected: 06/18/24 09:00
Date Received: 06/18/24 15:27

Lab Sample ID: 280-192966-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	657817	06/20/24 17:53	CLP	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			658107	06/26/24 09:30	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			658107	06/26/24 09:30	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			657820	06/26/24 03:11	C1A	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 - Surface Water

Job ID: 280-192966-1

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24 *
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	07-02-24
New York	NELAP	59923	04-01-25
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	T104704183-23-23	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	06-14-25
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
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24

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

Eurofins Denver

Accreditation/Certification Summary

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

Job ID: 280-192966-1

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
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
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	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

Chain of Custody Record

Client Information		Grand Island Resources		Address: 12567 West Cedar Road Suite 200 Lakewood CO 80228		City: Lakewood		State: CO		Zip: 80228		Phone: 303-506-1618		Email: bmoisonm@gemporio.edu		Project Name: Nederland, CO		Site: Surface Water Sampling					
Client Contact: Brooke Moison Moran		Company: Grand Island Resources		Address: 12567 West Cedar Road Suite 200 Lakewood CO 80228		City: Lakewood		State: CO		Zip: 80228		Phone: 303-506-1618		Email: bmoisonm@gemporio.edu		Project Name: Nederland, CO		Site: Surface Water Sampling					
Due Date Requested:		TAT Requested (days):		Compliance Project: ☐ Yes ☒ No		PO #: Advance Payment Required		WO #: 28025102		Project #: 28025102		SSOW#: 303-506-1618		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=other)		Preservation Code:	
2022-01		2022-02		2022-02-02		2022-02-03		6/18/24		9:30		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18/24		9:00		G		W		G		W		G		W	
2022-02		2022-02		2022-02-02		2022-02-03		6/18															

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Environment Testing

RT 574

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FZ

9757
06.21

ORIGIN ID:WHHA (303) 738-0100
EUROFINS
EUROFINS TESTAMERICA DENVER
4955 YARROW ST

ARVADA, CO 80002
UNITED STATES US

SHIP DATE: 19JUN24
ACTWGT: 17.60 LB
CAD: 290884/CAFE3808

BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHE
3355 MCLEMORE DRIVE

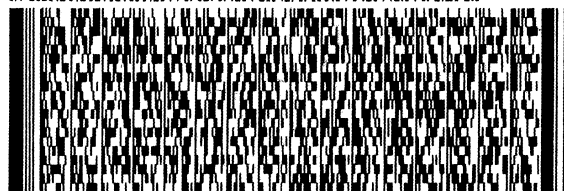
PENSACOLA FL 32514

(850) 474-1001
PO: YES

REF: S280-141385

DEPT: BOTTLE PREP

2.3 C
11.9



FedEx
Express



TRK# 7385 6147 9757
0201

THU - 20 JUN 10:30A
PRIORITY OVERNIGHT

XH PNSA

32514
FL BFM



Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-192966-1

Login Number: 192966

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
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: 280-192966-1

Login Number: 192966

List Number: 2

Creator: Roberts, Darrien

List Source: Eurofins Pensacola

List Creation: 06/21/24 01:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D CHAIN OF CUSTODY (COC) FORMS

Ver: 01/16/2019

eurotins
 Environment Testing
 America

[illegible]

