FOURTH 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

JANUARY 30, 2025

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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 or this Quarterly Report, the Operator has collected and has analyzed, via third party laboratory, site waters from 7 monitoring locations, from May 2022 through December 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 30, 31 and 32 depict surfaces for the months of October, November and December 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.

Resulting from TR-14 partial approval, the sample collected by GIR on December 4, 2024, serves as the sample for the Fourth Quarter 2024 subject of this report. The results for groundwater are provided on Table 2.1.1.

On August 27, 2024, GIR submitted to the Division of Reclamation, Mining and Safety (Division/DRMS) a request for Technical Revision 15 (TR-15) to reduce the analyte list for surface water, mine effluent and groundwater samples collected on a quarterly basis at the Cross Gold Mine.

On September 10, 2024, DRMS issued to GIR a Preliminary Adequacy Review; Technical Revision (TR-15) – Request to Reduce the Surface Water, Mine Effluent and Groundwater Sampling Analyte List; indicating that the application for TR-15 may be deemed inadequate and denied unless the following item is addressed to the Division's satisfaction.

> 1. Please provide updated tables for Surface Water and Groundwater and Effluent Testing Parameters that reflect what the Operator would be analyzing samples for once the requested reduction of analytes is approved.

On September 11, 2024, GIR provided DRMS with the requested tables for Surface Water and Groundwater and Effluent Testing Parameters that reflect what the Operator would be analyzing samples for once the requested reduction of analytes is approved.

On September 12, 2024, the Division approved TR-15.

The testing of Surface Water, Groundwater and Effluent for the Fourth Quarter of 2024 (December 4, 2024) reflects the approved TR-15 Analyte List.

On December 12, 2024, GIR submitted to DRMS the Designated Mining Operation Application.

2. Ground Water Monitoring

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

2.1. Water Quality Analytical Results

Test results from water samples collected from the three monitoring wells are presented on Table 2.1.1 corresponding to the month of December 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 December 4, 2024

Parameter	Standard	Cross Well	Caribou Well	Compliance Well	Compliance Well Duplicate	Unit	Comments
Aluminum (Al)	**5**	ND	ND	ND	ND	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**	0.029	0.0068	0.044	0.045	mg/l	Dissolved
Beta and Photon Emitters	**4**	1.29	1.11	0.869	1.2	pCi/l	Std is in mrem/year; Lab reports pCi/
Boron (B)	**0.75**	0.002	ND	0.0022	0.0022	mg/l	Dissolved
Cadmium (Cd)	**0.005**	ND	ND	ND	ND	mg/l	Dissolved
Chloride (Cl)	**250**	3.7	ND	3.3	3.3	mg/l	Dissolved
Copper (Cu)	**0.2**	0.0036	3.4	ND	ND	mg/l	Dissolved
Gross Alpha Particle Activity	**15**	-0.13	1.81	0.37	0.524	pCi/l	
Iron (Fe)	**0.3**	0.011	0.013	0.0096	0.0092	mg/l	Dissolved
Lead (Pb)	**0.05**	ND	0.0024	0.00031	0.00025	mg/l	Dissolved
Manganese (Mn)	**0.05**	0.0035	ND	0.0073	0.0074	mg/l	Dissolved
Molybdenum (Mo)	**0.21**	0.00077	ND	0.005	0.0049	mg/l	Dissolved
Nitrate (NO3)	**10**	0.32	0.14	0.34	0.34	mg/l as N	Dissolved
Nitrate-Nitrite (total)	**10.0**	0.33	0.085	0.33	0.33	mg/l as N	Dissolved
pH (field)	**6.5 - 8.5**	7	6.7	7.9	7.9	pH units	
Sulfate (SO4)	**250**	9	2.5	10	10	mg/l	Dissolved
TDS	**400**	92	53	84	99	mg/l	Total
Uranium (U)	**0.0168 -0.03**	0.000061	ND	0.00019	0.00019	mg/l	Dissolved
Zinc (Zn)	**2**	0.93	0.025	0.093	0.095	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. The Cross Winze water levels are also included.

Tables 2.2.1 - October, 2.2.2 November, and 2.2.3 December, provide date and groundwater elevations. The groundwater elevations shown on the tables were used to develop the potentiometric water surfaces depicted on Figures 30, 31, and 32 for the month of October, November and December 2024, respectively.
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Table 2.2.1 Wells and Winze Groundwater Elevation – October 23, 2024

Groundwater Elevation - October		
WELL	**COLLAR ELEV.**	**10/23/2024**
	Ft. AMSL	
Caribou	9,744.25	9,708.97
Cabin (Compliance)	9,677.35	9,634.37
Cross	9,692.85	9,647.51
Winze	9,697.48	9,647.30

Table 2.2.2 Wells and Winze Groundwater Elevation – November 23, 2024

Groundwater Elevation - November		
WELL	**COLLAR ELEV.**	**11/23/2024**
	Ft. AMSL	
Caribou	9,744.25	9,709.77
Cabin (Compliance)	9,677.35	9,634.76
Cross	9,692.85	9,650.05
Winze	9,697.48	9,612.20

Table 2.2.3 Wells and Winze Groundwater Elevation – December 4, 2024

Groundwater Elevation - December		
WELL	**COLLAR ELEV.**	**12/4/2024**
	Ft. AMSL	
Caribou	9,744.25	9,710.07
Cabin (Compliance)	9,677.35	9,634.92
Cross	9,692.85	9,651.24
Winze	9,697.48	9,605.10

Figure 30 Potentiometric Water Surface – October 2024

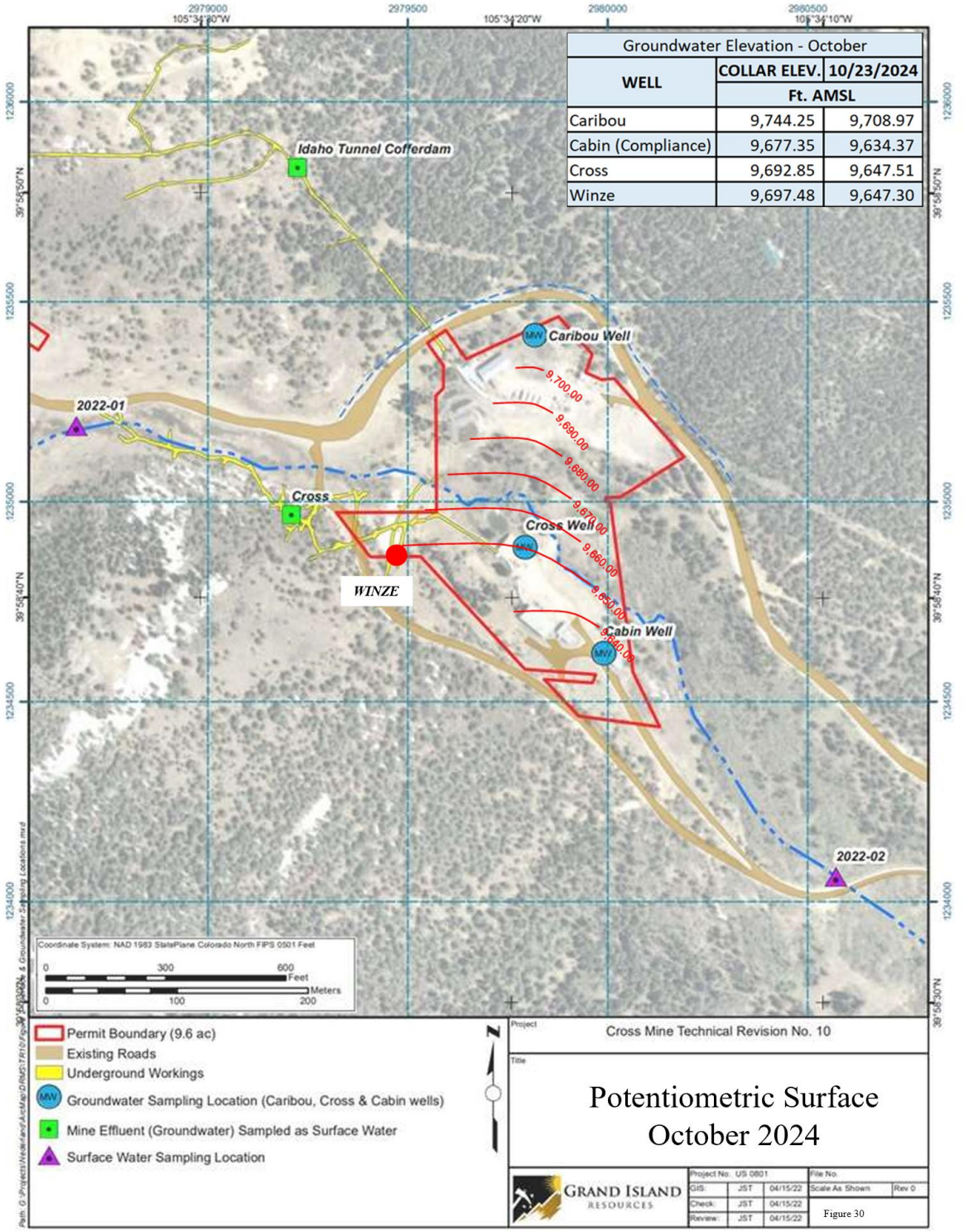


Figure 31 Potentiometric Water Surface – November 2024

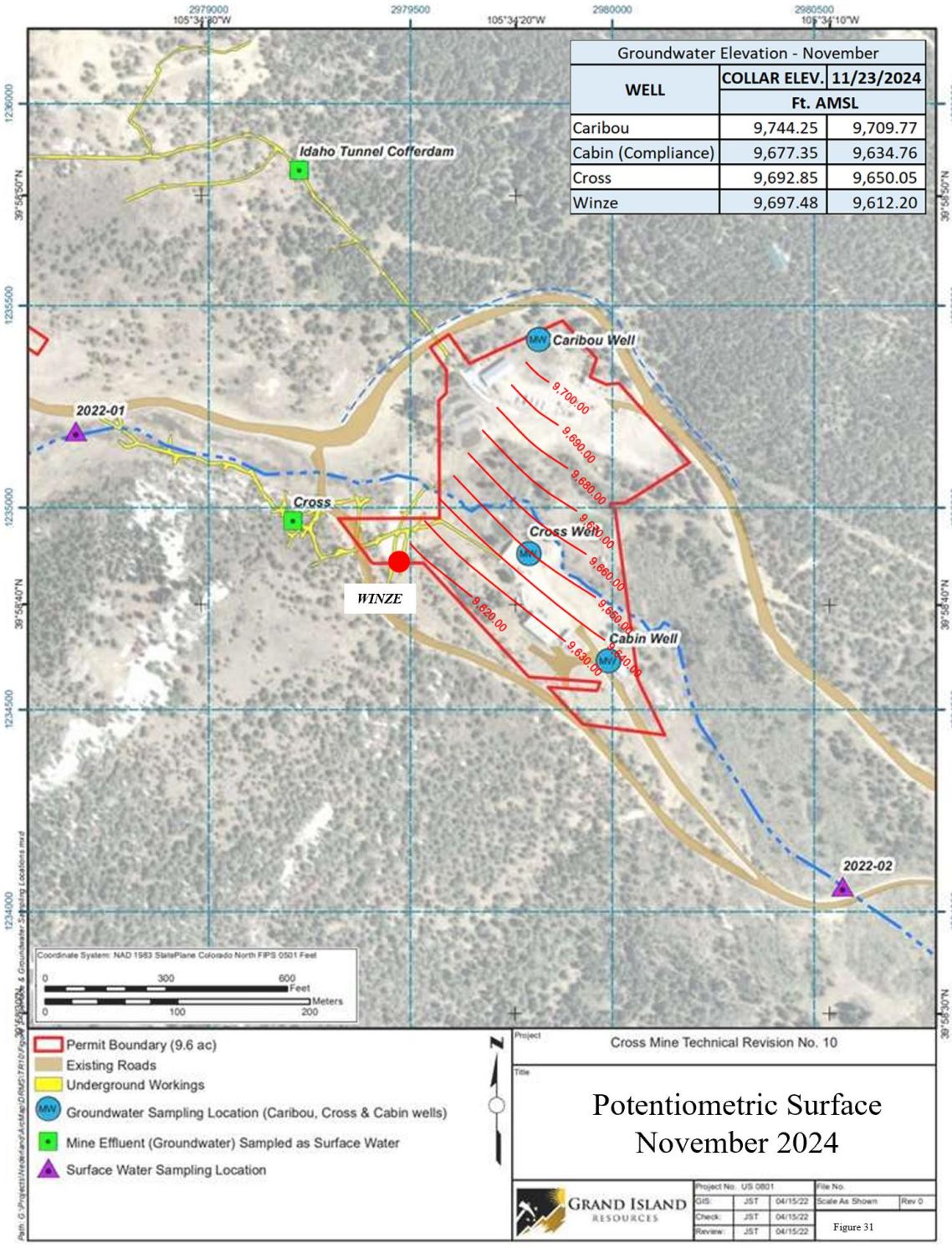
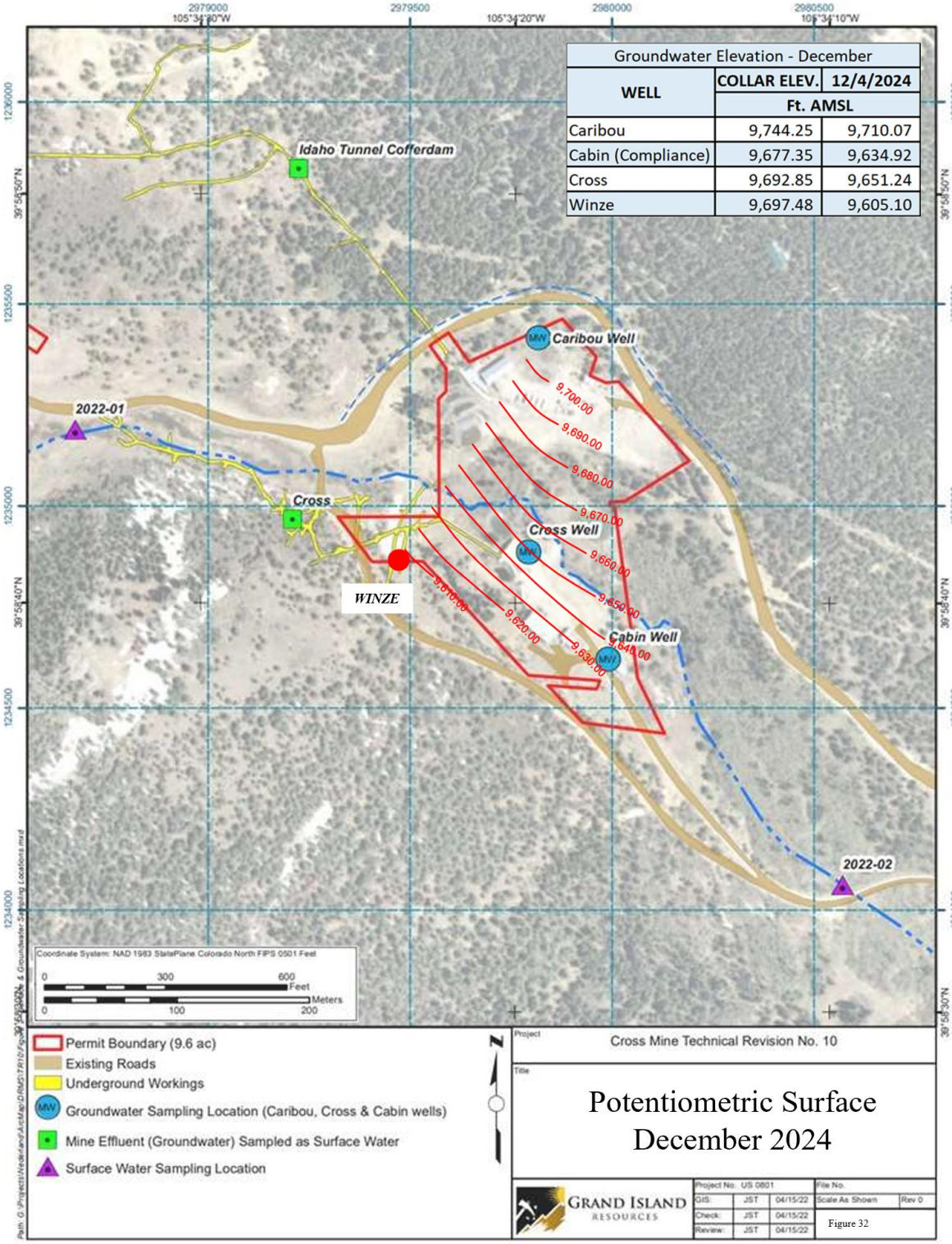


Figure 32 Potentiometric Water Surface – December 2024



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 December 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 December 4, 2024

Parameter	Standard	Cross Portal	Cross Portal Duplicate	Caribou Portal	Field Blank	Unit	Comments
Aluminum (Al)	**5**	ND	ND	ND	0.046	mg/l	Dissolved
Antimony (Sb)	**0.006**	0.00052	0.00046	0.00068	ND	mg/l	Dissolved
Arsenic (As)	**0.01**	ND	ND	0.0005	ND	mg/l	Dissolved
Barium (Ba)	**2**	0.072	0.071	0.062	0.0021	mg/l	Dissolved
Beta and Photon Emitters	**4**	0.644	0.871	0.82	-0.291	pCi/l	Std is in mrem/year; Lab reports pCi/
Boron (B)	**0.75**	0.0024	0.003	0.0027	ND	mg/l	Dissolved
Cadmium (Cd)	**0.005**	0.0012	0.0012	ND	ND	mg/l	Dissolved
Chloride (Cl)	**250**	ND	ND	ND	ND	mg/l	Dissolved
Copper (Cu)	**0.2**	0.0031	0.0023	ND	0.0028	mg/l	Dissolved
Gross Alpha Particle Activity	**15**	0.629	-0.592	5.75	0.0564	pCi/l	
Iron (Fe)	**0.3**	0.012	0.012	0.011	0.013	mg/l	Dissolved
Lead (Pb)	**0.05**	0.00084	0.00079	0.00033	ND	mg/l	Dissolved
Manganese (Mn)	**0.05**	0.0071	0.0074	0.0013	ND	mg/l	Dissolved
Molybdenum (Mo)	**0.21**	0.0074	0.0075	0.0072	ND	mg/l	Dissolved
Nitrate (NO3)	**10**	0.098	0.096	ND	ND	mg/l as N	Dissolved
Nitrate-Nitrite (total)	**10.0**	0.049	0.049	0.11	ND	mg/l as N	Dissolved
pH (field)	**6.5 - 8.5**	8.1	8.1	8.4	n/a	pH units	
Sulfate (SO4)	**250**	12	12	9.6	0.81	mg/l	Dissolved
TDS	**400**	120	150	130	10	mg/l	Total
Uranium (U)	**0.0168 -0.03**	0.001	0.001	0.0067	ND	mg/l	Dissolved
Zinc (Zn)	**2**	0.25	0.24	0.0062	ND	mg/l	Dissolved
The highlighted cells Indicate Test Results Higher than the Reference Values from Reg. 5 CCR 1002-41							
"ND" Indicates Not Detected							

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 not collected on December 4, 2014, from both surface water sampling stations because no surface water flows were observed during the sampling event.

4.2. Surface Water Flows

No Surface water flow measurements were taken during sampling event of December 4, 2024 because no surface water flows were observed at the time of the sampling event.

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 Cross Well and Field Duplicate samples were collected from the Cabin Well (Compliance) during the December 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 December 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

No Field Duplicates were collected from surface water stations because no flows were observed during the December 4, 2024 sampling event.

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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, 6.3 and 6.4 present the DMR Copies of Record filed by the Operator with CDPHE for the months of September, October, November and December 2024, respectively.

Table 6.1 DMR September 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.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:	**CO0032751**	**Permittee:**	Grand Island Resources LLC	**Facility:**	CROSS AND CARIBOU MINES
Major:	No	**Permittee Address:**	12567 W Cedar Dr Ste 110 Lakewood, CO 80228	**Facility Location:**	CROSS AND CARIBOU MINES BOULDER COUNTY, CO 80466
Permitted Feature:	001 External Outfall	**Discharge:**	**001-A** Treated Mine Water to Coon Track Creek		

Report Dates & Status

Monitoring Period:	**From 09/01/24 to 09/30/24**	**DMR Due Date:**	**10/28/24**	**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: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Quality or Concentration Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00010	**Temperature, water deg. centigrade**	1 - Effluent Gross	0	--	Sample								=	7.9	=	8.8	04 - deg C		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.									Req Mon MX WK AV		Req Mon DAILY MX	04 - deg C	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	7.7			=	8.1	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	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		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	30.0 30DA AVG	<=	45.0 DAILY MX	19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
00978	**Arsenic, total recoverable**	1 - Effluent Gross	0	--	Sample								<	5.0			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															
00980	**Iron, total recoverable**	1 - Effluent Gross	0	--	Sample								=	9.9			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															
01094	**Zinc, total recoverable**	1 - Effluent Gross	0	--	Sample								=	11.0	=	11.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	750.0 30DA AVG	<=	1500.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01113	**Cadmium, total recoverable**	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	50.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
																			02/30 - Twice Per	

Table 6.1 DMR September 2024 (continued)

01114	**Lead, total recoverable**	1 - Effluent Gross	0	--	Sample							=	0.56	=	0.69	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							=	1.02	=	1.3	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	9	--	Sample							=	19.0	=	20.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	257.0 30DA AVG	<=	248.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI														
01304	**Silver, potentially dissolved**	1 - Effluent Gross	9	--	Sample									<	0.5	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	0.17 30DA AVG	<=	3.8 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	9	--	Sample							=	0.44	=	0.87	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	19.0 30DA AVG	<=	28.0 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	9	--	Sample									<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	0.87 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						
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	9	--	Sample							=	0.71	=	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	5.3 30DA AVG	<=	115.0 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							=	4.6	=	4.6	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				
	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	GR - GRAB

Table 6.1 DMR September 2024 (continued)

04262	**recoverable**	Gross	0	--	Value NODI													0			
50050	**Flow, in conduit or thru treatment plant**	1 - Effluent Gross	9	--	Sample							=	0.08127	=	0.1101	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																
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_Lab_2024_09_J196927-1_09-19-24.pdf	pdf	1008816.0
CO0032751_Lab_2024_09_J196277-1_09-06-24.pdf	pdf	1488978.0
CO0032751_DMRcov_2024_09.pdf	pdf	202148.0

Report Last Saved By

Grand Island Resources LLC

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2024-10-28 16:39 (Time Zone: -06:00)

Report Last Signed By

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2024-10-28 16:40 (Time Zone: -06:00)

Table 6.2 DMR October 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.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:	**CO0032751**	**Permittee:**	Grand Island Resources LLC	**Facility:**	CROSS AND CARIBOU MINES
Major:	No	**Permittee Address:**	12567 W Cedar Dr Ste 110 Lakewood, CO 80228	**Facility Location:**	CROSS AND CARIBOU MINES BOULDER COUNTY, CO 80466
Permitted Feature:	001 External Outfall	**Discharge:**	**001-A** Treated Mine Water to Coon Track Creek		

Report Dates & Status

Monitoring Period:	**From 10/01/24 to 10/31/24**	**DMR Due Date:**	**11/28/24**	**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: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	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								=	8.4	=	9.5	04 - deg C		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.									Req Mon MX WK AV		Req Mon DAILY MX	04 - deg C	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	7.4			=	8.1	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	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		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	30.0 30DA AVG	<=	45.0 DAILY MX	19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
00978	**Arsenic, total recoverable**	1 - Effluent Gross	0	--	Sample								<	5.0			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															
00980	**Iron, total recoverable**	1 - Effluent Gross	0	--	Sample								=	26.0			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															
01094	**Zinc, total recoverable**	1 - Effluent Gross	0	--	Sample								=	18.0	=	18.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	750.0 30DA AVG	<=	1500.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01113	**Cadmium, total recoverable**	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		01/30 - Monthly	GR - GRAB
					Permit Req.								<=	50.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
																			02/30 - Twice Per	