APPENDIX E FIELD SHEETS

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in database (Print & Date)		Pg 1 of Pgs	
*StationID: 2022-01			*Date (mm/dd/yyyy): 6/18/24			*Group: n/a			*Agency: n/a				
*Funding: n/a			ArrivalTime: 9:20			DepartureTime: 9:45			*SampleTime (1st sample): 9:30				
*Personnel: BM, KL			*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure			*PurposeFailure:			*Protocol: n/a				
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 39.97904		Long (ddd.ddddd): -106.57585		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device: GPS WAYPOINTS APP			Target:		39.97904		-106.57585		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83			Accuracy (ft/m): 1.20		*Actual:		39.978993		-106.57576		Point of Sample (if Integrated, then -88 in dbase)		
Field Observations (SampleType = FieldObs)													
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						WADAILITY: Y / N / Unk		BEAUFORT SCALE (see attachment): 1		DISTANCE FROM BANK (m): 10"		STREAM WIDTH (m): 8"	
SKY CODE: Clear, Partly Cloudy, Overcast, Fog						WIND DIRECTION (from): E		HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other		LOCATION (to sample): US / DS / W / L		WATER DEPTH (m): 6.5"	
OTHERPRESENCE: Vascular, Nonvascular, OilySheep, Foam, Trash, Other						PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): 2022-01-01		1: (RB/LB/BB/US/DS/##)		2: (RB/LB/BB/US/DS/##)		3: (RB/LB/BB/US/DS/##)	
DOMINANTSUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other						WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2022-01-02		2022-01-03	
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		2022-01-02		2022-01-03		2022-01-03	
WATERCOLOR: Colorless, Green, Yellow, Brown						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		2022-01-03		2022-01-03		2022-01-03	
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°F)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/ BOTTOMREP	1"	0.9	55.0	9.7	7.2	n/a	n/a	0.1	n/a	7.3	n/a		
SUBSURF/MID/ BOTTOMREP													
SUBSURF/MID/ BOTTOMREP													
Instrument:	n/a	n/a	Ambient	Dakota	Dakota	n/a	n/a	BlueLab	n/a	Newtr	n/a		
Calib. Date:	n/a	n/a	n/a	n/a	6/18/24	n/a	n/a	n/a	n/a	n/a	n/a		
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 disposable cup													
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface	1"	n/a	n/a	n/a	1	n/a	1	2	1	1	n/a	n/a	n/a
Sub/Surface													
COMMENTS:													

PLEASE SEE ATTACHED LAB REPORT

Run										Sample Processing Date:									
Sample ID #:																			
Site Code:																			
# Small Wells																			
# Large Wells																			
Empty Wells																			
MPN																			
# Small Wells																			
# Large Wells																			
False Positives																			
MPN																			
Temp/Time: Start										4 Hr. 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									
Pass										Pass									
Needs Review										Needs Review									
Normal Duplicate										Normal Duplicate									
Mean										Mean									
Pass										Pass									
Needs Review										Needs Review									
Normal Duplicate										Normal Duplicate									
Mean										Mean									
Pass										Pass									
Needs Review										Needs Review									
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:									
Processed / Date / Time:										Pulled from Incubator By / Date / Time:									
Entered into database:										Trays Read By:									