Table 6.2 DMR October 2024 (continued)

01114	**Lead, total recoverable**	1 - Effluent Gross	0	--	Sample								=	0.94	=	1.5	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								=	1.3	=	2.6	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	10	--	Sample								=	21.0	=	23.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	262.0 30DA AVG	<=	291.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01304	**Silver, potentially dissolved**	1 - Effluent Gross	10	--	Sample										<	0.5	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	0.17 30DA AVG	<=	4.5 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	10	--	Sample								=	1.55	=	3.1	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	19.0 30DA AVG	<=	28.0 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	10	--	Sample										<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	0.89 30DA AVG	<=	3.6 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	10	--	Sample								=	0.93	=	1.5	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	5.4 30DA AVG	<=	135.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01319	**Manganese, potentially dissolvd**	1 - Effluent Gross	0	--	Sample								=	1.1	=	1.1	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				
	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	GR - GRAB

Table 6.2 DMR October 2024 (continued)

04262	**recoverable**	Gross	0	--	Value NODI														0				
50050	**Flow, in conduit or thru treatment plant**	1 - Effluent Gross	10	--	Sample							=	0.092552	=	0.1327	03 - MGD		99/99 - Continuous	RC - Recorder (auto)				
					Permit Req.							<=	0.103 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_Lab_2024_10_J198903-1_10-31-24.pdf	pdf	1363165.0
CO0032751_Lab_2024_10_J197939-1_10-11-24.pdf	pdf	1258275.0
CO0032751_DMRcov_2024_10.pdf	pdf	201638.0

Report Last Saved By
Grand Island Resources LLC

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2024-11-22 13:07 (Time Zone: -07:00)

Report Last Signed By

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2024-11-22 13:07 (Time Zone: -07:00)

Table 6.3 DMR November 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 #:	**CO0032751**	**Permittee:**	Grand Island Resources LLC	**Facility:**	CROSS AND CARIBOU MINES
Major:	No	**Permittee Address:**	12567 W Cedar Dr Ste 110 Lakewood, CO 80228	**Facility Location:**	CROSS AND CARIBOU MINES BOULDER COUNTY, CO 80466
Permitted Feature:	001 External Outfall	**Discharge:**	**001-A** Treated Mine Water to Coon Track Creek		

Report Dates & Status

Monitoring Period:	**From 11/01/24 to 11/30/24**	**DMR Due Date:**	**12/28/24**	**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: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	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								=	5.1	=	5.8	04 - deg C		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.									Req Mon MX WK AV		Req Mon DAILY MX	04 - deg C	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	7.6			=	8.1	12 - SU		02/30 - Twice Per Month	GR - Grab
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	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		01/30 - Monthly	GR - Grab
					Permit Req.								<=	30.0 30DA AVG	<=	45.0 DAILY MX	19 - mg/L	0	01/30 - Monthly	GR - Grab
					Value NODI															
00978	**Arsenic, total recoverable**	1 - Effluent Gross	0	--	Sample								<	5.0			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															
00980	**Iron, total recoverable**	1 - Effluent Gross	0	--	Sample								<	100.0			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															
01094	**Zinc, total recoverable**	1 - Effluent Gross	0	--	Sample								=	26.0	=	26.0	28 - ug/L		01/30 - Monthly	GR - Grab
					Permit Req.								<=	750.0 30DA AVG	<=	1500.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - Grab
					Value NODI															
01113	**Cadmium, total recoverable**	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		01/30 - Monthly	GR - Grab
					Permit Req.								<=	50.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - Grab
					Value NODI															
																			02/30 - Twice Per	

Table 6.3 DMR November 2024 (continued)

01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample							=	0.88	=	1.1	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							=	0.5	=	1.0	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	11	--	Sample							=	24.5	=	27.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	202.0 30DA AVG	<=	232.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Value NODI														
01304	Silver, potentially dissolved	1 - Effluent Gross	11	--	Sample									<	0.5	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	0.13 30DA AVG	<=	3.6 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	11	--	Sample							<	2.0	<	2.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	14.0 30DA AVG	<=	22.0 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	11	--	Sample									<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	0.69 30DA AVG	<=	2.8 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	11	--	Sample							=	0.83	=	0.99	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	4.2 30DA AVG	<=	108.0 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				
	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	GR - Grab

Table 6.3 DMR November 2024 (continued)

04262	recoverable	Gross	0	--	Value NODI														0				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	11	--	Sample							=	0.09487	=	0.1298	03 - MGD		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.							<=	0.103 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_11.pdf	pdf	204701.0
CO0032751_Lab_2024_11_J200072-1_11-25-24.pdf	pdf	1361073.0
CO0032751_Lab_2024_11_J199519-1_11-13-24.pdf	pdf	1479597.0

Report Last Saved By

Grand Island Resources LLC

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2024-12-28 18:12 (Time Zone: -07:00)

Report Last Signed By

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2024-12-28 18:12 (Time Zone: -07:00)

Table 6.4 DMR December 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.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:	**CO0032751**	**Permittee:**	Grand Island Resources LLC	**Facility:**	CROSS AND CARIBOU MINES
Major:	No	**Permittee Address:**	12567 W Cedar Dr Ste 110 Lakewood, CO 80228	**Facility Location:**	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 12/01/24 to 12/31/24**	**DMR Due Date:**	**01/28/25**	**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: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	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								=	4.4	=	4.7	04 - deg C		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.									Req Mon MX WK AV		Req Mon DAILY MX	04 - deg C	0	99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	7.9			=	8.1	12 - SU		02/30 - Twice Per Month	GR - Grab
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	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		01/30 - Monthly	GR - Grab
					Permit Req.								<=	30.0 30DA AVG	<=	45.0 DAILY MX	19 - mg/L	0	01/30 - Monthly	GR - Grab
					Value NODI															
00978	**Arsenic, total recoverable**	1 - Effluent Gross	0	--	Sample								<	5.0			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															
00980	**Iron, total recoverable**	1 - Effluent Gross	0	--	Sample								=	16.0			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															
01094	**Zinc, total recoverable**	1 - Effluent Gross	0	--	Sample								=	21.0	=	21.0	28 - ug/L		01/30 - Monthly	GR - Grab
					Permit Req.								<=	750.0 30DA AVG	<=	1500.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - Grab
					Value NODI															
01113	**Cadmium, total recoverable**	1 - Effluent Gross	0	--	Sample								<	1.0	<	1.0	28 - ug/L		01/30 - Monthly	GR - Grab
					Permit Req.								<=	50.0 30DA AVG	<=	300.0 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - Grab
					Value NODI															
																			02/30 - Twice Per	

Table 6.4 DMR December 2024 (continued)

01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample							=	0.6	=	0.86	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							=	1.28	=	1.7	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	12	--	Sample							=	21.0	=	23.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	186.0 30DA AVG	<=	182.0 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Value NODI														
01304	Silver, potentially dissolved	1 - Effluent Gross	12	--	Sample									<	0.5	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	0.12 30DA AVG	<=	2.8 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	12	--	Sample							<	2.0	<	2.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	13.0 30DA AVG	<=	18.0 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	12	--	Sample									<	1.0	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	0.63 30DA AVG	<=	2.2 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	12	--	Sample							=	0.56	=	0.79	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Permit Req.							<=	3.8 30DA AVG	<=	85.0 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				
	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	GR - Grab

Table 6.4 DMR December 2024 (continued)

04262	recoverable	Gross	0	--	Value NODI														0		
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	12	--	Sample							=	0.07171	=	0.0951	03 - MGD		99/99 - Continuous	RC - Recorder (auto)
					Permit Req.							<=	0.103 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_Lab_2024_12_J201290-1_12-23-24.pdf	pdf	1451484.0
CO0032751_Lab_2024_12_J200315-1_12-04-24.pdf	pdf	1061183.0
CO0032751_DMRcov_2024_12.pdf	pdf	205177.0

Report Last Saved By

Grand Island Resources LLC

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2025-01-24 20:47 (Time Zone: -07:00)

Report Last Signed By

User:	JOHNRINKO
Name:	John Rinko
E-Mail:	johnrinko@yahoo.com
Date/Time:	2025-01-24 20:47 (Time Zone: -07:00)

APPENDICES

APPENDIX A GROUNDWATER AND EFFLUENT ANALYTICAL RESULTS

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/6/2025 12:06:40 PM

JOB DESCRIPTION

Nederland, CO - Groundwater

JOB NUMBER

280-200316-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

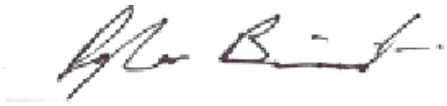
See page two for job notes and contact information.

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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1/6/2025 12:06:40 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-200316-1

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
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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

Job Narrative
280-200316-1

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

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

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

Radiochemistry data information:

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition, all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method.

Eurofins Environment Testing attests to the validity of the laboratory data generated by Eurofins facilities reported herein. All analyses performed by Eurofins Environment Testing facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins Environment Testing's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed below.

All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy or unless requested as wet weight by the client.

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

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

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

The method blank (MB) z-score is within limits, unless stated otherwise below, and is stored in the level IV raw data.

This laboratory report is confidential and is intended for the sole use of Eurofins Environment Testing and its client.

Receipt
The samples were received on 12/4/2024 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7°C and 2.3°C.

Receipt Exceptions
There were no sulfuric containers received for 353.2 for the following samples. The method was logged to be performed by the laboratory within 48 hours from the unpreserved container per the laboratory's SOP: CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8).

Job ID: 280-200316-1 (Continued) Eurofins Denver

Method 200.7 Rev 4.4 - Metals (ICP) - Dissolved
Samples CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8) were analyzed for Metals (ICP) - Dissolved. The samples were prepared on 12/6/2024 and analyzed on 12/7/2024.

Method 200.8 - ICPMS Total Metals - Dissolved
Samples CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8) were analyzed for ICPMS Total Metals - Dissolved. The samples were prepared on 12/6/2024 and analyzed on 12/10/2024 and 12/11/2024.

Method SM 2540C - Solids, Total Dissolved (TDS)
Samples CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8) were analyzed for Solids, Total Dissolved (TDS). The samples were analyzed on 12/5/2024 and 12/6/2024.

The sample duplicate (DUP) precision for analytical batch 280-677451 was outside control limits. Sample non-homogeneity is suspected.

Method 300.0 - Anions, Ion Chromatography
Samples CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 12/4/2024.

Method 353.2 - Nitrogen, Nitrate-Nitrite
Samples CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8) were analyzed for Nitrogen, Nitrate-Nitrite. The samples were analyzed on 12/5/2024.

Method SM 4500 Cl- E - Chloride, Total
Samples CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8) were analyzed for Chloride, Total. The samples were analyzed on 12/10/2024 and 12/18/2024.

Method SM 4500 SO4 E - Sulfate, Total
Samples CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8) were analyzed for Sulfate, Total. The samples were analyzed on 12/11/2024.

The method blank for analytical batch 280-678112 contained Sulfate above the method detection limit. This target analyte concentration was less than one half of the reporting limit (1/2 RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 901.1 - Cesium 137 & Other Gamma Emitters (GS) - Dissolved
Samples CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8) were analyzed for Cesium 137 & Other Gamma Emitters (GS) - Dissolved. The samples were prepared on 12/31/2024 and analyzed on 1/2/2025 and 1/3/2025.

Gamma prep batch 160-696157:

The detection goal of 20.0 pCi/L was not met for Cs-137 for the following samples. An elevated MDC can occur when higher background counts are applied to a peak ROI. This is due to the relatively small size of the peak or subsequent "force-fit" of the non-existent peak which resulted in higher than normal background counts due to statistical fluctuations in the Compton baseline. The laboratory does not believe this adversely affects the data, the activity is well below the RL and MDC: CROSS WELL

(280-200316-1), CARIBOU WELL (280-200316-5) and CROSS PORTAL (280-200316-6)

Gamma prep batch 160-696157:

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 (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7), CARIBOU PORTAL (280-200316-8), (LCS 160-696157/2-A), (MB 160-696157/1-A) and (280-200316-A-1-B DU)

Method 900.0 - Gross Alpha and Gross Beta Radioactivity - Dissolved
Samples CROSS WELL (280-200316-1), COMPLIANCE WELL (280-200316-2), COMPLIANCE 02 (280-200316-3), COMPLIANCE 03 (280-200316-4), CARIBOU WELL (280-200316-5), CROSS PORTAL (280-200316-6), CROSS PORTAL 02 (280-200316-7) and CARIBOU PORTAL (280-200316-8) were analyzed for Gross Alpha and Gross Beta Radioactivity - Dissolved. The samples were prepared on 12/9/2024 and analyzed on 12/11/2024.

Detection Summary

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

Job ID: 280-200316-1

Client Sample ID: CROSS WELL — Lab Sample ID: 280-200316-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0020	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.011	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.029		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.0036		0.0020	0.00071	mg/L	1		200.8	Dissolved
Manganese	0.0035	B	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.00077	J	0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.000061	J B	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.93		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.32	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.33		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	3.7		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	9.0	B	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE WELL — Lab Sample ID: 280-200316-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0022	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.0096	J B	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
Lead	0.00031	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0073	B	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0050		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00019	J B	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.093		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.34	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.33		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	84		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.3		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	10	B	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 02 — Lab Sample ID: 280-200316-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0022	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.0092	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.045		0.0030	0.00038	mg/L	1		200.8	Dissolved
Lead	0.00025	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0074	B	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0049		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.00019	J B	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.095		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.34	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.33		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	99		10	4.7	mg/L	1		SM 2540C	Total/NA
Chloride	3.3		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	10	B	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: COMPLIANCE 03 — Lab Sample ID: 280-200316-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.046	J	0.10	0.018	mg/L	1		200.7 Rev 4.4	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 280-200316-1

Client Sample ID: COMPLIANCE 03 (Continued) — Lab Sample ID: 280-200316-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.013	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.0021	J	0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	0.0028		0.0020	0.00071	mg/L	1		200.8	Dissolved
Total Dissolved Solids (TDS)	10		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	0.81	J B	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU WELL — Lab Sample ID: 280-200316-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.013	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.0068		0.0030	0.00038	mg/L	1		200.8	Dissolved
Copper	3.4		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.0024		0.0010	0.00023	mg/L	1		200.8	Dissolved
Zinc	0.025		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	0.085	J	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	53		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	2.5	J B	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL — Lab Sample ID: 280-200316-6

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
Iron	0.012	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00052	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.072		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.0012		0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0031		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00084	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0071	B	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0074		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.0010	B	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.25		0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate as N	0.098	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.049	J	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	120		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	12	B	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CROSS PORTAL 02 — Lab Sample ID: 280-200316-7

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 B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00046	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Barium	0.071		0.0030	0.00038	mg/L	1		200.8	Dissolved
Cadmium	0.0012		0.0010	0.00019	mg/L	1		200.8	Dissolved
Copper	0.0023		0.0020	0.00071	mg/L	1		200.8	Dissolved
Lead	0.00079	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0074	B	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0075		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.0010	B	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.24		0.010	0.0020	mg/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: CROSS PORTAL 02 (Continued) — Lab Sample ID: 280-200316-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.096	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.049	J	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	150		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	12	B	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: CARIBOU PORTAL — Lab Sample ID: 280-200316-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.0027	J	0.10	0.0015	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.011	J B	0.10	0.0091	mg/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.00068	J	0.0020	0.00040	mg/L	1		200.8	Dissolved
Arsenic	0.00050	J	0.0050	0.00050	mg/L	1		200.8	Dissolved
Barium	0.062		0.0030	0.00038	mg/L	1		200.8	Dissolved
Lead	0.00033	J	0.0010	0.00023	mg/L	1		200.8	Dissolved
Manganese	0.0013	J B	0.0030	0.00051	mg/L	1		200.8	Dissolved
Molybdenum	0.0072		0.0020	0.00037	mg/L	1		200.8	Dissolved
Uranium	0.0067	B	0.0010	0.000030	mg/L	1		200.8	Dissolved
Zinc	0.0062	J	0.010	0.0020	mg/L	1		200.8	Dissolved
Nitrate Nitrite as N	0.11		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	130		10	4.7	mg/L	1		SM 2540C	Total/NA
Sulfate	9.6	B	5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-200316-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	ICPMS Total Metals	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 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
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: 280-200316-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-200316-1	CROSS WELL	Water	12/04/24 13:00	12/04/24 16:40
280-200316-2	COMPLIANCE WELL	Water	12/04/24 13:30	12/04/24 16:40
280-200316-3	COMPLIANCE 02	Water	12/04/24 13:30	12/04/24 16:40
280-200316-4	COMPLIANCE 03	Water	12/04/24 13:30	12/04/24 16:40
280-200316-5	CARIBOU WELL	Water	12/04/24 11:30	12/04/24 16:40
280-200316-6	CROSS PORTAL	Water	12/04/24 12:15	12/04/24 16:40
280-200316-7	CROSS PORTAL 02	Water	12/04/24 12:15	12/04/24 16:40
280-200316-8	CARIBOU PORTAL	Water	12/04/24 11:15	12/04/24 16:40

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

Client Sample ID: CROSS WELL
Date Collected: 12/04/24 13:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/06/24 07:59	12/07/24 08:04	1
Boron	**0.0020**	**J**	0.10	0.0015	mg/L		12/06/24 07:59	12/07/24 08:04	1
Iron	**0.011**	**J B**	0.10	0.0091	mg/L		12/06/24 07:59	12/07/24 08:04	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/06/24 07:59	12/07/24 08:19	1
Boron	**0.0022**	**J**	0.10	0.0015	mg/L		12/06/24 07:59	12/07/24 08:19	1
Iron	**0.0096**	**J B**	0.10	0.0091	mg/L		12/06/24 07:59	12/07/24 08:19	1

Client Sample ID: COMPLIANCE 02
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/06/24 07:59	12/07/24 08:23	1
Boron	**0.0022**	**J**	0.10	0.0015	mg/L		12/06/24 07:59	12/07/24 08:23	1
Iron	**0.0092**	**J B**	0.10	0.0091	mg/L		12/06/24 07:59	12/07/24 08:23	1

Client Sample ID: COMPLIANCE 03
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.046**	**J**	0.10	0.018	mg/L		12/06/24 07:59	12/07/24 08:27	1
Boron	ND		0.10	0.0015	mg/L		12/06/24 07:59	12/07/24 08:27	1
Iron	**0.013**	**J B**	0.10	0.0091	mg/L		12/06/24 07:59	12/07/24 08:27	1

Client Sample ID: CARIBOU WELL
Date Collected: 12/04/24 11:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/06/24 07:59	12/07/24 08:30	1
Boron	ND		0.10	0.0015	mg/L		12/06/24 07:59	12/07/24 08:30	1
Iron	**0.013**	**J B**	0.10	0.0091	mg/L		12/06/24 07:59	12/07/24 08:30	1

Client Sample ID: CROSS PORTAL
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/06/24 07:59	12/07/24 08:34	1
Boron	**0.0024**	**J**	0.10	0.0015	mg/L		12/06/24 07:59	12/07/24 08:34	1
Iron	**0.012**	**J B**	0.10	0.0091	mg/L		12/06/24 07:59	12/07/24 08:34	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/06/24 07:59	12/07/24 08:38	1
Boron	**0.0030**	**J**	0.10	0.0015	mg/L		12/06/24 07:59	12/07/24 08:38	1
Iron	**0.012**	**J B**	0.10	0.0091	mg/L		12/06/24 07:59	12/07/24 08:38	1

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

Client Sample ID: CARIBOU PORTAL
Date Collected: 12/04/24 11:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/06/24 07:59	12/07/24 08:41	1
Boron	**0.0027**	**J**	0.10	0.0015	mg/L		12/06/24 07:59	12/07/24 08:41	1
Iron	**0.011**	**J B**	0.10	0.0091	mg/L		12/06/24 07:59	12/07/24 08:41	1

Method: EPA 200.8 - ICPMS Total Metals - Dissolved

Client Sample ID: CROSS WELL
Date Collected: 12/04/24 13:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		12/06/24 07:59	12/10/24 16:35	1
Arsenic	ND		0.0050	0.00050	mg/L		12/06/24 07:59	12/10/24 16:35	1
Barium	**0.029**		0.0030	0.00038	mg/L		12/06/24 07:59	12/10/24 16:35	1
Cadmium	ND		0.0010	0.00019	mg/L		12/06/24 07:59	12/10/24 16:35	1
Copper	**0.0036**		0.0020	0.00071	mg/L		12/06/24 07:59	12/10/24 16:35	1
Lead	ND		0.0010	0.00023	mg/L		12/06/24 07:59	12/10/24 16:35	1
Manganese	**0.0035**	**B**	0.0030	0.00051	mg/L		12/06/24 07:59	12/10/24 16:35	1
Molybdenum	**0.00077**	**J**	0.0020	0.00037	mg/L		12/06/24 07:59	12/10/24 16:35	1
Uranium	**0.000061**	**J B**	0.0010	0.000030	mg/L		12/06/24 07:59	12/10/24 16:35	1
Zinc	**0.93**		0.010	0.0020	mg/L		12/06/24 07:59	12/10/24 16:35	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		12/06/24 07:59	12/10/24 16:37	1
Arsenic	ND		0.0050	0.00050	mg/L		12/06/24 07:59	12/10/24 16:37	1
Barium	**0.044**		0.0030	0.00038	mg/L		12/06/24 07:59	12/10/24 16:37	1
Cadmium	ND		0.0010	0.00019	mg/L		12/06/24 07:59	12/10/24 16:37	1
Copper	ND		0.0020	0.00071	mg/L		12/06/24 07:59	12/10/24 16:37	1
Lead	**0.00031**	**J**	0.0010	0.00023	mg/L		12/06/24 07:59	12/10/24 16:37	1
Manganese	**0.0073**	**B**	0.0030	0.00051	mg/L		12/06/24 07:59	12/10/24 16:37	1
Molybdenum	**0.0050**		0.0020	0.00037	mg/L		12/06/24 07:59	12/10/24 16:37	1
Uranium	**0.00019**	**J B**	0.0010	0.000030	mg/L		12/06/24 07:59	12/10/24 16:37	1
Zinc	**0.093**		0.010	0.0020	mg/L		12/06/24 07:59	12/10/24 16:37	1

Client Sample ID: COMPLIANCE 02
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		12/06/24 07:59	12/10/24 16:40	1
Arsenic	ND		0.0050	0.00050	mg/L		12/06/24 07:59	12/10/24 16:40	1
Barium	**0.045**		0.0030	0.00038	mg/L		12/06/24 07:59	12/10/24 16:40	1
Cadmium	ND		0.0010	0.00019	mg/L		12/06/24 07:59	12/10/24 16:40	1
Copper	ND		0.0020	0.00071	mg/L		12/06/24 07:59	12/10/24 16:40	1
Lead	**0.00025**	**J**	0.0010	0.00023	mg/L		12/06/24 07:59	12/10/24 16:40	1
Manganese	**0.0074**	**B**	0.0030	0.00051	mg/L		12/06/24 07:59	12/10/24 16:40	1
Molybdenum	**0.0049**		0.0020	0.00037	mg/L		12/06/24 07:59	12/10/24 16:40	1
Uranium	**0.00019**	**J B**	0.0010	0.000030	mg/L		12/06/24 07:59	12/10/24 16:40	1
Zinc	**0.095**		0.010	0.0020	mg/L		12/06/24 07:59	12/10/24 16:40	1

Method: EPA 200.8 - ICPMS Total Metals - Dissolved

Client Sample ID: COMPLIANCE 03
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40
Lab Sample ID: 280-200316-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		12/06/24 07:59	12/10/24 16:42	1
Arsenic	ND		0.0050	0.00050	mg/L		12/06/24 07:59	12/10/24 16:42	1
Barium	**0.0021**	**J**	0.0030	0.00038	mg/L		12/06/24 07:59	12/10/24 16:42	1
Cadmium	ND		0.0010	0.00019	mg/L		12/06/24 07:59	12/10/24 16:42	1
Copper	**0.0028**		0.0020	0.00071	mg/L		12/06/24 07:59	12/10/24 16:42	1
Lead	ND		0.0010	0.00023	mg/L		12/06/24 07:59	12/10/24 16:42	1
Manganese	ND		0.0030	0.00051	mg/L		12/06/24 07:59	12/10/24 16:42	1
Molybdenum	ND		0.0020	0.00037	mg/L		12/06/24 07:59	12/10/24 16:42	1
Uranium	ND		0.0010	0.000030	mg/L		12/06/24 07:59	12/10/24 16:42	1
Zinc	ND		0.010	0.0020	mg/L		12/06/24 07:59	12/10/24 16:42	1

Client Sample ID: CARIBOU WELL
Date Collected: 12/04/24 11:30
Date Received: 12/04/24 16:40
Lab Sample ID: 280-200316-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		12/06/24 07:59	12/10/24 16:45	1
Arsenic	ND		0.0050	0.00050	mg/L		12/06/24 07:59	12/10/24 16:45	1
Barium	**0.0068**		0.0030	0.00038	mg/L		12/06/24 07:59	12/10/24 16:45	1
Cadmium	ND		0.0010	0.00019	mg/L		12/06/24 07:59	12/10/24 16:45	1
Copper	**3.4**		0.0020	0.00071	mg/L		12/06/24 07:59	12/10/24 16:45	1
Lead	**0.0024**		0.0010	0.00023	mg/L		12/06/24 07:59	12/10/24 16:45	1
Manganese	ND		0.0030	0.00051	mg/L		12/06/24 07:59	12/10/24 16:45	1
Molybdenum	ND		0.0020	0.00037	mg/L		12/06/24 07:59	12/10/24 16:45	1
Uranium	ND		0.0010	0.000030	mg/L		12/06/24 07:59	12/10/24 16:45	1
Zinc	**0.025**		0.010	0.0020	mg/L		12/06/24 07:59	12/10/24 16:45	1

Client Sample ID: CROSS PORTAL
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40
Lab Sample ID: 280-200316-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00052**	**J**	0.0020	0.00040	mg/L		12/06/24 07:59	12/10/24 16:47	1
Arsenic	ND		0.0050	0.00050	mg/L		12/06/24 07:59	12/10/24 16:47	1
Barium	**0.072**		0.0030	0.00038	mg/L		12/06/24 07:59	12/10/24 16:47	1
Cadmium	**0.0012**		0.0010	0.00019	mg/L		12/06/24 07:59	12/10/24 16:47	1
Copper	**0.0031**		0.0020	0.00071	mg/L		12/06/24 07:59	12/10/24 16:47	1
Lead	**0.00084**	**J**	0.0010	0.00023	mg/L		12/06/24 07:59	12/10/24 16:47	1
Manganese	**0.0071**	**B**	0.0030	0.00051	mg/L		12/06/24 07:59	12/10/24 16:47	1
Molybdenum	**0.0074**		0.0020	0.00037	mg/L		12/06/24 07:59	12/10/24 16:47	1
Uranium	**0.0010**	**B**	0.0010	0.000030	mg/L		12/06/24 07:59	12/10/24 16:47	1
Zinc	**0.25**		0.010	0.0020	mg/L		12/06/24 07:59	12/10/24 16:47	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40
Lab Sample ID: 280-200316-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00046**	**J**	0.0020	0.00040	mg/L		12/06/24 07:59	12/10/24 17:15	1
Arsenic	ND		0.0050	0.00050	mg/L		12/06/24 07:59	12/10/24 17:15	1
Barium	**0.071**		0.0030	0.00038	mg/L		12/06/24 07:59	12/10/24 17:15	1
Cadmium	**0.0012**		0.0010	0.00019	mg/L		12/06/24 07:59	12/10/24 17:15	1
Copper	**0.0023**		0.0020	0.00071	mg/L		12/06/24 07:59	12/10/24 17:15	1

Method: EPA 200.8 - ICPMS Total Metals - Dissolved (Continued)

Client Sample ID: CROSS PORTAL 02
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00079	J	0.0010	0.00023	mg/L		12/06/24 07:59	12/10/24 17:15	1
Manganese	0.0074	B	0.0030	0.00051	mg/L		12/06/24 07:59	12/10/24 17:15	1
Molybdenum	0.0075		0.0020	0.00037	mg/L		12/06/24 07:59	12/10/24 17:15	1
Uranium	0.0010	B	0.0010	0.000030	mg/L		12/06/24 07:59	12/10/24 17:15	1
Zinc	0.24		0.010	0.0020	mg/L		12/06/24 07:59	12/11/24 17:10	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 12/04/24 11:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00068	J	0.0020	0.00040	mg/L		12/06/24 07:59	12/10/24 17:17	1
Arsenic	0.00050	J	0.0050	0.00050	mg/L		12/06/24 07:59	12/10/24 17:17	1
Barium	0.062		0.0030	0.00038	mg/L		12/06/24 07:59	12/10/24 17:17	1
Cadmium	ND		0.0010	0.00019	mg/L		12/06/24 07:59	12/10/24 17:17	1
Copper	ND		0.0020	0.00071	mg/L		12/06/24 07:59	12/10/24 17:17	1
Lead	0.00033	J	0.0010	0.00023	mg/L		12/06/24 07:59	12/10/24 17:17	1
Manganese	0.0013	J B	0.0030	0.00051	mg/L		12/06/24 07:59	12/10/24 17:17	1
Molybdenum	0.0072		0.0020	0.00037	mg/L		12/06/24 07:59	12/10/24 17:17	1
Uranium	0.0067	B	0.0010	0.000030	mg/L		12/06/24 07:59	12/10/24 17:17	1
Zinc	0.0062	J	0.010	0.0020	mg/L		12/06/24 07:59	12/11/24 17:12	1

General Chemistry

Client Sample ID: CROSS WELL
Date Collected: 12/04/24 13:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.32	J	0.50	0.090	mg/L			12/04/24 22:39	1
Nitrate Nitrite as N (EPA 353.2)	0.33		0.10	0.044	mg/L			12/05/24 13:09	1
Total Dissolved Solids (TDS) (SM 2540C)	92		10	4.7	mg/L			12/05/24 08:50	1
Chloride (SM 4500 Cl- E)	3.7		2.0	0.68	mg/L			12/10/24 13:30	1
Sulfate (SM 4500 SO4 E)	9.0	B	5.0	0.71	mg/L			12/11/24 11:19	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.34	J	0.50	0.090	mg/L			12/04/24 22:51	1
Nitrate Nitrite as N (EPA 353.2)	0.33		0.10	0.044	mg/L			12/05/24 13:13	1
Total Dissolved Solids (TDS) (SM 2540C)	84		10	4.7	mg/L			12/05/24 08:50	1
Chloride (SM 4500 Cl- E)	3.3		2.0	0.68	mg/L			12/10/24 13:30	1
Sulfate (SM 4500 SO4 E)	10	B	5.0	0.71	mg/L			12/11/24 11:19	1

Client Sample ID: COMPLIANCE 02
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.34	J	0.50	0.090	mg/L			12/04/24 23:02	1
Nitrate Nitrite as N (EPA 353.2)	0.33		0.10	0.044	mg/L			12/05/24 13:14	1

General Chemistry (Continued)

Client Sample ID: COMPLIANCE 02
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS) (SM 2540C)	**99**		10	4.7	mg/L			12/05/24 08:50	1
Chloride (SM 4500 Cl- E)	**3.3**		2.0	0.68	mg/L			12/10/24 13:28	1
Sulfate (SM 4500 SO4 E)	**10**	**B**	5.0	0.71	mg/L			12/11/24 11:18	1

Client Sample ID: COMPLIANCE 03
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			12/04/24 23:13	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.10	0.044	mg/L			12/05/24 13:15	1
Total Dissolved Solids (TDS) (SM 2540C)	**10**		10	4.7	mg/L			12/05/24 08:50	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/10/24 13:29	1
Sulfate (SM 4500 SO4 E)	**0.81**	**J B**	5.0	0.71	mg/L			12/11/24 11:19	1

Client Sample ID: CARIBOU WELL
Date Collected: 12/04/24 11:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.14**	**J**	0.50	0.090	mg/L			12/04/24 20:35	1
Nitrate Nitrite as N (EPA 353.2)	**0.085**	**J**	0.10	0.044	mg/L			12/05/24 13:17	1
Total Dissolved Solids (TDS) (SM 2540C)	**53**		10	4.7	mg/L			12/05/24 08:50	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/10/24 13:29	1
Sulfate (SM 4500 SO4 E)	**2.5**	**J B**	5.0	0.71	mg/L			12/11/24 11:19	1

Client Sample ID: CROSS PORTAL
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.098**	**J**	0.50	0.090	mg/L			12/04/24 21:43	1
Nitrate Nitrite as N (EPA 353.2)	**0.049**	**J**	0.10	0.044	mg/L			12/05/24 13:18	1
Total Dissolved Solids (TDS) (SM 2540C)	**120**		10	4.7	mg/L			12/05/24 08:50	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/10/24 13:29	1
Sulfate (SM 4500 SO4 E)	**12**	**B**	5.0	0.71	mg/L			12/11/24 11:19	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.096**	**J**	0.50	0.090	mg/L			12/04/24 22:28	1
Nitrate Nitrite as N (EPA 353.2)	**0.049**	**J**	0.10	0.044	mg/L			12/05/24 13:19	1
Total Dissolved Solids (TDS) (SM 2540C)	**150**		10	4.7	mg/L			12/05/24 08:50	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/10/24 13:29	1
Sulfate (SM 4500 SO4 E)	**12**	**B**	5.0	0.71	mg/L			12/11/24 11:20	1

General Chemistry

Client Sample ID: CARIBOU PORTAL
Date Collected: 12/04/24 11:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			12/04/24 20:12	1
Nitrate Nitrite as N (EPA 353.2)	**0.11**		0.10	0.044	mg/L			12/05/24 13:20	1
Total Dissolved Solids (TDS) (SM 2540C)	**130**		10	4.7	mg/L			12/06/24 09:00	1
Chloride (SM 4500 Cl- E)	ND		2.0	0.68	mg/L			12/18/24 10:52	1
Sulfate (SM 4500 SO4 E)	**9.6**	**B**	5.0	0.71	mg/L			12/11/24 11:20	1

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

Client Sample ID: CROSS WELL
Date Collected: 12/04/24 13:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.130	U	1.04	1.04	3.00	1.99	pCi/L	12/09/24 08:07	12/11/24 15:57	1
Gross Beta	**1.29**		0.664	0.676	4.00	0.988	pCi/L	12/09/24 08:07	12/11/24 15:57	1

Client Sample ID: COMPLIANCE WELL
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.370	U	0.780	0.782	3.00	1.38	pCi/L	12/09/24 08:07	12/11/24 15:57	1
Gross Beta	**0.869**		0.531	0.538	4.00	0.787	pCi/L	12/09/24 08:07	12/11/24 15:57	1

Client Sample ID: COMPLIANCE 02
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.524	U	1.03	1.03	3.00	1.80	pCi/L	12/09/24 08:07	12/11/24 15:57	1
Gross Beta	**1.20**		0.624	0.636	4.00	0.904	pCi/L	12/09/24 08:07	12/11/24 15:57	1

Client Sample ID: COMPLIANCE 03
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.0564	U	0.633	0.633	3.00	1.17	pCi/L	12/09/24 08:07	12/11/24 15:46	1
Gross Beta	-0.291	U	0.427	0.428	4.00	0.825	pCi/L	12/09/24 08:07	12/11/24 15:46	1

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

Client Sample ID: CARIBOU WELL
Date Collected: 12/04/24 11:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	**1.81**		0.883	0.906	3.00	1.18	pCi/L	12/09/24 08:07	12/11/24 15:46	1
Gross Beta	**1.11**		0.605	0.615	4.00	0.856	pCi/L	12/09/24 08:07	12/11/24 15:46	1

Client Sample ID: CROSS PORTAL
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.629	U	1.10	1.10	3.00	1.89	pCi/L	12/09/24 08:07	12/11/24 15:46	1
Gross Beta	0.644	U	0.515	0.519	4.00	0.796	pCi/L	12/09/24 08:07	12/11/24 15:46	1

Client Sample ID: CROSS PORTAL 02
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.592	U	0.868	0.870	3.00	1.85	pCi/L	12/09/24 08:07	12/11/24 15:45	1
Gross Beta	0.871	U	0.594	0.601	4.00	0.921	pCi/L	12/09/24 08:07	12/11/24 15:45	1

Client Sample ID: CARIBOU PORTAL
Date Collected: 12/04/24 11:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	**5.75**		1.81	1.92	3.00	1.94	pCi/L	12/09/24 08:07	12/11/24 15:57	1
Gross Beta	0.820	U	0.730	0.735	4.00	1.07	pCi/L	12/09/24 08:07	12/11/24 15:57	1

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

Client Sample ID: CROSS WELL
Date Collected: 12/04/24 13:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-7.26	U G	9.45	9.48	20.0	24.7	pCi/L	12/31/24 16:05	01/02/25 20:22	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Other Detected Radionuclide	*None*						*pCi/L*	*12/31/24 16:05*	*01/02/25 20:22*	*1*

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

Client Sample ID: COMPLIANCE WELL
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	3.87	U	8.48	8.49	20.0	14.7	pCi/L	12/31/24 16:05	01/02/25 20:22	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Other Detected Radionuclide	*None*						*pCi/L*	*12/31/24 16:05*	*01/02/25 20:22*	*1*

Client Sample ID: COMPLIANCE 02
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	2.28	U	9.17	9.18	20.0	16.3	pCi/L	12/31/24 16:05	01/02/25 21:38	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Other Detected Radionuclide	*None*						*pCi/L*	*12/31/24 16:05*	*01/02/25 21:38*	*1*

Client Sample ID: COMPLIANCE 03
Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	0.203	U	8.81	8.81	20.0	16.1	pCi/L	12/31/24 16:05	01/02/25 21:38	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Other Detected Radionuclide	*None*						*pCi/L*	*12/31/24 16:05*	*01/02/25 21:38*	*1*

Client Sample ID: CARIBOU WELL
Date Collected: 12/04/24 11:30
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-10.5	U G	22.0	22.1	20.0	21.9	pCi/L	12/31/24 16:05	01/02/25 22:41	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Pb-214	*59.9*		*18.7*	*19.6*		*19.3*	*pCi/L*	*12/31/24 16:05*	*01/02/25 22:41*	*1*

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

Client Sample ID: CROSS PORTAL
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-6.70	U G	13.2	13.2	20.0	22.3	pCi/L	12/31/24 16:05	01/02/25 22:40	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Other Detected Radionuclide	*None*						*pCi/L*	*12/31/24 16:05*	*01/02/25 22:40*	*1*

Client Sample ID: CROSS PORTAL 02
Date Collected: 12/04/24 12:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-7.33	U	8.94	8.97	20.0	19.9	pCi/L	12/31/24 16:05	01/02/25 22:41	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Other Detected Radionuclide	*None*						*pCi/L*	*12/31/24 16:05*	*01/02/25 22:41*	*1*

Client Sample ID: CARIBOU PORTAL
Date Collected: 12/04/24 11:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-2.10	U	9.13	9.13	20.0	16.3	pCi/L	12/31/24 16:05	01/03/25 01:32	1

Other Detected Radionuclides	*Result*	*Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Other Detected Radionuclide	*None*						*pCi/L*	*12/31/24 16:05*	*01/03/25 01:32*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-677553/1-A
Matrix: Water
Analysis Batch: 677832

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.10	0.018	mg/L		12/06/24 07:59	12/07/24 07:15	1
Boron	ND		0.10	0.0015	mg/L		12/06/24 07:59	12/07/24 07:15	1
Iron	0.0115	J	0.10	0.0091	mg/L		12/06/24 07:59	12/07/24 07:15	1

Lab Sample ID: LCS 280-677553/2-A
Matrix: Water
Analysis Batch: 677832

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.66		mg/L		97	87 - 111
Boron	2.00	1.96		mg/L		98	86 - 110
Iron	10.0	10.1		mg/L		101	85 - 115

Lab Sample ID: 280-200316-8 MS
Matrix: Water
Analysis Batch: 677832

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 677553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		10.0	9.70		mg/L		97	70 - 130
Boron	0.0027	J	2.00	1.98		mg/L		99	70 - 130
Iron	0.011	J B	10.0	10.1		mg/L		101	70 - 130

Lab Sample ID: 280-200316-8 MSD
Matrix: Water
Analysis Batch: 677832

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 677553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.67		mg/L		97	70 - 130	0	20
Boron	0.0027	J	2.00	1.98		mg/L		99	70 - 130	0	20
Iron	0.011	J B	10.0	10.1		mg/L		101	70 - 130	0	20

Method: 200.8 - ICPMS Total Metals

Lab Sample ID: MB 280-677553/1-A
Matrix: Water
Analysis Batch: 678046

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00040	mg/L		12/06/24 07:59	12/10/24 16:30	1
Arsenic	ND		0.0050	0.00050	mg/L		12/06/24 07:59	12/10/24 16:30	1
Barium	ND		0.0030	0.00038	mg/L		12/06/24 07:59	12/10/24 16:30	1
Cadmium	ND		0.0010	0.00019	mg/L		12/06/24 07:59	12/10/24 16:30	1
Copper	ND		0.0020	0.00071	mg/L		12/06/24 07:59	12/10/24 16:30	1
Lead	ND		0.0010	0.00023	mg/L		12/06/24 07:59	12/10/24 16:30	1
Manganese	0.000624	J	0.0030	0.00051	mg/L		12/06/24 07:59	12/10/24 16:30	1
Molybdenum	ND		0.0020	0.00037	mg/L		12/06/24 07:59	12/10/24 16:30	1
Uranium	0.0000400	J	0.0010	0.000030	mg/L		12/06/24 07:59	12/10/24 16:30	1
Zinc	ND		0.010	0.0020	mg/L		12/06/24 07:59	12/10/24 16:30	1

Method: 200.8 - ICPMS Total Metals (Continued)

Lab Sample ID: LCS 280-677553/21-A
Matrix: Water
Analysis Batch: 678046

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0400	0.0399		mg/L		100	85 - 115
Arsenic	0.0400	0.0396		mg/L		99	89 - 111
Barium	0.0400	0.0402		mg/L		100	89 - 115
Cadmium	0.0400	0.0412		mg/L		103	89 - 111
Copper	0.0400	0.0407		mg/L		102	90 - 115
Lead	0.0400	0.0402		mg/L		100	88 - 115
Manganese	0.0400	0.0395		mg/L		99	87 - 115
Molybdenum	0.0400	0.0401		mg/L		100	89 - 112
Uranium	0.0400	0.0406		mg/L		101	85 - 115
Zinc	0.0400	0.0398		mg/L		99	88 - 115

Lab Sample ID: 280-200316-8 MS
Matrix: Water
Analysis Batch: 678046

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 677553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00068	J	0.0400	0.0406		mg/L		100	85 - 115
Arsenic	0.00050	J	0.0400	0.0406		mg/L		102	79 - 120
Barium	0.062		0.0400	0.101		mg/L		96	89 - 115
Cadmium	ND		0.0400	0.0396		mg/L		99	89 - 111
Copper	ND		0.0400	0.0385		mg/L		96	90 - 115
Lead	0.00033	J	0.0400	0.0406		mg/L		101	88 - 115
Manganese	0.0013	J B	0.0400	0.0390		mg/L		94	87 - 115
Molybdenum	0.0072		0.0400	0.0476		mg/L		101	89 - 112
Uranium	0.0067	B	0.0400	0.0480		mg/L		103	85 - 115

Lab Sample ID: 280-200316-8 MS
Matrix: Water
Analysis Batch: 678242

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 677553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.0062	J	0.0400	0.0453		mg/L		98	88 - 115

Lab Sample ID: 280-200316-8 MSD
Matrix: Water
Analysis Batch: 678046

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 677553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.00068	J	0.0400	0.0413		mg/L		101	85 - 115	2	20
Arsenic	0.00050	J	0.0400	0.0412		mg/L		103	79 - 120	1	20
Barium	0.062		0.0400	0.101		mg/L		98	89 - 115	0	20
Cadmium	ND		0.0400	0.0399		mg/L		100	89 - 111	1	20
Copper	ND		0.0400	0.0396		mg/L		99	90 - 115	3	20
Lead	0.00033	J	0.0400	0.0415		mg/L		103	88 - 115	2	20
Manganese	0.0013	J B	0.0400	0.0409		mg/L		99	87 - 115	5	20
Molybdenum	0.0072		0.0400	0.0474		mg/L		100	89 - 112	0	20
Uranium	0.0067	B	0.0400	0.0490		mg/L		106	85 - 115	2	20

Method: 200.8 - ICPMS Total Metals (Continued)

Lab Sample ID: 280-200316-8 MSD
Matrix: Water
Analysis Batch: 678242

Client Sample ID: CARIBOU PORTAL
Prep Type: Dissolved
Prep Batch: 677553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	0.0062	J	0.0400	0.0455		mg/L		98	88 - 115	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-677296/51
Matrix: Water
Analysis Batch: 677296

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			12/04/24 21:31	1

Lab Sample ID: MB 280-677296/6
Matrix: Water
Analysis Batch: 677296

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			12/04/24 11:06	1

Lab Sample ID: LCS 280-677296/4
Matrix: Water
Analysis Batch: 677296

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	4.89		mg/L		98	90 - 110

Lab Sample ID: LCS 280-677296/49
Matrix: Water
Analysis Batch: 677296

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.88		mg/L		98	90 - 110

Lab Sample ID: LCSD 280-677296/5
Matrix: Water
Analysis Batch: 677296

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	4.89		mg/L		98	90 - 110	0	10

Lab Sample ID: LCSD 280-677296/50
Matrix: Water
Analysis Batch: 677296

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

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-677296/3
Matrix: Water
Analysis Batch: 677296

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.500	0.499	J	mg/L		100	50 - 150		

Lab Sample ID: 280-200316-6 MS
Matrix: Water
Analysis Batch: 677296

Client Sample ID: CROSS PORTAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.098	J	5.00	5.52		mg/L		108	80 - 120		

Lab Sample ID: 280-200316-6 MSD
Matrix: Water
Analysis Batch: 677296

Client Sample ID: CROSS 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	0.098	J	5.00	5.52		mg/L		108	80 - 120	0	20

Lab Sample ID: 280-200316-6 DU
Matrix: Water
Analysis Batch: 677296

Client Sample ID: CROSS PORTAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.098	J		0.0963	J	mg/L				1	15

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-677547/98
Matrix: Water
Analysis Batch: 677547

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			12/05/24 12:50	1

Lab Sample ID: LCS 280-677547/96
Matrix: Water
Analysis Batch: 677547

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	0.965		mg/L		96	90 - 110		

Lab Sample ID: LCSD 280-677547/97
Matrix: Water
Analysis Batch: 677547

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	0.968		mg/L		97	90 - 110	0	10

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

Lab Sample ID: 280-200316-1 MS
Matrix: Water
Analysis Batch: 677547

Client Sample ID: CROSS WELL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.33		2.00	2.53		mg/L		110	90 - 110

Lab Sample ID: 280-200316-1 MSD
Matrix: Water
Analysis Batch: 677547

Client Sample ID: CROSS WELL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.33		2.00	2.53		mg/L		110	90 - 110	0	10

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

Lab Sample ID: MB 280-677451/1
Matrix: Water
Analysis Batch: 677451

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			12/05/24 08:50	1

Lab Sample ID: LCS 280-677451/2
Matrix: Water
Analysis Batch: 677451

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)	503	467		mg/L		93	88 - 114

Lab Sample ID: 280-200316-7 DU
Matrix: Water
Analysis Batch: 677451

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)	150		130	F3	mg/L		13	10

Lab Sample ID: MB 280-677600/1
Matrix: Water
Analysis Batch: 677600

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			12/06/24 09:00	1

Lab Sample ID: LCS 280-677600/2
Matrix: Water
Analysis Batch: 677600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids (TDS)	501	498		mg/L		99	88 - 114