Brocke Moran 6/18/24

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ						ECOL BOARD 1A (1/1/2009)		Pg 1 of 1 Pgs					
*StationID: 2022-02		*Date (mm/dd/yyyy): 6/18/24		*Group: n/a		*Agency: n/a							
*Funding: n/a		ArrivalTime: 8:50		DepartureTime: 9:15		*SampleTime (1st sample): 9:00		*Protocol: n/a					
*Personnel: BM KL		*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure				*PurposeFailure: n/a							
*Location: Bank Thalweg Midchannel OpenWater		*GPS/DGPS		Lat (dd.ddddd): 39.975787		Long (ddd.ddddd): -105.569328		OCCUPATION METHOD: Walk-in Bridge R/V Other					
GPS Device: GPS WAYPOINTS APP		Target: 39.975787		BEAUFORT SCALE (see attachment): 1		STARTING BANK (facing downstream): LB / RB / NA							
Datum: NAD83		Accuracy (ft/m): 1.40		*Actual: 39.975873		-105.569305		Point of Sample (if Integrated, then -88 in dbase)					
Field Observations (SampleType = FieldObs)				WEAVERABILITY: Y / N / Unk		DISTANCE FROM BANK (m): 1'2"		STREAM WIDTH (m): 2'4"					
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				WIND DIRECTION (from): SE		HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other		WATER DEPTH (m): 7.5"					
SKY CODE: Clear, Partly Cloudy, Overcast, Fog				OTHERPRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode yyyy mm dd uniquecode): 2022-02-01							
DOMINANTSUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other				PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB/LB/BB/US/DS/##) 2022-02-02							
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)				PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB/LB/BB/US/DS/##) 2022-02-03							
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other													
WATERCOLOR: Colorless, Green, Yellow, Brown													
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)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°F)	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	1"	3.8	54.3°	8.0°	8.0	n/a	n/a	0.2	n/a	9.1	n/a		
SUBSURF/MID/ BOTTOM/REP													
SUBSURF/MID/ BOTTOM/REP													
Instrument:	n/a	n/a	Ambient	Oakton	Oakton	n/a	n/a	Bluebox	n/a	Newtry	n/a		
Calib. Date:	n/a	n/a	n/a	n/a	6/18/24	n/a	n/a	n/a	n/a	n/a	n/a		
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: disposable cup									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface	1"	n/a	n/a	n/a	1	n/a	1	2	1	1	n/a	n/a	n/a
Sub/Surface													
COMMENTS: 2022-02-02 = DUPLICATE 2022-02-03 = FIELD BLANK													

PLEASE SEE ATTACHED LAB REPORT

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										LAB DUPLICATES									
Normal Sample # Duplicate Sample #										Normal Sample # Duplicate Sample #									
MPN										MPN									
95% CI Lower Upper										95% CI Lower Upper									
TOTAL COLIFORM										TOTAL COLIFORM									
Normal Duplicate Mean										Normal Duplicate Mean									
Pass Needs Review										Pass Needs Review									
E. COLI										E. COLI									
Normal Duplicate Mean										Normal Duplicate Mean									
Pass Needs Review										Pass Needs Review									
BLANKS										BLANKS									
Field Sample #										Lab Sample #									
Pass Needs Review										Pass 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:										Pulled from Incubator By / Date / Time:									
Trays Read By:										Entered into database:									
NOTES:																			

Brianna Moran 6/18/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CROSS WELL Date 6/18/24 Start Time 12:00 Stop time 13:15 Page 1 of 1
 Sample Control Number n/a Samplers BM, KL Project Number:

WEATHER CONDITIONS

Ambient Air Temperature: 53.2° °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 15 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: 184.5 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 15 Total Depth 205 Total Volume Purged 624 Saturated Borehole Volume (gal) 182 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01

Conductivity Meter: Meter Number CM1-2104-01479

Buffer 7 Measured Value 7.0 Temp. 12.9 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °C

Buffer 4 Measured Value 4.0 Temp. 12.9 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °C

Turbidity Meter: Nutro 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
12:00	0	7.4	0.4	13.5	6.4	
13:00	624	7.0	0.3	6.5°	3.5	FIELD-FILTERED FOR METALS & RADIONUCLIDES
						SAMPLES COLLECTED WITH DISPOSABLE SAMPLING CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
6/18/24	13:00	7.0	7.0	0.3	6.5	3.5		

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
AVAILABLE IN
LAB REPORT.

Notes: SAMPLED VIA PORT. * 6 5/8" (-1-40 ft) & 4 1/2" (15-205 ft)

Sampler's Signature

Brooke Moran 6/18/24

IDENTIFICATION

Sample Location COMPLIANCE WELL Date 6/18/24 Start Time 13:00 Stop time 13:45 Page 1 of 1
Sample Control Number n/a Samplers BM, KL
WEATHER CONDITIONS _____

WEATHER CONDITIONS

Ambient Air Temperature: 52.9° °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 Depth165 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: 125.4 gallons
Well Casing ID n/a Well Casing OD X 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 35 Total Depth 105 Total Volume Purged 554 Saturated Borehole Volume (gal) 117 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01