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

Lab Sample ID: 280-200033-B-1 DU
Matrix: Water
Analysis Batch: 677600

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)	2200		2180		mg/L		0.9	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-678002/15
Matrix: Water
Analysis Batch: 678002

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			12/10/24 13:28	1

Lab Sample ID: LCS 280-678002/13
Matrix: Water
Analysis Batch: 678002

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	20.4		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-678002/14
Matrix: Water
Analysis Batch: 678002

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	20.7		mg/L		104	90 - 110	2	10

Lab Sample ID: 280-200316-3 MS
Matrix: Water
Analysis Batch: 678002

Client Sample ID: COMPLIANCE 02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.3		20.0	24.6		mg/L		106	90 - 110

Lab Sample ID: 280-200316-3 MSD
Matrix: Water
Analysis Batch: 678002

Client Sample ID: COMPLIANCE 02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.3		20.0	23.5		mg/L		101	90 - 110	5	10

Lab Sample ID: MB 280-678965/15
Matrix: Water
Analysis Batch: 678965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			12/18/24 10:51	1

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

Lab Sample ID: LCS 280-678965/13
Matrix: Water
Analysis Batch: 678965

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			20.0	18.5		mg/L		93	90 - 110		

Lab Sample ID: LCSD 280-678965/14
Matrix: Water
Analysis Batch: 678965

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			20.0	18.5		mg/L		92	90 - 110	0	10

Lab Sample ID: 280-200316-8 MS
Matrix: Water
Analysis Batch: 678965

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		
Chloride	ND		20.0	19.9		mg/L		99	90 - 110		

Lab Sample ID: 280-200316-8 MSD
Matrix: Water
Analysis Batch: 678965

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
Chloride	ND		20.0	20.6		mg/L		103	90 - 110	4	10

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 280-678112/14
Matrix: Water
Analysis Batch: 678112

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.846	J	5.0	0.71	mg/L			12/11/24 11:18	1

Lab Sample ID: LCS 280-678112/12
Matrix: Water
Analysis Batch: 678112

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

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

Lab Sample ID: LCSD 280-678112/13
Matrix: Water
Analysis Batch: 678112

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	26.0		mg/L		104	90 - 110	0	10

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

Lab Sample ID: 280-200316-3 MS
Matrix: Water
Analysis Batch: 678112

Client Sample ID: COMPLIANCE 02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10	B	25.0	33.3		mg/L		93	90 - 110

Lab Sample ID: 280-200316-3 MSD
Matrix: Water
Analysis Batch: 678112

Client Sample ID: COMPLIANCE 02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10	B	25.0	35.5		mg/L		102	90 - 110	6	10

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-692607/1-A
Matrix: Water
Analysis Batch: 693093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 692607

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.02837	U	0.587	0.587	3.00	1.11	pCi/L	12/09/24 08:07	12/11/24 15:41	1
Gross Beta	-0.4452	U	0.482	0.484	4.00	0.938	pCi/L	12/09/24 08:07	12/11/24 15:41	1

Lab Sample ID: LCS 160-692607/2-A
Matrix: Water
Analysis Batch: 693093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 692607

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	49.5	55.61		7.91	3.00	2.32	pCi/L	112	75 - 125

Lab Sample ID: LCSB 160-692607/3-A
Matrix: Water
Analysis Batch: 693093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 692607

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	70.5	67.02		7.22	4.00	0.996	pCi/L	95	75 - 125

Lab Sample ID: 280-200316-7 MS
Matrix: Water
Analysis Batch: 693093

Client Sample ID: CROSS PORTAL 02
Prep Type: Dissolved
Prep Batch: 692607

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	-0.592	U	49.5	44.08		6.40	3.00	1.82	pCi/L	89	60 - 140

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

Lab Sample ID: 280-200316-7 MSBT
Matrix: Water
Analysis Batch: 693093

Client Sample ID: CROSS PORTAL 02
Prep Type: Dissolved
Prep Batch: 692607

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	0.871	U	70.5	66.40		7.18	4.00	0.817	pCi/L	93	60 - 140

Lab Sample ID: 280-200316-7 DU
Matrix: Water
Analysis Batch: 693093

Client Sample ID: CROSS PORTAL 02
Prep Type: Dissolved
Prep Batch: 692607

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Gross Alpha	-0.592	U	1.517	U	1.08	3.00	1.56	pCi/L	1.08	1
Gross Beta	0.871	U	0.8665	U	0.667	4.00	1.02	pCi/L	0	1

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

Lab Sample ID: MB 160-696157/1-A
Matrix: Water
Analysis Batch: 696459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 696157

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Cesium-137	-4.874	U	9.17	9.18	20.0	17.3	pCi/L	12/31/24 16:05	01/02/25 20:22	1

Other Detected Radionuclides	*MB Result*	*MB Qualifier*	*Count Uncert. (2σ+/-)*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*Prepared*	*Analyzed*	*Dil Fac*
Other Detected Radionuclide	*None*						*pCi/L*	*12/31/24 16:05*	*01/02/25 20:22*	*1*

Lab Sample ID: LCS 160-696157/2-A
Matrix: Water
Analysis Batch: 696580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 696157

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	135000	145800		15900		1060	pCi/L	108	75 - 125
Cesium-137	39200	45340		4500	20.0	103	pCi/L	116	75 - 125
Cobalt-60	14100	15410		1510		55.0	pCi/L	109	75 - 125

Lab Sample ID: 280-200316-1 DU
Matrix: Water
Analysis Batch: 696459

Client Sample ID: CROSS WELL
Prep Type: Dissolved
Prep Batch: 696157

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Cesium-137	-7.26	U G	-6.295	U	10.2	20.0	19.3	pCi/L	0.05	1

Other Detected Radionuclides	*Sample Result*	*Sample Qual*	*DU Result*	*DU Qual*	*Total Uncert. (2σ+/-)*	*RL*	*MDC*	*Unit*	*RER*	*RER Limit*
Other Detected Radionuclide	*None*		*None*					*pCi/L*		

Metals

Prep Batch: 677553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Dissolved	Water	200.8	
280-200316-2	COMPLIANCE WELL	Dissolved	Water	200.8	
280-200316-3	COMPLIANCE 02	Dissolved	Water	200.8	
280-200316-4	COMPLIANCE 03	Dissolved	Water	200.8	
280-200316-5	CARIBOU WELL	Dissolved	Water	200.8	
280-200316-6	CROSS PORTAL	Dissolved	Water	200.8	
280-200316-7	CROSS PORTAL 02	Dissolved	Water	200.8	
280-200316-8	CARIBOU PORTAL	Dissolved	Water	200.7	
280-200316-8	CARIBOU PORTAL	Dissolved	Water	200.8	
MB 280-677553/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-677553/21-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-677553/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-200316-8 MS	CARIBOU PORTAL	Dissolved	Water	200.7	
280-200316-8 MS	CARIBOU PORTAL	Dissolved	Water	200.8	
280-200316-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.7	
280-200316-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.8	

Analysis Batch: 677832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Dissolved	Water	200.7 Rev 4.4	677553
280-200316-2	COMPLIANCE WELL	Dissolved	Water	200.7 Rev 4.4	677553
280-200316-3	COMPLIANCE 02	Dissolved	Water	200.7 Rev 4.4	677553
280-200316-4	COMPLIANCE 03	Dissolved	Water	200.7 Rev 4.4	677553
280-200316-5	CARIBOU WELL	Dissolved	Water	200.7 Rev 4.4	677553
280-200316-6	CROSS PORTAL	Dissolved	Water	200.7 Rev 4.4	677553
280-200316-7	CROSS PORTAL 02	Dissolved	Water	200.7 Rev 4.4	677553
280-200316-8	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	677553
MB 280-677553/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	677553
LCS 280-677553/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	677553
280-200316-8 MS	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	677553
280-200316-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.7 Rev 4.4	677553

Analysis Batch: 678046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Dissolved	Water	200.8	677553
280-200316-2	COMPLIANCE WELL	Dissolved	Water	200.8	677553
280-200316-3	COMPLIANCE 02	Dissolved	Water	200.8	677553
280-200316-4	COMPLIANCE 03	Dissolved	Water	200.8	677553
280-200316-5	CARIBOU WELL	Dissolved	Water	200.8	677553
280-200316-6	CROSS PORTAL	Dissolved	Water	200.8	677553
280-200316-7	CROSS PORTAL 02	Dissolved	Water	200.8	677553
280-200316-8	CARIBOU PORTAL	Dissolved	Water	200.8	677553
MB 280-677553/1-A	Method Blank	Total Recoverable	Water	200.8	677553
LCS 280-677553/21-A	Lab Control Sample	Total Recoverable	Water	200.8	677553
280-200316-8 MS	CARIBOU PORTAL	Dissolved	Water	200.8	677553
280-200316-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.8	677553

Analysis Batch: 678242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-7	CROSS PORTAL 02	Dissolved	Water	200.8	677553
280-200316-8	CARIBOU PORTAL	Dissolved	Water	200.8	677553

Metals (Continued)

Analysis Batch: 678242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-8 MS	CARIBOU PORTAL	Dissolved	Water	200.8	677553
280-200316-8 MSD	CARIBOU PORTAL	Dissolved	Water	200.8	677553

General Chemistry

Analysis Batch: 677296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Total/NA	Water	300.0	
280-200316-2	COMPLIANCE WELL	Total/NA	Water	300.0	
280-200316-3	COMPLIANCE 02	Total/NA	Water	300.0	
280-200316-4	COMPLIANCE 03	Total/NA	Water	300.0	
280-200316-5	CARIBOU WELL	Total/NA	Water	300.0	
280-200316-6	CROSS PORTAL	Total/NA	Water	300.0	
280-200316-7	CROSS PORTAL 02	Total/NA	Water	300.0	
280-200316-8	CARIBOU PORTAL	Total/NA	Water	300.0	
MB 280-677296/51	Method Blank	Total/NA	Water	300.0	
MB 280-677296/6	Method Blank	Total/NA	Water	300.0	
LCS 280-677296/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-677296/49	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-677296/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-677296/50	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-677296/3	Lab Control Sample	Total/NA	Water	300.0	
280-200316-6 MS	CROSS PORTAL	Total/NA	Water	300.0	
280-200316-6 MSD	CROSS PORTAL	Total/NA	Water	300.0	
280-200316-6 DU	CROSS PORTAL	Total/NA	Water	300.0	

Analysis Batch: 677451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Total/NA	Water	SM 2540C	
280-200316-2	COMPLIANCE WELL	Total/NA	Water	SM 2540C	
280-200316-3	COMPLIANCE 02	Total/NA	Water	SM 2540C	
280-200316-4	COMPLIANCE 03	Total/NA	Water	SM 2540C	
280-200316-5	CARIBOU WELL	Total/NA	Water	SM 2540C	
280-200316-6	CROSS PORTAL	Total/NA	Water	SM 2540C	
280-200316-7	CROSS PORTAL 02	Total/NA	Water	SM 2540C	
MB 280-677451/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-677451/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-200316-7 DU	CROSS PORTAL 02	Total/NA	Water	SM 2540C	

Analysis Batch: 677547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Total/NA	Water	353.2	
280-200316-2	COMPLIANCE WELL	Total/NA	Water	353.2	
280-200316-3	COMPLIANCE 02	Total/NA	Water	353.2	
280-200316-4	COMPLIANCE 03	Total/NA	Water	353.2	
280-200316-5	CARIBOU WELL	Total/NA	Water	353.2	
280-200316-6	CROSS PORTAL	Total/NA	Water	353.2	
280-200316-7	CROSS PORTAL 02	Total/NA	Water	353.2	
280-200316-8	CARIBOU PORTAL	Total/NA	Water	353.2	
MB 280-677547/98	Method Blank	Total/NA	Water	353.2	
LCS 280-677547/96	Lab Control Sample	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 677547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-677547/97	Lab Control Sample Dup	Total/NA	Water	353.2	
280-200316-1 MS	CROSS WELL	Total/NA	Water	353.2	
280-200316-1 MSD	CROSS WELL	Total/NA	Water	353.2	

Analysis Batch: 677600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-8	CARIBOU PORTAL	Total/NA	Water	SM 2540C	
MB 280-677600/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-677600/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-200033-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 678002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Total/NA	Water	SM 4500 Cl- E	
280-200316-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 Cl- E	
280-200316-3	COMPLIANCE 02	Total/NA	Water	SM 4500 Cl- E	
280-200316-4	COMPLIANCE 03	Total/NA	Water	SM 4500 Cl- E	
280-200316-5	CARIBOU WELL	Total/NA	Water	SM 4500 Cl- E	
280-200316-6	CROSS PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-200316-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 Cl- E	
MB 280-678002/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-678002/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-678002/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-200316-3 MS	COMPLIANCE 02	Total/NA	Water	SM 4500 Cl- E	
280-200316-3 MSD	COMPLIANCE 02	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 678112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Total/NA	Water	SM 4500 SO4 E	
280-200316-2	COMPLIANCE WELL	Total/NA	Water	SM 4500 SO4 E	
280-200316-3	COMPLIANCE 02	Total/NA	Water	SM 4500 SO4 E	
280-200316-4	COMPLIANCE 03	Total/NA	Water	SM 4500 SO4 E	
280-200316-5	CARIBOU WELL	Total/NA	Water	SM 4500 SO4 E	
280-200316-6	CROSS PORTAL	Total/NA	Water	SM 4500 SO4 E	
280-200316-7	CROSS PORTAL 02	Total/NA	Water	SM 4500 SO4 E	
280-200316-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 SO4 E	
MB 280-678112/14	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 280-678112/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-678112/13	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
280-200316-3 MS	COMPLIANCE 02	Total/NA	Water	SM 4500 SO4 E	
280-200316-3 MSD	COMPLIANCE 02	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 678965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-8	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	
MB 280-678965/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-678965/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-678965/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-200316-8 MS	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	
280-200316-8 MSD	CARIBOU PORTAL	Total/NA	Water	SM 4500 Cl- E	

Rad

Prep Batch: 692607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Dissolved	Water	Evaporation	
280-200316-2	COMPLIANCE WELL	Dissolved	Water	Evaporation	
280-200316-3	COMPLIANCE 02	Dissolved	Water	Evaporation	
280-200316-4	COMPLIANCE 03	Dissolved	Water	Evaporation	
280-200316-5	CARIBOU WELL	Dissolved	Water	Evaporation	
280-200316-6	CROSS PORTAL	Dissolved	Water	Evaporation	
280-200316-7	CROSS PORTAL 02	Dissolved	Water	Evaporation	
280-200316-8	CARIBOU PORTAL	Dissolved	Water	Evaporation	
MB 160-692607/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-692607/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-692607/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
280-200316-7 MS	CROSS PORTAL 02	Dissolved	Water	Evaporation	
280-200316-7 MSBT	CROSS PORTAL 02	Dissolved	Water	Evaporation	
280-200316-7 DU	CROSS PORTAL 02	Dissolved	Water	Evaporation	

Prep Batch: 696157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200316-1	CROSS WELL	Dissolved	Water	Fill_Geo-0	
280-200316-2	COMPLIANCE WELL	Dissolved	Water	Fill_Geo-0	
280-200316-3	COMPLIANCE 02	Dissolved	Water	Fill_Geo-0	
280-200316-4	COMPLIANCE 03	Dissolved	Water	Fill_Geo-0	
280-200316-5	CARIBOU WELL	Dissolved	Water	Fill_Geo-0	
280-200316-6	CROSS PORTAL	Dissolved	Water	Fill_Geo-0	
280-200316-7	CROSS PORTAL 02	Dissolved	Water	Fill_Geo-0	
280-200316-8	CARIBOU PORTAL	Dissolved	Water	Fill_Geo-0	
MB 160-696157/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	
LCS 160-696157/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
280-200316-1 DU	CROSS WELL	Dissolved	Water	Fill_Geo-0	

Lab Chronicle

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

Job ID: 280-200316-1

Client Sample ID: CROSS WELL

Lab Sample ID: 280-200316-1

Date Collected: 12/04/24 13:00
Date Received: 12/04/24 16:40

Matrix: Water

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	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			677832	12/07/24 08:04	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678046	12/10/24 16:35	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677296	12/04/24 22:39	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	677547	12/05/24 13:09	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	677451	12/05/24 08:50	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	678002	12/10/24 13:30	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	678112	12/11/24 11:19	CLP	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	692607	12/09/24 08:07	MEH	EET SL
Dissolved	Analysis	900.0		1			693092	12/11/24 15:57	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	696157	12/31/24 16:05	HGB	EET SL
Dissolved	Analysis	901.1		1			696540	01/02/25 20:22	SCB	EET SL

Client Sample ID: COMPLIANCE WELL

Lab Sample ID: 280-200316-2

Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Matrix: Water

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	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			677832	12/07/24 08:19	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678046	12/10/24 16:37	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677296	12/04/24 22:51	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	677547	12/05/24 13:13	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	677451	12/05/24 08:50	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	678002	12/10/24 13:30	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	678112	12/11/24 11:19	CLP	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	692607	12/09/24 08:07	MEH	EET SL
Dissolved	Analysis	900.0		1			693092	12/11/24 15:57	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	696157	12/31/24 16:05	HGB	EET SL
Dissolved	Analysis	901.1		1			696580	01/02/25 20:22	SCB	EET SL

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-200316-3

Date Collected: 12/04/24 13:30
Date Received: 12/04/24 16:40

Matrix: Water

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	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			677832	12/07/24 08:23	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678046	12/10/24 16:40	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677296	12/04/24 23:02	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	677547	12/05/24 13:14	AKF	EET DEN

Lab Chronicle

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

Job ID: 280-200316-1

Client Sample ID: COMPLIANCE 02

Lab Sample ID: 280-200316-3

Date Collected: 12/04/24 13:30
Matrix: Water
Date Received: 12/04/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	677451	12/05/24 08:50	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	678002	12/10/24 13:28	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	678112	12/11/24 11:18	CLP	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	692607	12/09/24 08:07	MEH	EET SL
Dissolved	Analysis	900.0		1			693092	12/11/24 15:57	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	696157	12/31/24 16:05	HGB	EET SL
Dissolved	Analysis	901.1		1			696580	01/02/25 21:38	SCB	EET SL

Client Sample ID: COMPLIANCE 03

Lab Sample ID: 280-200316-4

Date Collected: 12/04/24 13:30
Matrix: Water
Date Received: 12/04/24 16:40

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	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			677832	12/07/24 08:27	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678046	12/10/24 16:42	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677296	12/04/24 23:13	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	677547	12/05/24 13:15	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	677451	12/05/24 08:50	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	678002	12/10/24 13:29	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	678112	12/11/24 11:19	CLP	EET DEN
Dissolved	Prep	Evaporation			200.00 mL	1.0 g	692607	12/09/24 08:07	MEH	EET SL
Dissolved	Analysis	900.0		1			693093	12/11/24 15:46	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	696157	12/31/24 16:05	HGB	EET SL
Dissolved	Analysis	901.1		1			696540	01/02/25 21:38	SCB	EET SL

Client Sample ID: CARIBOU WELL

Lab Sample ID: 280-200316-5

Date Collected: 12/04/24 11:30
Matrix: Water
Date Received: 12/04/24 16:40

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	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			677832	12/07/24 08:30	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678046	12/10/24 16:45	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677296	12/04/24 20:35	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	677547	12/05/24 13:17	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	677451	12/05/24 08:50	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	678002	12/10/24 13:29	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	678112	12/11/24 11:19	CLP	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	692607	12/09/24 08:07	MEH	EET SL
Dissolved	Analysis	900.0		1			693093	12/11/24 15:46	SCB	EET SL

Lab Chronicle

Client: Grand Island Resources
Job ID: 280-200316-1
Project/Site: Nederland, CO - Groundwater

Client Sample ID: CARIBOU WELL
Lab Sample ID: 280-200316-5
Date Collected: 12/04/24 11:30
Matrix: Water
Date Received: 12/04/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	696157	12/31/24 16:05	HGB	EET SL
Dissolved	Analysis	901.1		1			696459	01/02/25 22:41	SCB	EET SL

Client Sample ID: CROSS PORTAL
Lab Sample ID: 280-200316-6
Date Collected: 12/04/24 12:15
Matrix: Water
Date Received: 12/04/24 16:40

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	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			677832	12/07/24 08:34	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678046	12/10/24 16:47	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677296	12/04/24 21:43	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	677547	12/05/24 13:18	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	677451	12/05/24 08:50	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	678002	12/10/24 13:29	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	678112	12/11/24 11:19	CLP	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	692607	12/09/24 08:07	MEH	EET SL
Dissolved	Analysis	900.0		1			693093	12/11/24 15:46	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	696157	12/31/24 16:05	HGB	EET SL
Dissolved	Analysis	901.1		1			696580	01/02/25 22:40	SCB	EET SL

Client Sample ID: CROSS PORTAL 02
Lab Sample ID: 280-200316-7
Date Collected: 12/04/24 12:15
Matrix: Water
Date Received: 12/04/24 16:40

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	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			677832	12/07/24 08:38	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678046	12/10/24 17:15	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678242	12/11/24 17:10	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677296	12/04/24 22:28	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	677547	12/05/24 13:19	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	677451	12/05/24 08:50	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	678002	12/10/24 13:29	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	678112	12/11/24 11:20	CLP	EET DEN
Dissolved	Prep	Evaporation			200.01 mL	1.0 g	692607	12/09/24 08:07	MEH	EET SL
Dissolved	Analysis	900.0		1			693093	12/11/24 15:45	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	696157	12/31/24 16:05	HGB	EET SL
Dissolved	Analysis	901.1		1			696540	01/02/25 22:41	SCB	EET SL

Lab Chronicle

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

Job ID: 280-200316-1

Client Sample ID: CARIBOU PORTAL

Date Collected: 12/04/24 11:15
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200316-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.7			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			677832	12/07/24 08:41	ADL	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678046	12/10/24 17:17	LMT	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	677553	12/06/24 07:59	AMH	EET DEN
Dissolved	Analysis	200.8		1			678242	12/11/24 17:12	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	677296	12/04/24 20:12	EJS	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	677547	12/05/24 13:20	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	677600	12/06/24 09:00	BRD	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	678965	12/18/24 10:52	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	678112	12/11/24 11:20	CLP	EET DEN
Dissolved	Prep	Evaporation			200.02 mL	1.0 g	692607	12/09/24 08:07	MEH	EET SL
Dissolved	Analysis	900.0		1			693092	12/11/24 15:57	SCB	EET SL
Dissolved	Prep	Fill_Geo-0			1000 mL	1.0 g	696157	12/31/24 16:05	HGB	EET SL
Dissolved	Analysis	901.1		1			696720	01/03/25 01:32	SCB	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: 280-200316-1

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	12-31-24
A2LA	ISO/IEC 17025	2907.01	12-31-24
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-19-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	Petroleum Storage Tank Program	2907.01 (A2LA)	10-31-26
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-26
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-26
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	12-31-25
Nevada	State	CO00026	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25
Oklahoma	NELAP	8614	08-31-24 *
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-25
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	12-31-24

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	12-08-25
California	Los Angeles County Sanitation Districts	10259	06-30-22 *

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

Accreditation/Certification Summary

Client: Grand Island Resources
Job ID: 280-200316-1
Project/Site: Nederland, CO - Groundwater

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
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-25
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-25
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	06-30-24 *
Oklahoma	NELAP	9997	12-31-24 *
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

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

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

Chain of Custody Record

280-200316 Chain of Custody

eurofins | Environment Testing America

Client Information	Sampler: BM	Lab PM: Bieniulis, Dylan T	COC No:
Client Contact: Brooke Molson Moran	Phone: 303-506-1618	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	Page:
Company: Grand Island Resources	PWSID:		Job #:
Address: 12567 West Cedar Road Suite 250	Due Date Requested:	Analysis Requested	
City: Lakewood	TAT Requested (days):		
State, Zip: CO, 80466	Compliance Project: Δ Yes Δ No		
Phone: 315-414-6986	PO #: Not required		
Email: bmolsonm@g.emporia.edu	WO #:		
Project Name: Nederland, CO	Project #: 28025589		
Site: Groundwater Sampling	SSOW#:		