Conductivity Meter: Meter Number CMI-2104-01479

Buffer 7 Measured Value 7.0 Temp. 2.0 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °C

Buffer 4 Measured Value 4.0 Temp. 12.9°C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °C

Turbidity Meter: Neatry 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 ☒		
6/18/24	13:30	10.4	7.1	0.3	5.5 $^{\circ}$	1.1		

Duplicate Sample-02 (sample control number/time COMPLIANCE 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: SAMPLED AT WELL. * $6\frac{5}{8}"$ (-1-50 ft) & $4\frac{1}{2}"$ (15-165 ft)

Sampler's Signature

Brooke Moran 6/18/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CARIBOU WELL Date 6/18/24 Start Time 10:30 Project Number: 11:45 Page 1 of 1
 Sample Control Number n/a Samplers BM, KL

WEATHER CONDITIONS

Ambient Air Temperature: 49.5 °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 -21 Total Depth 165 Top of Screen -25 Filter Pack Interval n/a Borehole Diameter (inches) 9" (0-26 ft)
6" (26-165 ft)
 2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 125.6 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 -21 Total Depth 165 Total Volume Purged 483 Saturated Borehole Volume (gal) 124 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number DAKTON01 Conductivity Meter: Meter Number CM1-2104-01479
 Buffer 7 Measured Value 7.0 Temp. 12.9 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °C
 Buffer 4 Measured Value 4.0 Temp. 12.9 °C Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °C
 Turbidity Meter: Nutro 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
10:30	0	6.6	0.1	10.6°	4.8	
11:30	483	6.9	0.2	6.5°	4.5	FIELD-FILTERED FOR METALS & RADIONUCLIDES
						SAMPLES COLLECTED WITH DISPOSABLE SAMPLING CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
6/18/24	11:30	10.0	6.9	0.2	6.5	4.5		

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
 AVAILABLE IN
 LAB REPORT.

Notes: SAMPLED VIA PORT. * 6 5/8" (-1-26 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Brooke Moran 6/18/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CROSS PORTAL Date 6/18/24 Start Time 12:00 Stop time 12:30 Project Number: Page 1 of 1
 Sample Control Number n/a Samplers BM, KL

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 OAKTON01

Buffer 7 Measured Value 7.0 Temp. 12.9 °C

Buffer 4 Measured Value 4.0 Temp. 12.9 °C

Conductivity Meter: Meter Number CM1-2104-01479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °C

Turbidity Meter: None 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
12:15	n/a	8.0	0.2	5.8	14.1	
						FIELD-FILTERED FOR METALS & RADIONUCLIDES
						SAMPLES COLLECTED WITH DISPOSABLE SAMPLING CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
6/18/24	12:15	n/a	8.0	0.2	5.8	14.1		

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)

QA/QC INFO
 AVAILABLE IN
 LAB REPORT.

Notes:

Sampler's Signature

Maude Moran 6/18/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CARIBOU PORTAL Date 6/18/24 Start Time 10:30 Stop time 11:15 Page 1 of 1
 Sample Control Number n/a Samplers BM, KL

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 OAKTON01Buffer 7 Measured Value 7.0 Temp. 12.9 °CBuffer 4 Measured Value 4.0 Temp. 12.9 °CConductivity Meter: Meter Number CM1-2104-01479Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °CStandard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 13 °CTurbidity Meter: Newt 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	8.2	0.3	6.5°	3.8	
						FIELD-FILTERED FOR METALS & RADIO NUCLIDES
						SAMPLES COLLECTED WITH DISPOSABLE SAMPLING CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs ☐ gpm ☐	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est. ☐ Measured ☒		
6/18/24	11:15	n/a	8.2	0.3	6.5°	3.8		

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
 AVAILABLE IN
 LAB REPORT.

Notes:

Sampler's Signature

Brooke Moran 6/18/24

APPENDIX F PHOTOGRAPHS

APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS







APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS