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:

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)	200.7/200.8 - Dissolved Metals (Grounwater Permit List) (Field Filtered)	SM4500_SO4_E - Sulfate, SM4500_Cl_E - Chloride, and 300.0 Nitrate	353.2 - Nitrate/Nitrite as N	2540C - TDS	900.0 - Gross Alpha and Gross Beta (Field Filtered) (Eurofins TestAmerica St. Louis)	901.1 - Beta/Photon Emitters + TICs (Field Filtered) (Eurofins TestAmerica St. Louis)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	S	N	D	D		
CROSS WELL	12/4/24	13:00	G	W			X	X	X	X	X	X	6	300.0 Nitrate = 48 hour hold time
COMPLIANCE WELL	"	13:30	G	W			X	X	X	X	X	X	6	* Groundwater Dissolved Metals Permit List = 200.7 (Al, B, Fe) and 200.8 (Sb, As, Ba, Cd, Cu, Pb, Mn, Mo, U, Zn)
COMPLIANCE 02	"	13:30	G	W			X	X	X	X	X	X	6	
COMPLIANCE 03	"	13:30	G	W			X	X	X	X	X	X	6	Field-filtered nitric
CARIBOU WELL	"	11:30	G	W			X	X	X	X	X	X	6	preserved bottles
CROSS PORTAL	"	12:15	G	W			X	X	X	X	X	X	6	(metals &
CROSS PORTAL02	"	12:15	G	W			X	X	X	X	X	X	6	radionuclides)
CARIBOU PORTAL	"	11:15	G	W			X	X	X	X	X	X	6	

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	12/4/24 14:34	GIR			
2	[signature]	12/4/24 14:52		[signature]	12-4-24 1640	EEDEN
3						

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

Cooler Temperature(s) °C and Other Remarks: 1.5/2.1 IR PABU CF+0.2

Ver: 01/16/2019

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s): N/A	COC No: 280-726830.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 280-200316-1
Address: 13715 Rider Trail North,	Due Date Requested: 1/6/2025	Analysis Requested		Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Nederland, CO - Groundwater	Project #: 28025589			Other: N/A
Site: N/A	SSOW#: N/A			

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=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	901.1_Cs/FIELD_FLTRD (MOD) Cesium-137 only	900.0/FIELD_FLTRD Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
CROSS WELL (280-200316-1)	12/4/24	13:00 Mountain	G	Water			X	X	2	
COMPLIANCE WELL (280-200316-2)	12/4/24	13:30 Mountain	G	Water			X	X	2	
COMPLIANCE 02 (280-200316-3)	12/4/24	13:30 Mountain	G	Water			X	X	2	
COMPLIANCE 03 (280-200316-4)	12/4/24	13:30 Mountain	G	Water			X	X	2	
CARIBOU WELL (280-200316-5)	12/4/24	11:30 Mountain	G	Water			X	X	2	
CROSS PORTAL (280-200316-6)	12/4/24	12:15 Mountain	G	Water			X	X	2	
CROSS PORTAL 02 (280-200316-7)	12/4/24	12:15 Mountain	G	Water			X	X	2	
CARIBOU PORTAL (280-200316-8)	12/4/24	11:15 Mountain	G	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/tests/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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Michael Nilvarez	Date/Time: 12/05/2024 14:00	Company: EETPen	Received by: Cheyenne Forrest	Date/Time: 1130 DEC 06 2024	Company: ETA-STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 10/10/2024

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s): N/A	COC No: 280-726830.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 280-200316-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 1/6/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Nederland, CO - Groundwater	Project #: 28025589			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	901.1_Cs/FIELD_FLTRD (MOD) Cesium-137 only	900.0/FIELD_FLTRD Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
CROSS WELL (280-200316-1)	12/4/24	13:00 Mountain	G	Water			X	X	2	
COMPLIANCE WELL (280-200316-2)	12/4/24	13:30 Mountain	G	Water			X	X	2	
COMPLIANCE 02 (280-200316-3)	12/4/24	13:30 Mountain	G	Water			X	X	2	
COMPLIANCE 03 (280-200316-4)	12/4/24	13:30 Mountain	G	Water			X	X	2	
CARIBOU WELL (280-200316-5)	12/4/24	11:30 Mountain	G	Water			X	X	2	
CROSS PORTAL (280-200316-6)	12/4/24	12:15 Mountain	G	Water			X	X	2	
CROSS PORTAL 02 (280-200316-7)	12/4/24	12:15 Mountain	G	Water			X	X	2	
CARIBOU PORTAL (280-200316-8)	12/4/24	11:15 Mountain	G	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/tests/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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Micael Pilarsz	Date/Time: 12/05/2024 14:00	Company: EETPen	Received by: Cheyenne Forrest	Date/Time: 1130 DEC 06 2024	Company: ETA-STL
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-200316-1

Login Number: 200316
List Number: 1
Creator: Rystrom, Joshua R

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-200316-1

Login Number: 200316
List Number: 2
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 12/06/24 02:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <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 B OUTFALL-001 ANALYTICAL RESULTS

APPENDIX B.1 OCTOBER 2024 OUTFALL-001 ANALYTICAL RESULTS

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/24/2024 4:49:01 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-197939-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

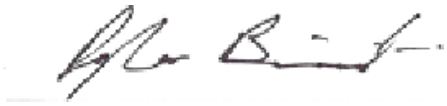
See page two for job notes and contact information.

Job Notes

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

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

Authorization



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

Table of Contents

Definitions/Glossary

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

Job ID: 280-197939-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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

Job Narrative
280-197939-1

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

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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 10/11/2024 3:42 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 5.0°C.

Receipt Exceptions
One out of the two sets of the Mercury Kits were received in improper packaging for OUTFALL-001 (280-197939-1). The properly packaged containers were used for analysis.

The laboratory did not log the SM3500 CR B Total Hexavalent Chromium analysis requested for OUTFALL-001 (280-196277-1). Per a recent update to the laboratory's SOP all samples collected for hexavalent chromium analysis by SM3500 CR B undergo laboratory filtration to remove undissolved solids from the sample volume. The method does not digest solids in the sample volume prior to analysis. The laboratory will use the lab filtered hexavalent chromium analysis result from the sample to complete the Total Recoverable Trivalent Chromium calculated result.

Method 1631E - Mercury, Low Level (CVAFS)
Sample OUTFALL-001 (280-197939-1) was analyzed for Mercury, Low Level (CVAFS). The sample was prepared on 10/16/2024 and analyzed on 10/24/2024.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable
Sample OUTFALL-001 (280-197939-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 10/14/2024 and analyzed on 10/22/2024.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-197939-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 10/16/2024 and analyzed on 10/17/2024.

The continuing calibration verification (CCV) associated with batch 280-671364 recovered above the upper control limit for Zinc. The samples associated with this CCV were within limits (MB/LCS) for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 280-671364/79), (LCS 280-670976/2-C) and (MB 280-670976/1-B).

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

Job ID: 280-197939-1 (Continued) Eurofins Denver

Sample OUTFALL-001 (280-197939-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 10/14/2024.

Method 245.1 - Mercury (CVAA)
Sample OUTFALL-001 (280-197939-1) was analyzed for Mercury (CVAA). The sample was prepared on 10/17/2024 and analyzed on 10/18/2024.

Method SM 2510B - Conductivity, Specific Conductance
Sample OUTFALL-001 (280-197939-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 10/14/2024.

Method SM 2540D - Solids, Total Suspended (TSS)
Sample OUTFALL-001 (280-197939-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 10/14/2024 and 10/17/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved
Sample OUTFALL-001 (280-197939-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 10/11/2024 and 10/14/2024.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved
Sample OUTFALL-001 (280-197939-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 10/21/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable
Sample OUTFALL-001 (280-197939-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 10/21/2024.

Method SM 4500 H+ B - pH
Sample OUTFALL-001 (280-197939-1) was analyzed for pH. The sample was analyzed on 10/14/2024.

Method SM 4500 S2 D - Sulfide, Total
Sample OUTFALL-001 (280-197939-1) was analyzed for Sulfide, Total. The sample was analyzed on 10/14/2024.

Method SM4500 S2 H - Unionized Hydrogen Sulfide
Sample OUTFALL-001 (280-197939-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 10/15/2024.

Detection Summary

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

Job ID: 280-197939-1

Client Sample ID: OUTFALL-001 — Lab Sample ID: 280-197939-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	4.1		0.50	0.20	ng/L	1		1631E	Total/NA
Iron	26	J	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Copper	2.6		2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	1.5		1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	18	B	10	2.0	ug/L	1		200.8	Total Recoverable
Copper	3.1		2.0	0.71	ug/L	1		200.8	Potentially Dissolved
Lead	1.5		1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Manganese	1.1	J B	3.0	0.51	ug/L	1		200.8	Potentially Dissolved
Zinc	23		10	2.0	ug/L	1		200.8	Potentially Dissolved
Specific Conductance	220		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	18.6	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	19		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	220		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-197939-1

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: 280-197939-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-197939-1	OUTFALL-001	Water	10/11/24 13:00	10/11/24 15:42

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

Client Sample ID: OUTFALL-001
Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.1**		0.50	0.20	ng/L		10/16/24 14:30	10/24/24 10:46	1

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

Client Sample ID: OUTFALL-001
Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**26**	**J**	100	9.1	ug/L		10/14/24 08:40	10/22/24 00:43	1

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

Client Sample ID: OUTFALL-001
Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/14/24 08:40	10/14/24 21:11	1
Cadmium	ND		1.0	0.19	ug/L		10/14/24 08:40	10/14/24 21:11	1
Chromium	ND		3.0	0.50	ug/L		10/14/24 08:40	10/14/24 21:11	1
Copper	**2.6**		2.0	0.71	ug/L		10/14/24 08:40	10/14/24 21:11	1
Lead	**1.5**		1.0	0.23	ug/L		10/14/24 08:40	10/14/24 21:11	1
Zinc	**18**	**B**	10	2.0	ug/L		10/14/24 08:40	10/14/24 21:11	1

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

Client Sample ID: OUTFALL-001
Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/16/24 08:10	10/17/24 04:06	1
Cadmium	ND		1.0	0.19	ug/L		10/16/24 08:10	10/17/24 04:06	1
Chromium	ND		3.0	0.50	ug/L		10/16/24 08:10	10/17/24 04:06	1
Copper	**3.1**		2.0	0.71	ug/L		10/16/24 08:10	10/17/24 04:06	1
Lead	**1.5**		1.0	0.23	ug/L		10/16/24 08:10	10/17/24 04:06	1
Manganese	**1.1**	**J B**	3.0	0.51	ug/L		10/16/24 08:10	10/17/24 14:15	1
Nickel	ND		3.0	0.83	ug/L		10/16/24 08:10	10/17/24 04:06	1
Selenium	ND		5.0	1.0	ug/L		10/16/24 08:10	10/17/24 04:06	1
Silver	ND		0.50	0.045	ug/L		10/16/24 08:10	10/17/24 04:06	1
Zinc	**23**		10	2.0	ug/L		10/16/24 08:10	10/17/24 04:06	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/17/24 16:25	10/18/24 02:40	1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	**220**		2.0	2.0	umhos/cm			10/14/24 13:47	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			10/17/24 15:28	1
pH adj. to 25 deg C (SM 4500 H+ B	**7.9**	**HF**	0.1	0.1	SU			10/14/24 14:05	1
Temperature (SM 4500 H+ B)	**18.6**	**HF**	1.0	1.0	Degrees C			10/14/24 14:05	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			10/14/24 15:28	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			10/15/24 00:23	1
Field pH (SM4500 S2 H)	**7.9**		1.0	1.0	SU			10/15/24 00:23	1
Field Temperature (SM4500 S2 H)	**19**		1.0	1.0	Celsius			10/15/24 00:23	1
Specific Conductance (SM4500 S2 H)	**220**		2.0	2.0	umhos/cm			10/15/24 00:23	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			10/15/24 00:23	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		20	20	ug/L			10/21/24 13:46	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1
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			10/11/24 17:29	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		20	20	ug/L			10/21/24 13:46	1

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

Lab Sample ID: MB 400-688987/3-A
Matrix: Water
Analysis Batch: 689047

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 688987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L		10/23/24 16:00	10/24/24 09:52	1

Lab Sample ID: LCS 400-688987/4-A
Matrix: Water
Analysis Batch: 689047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 688987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.11		ng/L		102	79 - 121

Lab Sample ID: LCSD 400-688987/5-A
Matrix: Water
Analysis Batch: 689047

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 688987

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	5.03		ng/L		101	79 - 121	2	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-670768/1-A
Matrix: Water
Analysis Batch: 671931

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 670768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		10/14/24 08:40	10/22/24 00:00	1

Lab Sample ID: LCS 280-670768/2-A
Matrix: Water
Analysis Batch: 671931

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 670768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10500		ug/L		105	85 - 115

Lab Sample ID: LCSD 280-670768/3-A
Matrix: Water
Analysis Batch: 671931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 670768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	10000	10700		ug/L		107	85 - 115	2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-670768/1-A
Matrix: Water
Analysis Batch: 671003

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 670768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/14/24 08:40	10/14/24 21:06	1
Cadmium	ND		1.0	0.19	ug/L		10/14/24 08:40	10/14/24 21:06	1
Chromium	ND		3.0	0.50	ug/L		10/14/24 08:40	10/14/24 21:06	1
Copper	ND		2.0	0.71	ug/L		10/14/24 08:40	10/14/24 21:06	1

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

Lab Sample ID: MB 280-670768/1-A
Matrix: Water
Analysis Batch: 671003

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 670768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.23	ug/L		10/14/24 08:40	10/14/24 21:06	1
Zinc	2.05	J	10	2.0	ug/L		10/14/24 08:40	10/14/24 21:06	1

Lab Sample ID: LCS 280-670768/25-A
Matrix: Water
Analysis Batch: 671003

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 670768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	37.3		ug/L		93	89 - 111
Cadmium	40.0	38.1		ug/L		95	89 - 111
Chromium	40.0	38.5		ug/L		96	86 - 115
Copper	40.0	39.9		ug/L		100	90 - 115
Lead	40.0	39.3		ug/L		98	88 - 115
Zinc	40.0	39.9		ug/L		100	88 - 115

Lab Sample ID: MB 280-670976/1-B
Matrix: Water
Analysis Batch: 671364

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 670979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		10/16/24 08:10	10/17/24 02:29	1
Cadmium	ND		1.0	0.19	ug/L		10/16/24 08:10	10/17/24 02:29	1
Chromium	ND		3.0	0.50	ug/L		10/16/24 08:10	10/17/24 02:29	1
Copper	ND		2.0	0.71	ug/L		10/16/24 08:10	10/17/24 02:29	1
Lead	ND		1.0	0.23	ug/L		10/16/24 08:10	10/17/24 02:29	1
Manganese	0.607	J	3.0	0.51	ug/L		10/16/24 08:10	10/17/24 02:29	1
Nickel	ND		3.0	0.83	ug/L		10/16/24 08:10	10/17/24 02:29	1
Selenium	ND		5.0	1.0	ug/L		10/16/24 08:10	10/17/24 02:29	1
Silver	ND		0.50	0.045	ug/L		10/16/24 08:10	10/17/24 02:29	1
Zinc	ND	^+	10	2.0	ug/L		10/16/24 08:10	10/17/24 02:29	1

Lab Sample ID: LCS 280-670976/2-C
Matrix: Water
Analysis Batch: 671364

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 670979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.7		ug/L		102	89 - 111
Cadmium	40.0	40.7		ug/L		102	89 - 111
Chromium	40.0	40.6		ug/L		102	86 - 115
Copper	40.0	41.9		ug/L		105	90 - 115
Lead	40.0	40.3		ug/L		101	88 - 115
Manganese	40.0	40.4		ug/L		101	87 - 115
Nickel	40.0	42.2		ug/L		105	86 - 115
Selenium	40.0	41.2		ug/L		103	85 - 114
Silver	40.0	41.2		ug/L		103	90 - 114

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-671342/1-A
Matrix: Water
Analysis Batch: 671670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/17/24 16:25	10/18/24 01:56	1

Lab Sample ID: LCS 280-671342/2-A
Matrix: Water
Analysis Batch: 671670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.22		ug/L		104	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-670927/4
Matrix: Water
Analysis Batch: 670927

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			10/14/24 13:47	1

Lab Sample ID: LCS 280-670927/3
Matrix: Water
Analysis Batch: 670927

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

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

Lab Sample ID: MB 280-671480/1
Matrix: Water
Analysis Batch: 671480

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			10/17/24 15:28	1

Lab Sample ID: LCS 280-671480/2
Matrix: Water
Analysis Batch: 671480

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	501	446		mg/L		89	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-670760/3-A
Matrix: Water
Analysis Batch: 670762

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			10/11/24 17:28	1

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

Lab Sample ID: LCS 280-670760/1-A
Matrix: Water
Analysis Batch: 670762

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	100	101		ug/L		101	91 - 112

Lab Sample ID: LCSD 280-670760/2-A
Matrix: Water
Analysis Batch: 670762

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	1	20

Lab Sample ID: 280-197939-1 MS
Matrix: Water
Analysis Batch: 670762

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: 280-197939-1 MSD
Matrix: Water
Analysis Batch: 670762

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	103		ug/L		103	91 - 112	1	20

Lab Sample ID: 280-197939-1 DU
Matrix: Water
Analysis Batch: 670762

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 280-670981/4
Matrix: Water
Analysis Batch: 670981

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: 280-197939-1 DU
Matrix: Water
Analysis Batch: 670981

Client Sample ID: OUTFALL-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH adj. to 25 deg C	7.9	HF	7.9		SU		0.1	5
Temperature	18.6	HF	18.7		Degrees C		0.2	10

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-670955/42
Matrix: Water
Analysis Batch: 670955

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			10/14/24 15:26	1

Lab Sample ID: LCS 280-670955/40
Matrix: Water
Analysis Batch: 670955

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			0.501	0.500		mg/L		100	81 - 122		

Lab Sample ID: LCSD 280-670955/41
Matrix: Water
Analysis Batch: 670955

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			0.501	0.504		mg/L		101	81 - 122	1	10

Lab Sample ID: 280-197939-1 MS
Matrix: Water
Analysis Batch: 670955

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		0.501	0.498		mg/L		99	81 - 122		

Lab Sample ID: 280-197939-1 MSD
Matrix: Water
Analysis Batch: 670955

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		0.501	0.499		mg/L		100	81 - 122	0	10

QC Association Summary

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

Job ID: 280-197939-1

Metals

Prep Batch: 670768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-670768/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-670768/25-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-670768/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-670768/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Filtration Batch: 670975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Filtration Batch: 670976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-670976/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-670976/2-C	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Prep Batch: 670979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	670975
MB 280-670976/1-B	Method Blank	Potentially Dissolvec	Water	200.8	670976
LCS 280-670976/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	670976

Analysis Batch: 671003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total Recoverable	Water	200.8	670768
MB 280-670768/1-A	Method Blank	Total Recoverable	Water	200.8	670768
LCS 280-670768/25-A	Lab Control Sample	Total Recoverable	Water	200.8	670768

Prep Batch: 671342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-671342/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-671342/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 671364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	670979
MB 280-670976/1-B	Method Blank	Potentially Dissolvec	Water	200.8	670979
LCS 280-670976/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	670979

Analysis Batch: 671478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	670979

Analysis Batch: 671670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total/NA	Water	245.1	671342
MB 280-671342/1-A	Method Blank	Total/NA	Water	245.1	671342
LCS 280-671342/2-A	Lab Control Sample	Total/NA	Water	245.1	671342

Metals

Analysis Batch: 671931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	670768
MB 280-670768/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	670768
LCS 280-670768/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	670768
LCSD 280-670768/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	670768

Prep Batch: 688987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total/NA	Water	1631E	
MB 400-688987/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-688987/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-688987/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 689047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total/NA	Water	1631E	688987
MB 400-688987/3-A	Method Blank	Total/NA	Water	1631E	688987
LCS 400-688987/4-A	Lab Control Sample	Total/NA	Water	1631E	688987
LCSD 400-688987/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	688987

General Chemistry

Filtration Batch: 670760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-670760/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-670760/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-670760/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-197939-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-197939-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-197939-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 670762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	670760
MB 280-670760/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	670760
LCS 280-670760/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	670760
LCSD 280-670760/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	670760
280-197939-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	670760
280-197939-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	670760
280-197939-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	670760

Analysis Batch: 670927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-670927/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-670927/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 670955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-670955/42	Method Blank	Total/NA	Water	SM 4500 S2 D	

General Chemistry (Continued)

Analysis Batch: 670955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-670955/40	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-670955/41	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-197939-1 MS	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
280-197939-1 MSD	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 670981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-670981/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-197939-1 DU	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 670993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 671480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-671480/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-671480/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 671844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197939-1	OUTFALL-001	Potentially Dissolvec	Water	SM3500 CR B	
280-197939-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-197939-1

Client Sample ID: OUTFALL-001

Date Collected: 10/11/24 13:00
Date Received: 10/11/24 15:42

Lab Sample ID: 280-197939-1

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	688987	10/16/24 14:30	VLC	EET PEN
							Completed:	10/17/24 09:00 [1]		
Total/NA	Analysis	1631E		1			689047	10/24/24 10:46	VLC	EET PEN
Total Recoverable	Prep	200.8			50 mL	50 mL	670768	10/14/24 08:40	SMK	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			671931	10/22/24 00:43	NKC	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			200 mL	200 mL	670975	10/14/24 16:37	SMK	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	670979	10/16/24 08:10	SMK	EET DEN
Potentially Dissolvec	Analysis	200.8		1			671364	10/17/24 04:06	LMT	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			200 mL	200 mL	670975	10/14/24 16:37	SMK	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	670979	10/16/24 08:10	SMK	EET DEN
Potentially Dissolvec	Analysis	200.8		1			671478	10/17/24 14:15	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	670768	10/14/24 08:40	SMK	EET DEN
Total Recoverable	Analysis	200.8		1			671003	10/14/24 21:11	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	671342	10/17/24 16:25	CAF	EET DEN
Total/NA	Analysis	245.1		1			671670	10/18/24 02:40	NKC	EET DEN
Total/NA	Analysis	SM 2510B		1			670927	10/14/24 13:47	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	671480	10/17/24 15:28	MF	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	670760	10/11/24 17:18	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	670762	10/11/24 17:29	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			670981	10/14/24 14:05	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	670955	10/14/24 15:28	ABW	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			671844	10/21/24 13:46	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			671844	10/21/24 13:46	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			670993	10/15/24 00:23	P1C	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: 280-197939-1

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	Temperature
SM3500 CR B		Water	Chromium, trivalent
SM3500 CR B		Water	Chromium, trivalent (dissolved)
SM4500 S2 H		Water	Field pH
SM4500 S2 H		Water	Field Temperature
SM4500 S2 H		Water	Specific Conductance
SM4500 S2 H		Water	Sulfide
SM4500 S2 H		Water	Un-ionized Hydrogen Sulfide

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	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Karen Lopez	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: John Rinko	Phone: 720 697 7722	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:	Analysis Requested		Job #:
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:			Preservation Codes:
City: Lakewood	TAT Requested (days):			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, 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)
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No			
Phone: (303) 601-9230	PO #:			Other:
Email: johnrinko@yahoo.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: First half of the month event + quarterly LL Hg	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)	1631E - Low Level Mercury (ETA Pensacola)		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:
			Preservation Code:				N	N	N	CB	N		D	D						
OUTFALL-001	10/11/24	13:00	G	W	N	N	X	X	X	X	X		X	X					9	*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)
																				Temp = 9°C
																				PH = 8
																				Observed visible sheen or floating oil?
																				Yes (No) (circle one)
																				*If oil sheen observed in discharge sampling for oil and grease required

280-197939 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:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Karen Lopez	10/11/24 15:42	GIR		10/11/24 1542	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		4.9°C -0.1 IR Tv

Ver: 01/16/2019

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No: 280-719756.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin: Colorado	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): NELAP - Oregon		Job #: 280-197939-1
Address: 3355 McLemore Drive,	Due Date Requested: 10/28/2024	Analysis Requested		Preservation Codes: -
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Nederland, CO	Project #: 28022821			Other:
Site:	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=Air)	1631E/1631E_Prep	Special Instructions/Note:
OUTFALL-001 (280-197939-1)	10/11/24	13:00 Mountain	G	Water	X	

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
BRD	10/14/24 1500	eet dn			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/15/24 1010	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.5°C MB

Ver: 05/06/2024

eurofins

Part # 159469-434 MTW EXP 02/25

ORIGIN ID:WHHA (303) 736-0100
EUROFINS
EUROFINS TESTAMERICA DENVER
4955 YARROW ST

ARVADA, CO 80002
UNITED STATES US

SHIP DATE: 14OCT24
ACTWGT: 12.35 LB
CAD: 290884/CAFE3855

BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHE
3355 MCLEMORE DRIVE

PENSACOLA FL 32514
(850) 474-1001 REF: 8280-144461
PO: YES DEPT: BOTTLE PREP

FedEx Express

E

TRK# 0201 7385 6154 2671

TUE - 15 OCT 10:30A
PRIORITY OVERNIGHT

XH PNSA

32514
FL-US BFM

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-197939-1

Login Number: 197939
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-197939-1

Login Number: 197939
List Number: 2
Creator: Roberts, Darrien

List Source: Eurofins Pensacola
List Creation: 10/15/24 04:02 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	1.5°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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/11/2024 9:27:32 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-198903-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

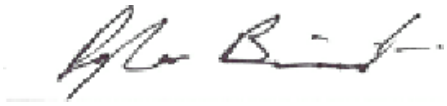
See page two for job notes and contact information.

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
11/11/2024 9:27:32 AM

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-198903-1

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.
☼	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

Job ID: 280-198903-1 — Eurofins Denver

Job Narrative
280-198903-1

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

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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 10/31/2024 3:46 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 5.5°C.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-198903-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 11/5/2024 and analyzed on 11/6/2024 and 11/7/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-198903-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 11/4/2024 and analyzed on 11/5/2024.

Detection Summary

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

Job ID: 280-198903-1

Client Sample ID: OUTFALL-001 — Lab Sample ID: 280-198903-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.38	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Lead	0.36	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Zinc	19		10	2.0	ug/L	1		200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-198903-1

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: 280-198903-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-198903-1	OUTFALL-001	Water	10/31/24 12:30	10/31/24 15:46

Client Sample Results

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

Job ID: 280-198903-1

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

Client Sample ID: OUTFALL-001
Date Collected: 10/31/24 12:30
Date Received: 10/31/24 15:46

Lab Sample ID: 280-198903-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		11/04/24 14:49	11/05/24 19:07	1
Lead	**0.38**	**J**	1.0	0.23	ug/L		11/04/24 14:49	11/05/24 19:07	1

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

Client Sample ID: OUTFALL-001
Date Collected: 10/31/24 12:30
Date Received: 10/31/24 15:46

Lab Sample ID: 280-198903-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		11/05/24 15:07	11/06/24 19:05	1
Copper	ND		2.0	0.71	ug/L		11/05/24 15:07	11/06/24 19:05	1
Lead	**0.36**	**J**	1.0	0.23	ug/L		11/05/24 15:07	11/07/24 11:01	1
Silver	ND		0.50	0.045	ug/L		11/05/24 15:07	11/06/24 19:05	1
Zinc	**19**		10	2.0	ug/L		11/05/24 15:07	11/06/24 19:05	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-673386/1-A
Matrix: Water
Analysis Batch: 673888

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 673386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		11/04/24 14:49	11/05/24 18:55	1
Lead	ND		1.0	0.23	ug/L		11/04/24 14:49	11/05/24 18:55	1

Lab Sample ID: LCS 280-673386/2-A
Matrix: Water
Analysis Batch: 673888

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 673386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	40.8		ug/L		102	90 - 115
Lead	40.0	39.7		ug/L		99	88 - 115

Lab Sample ID: MB 280-673195/2-C
Matrix: Water
Analysis Batch: 674060

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 673615

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		11/05/24 15:07	11/06/24 18:49	1
Copper	ND		2.0	0.71	ug/L		11/05/24 15:07	11/06/24 18:49	1
Silver	ND		0.50	0.045	ug/L		11/05/24 15:07	11/06/24 18:49	1
Zinc	ND		10	2.0	ug/L		11/05/24 15:07	11/06/24 18:49	1

Lab Sample ID: MB 280-673195/2-C
Matrix: Water
Analysis Batch: 674143

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 673615

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.23	ug/L		11/05/24 15:07	11/07/24 10:57	1

Lab Sample ID: LCS 280-673195/19-C
Matrix: Water
Analysis Batch: 674060

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 673615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	38.6		ug/L		96	89 - 111
Copper	40.0	40.3		ug/L		101	90 - 115
Silver	40.0	38.9		ug/L		97	90 - 114
Zinc	40.0	41.4		ug/L		104	88 - 115

Lab Sample ID: LCS 280-673195/19-C
Matrix: Water
Analysis Batch: 674143

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 673615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	40.0	38.6		ug/L		96	88 - 115

QC Association Summary

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

Job ID: 280-198903-1

Metals

Filtration Batch: 673195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-673195/2-C	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-673195/19-C	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Filtration Batch: 673384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-198903-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 673386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-198903-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-673386/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-673386/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 673615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-198903-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	673384
MB 280-673195/2-C	Method Blank	Potentially Dissolvec	Water	200.8	673195
LCS 280-673195/19-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	673195

Analysis Batch: 673888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-198903-1	OUTFALL-001	Total Recoverable	Water	200.8	673386
MB 280-673386/1-A	Method Blank	Total Recoverable	Water	200.8	673386
LCS 280-673386/2-A	Lab Control Sample	Total Recoverable	Water	200.8	673386

Analysis Batch: 674060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-198903-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	673615
MB 280-673195/2-C	Method Blank	Potentially Dissolvec	Water	200.8	673615
LCS 280-673195/19-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	673615

Analysis Batch: 674143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-198903-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	673615
MB 280-673195/2-C	Method Blank	Potentially Dissolvec	Water	200.8	673615
LCS 280-673195/19-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	673615

Lab Chronicle

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

Job ID: 280-198903-1

Client Sample ID: OUTFALL-001

Date Collected: 10/31/24 12:30
Date Received: 10/31/24 15:46

Lab Sample ID: 280-198903-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolvec	Filtration	Poten_Diss_Met			300 mL	300 mL	673384	11/01/24 11:39	KLG	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	673615	11/05/24 15:07	KLG	EET DEN
Potentially Dissolvec	Analysis	200.8		1			674060	11/06/24 19:05	LMT	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			300 mL	300 mL	673384	11/01/24 11:39	KLG	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	673615	11/05/24 15:07	KLG	EET DEN
Potentially Dissolvec	Analysis	200.8		1			674143	11/07/24 11:01	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	673386	11/04/24 14:49	KLG	EET DEN
Total Recoverable	Analysis	200.8		1			673888	11/05/24 19:07	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: 280-198903-1

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-25

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

Chain of Custody Record

eurofins

Client Information	Sampler: Karen Lopez	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No
Client Contact: John Rinko	Phone: 7206497722	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page
Company: Grand Island Resources	PWSID:			Job #:
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No			
Phone: (303) 601-9230	PO #:			
Email: johnrinko@yahoo.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: second half of the month event	SSOW#:			

Analysis Requested

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)	200.8 - Potentially Dissolved Metals (Second half of the month permit list)	200.8 - Total Recoverable Metals (Second half of the month permit list)	Total Number of containers
			Preservation Code:				D	D	
OUTFALL-001	10/31/2024	12:30	G	W	N	N	X	X	

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:

Special Instructions/Note:

*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)

*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)

Temp = 5°C

pH = 8

Observed visible sheen or floating oil?
Yes / (No) (circle one)

* If oil sheen observed in discharge, sampling for Oil&Grease required

280-198903 Chain of Custody

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Karen Lopez	Date/Time: 10/31/2024 15:46	Company: GIR	Received by:	Date/Time: 10/31/24 15:46	Company: EDR

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

Cooler Temperature(s) °C and Other Remarks: 5.4 IR Gun CF +0.0

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-198903-1

Login Number: 198903
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

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	
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 B.2 NOVEMBER 2024 OUTFALL-001 ANALYTICAL RESULTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/27/2024 10:06:10 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-199519-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

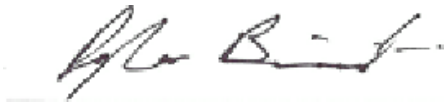
See page two for job notes and contact information.

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
11/27/2024 10:06:10 AM

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-199519-1

Qualifiers

Metals

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

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.
☼	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

Job Narrative
280-199519-1

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

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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 11/13/2024 2:40 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.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable
Sample OUTFALL-001 (280-199519-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 11/26/2024 and analyzed on 11/27/2024.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-199519-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 11/14/2024 and 11/18/2024 and analyzed on 11/15/2024 and 11/18/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-199519-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 11/14/2024 and analyzed on 11/15/2024.

The matrix spike (MS) recovery for preparation batch 280-674978 and analytical batch 280-675443 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference, high targets and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 245.1 - Mercury (CVAA)
Sample OUTFALL-001 (280-199519-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 11/22/2024.

Method SM 2510B - Conductivity, Specific Conductance
Sample OUTFALL-001 (280-199519-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 11/18/2024.

Method SM 2540D - Solids, Total Suspended (TSS)
Sample OUTFALL-001 (280-199519-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 11/19/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Job ID: 280-199519-1 (Continued) Eurofins Denver

Sample OUTFALL-001 (280-199519-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 11/13/2024 and 11/18/2024.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved
Sample OUTFALL-001 (280-199519-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 11/22/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable
Sample OUTFALL-001 (280-199519-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 11/18/2024 and 11/22/2024.

Method SM 4500 H+ B - pH
Sample OUTFALL-001 (280-199519-1) was analyzed for pH. The sample was analyzed on 11/14/2024.

Method SM 4500 S2 D - Sulfide, Total
Sample OUTFALL-001 (280-199519-1) was analyzed for Sulfide, Total. The sample was analyzed on 11/18/2024.

Method SM4500 S2 H - Unionized Hydrogen Sulfide
Sample OUTFALL-001 (280-199519-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 11/14/2024.

Detection Summary

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

Job ID: 280-199519-1

Client Sample ID: OUTFALL-001 — Lab Sample ID: 280-199519-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.0	J	2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	0.65	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	26	F1	10	2.0	ug/L	1		200.8	Total Recoverable
Lead	0.67	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Zinc	27		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	8.0	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	8.0		1.0	1.0	SU	1		SM4500 S2 H	Total/NA
Field Temperature	22		1.0	1.0	Celsius	1		SM4500 S2 H	Total/NA
Specific Conductance	240		2.0	2.0	umhos/cm	1		SM4500 S2 H	Total/NA
Chromium, hexavalent	4.7	J	20	4.0	ug/L	1		SM 3500 CR B	Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-199519-1

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: 280-199519-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-199519-1	OUTFALL-001	Water	11/13/24 12:30	11/13/24 14:40

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

Client Sample ID: OUTFALL-001
Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		11/26/24 07:54	11/27/24 01:10	1

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

Client Sample ID: OUTFALL-001
Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/14/24 08:17	11/15/24 09:13	1
Cadmium	ND		1.0	0.19	ug/L		11/14/24 08:17	11/15/24 09:13	1
Chromium	ND		3.0	0.50	ug/L		11/14/24 08:17	11/15/24 09:13	1
Copper	**1.0**	**J**	2.0	0.71	ug/L		11/14/24 08:17	11/15/24 09:13	1
Lead	**0.65**	**J**	1.0	0.23	ug/L		11/14/24 08:17	11/15/24 09:13	1
Zinc	**26**	**F1**	10	2.0	ug/L		11/14/24 08:17	11/15/24 15:44	1

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

Client Sample ID: OUTFALL-001
Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/18/24 08:31	11/18/24 22:01	1
Cadmium	ND		1.0	0.19	ug/L		11/18/24 08:31	11/18/24 22:01	1
Chromium	ND		3.0	0.50	ug/L		11/18/24 08:31	11/18/24 22:01	1
Copper	ND		2.0	0.71	ug/L		11/18/24 08:31	11/18/24 22:01	1
Lead	**0.67**	**J**	1.0	0.23	ug/L		11/18/24 08:31	11/18/24 22:01	1
Manganese	ND		3.0	0.51	ug/L		11/18/24 08:31	11/18/24 22:01	1
Nickel	ND		3.0	0.83	ug/L		11/18/24 08:31	11/18/24 22:01	1
Selenium	ND		5.0	1.0	ug/L		11/18/24 08:31	11/18/24 22:01	1
Silver	ND		0.50	0.045	ug/L		11/18/24 08:31	11/18/24 22:01	1
Zinc	**27**		10	2.0	ug/L		11/18/24 08:31	11/18/24 22:01	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		11/22/24 09:40	11/22/24 16:33	1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	**240**		2.0	2.0	umhos/cm			11/18/24 16:36	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			11/19/24 12:49	1
pH adj. to 25 deg C (SM 4500 H+ B	**8.0**	**HF**	0.1	0.1	SU			11/14/24 12:42	1
Temperature (SM 4500 H+ B)	**22.4**	**HF**	1.0	1.0	Degrees C			11/14/24 12:42	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			11/18/24 17:05	1

General Chemistry (Continued)

Client Sample ID: OUTFALL-001
Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			11/14/24 14:43	1
Field pH (SM4500 S2 H)	**8.0**		1.0	1.0	SU			11/14/24 14:43	1
Field Temperature (SM4500 S2 H)	**22**		1.0	1.0	Celsius			11/14/24 14:43	1
Specific Conductance (SM4500 S2 H)	**240**		2.0	2.0	umhos/cm			11/14/24 14:43	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			11/14/24 14:43	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		20	20	ug/L			11/22/24 14:13	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	**4.7**	**J**	20	4.0	ug/L			11/13/24 15:46	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		20	20	ug/L			11/22/24 14:13	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-676550/1-A
Matrix: Water
Analysis Batch: 676781

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100	9.1	ug/L		11/26/24 07:54	11/27/24 00:47	1

Lab Sample ID: LCS 280-676550/2-A
Matrix: Water
Analysis Batch: 676781

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10800		ug/L		108	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-674978/1-A
Matrix: Water
Analysis Batch: 675259

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 674978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/14/24 08:17	11/15/24 09:08	1
Cadmium	ND		1.0	0.19	ug/L		11/14/24 08:17	11/15/24 09:08	1
Chromium	ND		3.0	0.50	ug/L		11/14/24 08:17	11/15/24 09:08	1
Copper	ND		2.0	0.71	ug/L		11/14/24 08:17	11/15/24 09:08	1
Lead	ND		1.0	0.23	ug/L		11/14/24 08:17	11/15/24 09:08	1

Lab Sample ID: MB 280-674978/1-A
Matrix: Water
Analysis Batch: 675443

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 674978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		11/14/24 08:17	11/15/24 15:27	1

Lab Sample ID: LCS 280-674978/25-A
Matrix: Water
Analysis Batch: 675259

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 674978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.4		ug/L		103	89 - 111
Cadmium	40.0	39.8		ug/L		99	89 - 111
Chromium	40.0	40.0		ug/L		100	86 - 115
Copper	40.0	41.2		ug/L		103	90 - 115
Lead	40.0	38.5		ug/L		96	88 - 115

Lab Sample ID: LCS 280-674978/25-A
Matrix: Water
Analysis Batch: 675443

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 674978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	40.0	40.7		ug/L		102	88 - 115

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

Lab Sample ID: 280-199519-1 MS
Matrix: Water
Analysis Batch: 675259

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 674978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	39.6		ug/L		99	79 - 120
Cadmium	ND		40.0	39.4		ug/L		98	89 - 111
Chromium	ND		40.0	39.5		ug/L		99	86 - 115
Copper	1.0	J	40.0	40.2		ug/L		98	90 - 115
Lead	0.65	J	40.0	39.5		ug/L		97	88 - 115

Lab Sample ID: 280-199519-1 MS
Matrix: Water
Analysis Batch: 675443

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 674978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	26	F1	40.0	60.5	F1	ug/L		87	88 - 115

Lab Sample ID: 280-199519-1 MSD
Matrix: Water
Analysis Batch: 675259

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 674978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	40.3		ug/L		101	79 - 120	2	20
Cadmium	ND		40.0	39.8		ug/L		100	89 - 111	1	20
Chromium	ND		40.0	38.9		ug/L		97	86 - 115	2	20
Copper	1.0	J	40.0	39.6		ug/L		97	90 - 115	2	20
Lead	0.65	J	40.0	39.3		ug/L		97	88 - 115	0	20

Lab Sample ID: 280-199519-1 MSD
Matrix: Water
Analysis Batch: 675443

Client Sample ID: OUTFALL-001
Prep Type: Total Recoverable
Prep Batch: 674978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	26	F1	40.0	65.9		ug/L		101	88 - 115	9	20

Lab Sample ID: MB 280-675187/1-B
Matrix: Water
Analysis Batch: 675605

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 675188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		11/18/24 08:31	11/18/24 21:21	1
Cadmium	ND		1.0	0.19	ug/L		11/18/24 08:31	11/18/24 21:21	1
Chromium	ND		3.0	0.50	ug/L		11/18/24 08:31	11/18/24 21:21	1
Copper	ND		2.0	0.71	ug/L		11/18/24 08:31	11/18/24 21:21	1
Lead	ND		1.0	0.23	ug/L		11/18/24 08:31	11/18/24 21:21	1
Manganese	ND		3.0	0.51	ug/L		11/18/24 08:31	11/18/24 21:21	1
Nickel	ND		3.0	0.83	ug/L		11/18/24 08:31	11/18/24 21:21	1
Selenium	ND		5.0	1.0	ug/L		11/18/24 08:31	11/18/24 21:21	1
Silver	ND		0.50	0.045	ug/L		11/18/24 08:31	11/18/24 21:21	1
Zinc	ND		10	2.0	ug/L		11/18/24 08:31	11/18/24 21:21	1

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

Lab Sample ID: LCS 280-675187/14-B
Matrix: Water
Analysis Batch: 675605

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 675188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	38.8		ug/L		97	89 - 111
Cadmium	40.0	40.4		ug/L		101	89 - 111
Chromium	40.0	37.8		ug/L		94	86 - 115
Copper	40.0	38.7		ug/L		97	90 - 115
Lead	40.0	37.0		ug/L		93	88 - 115
Manganese	40.0	37.5		ug/L		94	87 - 115
Nickel	40.0	38.4		ug/L		96	86 - 115
Selenium	40.0	39.7		ug/L		99	85 - 114
Silver	40.0	40.4		ug/L		101	90 - 114
Zinc	40.0	42.0		ug/L		105	88 - 115

Lab Sample ID: 280-199519-1 MS
Matrix: Water
Analysis Batch: 675605

Client Sample ID: OUTFALL-001
Prep Type: Potentially Dissolved
Prep Batch: 675188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		40.0	39.0		ug/L		97	79 - 120
Cadmium	ND		40.0	39.4		ug/L		98	89 - 111
Chromium	ND		40.0	37.0		ug/L		93	86 - 115
Copper	ND		40.0	38.5		ug/L		96	90 - 115
Lead	0.67	J	40.0	39.0		ug/L		96	88 - 115
Manganese	ND		40.0	36.7		ug/L		92	87 - 115
Nickel	ND		40.0	38.0		ug/L		95	86 - 115
Selenium	ND		40.0	38.4		ug/L		96	85 - 114
Silver	ND		40.0	39.0		ug/L		98	70 - 130
Zinc	27		40.0	65.3		ug/L		97	88 - 115

Lab Sample ID: 280-199519-1 MSD
Matrix: Water
Analysis Batch: 675605

Client Sample ID: OUTFALL-001
Prep Type: Potentially Dissolved
Prep Batch: 675188

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		40.0	38.3		ug/L		96	79 - 120	2	20
Cadmium	ND		40.0	40.2		ug/L		101	89 - 111	2	20
Chromium	ND		40.0	36.9		ug/L		92	86 - 115	0	20
Copper	ND		40.0	38.3		ug/L		96	90 - 115	0	20
Lead	0.67	J	40.0	38.5		ug/L		94	88 - 115	1	20
Manganese	ND		40.0	36.4		ug/L		91	87 - 115	1	20
Nickel	ND		40.0	37.9		ug/L		95	86 - 115	0	20
Selenium	ND		40.0	38.3		ug/L		96	85 - 114	0	20
Silver	ND		40.0	39.8		ug/L		100	70 - 130	2	20
Zinc	27		40.0	66.7		ug/L		100	88 - 115	2	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-676183/1-A
Matrix: Water
Analysis Batch: 676567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		11/22/24 09:40	11/22/24 15:24	1

Lab Sample ID: LCS 280-676183/2-A
Matrix: Water
Analysis Batch: 676567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.03		ug/L		101	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-675568/4
Matrix: Water
Analysis Batch: 675568

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			11/18/24 16:36	1

Lab Sample ID: LCS 280-675568/3
Matrix: Water
Analysis Batch: 675568

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

Lab Sample ID: 280-199519-1 DU
Matrix: Water
Analysis Batch: 675568

Client Sample ID: OUTFALL-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	240		238		umhos/cm		0.3	10

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

Lab Sample ID: MB 280-675707/1
Matrix: Water
Analysis Batch: 675707

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			11/19/24 12:49	1

Lab Sample ID: LCS 280-675707/2
Matrix: Water
Analysis Batch: 675707

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	505	424		mg/L		84	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-674968/3-A
Matrix: Water
Analysis Batch: 674984

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			11/13/24 15:43	1

Lab Sample ID: LCS 280-674968/1-A
Matrix: Water
Analysis Batch: 674984

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	100	98.3		ug/L		98	91 - 112

Lab Sample ID: LCSD 280-674968/2-A
Matrix: Water
Analysis Batch: 674984

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	3	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-675123/4
Matrix: Water
Analysis Batch: 675123

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 280-675581/11
Matrix: Water
Analysis Batch: 675581

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			11/18/24 17:02	1

Lab Sample ID: LCS 280-675581/9
Matrix: Water
Analysis Batch: 675581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.502	0.494		mg/L		98	81 - 122

Lab Sample ID: LCSD 280-675581/10
Matrix: Water
Analysis Batch: 675581

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.502	0.510		mg/L		102	81 - 122	3	10

Metals

Prep Batch: 674978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-674978/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-674978/25-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-199519-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	
280-199519-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	

Filtration Batch: 675097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	
280-199519-1 MS	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	
280-199519-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Filtration Batch: 675187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-675187/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-675187/14-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Prep Batch: 675188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	675097
MB 280-675187/1-B	Method Blank	Potentially Dissolvec	Water	200.8	675187
LCS 280-675187/14-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	675187
280-199519-1 MS	OUTFALL-001	Potentially Dissolvec	Water	200.8	675097
280-199519-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	675097

Analysis Batch: 675259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total Recoverable	Water	200.8	674978
MB 280-674978/1-A	Method Blank	Total Recoverable	Water	200.8	674978
LCS 280-674978/25-A	Lab Control Sample	Total Recoverable	Water	200.8	674978
280-199519-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	674978
280-199519-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	674978

Analysis Batch: 675443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total Recoverable	Water	200.8	674978
MB 280-674978/1-A	Method Blank	Total Recoverable	Water	200.8	674978
LCS 280-674978/25-A	Lab Control Sample	Total Recoverable	Water	200.8	674978
280-199519-1 MS	OUTFALL-001	Total Recoverable	Water	200.8	674978
280-199519-1 MSD	OUTFALL-001	Total Recoverable	Water	200.8	674978

Analysis Batch: 675605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	675188
MB 280-675187/1-B	Method Blank	Potentially Dissolvec	Water	200.8	675188
LCS 280-675187/14-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	675188
280-199519-1 MS	OUTFALL-001	Potentially Dissolvec	Water	200.8	675188
280-199519-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	675188

QC Association Summary

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

Job ID: 280-199519-1

Metals

Prep Batch: 676183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-676183/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-676183/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 676550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total Recoverable	Water	200.7	
MB 280-676550/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-676550/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 676567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total/NA	Water	245.1	676183
MB 280-676183/1-A	Method Blank	Total/NA	Water	245.1	676183
LCS 280-676183/2-A	Lab Control Sample	Total/NA	Water	245.1	676183

Analysis Batch: 676781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	676550
MB 280-676550/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	676550
LCS 280-676550/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	676550

General Chemistry

Filtration Batch: 674968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-674968/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-674968/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-674968/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Analysis Batch: 674984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	674968
MB 280-674968/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	674968
LCS 280-674968/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	674968
LCSD 280-674968/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	674968

Analysis Batch: 675123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-675123/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 675147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 675568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-675568/4	Method Blank	Total/NA	Water	SM 2510B	

General Chemistry (Continued)

Analysis Batch: 675568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-675568/3	Lab Control Sample	Total/NA	Water	SM 2510B	
280-199519-1 DU	OUTFALL-001	Total/NA	Water	SM 2510B	

Analysis Batch: 675581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-675581/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-675581/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-675581/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 675707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-675707/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-675707/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 676305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-199519-1	OUTFALL-001	Potentially Dissolvec	Water	SM3500 CR B	
280-199519-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-199519-1

Client Sample ID: OUTFALL-001

Date Collected: 11/13/24 12:30
Date Received: 11/13/24 14:40

Lab Sample ID: 280-199519-1

Matrix: Water

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	676550	11/26/24 07:54	SMK	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			676781	11/27/24 01:10	ADL	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			200 mL	200 mL	675097	11/14/24 10:01	KLG	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	675188	11/18/24 08:31	SMK	EET DEN
Potentially Dissolvec	Analysis	200.8		1			675605	11/18/24 22:01	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	674978	11/14/24 08:17	SMK	EET DEN
Total Recoverable	Analysis	200.8		1			675443	11/15/24 15:44	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	674978	11/14/24 08:17	SMK	EET DEN
Total Recoverable	Analysis	200.8		1			675259	11/15/24 09:13	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	676183	11/22/24 09:40	AES	EET DEN
Total/NA	Analysis	245.1		1			676567	11/22/24 16:33	CAF	EET DEN
Total/NA	Analysis	SM 2510B		1			675568	11/18/24 16:36	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	675707	11/19/24 12:49	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	674968	11/13/24 15:27	ABW	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	674984	11/13/24 15:46	ABW	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			675123	11/14/24 12:42	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	675581	11/18/24 17:05	ABW	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			676305	11/22/24 14:13	RMS	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			676305	11/22/24 14:13	RMS	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			675147	11/14/24 14:43	SAH	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: 280-199519-1

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	Temperature
SM3500 CR B		Water	Chromium, trivalent
SM3500 CR B		Water	Chromium, trivalent (dissolved)
SM4500 S2 H		Water	Field pH
SM4500 S2 H		Water	Field Temperature
SM4500 S2 H		Water	Specific Conductance
SM4500 S2 H		Water	Sulfide
SM4500 S2 H		Water	Un-ionized Hydrogen Sulfide

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

Chain of Custody Record

eurofins

Client Information	Sampler: Kuren Lopez	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No
Client Contact: John Rinko	Phone: 7206497722	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page
Company: Grand Island Resources	PWSID:			Job #
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No			
Phone: (303) 601-9230	PO #:			
Email: johnrinko@yahoo.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: First half of the month event	SSOW#:			

Analysis Requested

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:
			Preservation Code:		X	X	N	N	N	CB		D	D				X	
OUTFALL-001	11/13/24	12:30	G	W	N	N	X	X	X	X		X	X				6	*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)
																		Temp = 4°C
																		pH = 8
																		Observed visible sheen or floating oil?
																		Yes // No (circle one)
																		* If oil sheen observed in discharge, sampling for Oil&Grease required.

280-199519 Chain of Custody

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kuren Lopez	11/13/24 14:40	GIR		11/13/24 1440	

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

Cooler Temperature(s) °C and Other Remarks: 5.6 IR GUN CF 0.2

Ver: 01/16/2019

11/27/2024

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-199519-1

Login Number: 199519
List Number: 1
Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/6/2024 11:04:16 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-200072-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

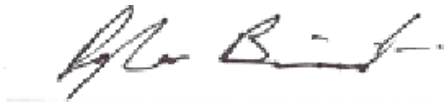
See page two for job notes and contact information.

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
12/6/2024 11:04:16 AM

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

Table of Contents

Definitions/Glossary

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

Job ID: 280-200072-1

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.
☼	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

Job ID: 280-200072-1 — Eurofins Denver

Job Narrative
280-200072-1

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

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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 11/25/2024 12:55 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 5.3°C.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-200072-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 11/27/2024 and analyzed on 12/2/2024 and 12/4/2024.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-200072-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared and analyzed on 11/27/2024.

Detection Summary

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

Job ID: 280-200072-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-200072-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.1		1.0	0.23	ug/L	1		200.8	Total Recoverable
Lead	0.99	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Zinc	22		10	2.0	ug/L	1		200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-200072-1

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: 280-200072-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-200072-1	OUTFALL-001	Water	11/25/24 11:00	11/25/24 12:55

Client Sample Results

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

Job ID: 280-200072-1

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

Client Sample ID: OUTFALL-001
Date Collected: 11/25/24 11:00
Date Received: 11/25/24 12:55

Lab Sample ID: 280-200072-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		11/27/24 07:52	11/27/24 21:15	1
Lead	**1.1**		1.0	0.23	ug/L		11/27/24 07:52	11/27/24 21:15	1

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

Client Sample ID: OUTFALL-001
Date Collected: 11/25/24 11:00
Date Received: 11/25/24 12:55

Lab Sample ID: 280-200072-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		11/27/24 14:54	12/02/24 23:51	1
Copper	ND		2.0	0.71	ug/L		11/27/24 14:54	12/02/24 23:51	1
Lead	**0.99**	**J**	1.0	0.23	ug/L		11/27/24 14:54	12/02/24 23:51	1
Silver	ND		0.50	0.045	ug/L		11/27/24 14:54	12/02/24 23:51	1
Zinc	**22**		10	2.0	ug/L		11/27/24 14:54	12/02/24 23:51	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-676738/1-A
Matrix: Water
Analysis Batch: 677025

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		11/27/24 07:52	11/27/24 20:58	1
Lead	ND		1.0	0.23	ug/L		11/27/24 07:52	11/27/24 20:58	1

Lab Sample ID: LCS 280-676738/2-A
Matrix: Water
Analysis Batch: 677025

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	40.4		ug/L		101	90 - 115
Lead	40.0	41.2		ug/L		103	88 - 115

Lab Sample ID: MB 280-676652/1-B
Matrix: Water
Analysis Batch: 677116

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 676654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		11/27/24 14:54	12/02/24 23:30	1
Copper	ND		2.0	0.71	ug/L		11/27/24 14:54	12/02/24 23:30	1
Lead	ND		1.0	0.23	ug/L		11/27/24 14:54	12/02/24 23:30	1
Silver	ND		0.50	0.045	ug/L		11/27/24 14:54	12/02/24 23:30	1
Zinc	ND		10	2.0	ug/L		11/27/24 14:54	12/02/24 23:30	1

Lab Sample ID: LCS 280-676652/22-B
Matrix: Water
Analysis Batch: 677116

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 676654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	38.4		ug/L		96	89 - 111
Copper	40.0	39.2		ug/L		98	90 - 115
Lead	40.0	37.5		ug/L		94	88 - 115
Silver	40.0	38.3		ug/L		96	90 - 114
Zinc	40.0	40.9		ug/L		102	88 - 115

Metals

Filtration Batch: 676551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200072-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Filtration Batch: 676652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-676652/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-676652/22-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Prep Batch: 676654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200072-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	676551
MB 280-676652/1-B	Method Blank	Potentially Dissolvec	Water	200.8	676652
LCS 280-676652/22-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	676652

Prep Batch: 676738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200072-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-676738/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-676738/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 677025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200072-1	OUTFALL-001	Total Recoverable	Water	200.8	676738
MB 280-676738/1-A	Method Blank	Total Recoverable	Water	200.8	676738
LCS 280-676738/2-A	Lab Control Sample	Total Recoverable	Water	200.8	676738

Analysis Batch: 677116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200072-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	676654
MB 280-676652/1-B	Method Blank	Potentially Dissolvec	Water	200.8	676654
LCS 280-676652/22-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	676654

Lab Chronicle

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

Job ID: 280-200072-1

Client Sample ID: OUTFALL-001

Date Collected: 11/25/24 11:00
Date Received: 11/25/24 12:55

Lab Sample ID: 280-200072-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	676551	11/25/24 14:10	KLG	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	676654	11/27/24 14:54	SLH	EET DEN
Potentially Dissolvec	Analysis	200.8		1			677116	12/02/24 23:51	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	676738	11/27/24 07:52	SMK	EET DEN
Total Recoverable	Analysis	200.8		1			677025	11/27/24 21:15	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: 280-200072-1

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-25

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

Chain of Custody Record

eurofins

Client Information	Sampler: Karen Loper	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No
Client Contact: John Rinko	Phone: 7206497722	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page
Company: Grand Island Resources	PWSID:			Job #:
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No			
Phone: (303) 601-9230	PO #:			
Email: johnrinko@yahoo.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: second half of the month event	SSOW#:			

Analysis Requested

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:

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)	200.8 - Potentially Dissolved Metals (Second half of the month permit list)	200.8 - Total Recoverable Metals (Second half of the month permit list)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D		
OUTFALL-001	11/25/2024	11:00	G	W	N	N	X	X	2	*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)
										*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)
										Temp = 5°C
										pH = 7.9
										Observed visible sheen or floating oil?
										Yes / No (circle one)
										* If oil sheen observed in discharge, sampling for Oil&Grease required.

280-200072 Chain of Custody

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Karen Loper 11/25/24	11/25/24 13:00	GIR		11/25/24 1253	

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

Cooler Temperature(s) °C and Other Remarks: 5.1°C PABUCFO-2

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-200072-1

Login Number: 200072
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

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	
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 B.3 DECEMBER 2024 OUTFALL-001 ANALYTICAL RESULTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/16/2024 5:29:10 PM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-200315-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

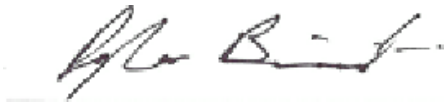
See page two for job notes and contact information.

Job Notes

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

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

Authorization



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

Table of Contents

Definitions/Glossary

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

Job ID: 280-200315-1

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

Job Narrative
280-200315-1

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

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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 12/4/2024 4:40 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 3.9°C.

Method 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable
Sample OUTFALL-001 (280-200315-1) was analyzed for Metals (ICP) - Total Recoverable. The sample was prepared on 12/6/2024 and analyzed on 12/9/2024 and 12/10/2024.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-200315-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 12/9/2024 and analyzed on 12/10/2024.

The instrument blank for analytical batch 280-678001 had an absolute value greater than one-half the reporting limit (RL) for Manganese, and associated samples were not re-analyzed because they were >10x the blank. The data have been qualified and reported.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-200315-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 12/6/2024 and analyzed on 12/11/2024.

Method 245.1 - Mercury (CVAA)
Sample OUTFALL-001 (280-200315-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 12/9/2024.

Method SM 2510B - Conductivity, Specific Conductance
Sample OUTFALL-001 (280-200315-1) was analyzed for Conductivity, Specific Conductance. The sample was analyzed on 12/5/2024.

Method SM 2540D - Solids, Total Suspended (TSS)
Sample OUTFALL-001 (280-200315-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 12/5/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved
Sample OUTFALL-001 (280-200315-1) was analyzed for Chromium, Hexavalent - Dissolved. The sample was analyzed on 12/4/2024.

Method SM3500 CR B - Chromium, Trivalent - Potentially Dissolved
Sample OUTFALL-001 (280-200315-1) was analyzed for Chromium, Trivalent - Potentially Dissolved. The sample was analyzed on 12/10/2024 and 12/16/2024.

Method SM3500 CR B - Chromium, Trivalent - Total Recoverable
Sample OUTFALL-001 (280-200315-1) was analyzed for Chromium, Trivalent - Total Recoverable. The sample was analyzed on 12/16/2024.

Method SM 4500 H+ B - pH
Sample OUTFALL-001 (280-200315-1) was analyzed for pH. The sample was analyzed on 12/5/2024.

Method SM 4500 S2 D - Sulfide, Total
Sample OUTFALL-001 (280-200315-1) was analyzed for Sulfide, Total. The sample was analyzed on 12/10/2024.

Method SM4500 S2 H - Unionized Hydrogen Sulfide
Sample OUTFALL-001 (280-200315-1) was analyzed for Unionized Hydrogen Sulfide. The sample was analyzed on 12/5/2024.

Detection Summary

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

Job ID: 280-200315-1

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-200315-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	16	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Copper	1.7	J	2.0	0.71	ug/L	1		200.8	Total Recoverable
Lead	0.86	J	1.0	0.23	ug/L	1		200.8	Total Recoverable
Zinc	21	B	10	2.0	ug/L	1		200.8	Total Recoverable
Lead	0.79	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Nickel	0.95	J	3.0	0.83	ug/L	1		200.8	Potentially Dissolved
Zinc	23		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.

Method Summary

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

Job ID: 280-200315-1

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: 280-200315-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-200315-1	OUTFALL-001	Water	12/04/24 10:00	12/04/24 16:40

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

Client Sample ID: OUTFALL-001
Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**16**	**J B**	100	9.1	ug/L		12/06/24 14:26	12/09/24 20:17	1

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

Client Sample ID: OUTFALL-001
Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/06/24 14:26	12/11/24 14:27	1
Cadmium	ND		1.0	0.19	ug/L		12/06/24 14:26	12/11/24 14:27	1
Chromium	ND		3.0	0.50	ug/L		12/06/24 14:26	12/11/24 14:27	1
Copper	**1.7**	**J**	2.0	0.71	ug/L		12/06/24 14:26	12/11/24 14:27	1
Lead	**0.86**	**J**	1.0	0.23	ug/L		12/06/24 14:26	12/11/24 14:27	1
Zinc	**21**	**B**	10	2.0	ug/L		12/06/24 14:26	12/11/24 14:27	1

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

Client Sample ID: OUTFALL-001
Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/09/24 08:24	12/10/24 10:55	1
Cadmium	ND		1.0	0.19	ug/L		12/09/24 08:24	12/10/24 10:55	1
Chromium	ND		3.0	0.50	ug/L		12/09/24 08:24	12/10/24 10:55	1
Copper	ND		2.0	0.71	ug/L		12/09/24 08:24	12/10/24 10:55	1
Lead	**0.79**	**J**	1.0	0.23	ug/L		12/09/24 08:24	12/10/24 10:55	1
Manganese	ND		3.0	0.51	ug/L		12/09/24 08:24	12/10/24 17:18	1
Nickel	**0.95**	**J**	3.0	0.83	ug/L		12/09/24 08:24	12/10/24 10:55	1
Selenium	ND		5.0	1.0	ug/L		12/09/24 08:24	12/10/24 10:55	1
Silver	ND		0.50	0.045	ug/L		12/09/24 08:24	12/10/24 10:55	1
Zinc	**23**		10	2.0	ug/L		12/09/24 08:24	12/10/24 10:55	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001
Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		12/09/24 11:09	12/09/24 17:59	1

General Chemistry

Client Sample ID: OUTFALL-001
Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (SM 2510B)	**240**		2.0	2.0	umhos/cm			12/05/24 15:23	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			12/05/24 10:08	1
pH adj. to 25 deg C (SM 4500 H+ B	**7.9**	**HF**	0.1	0.1	SU			12/05/24 15:47	1
Temperature (SM 4500 H+ B)	**21.4**	**HF**	1.0	1.0	Degrees C			12/05/24 15:47	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			12/10/24 12:58	1

General Chemistry (Continued)

Client Sample ID: OUTFALL-001
Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			12/05/24 19:08	1
Field pH (SM4500 S2 H)	**7.9**		1.0	1.0	SU			12/05/24 19:08	1
Field Temperature (SM4500 S2 H)	**21**		1.0	1.0	Celsius			12/05/24 19:08	1
Specific Conductance (SM4500 S2 H)	**240**		2.0	2.0	umhos/cm			12/05/24 19:08	1
Sulfide (SM4500 S2 H)	ND		1.0	1.0	mg/L			12/05/24 19:08	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001
Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SM3500 CR B)	ND		20	20	ug/L			12/16/24 15:25	1

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1
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			12/04/24 17:34	1

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001
Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (dissolved) (SM3500 CR B)	ND		20	20	ug/L			12/16/24 15:25	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-677508/1-A
Matrix: Water
Analysis Batch: 677914

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25.8	J	100	9.1	ug/L		12/06/24 14:26	12/09/24 19:54	1

Lab Sample ID: LCS 280-677508/2-A
Matrix: Water
Analysis Batch: 677914

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677508

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

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-677508/1-A
Matrix: Water
Analysis Batch: 678250

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/06/24 14:26	12/11/24 13:59	1
Cadmium	ND		1.0	0.19	ug/L		12/06/24 14:26	12/11/24 13:59	1
Chromium	0.618	J	3.0	0.50	ug/L		12/06/24 14:26	12/11/24 13:59	1
Copper	ND		2.0	0.71	ug/L		12/06/24 14:26	12/11/24 13:59	1
Lead	ND		1.0	0.23	ug/L		12/06/24 14:26	12/11/24 13:59	1
Zinc	3.42	J	10	2.0	ug/L		12/06/24 14:26	12/11/24 13:59	1

Lab Sample ID: LCS 280-677508/22-A
Matrix: Water
Analysis Batch: 678315

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	37.4		ug/L		93	89 - 111
Cadmium	40.0	39.2		ug/L		98	89 - 111
Chromium	40.0	38.7		ug/L		97	86 - 115
Copper	40.0	40.1		ug/L		100	90 - 115
Lead	40.0	37.8		ug/L		95	88 - 115
Zinc	40.0	38.1		ug/L		95	88 - 115

Lab Sample ID: MB 280-677567/1-B
Matrix: Water
Analysis Batch: 678001

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 677570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		12/09/24 08:24	12/10/24 13:08	1
Cadmium	ND		1.0	0.19	ug/L		12/09/24 08:24	12/10/24 13:08	1
Chromium	ND		3.0	0.50	ug/L		12/09/24 08:24	12/10/24 13:08	1
Copper	ND		2.0	0.71	ug/L		12/09/24 08:24	12/10/24 13:08	1
Lead	ND		1.0	0.23	ug/L		12/09/24 08:24	12/10/24 13:08	1
Nickel	ND		3.0	0.83	ug/L		12/09/24 08:24	12/10/24 13:08	1
Selenium	ND		5.0	1.0	ug/L		12/09/24 08:24	12/10/24 13:08	1
Silver	ND		0.50	0.045	ug/L		12/09/24 08:24	12/10/24 13:08	1
Zinc	ND		10	2.0	ug/L		12/09/24 08:24	12/10/24 13:08	1

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

Lab Sample ID: MB 280-677567/1-B
Matrix: Water
Analysis Batch: 678028

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 677570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		3.0	0.51	ug/L		12/09/24 08:24	12/10/24 16:59	1

Lab Sample ID: LCS 280-677567/2-B
Matrix: Water
Analysis Batch: 678001

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 677570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	40.1		ug/L		100	89 - 111
Cadmium	40.0	41.1		ug/L		103	89 - 111
Chromium	40.0	39.3		ug/L		98	86 - 115
Copper	40.0	40.0		ug/L		100	90 - 115
Lead	40.0	38.8		ug/L		97	88 - 115
Manganese	40.0	38.0		ug/L		95	87 - 115
Nickel	40.0	40.4		ug/L		101	86 - 115
Selenium	40.0	38.7		ug/L		97	85 - 114
Silver	40.0	38.2		ug/L		96	90 - 114
Zinc	40.0	40.4		ug/L		101	88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-677603/1-A
Matrix: Water
Analysis Batch: 677987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 677603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		12/09/24 11:09	12/09/24 16:51	1

Lab Sample ID: LCS 280-677603/2-A
Matrix: Water
Analysis Batch: 677987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 677603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.04		ug/L		101	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-677551/4
Matrix: Water
Analysis Batch: 677551

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0	umhos/cm			12/05/24 15:23	1

Lab Sample ID: LCS 280-677551/3
Matrix: Water
Analysis Batch: 677551

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

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

Lab Sample ID: MB 280-677478/1
Matrix: Water
Analysis Batch: 677478

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			12/05/24 10:08	1

Lab Sample ID: LCS 280-677478/2
Matrix: Water
Analysis Batch: 677478

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			501	526		mg/L		105	79 - 114		

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-677424/3-A
Matrix: Water
Analysis Batch: 677426

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			12/04/24 17:34	1

Lab Sample ID: LCS 280-677424/1-A
Matrix: Water
Analysis Batch: 677426

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			100	93.2		ug/L		93	91 - 112		

Lab Sample ID: LCSD 280-677424/2-A
Matrix: Water
Analysis Batch: 677426

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	95.2		ug/L		95	91 - 112	2	20

Lab Sample ID: 280-200315-1 MS
Matrix: Water
Analysis Batch: 677426

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	96.4		ug/L		96	91 - 112		

Lab Sample ID: 280-200315-1 MSD
Matrix: Water
Analysis Batch: 677426

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	97.2		ug/L		97	91 - 112	1	20

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

Lab Sample ID: 280-200315-1 DU
Matrix: Water
Analysis Batch: 677426

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 280-677563/4
Matrix: Water
Analysis Batch: 677563

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH adj. to 25 deg C			7.00	7.0		SU		101	99 - 101		

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-678003/11
Matrix: Water
Analysis Batch: 678003

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			12/10/24 12:51	1

Lab Sample ID: LCS 280-678003/9
Matrix: Water
Analysis Batch: 678003

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	0.540		mg/L		108	81 - 122		

Lab Sample ID: LCSD 280-678003/10
Matrix: Water
Analysis Batch: 678003

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	0.529		mg/L		106	81 - 122	2	10

Lab Sample ID: 280-200315-1 MS
Matrix: Water
Analysis Batch: 678003

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		0.501	0.477		mg/L		95	81 - 122		

Lab Sample ID: 280-200315-1 MSD
Matrix: Water
Analysis Batch: 678003

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		0.501	0.520		mg/L		104	81 - 122	9	10

Metals

Prep Batch: 677508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-677508/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-677508/22-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-677508/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Filtration Batch: 677511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Filtration Batch: 677567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-677567/1-B	Method Blank	Potentially Dissolvec	Water	Filtration	
LCS 280-677567/2-B	Lab Control Sample	Potentially Dissolvec	Water	Filtration	

Prep Batch: 677570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	677511
MB 280-677567/1-B	Method Blank	Potentially Dissolvec	Water	200.8	677567
LCS 280-677567/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	677567

Prep Batch: 677603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total/NA	Water	245.1	
MB 280-677603/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-677603/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 677914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	677508
MB 280-677508/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	677508
LCS 280-677508/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	677508

Analysis Batch: 677987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total/NA	Water	245.1	677603
MB 280-677603/1-A	Method Blank	Total/NA	Water	245.1	677603
LCS 280-677603/2-A	Lab Control Sample	Total/NA	Water	245.1	677603

Analysis Batch: 678001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	677570
MB 280-677567/1-B	Method Blank	Potentially Dissolvec	Water	200.8	677570
LCS 280-677567/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	677570

Analysis Batch: 678028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	677570
MB 280-677567/1-B	Method Blank	Potentially Dissolvec	Water	200.8	677570

QC Association Summary

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

Job ID: 280-200315-1

Metals

Analysis Batch: 678250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total Recoverable	Water	200.8	677508
MB 280-677508/1-A	Method Blank	Total Recoverable	Water	200.8	677508

Analysis Batch: 678315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-677508/22-A	Lab Control Sample	Total Recoverable	Water	200.8	677508

General Chemistry

Filtration Batch: 677424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-677424/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-677424/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-677424/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-200315-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-200315-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-200315-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 677426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	677424
MB 280-677424/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	677424
LCS 280-677424/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	677424
LCSD 280-677424/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	677424
280-200315-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	677424
280-200315-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	677424
280-200315-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	677424

Analysis Batch: 677478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-677478/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-677478/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 677551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total/NA	Water	SM 2510B	
MB 280-677551/4	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-677551/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 677563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-677563/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 677569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	

QC Association Summary

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

Job ID: 280-200315-1

General Chemistry

Analysis Batch: 678003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-678003/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-678003/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-678003/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-200315-1 MS	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
280-200315-1 MSD	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 678679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-200315-1	OUTFALL-001	Potentially Dissolvec	Water	SM3500 CR B	
280-200315-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Lab Chronicle

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

Job ID: 280-200315-1

Client Sample ID: OUTFALL-001

Date Collected: 12/04/24 10:00
Date Received: 12/04/24 16:40

Lab Sample ID: 280-200315-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	677508	12/06/24 14:26	SLH	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			677914	12/09/24 20:17	ADL	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			150 mL	150 mL	677511	12/05/24 11:44	AES	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	677570	12/09/24 08:24	SMK	EET DEN
Potentially Dissolvec	Analysis	200.8		1			678001	12/10/24 10:55	LMT	EET DEN
Potentially Dissolvec	Filtration	Poten_Diss_Met			150 mL	150 mL	677511	12/05/24 11:44	AES	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	677570	12/09/24 08:24	SMK	EET DEN
Potentially Dissolvec	Analysis	200.8		1			678028	12/10/24 17:18	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	677508	12/06/24 14:26	SLH	EET DEN
Total Recoverable	Analysis	200.8		1			678250	12/11/24 14:27	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	677603	12/09/24 11:09	KLG	EET DEN
Total/NA	Analysis	245.1		1			677987	12/09/24 17:59	KLG	EET DEN
Total/NA	Analysis	SM 2510B		1			677551	12/05/24 15:23	EL	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	677478	12/05/24 10:08	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	677424	12/04/24 17:13	ABW	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	677426	12/04/24 17:34	ABW	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			677563	12/05/24 15:47	EL	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	678003	12/10/24 12:58	CLP	EET DEN
Potentially Dissolvec	Analysis	SM3500 CR B		1			678679	12/16/24 15:25	ADL	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			678679	12/16/24 15:25	ADL	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			677569	12/05/24 19:08	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: 280-200315-1

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	Temperature
SM3500 CR B		Water	Chromium, trivalent
SM3500 CR B		Water	Chromium, trivalent (dissolved)
SM4500 S2 H		Water	Field pH
SM4500 S2 H		Water	Field Temperature
SM4500 S2 H		Water	Specific Conductance
SM4500 S2 H		Water	Sulfide
SM4500 S2 H		Water	Un-ionized Hydrogen Sulfide

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

Chain of Custody Record

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Client Information	Sampler: BM	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: John Rinko	Phone: 303-506-1618	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No			
Phone: (303) 601-9230	PO #:			
Email: johnrinko@yahoo.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: First half of the month event	SSOW#:			

Analysis Requested

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:
			Preservation Code:				N	N	N	CB			D	D					
OUTFALL-001	12/4/24	10am	G	W	N		X	X	X	X			X	X				6	*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 = 7.9
																			temp = 5.3°C
																			no sheen obs.

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:

280-200315 Chain of Custody

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		12/4/24 1434	GIR			
2		12/4/24 1950			12-4-24 1640	ECTDEN
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0, 5.1, 2, IR:

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-200315-1

Login Number: 200315
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/6/2025 9:40:11 AM

JOB DESCRIPTION

Nederland, CO

JOB NUMBER

280-201290-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

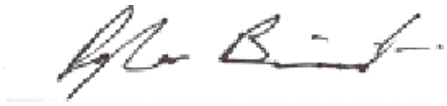
See page two for job notes and contact information.

Job Notes

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

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

Authorization



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

Table of Contents

Definitions/Glossary

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

Job ID: 280-201290-1

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.
☼	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

Job ID: 280-201290-1 — Eurofins Denver

Job Narrative
280-201290-1

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

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- 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 12/23/2024 1:00 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 0.5°C.

Method 200.8 - Metals (ICP/MS) - Potentially Dissolved
Sample OUTFALL-001 (280-201290-1) was analyzed for Metals (ICP/MS) - Potentially Dissolved. The sample was prepared on 12/27/2024 and analyzed on 12/30/2024 and 1/2/2025.

Method 200.8 - Metals (ICP/MS) - Total Recoverable
Sample OUTFALL-001 (280-201290-1) was analyzed for Metals (ICP/MS) - Total Recoverable. The sample was prepared on 12/26/2024 and 12/27/2024 and analyzed on 12/27/2024, 12/30/2024 and 1/2/2025.

Detection Summary

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

Job ID: 280-201290-1

Client Sample ID: OUTFALL-001 — Lab Sample ID: 280-201290-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.86	J	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
Lead	0.32	J	1.0	0.23	ug/L	1		200.8	Potentially Dissolved
Zinc	19		10	2.0	ug/L	1		200.8	Potentially Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 280-201290-1

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: 280-201290-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-201290-1	OUTFALL-001	Water	12/23/24 10:30	12/23/24 13:00

Client Sample Results

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

Job ID: 280-201290-1

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

Client Sample ID: OUTFALL-001
Date Collected: 12/23/24 10:30
Date Received: 12/23/24 13:00

Lab Sample ID: 280-201290-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**0.86**	**J**	2.0	0.71	ug/L		12/26/24 15:10	12/27/24 11:44	1
Lead	**0.33**	**J**	1.0	0.23	ug/L		12/26/24 15:10	12/27/24 11:44	1

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

Client Sample ID: OUTFALL-001
Date Collected: 12/23/24 10:30
Date Received: 12/23/24 13:00

Lab Sample ID: 280-201290-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		12/27/24 15:02	12/30/24 18:32	1
Copper	ND		2.0	0.71	ug/L		12/27/24 15:02	12/30/24 18:32	1
Lead	**0.32**	**J**	1.0	0.23	ug/L		12/27/24 15:02	12/30/24 18:32	1
Silver	ND		0.50	0.045	ug/L		12/27/24 15:02	12/30/24 18:32	1
Zinc	**19**		10	2.0	ug/L		12/27/24 15:02	12/30/24 18:32	1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-679637/1-A
Matrix: Water
Analysis Batch: 679791

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 679637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		12/26/24 15:10	12/27/24 11:28	1
Lead	ND		1.0	0.23	ug/L		12/26/24 15:10	12/27/24 11:28	1

Lab Sample ID: LCS 280-679637/2-A
Matrix: Water
Analysis Batch: 679791

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 679637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	40.0	38.3		ug/L		96	90 - 115
Lead	40.0	39.2		ug/L		98	88 - 115

Lab Sample ID: LCSD 280-679637/3-A
Matrix: Water
Analysis Batch: 679791

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 679637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	40.0	39.1		ug/L		98	90 - 115	2	20
Lead	40.0	38.0		ug/L		95	88 - 115	3	20

Lab Sample ID: MB 280-679659/1-B
Matrix: Water
Analysis Batch: 680052

Client Sample ID: Method Blank
Prep Type: Potentially Dissolved
Prep Batch: 679664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0	0.19	ug/L		12/27/24 15:02	12/30/24 17:53	1
Copper	ND		2.0	0.71	ug/L		12/27/24 15:02	12/30/24 17:53	1
Lead	ND		1.0	0.23	ug/L		12/27/24 15:02	12/30/24 17:53	1
Silver	0.0880	J	0.50	0.045	ug/L		12/27/24 15:02	12/30/24 17:53	1
Zinc	ND		10	2.0	ug/L		12/27/24 15:02	12/30/24 17:53	1

Lab Sample ID: LCS 280-679659/2-B
Matrix: Water
Analysis Batch: 680052

Client Sample ID: Lab Control Sample
Prep Type: Potentially Dissolved
Prep Batch: 679664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	40.0	42.0		ug/L		105	89 - 111
Copper	40.0	39.1		ug/L		98	90 - 115
Lead	40.0	39.6		ug/L		99	88 - 115
Silver	40.0	40.7		ug/L		102	90 - 114
Zinc	40.0	42.0		ug/L		105	88 - 115

Lab Sample ID: 280-201290-1 MS
Matrix: Water
Analysis Batch: 680052

Client Sample ID: OUTFALL-001
Prep Type: Potentially Dissolved
Prep Batch: 679664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	ND		40.0	41.1		ug/L		103	89 - 111
Copper	ND		40.0	40.3		ug/L		101	90 - 115
Lead	0.32	J	40.0	41.1		ug/L		102	88 - 115
Silver	ND		40.0	40.2		ug/L		101	70 - 130

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

Lab Sample ID: 280-201290-1 MS
Matrix: Water
Analysis Batch: 680052

Client Sample ID: OUTFALL-001
Prep Type: Potentially Dissolved
Prep Batch: 679664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc	19		40.0	59.6		ug/L		101	88 - 115		

Lab Sample ID: 280-201290-1 MSD
Matrix: Water
Analysis Batch: 680052

Client Sample ID: OUTFALL-001
Prep Type: Potentially Dissolved
Prep Batch: 679664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium	ND		40.0	42.1		ug/L		105	89 - 111	2	20
Copper	ND		40.0	40.1		ug/L		100	90 - 115	1	20
Lead	0.32	J	40.0	41.1		ug/L		102	88 - 115	0	20
Silver	ND		40.0	41.7		ug/L		104	70 - 130	4	20
Zinc	19		40.0	61.1		ug/L		105	88 - 115	3	20

QC Association Summary

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

Job ID: 280-201290-1

Metals

Prep Batch: 679637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201290-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-679637/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-679637/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 280-679637/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Filtration Batch: 679659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201290-1	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	
MB 280-679659/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-679659/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
280-201290-1 MS	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	
280-201290-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 679664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201290-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	679659
MB 280-679659/1-B	Method Blank	Potentially Dissolvec	Water	200.8	679659
LCS 280-679659/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	679659
280-201290-1 MS	OUTFALL-001	Potentially Dissolvec	Water	200.8	679659
280-201290-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	679659

Analysis Batch: 679791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201290-1	OUTFALL-001	Total Recoverable	Water	200.8	679637
MB 280-679637/1-A	Method Blank	Total Recoverable	Water	200.8	679637
LCS 280-679637/2-A	Lab Control Sample	Total Recoverable	Water	200.8	679637
LCSD 280-679637/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	679637

Analysis Batch: 680052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-201290-1	OUTFALL-001	Potentially Dissolvec	Water	200.8	679664
MB 280-679659/1-B	Method Blank	Potentially Dissolvec	Water	200.8	679664
LCS 280-679659/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	679664
280-201290-1 MS	OUTFALL-001	Potentially Dissolvec	Water	200.8	679664
280-201290-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	200.8	679664

Lab Chronicle

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

Job ID: 280-201290-1

Client Sample ID: OUTFALL-001

Date Collected: 12/23/24 10:30
Date Received: 12/23/24 13:00

Lab Sample ID: 280-201290-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Potentially Dissolvec	Filtration	Poten_Diss_Met			250 mL	250 mL	679659	12/26/24 11:00	KLG	EET DEN
Potentially Dissolvec	Prep	200.8			50 mL	50 mL	679664	12/27/24 15:02	KLG	EET DEN
Potentially Dissolvec	Analysis	200.8		1			680052	12/30/24 18:32	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	679637	12/26/24 15:10	SLH	EET DEN
Total Recoverable	Analysis	200.8		1			679791	12/27/24 11:44	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: 280-201290-1

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-25

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Karen Lopez	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: John Rinke	Phone: 7206497722	E-Mail: Dylan.Bieniulis@et.eurofinsus.com	State of Origin:	Page:
Company: Grand Island Resources	PWSID:			Job #:
Address: 12567 West Cedar Drive Suite 110	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80228	Compliance Project: Δ Yes Δ No			
Phone: (303) 601-9230	PO #:			
Email: johnrinko@yahoo.com	WO #:			
Project Name: Nederland, CO	Project #: 28022821			
Site: second half of the month event	SSOW#:			

Analysis Requested

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)	200.8 - Potentially Dissolved Metals (Second half of the month permit list)	200.8 - Total Recoverable Metals (Second half of the month permit list)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D		
OUTFALL-001	12/23/2024	10:30	G	W	N	N	X	X	2	*Second half of the month potentially dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)
										*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)
										Temp = 4 °C
										pH = 8
										Observed Oil Sheen? Yes / No (circle) — No circled
										* If oil sheen observed in discharge, sampling for Oil&Grease required.

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:

280-201290 Chain of Custody

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Karen Lopez	Date/Time: 12/23/24 13:00	Company GIR	Received by: [signature]	Date/Time: 12/23/24	Company [illegible]

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3 IR[illegible] CF+0.2

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Grand Island Resources

Job Number: 280-201290-1

Login Number: 201290
List Number: 1
Creator: Rystrom, Joshua R

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C SURFACE WATER ANALYTICAL RESULTS

Surface water not flowing during this quarter, therefore no samples taken.

APPENDIX D CHAIN OF CUSTODY (COC) FORMS

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: BM	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):	COC No:
Client Contact: Brooke Molson Moran	Phone: 303-506-1618	E-Mail: Dylan.Bieniulis@et.eurofinsus.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: Δ Yes Δ No			
Phone: 315-414-6986	PO #: Not required			
Email: bmolsonm@g.emporia.edu	WO #:			
Project Name: Nederland, CO	Project #: 28025589			
Site: Groundwater Sampling	SSOW#:			

Analysis Requested

Preservation Codes:

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
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)

Other:

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)	200.7/200.8 - Dissolved Metals (Groundwater Permit List) (Field Filtered)	SM4500_SO4_E - Sulfate, SM4500_Cl_E - Chloride, and 300.0 Nitrate	353.2 - Nitrate/Nitrite as N	2540C - TDS	900.0 - Gross Alpha and Gross Beta (Field Filtered) (Eurofins TestAmerica St. Louis)	9911 - Beta/Photon Emitters + TICs (Field Filtered) (Eurofins TestAmerica St. Louis)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	N	S	N	D	D	X	
CROSS WELL	12/4/24	13:00	G	W			X	X	X	X	X	X	6	300.0 Nitrate = 48 hour hold time
COMPLIANCE WELL	"	13:30	G	W			X	X	X	X	X	X	6	* Groundwater Dissolved Metals Permit List = 200.7 (Al, B, Fe) and 200.8 (Sb, As, Ba, Cd, Cu, Pb, Mn, Mo, U, Zn)
COMPLIANCE 02	"	13:30	G	W			X	X	X	X	X	X	6	
COMPLIANCE 03	"	13:30	G	W			X	X	X	X	X	X	6	Field-filtered nitric
CARIBOU WELL	"	11:30	G	W			X	X	X	X	X	X	6	preserved bottles
CROSS PORTAL	"	12:15	G	W			X	X	X	X	X	X	6	(metals &
CROSS PORTAL 02	"	12:15	G	W			X	X	X	X	X	X	6	radionuclides)
CARIBOU PORTAL	"	11:15	G	W			X	X	X	X	X	X	6	

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

APPENDIX E FIELD SHEETS

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ		Entered in d-base (initial/date) n/a	Pg 1	of Pgs
*StationID: 2022-01	*Date (mm/dd/yyyy): 12 / 4 / 24	*Group: n/a	*Agency: n/a	
*Funding: n/a	ArrivalTime: 14:50 DepartureTime: 15:05	*SampleTime (1st sample): n/a	*Protocol: n/a	
*Personnel: BM	*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure	*PurposeFailure: n/a		
*Location: Bank Thalweg Midchannel OpenWater	*GPS/DGPS	Lat (dd.ddddd)	Long (ddd.ddddd)	OCCUPATION METHOD: Walk-in Bridge R/V ______ Other
GPS Device: GPS WAYPOINTS APP	Target:	39.97904	-105.57585	STARTING BANK (facing downstream): LB / RB / NA
Datum: NAD83 Accuracy (ft / m): 1.20	*Actual:	39.978993	-105.575798	Point of Sample (if Integrated, then -88 in dbase)

Field Observations (SampleType = FieldObs)

SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	WADEABILITY: Y / N / Unk	BEAUFORT SCALE (see attachment): 2	DISTANCE FROM BANK (m): n/a; STREAM WIDTH (m): n/a; WATER DEPTH (m): n/a
SKY CODE: Clear, Partly Cloudy, Overcast, Fog	WIND DIRECTION (from): W		HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other; LOCATION (to sample): US / DS / WI n/a
OTHERPRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, Other none			PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode): 1: (RB / LB / BB / US / DS / ##) 2022-01_A
DOMINANTSUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other n/a			
WATERCLARITY: n/a Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##) 2022-01_B
WATERODOR: n/a None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		
WATERCOLOR: n/a Colorless, Green, Yellow, Brown			3: (RB / LB / BB / US / DS / ##) 2022_01-C
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs			

Field Measurements (SampleType = FieldMeasure; Method = Field)

	DepthCollec (m)	Velocity (fps)	Air Temp (°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	n/a	n/a	40°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													

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

	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													

COMMENTS:
NO SURFACE WATER FLOW, SO SAMPLES NOT COLLECTED

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			

N/A

	FIELD DUPLICATES					LAB DUPLICATES				
	Normal Sample # / Duplicate Sample #	MPN	95% CI Lower	Upper		Normal Sample # / Duplicate Sample #	MPN	95% CI Lower	Upper	
TOTAL COLIFORM	Normal					Normal				
	Duplicate					Duplicate				
	Mean		Pass	Needs Review		Mean		Pass	Needs Review	
E. COLI	Normal					Normal				
	Duplicate					Duplicate				
	Mean		Pass	Needs Review		Mean		Pass	Needs Review	
BLANKS	Field Sample #		Pass	Needs Review		Lab Sample #		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:	Trays Read By:
Processor / Date / Time:	Pulled from Incubator By / Date / Time:	Entered into database:

NOTES:

Brooke Molan 12/4/24

SURFACE WATER SAMPLING DATA SHEET

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ | Entered in d-base (initial/date) n/a | Pg 1 of 1 Pgs

*StationID: 2022-02	*Date (mm/dd/yyyy): 12 / 4 / 24	*Group: n/a	*Agency: n/a
*Funding: n/a	ArrivalTime: 14:30 DepartureTime: 14:45	*SampleTime (1st sample): n/a	*Protocol: n/a
*Personnel: BM	*Purpose (circle all that apply): (WaterChem WaterTox FieldObs FieldMeasure)	*PurposeFailure: n/a	

*Location: (Bank) Thalweg Midchannel OpenWater	*GPS/DGPS	Lat (dd.ddddd)	Long (ddd.ddddd)	OCCUPATION METHOD: (Walk-in) Bridge R/V ______ Other
GPS Device: GPS WAYPOINTS APP	Target:	39.975787	-105.569328	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)

SITE ODOR:	(None), Sulfides, Sewage, Petroleum, Mixed, Other	WADEABILITY: Y / N / (Unk)	BEAUFORT SCALE (see attachment): 1
DISTANCE FROM BANK (m): n/a	STREAM WIDTH (m): n/a	WATER DEPTH (m): n/a	
SKY CODE:	(Clear), Partly Cloudy, Overcast, Fog	WIND DIRECTION (from): W	HYDROMODIFICATION: (None), Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other — LOCATION (to sample): US / DS / WI n/a
OTHERPRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, Other none		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode): 1: (RB / LB / BB / US / DS / ##) 2022-02_A
DOMINANTSUBSTRATE:	Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other n/a		
WATERCLARITY: n/a	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	PRECIPITATION: (None), Fog, Drizzle, Rain, Snow	2: (RB / LB / BB / US / DS / ##) 2022-02_B
WATERODOR: n/a	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)	
WATERCOLOR: n/a	Colorless, Green, Yellow, Brown		3: (RB / LB / BB / US / DS / ##) 2022-02_C
OBSERVED FLOW:	NA, Dry Waterbody Bed, (No Obs Flow), Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs		

Field Measurements (SampleType = FieldMeasure; Method = Field)

	DepthCollec (m)	Velocity (fps)	Air Temp (°C) 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	n/a	n/a	41°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													

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; Kemmerer; Pole & Beaker; Other ______

	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													

COMMENTS:
NO SURFACE WATER FLOW, SO SAMPLES NOT COLLECTED

N/A

Run:										Sample Processing Date:					
Sample ID #:															
	Site Code:														
	# Small Wells														
	# Large Wells														
Yellow +	Empty Wells MPN														
	# Small Wells														
	# Large Wells														
Yellow + Fluorescence (+)	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 #	MPN	95% CI Lower	Upper	Normal Sample # / Duplicate Sample #	MPN	95% CI Lower	Upper
TOTAL COLIFORM	Normal				Normal			
	Duplicate				Duplicate			
	Mean		Pass	Needs Review	Mean		Pass	Needs Review
E. COLI	Normal				Normal			
	Duplicate				Duplicate			
	Mean		Pass	Needs Review	Mean		Pass	Needs Review
BLANKS	Field Sample #		Pass	Needs Review	Lab Sample #		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:	Trays Read By:
Processor / Date / Time:	Pulled from Incubator By / Date / Time:	Entered into database:

NOTES:

Brooke Moran 12/4/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CROSS WELL Date 12/4/24 Start Time 12:00 Stop time 13:15 Page 1 of 1 Project Number:
Sample Control Number n/a Samplers BM

WEATHER CONDITIONS

Ambient Air Temperature: 40.6° °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 30 Total Depth 205 Top of Screen 15 Filter Pack Interval n/a Borehole Diameter(inches) 9" (0-40 ft) 5 7/8" (40-205ft)
2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 208 gallons
Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 1.2 Feet of Water n/a
Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level 30 Total Depth 205 Total Volume Purged 624 Saturated Borehole Volume (gal) 154 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01
Buffer 7 Measured Value 7.1 Temp. 14.1 °C
Buffer 4 Measured Value 4.0 Temp. 14.1 °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: Newtn 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	7.2	0.3	7.7°	37	FIELD-FILTERED FOR
13:00	624	7.0	0.2	7.2°	5.6	METALS & RADIONUCLIDES
						SAMPLES COLLECTED
						WITH DISPOSABLE CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
12/4/24	13:00	7.0	7.0	0.2	7.2°	5.6		

Duplicate Sample-02 (sample control number/time n/a)
Field Blank-03 (sample control number/time n/a)
Rinsate Sample-04 (sample control number/time n/a)
Matrix Spike-MS (sample control number/time n/a)
_____ (sample control number/time n/a)

QAQC 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 12/4/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location COMPLIANCE WELL Date 12/4/24 Start Time 13:00 Stop time 13:45 Project Number: Page 1 of 1

Sample Control Number n/a Samplers BM

WEATHER CONDITIONS

Ambient Air Temperature: 39.9° °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 -39 Total Depth 165 Top of Screen 65 Filter Pack Interval n/a Borehole Diameter(inches) 9"(0-50 ft) 6"(50-165 ft)

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 185 gallons

Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 1.0 Feet of Water n/a

Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level -39 Total Depth 165 Total Volume Purged 554 Saturated Borehole Volume (gal) 115 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01

Buffer 7 Measured Value 7.1 Temp. 14.1 °C

Buffer 4 Measured Value 4.0 Temp. 14.1 °C

Conductivity Meter: Meter Number CMI-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: Newtry Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C☒ °F☐	Turbidity Visual Est.☐ Measured☒	Comments
13:00	0	7.5	0.4	5.7	4.4	FIELD-FILTERED FOR
13:30	554	7.9	0.3	6.0	3.5	METALS & RADIONUCLIDES
						SAMPLES COLLECTED
						WITH DISPOSABLE CUPS

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☐	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
12/4/24	13:30	10.4	7.9	0.3	6.0°	3.5		

Duplicate Sample-02 (sample control number/time COMPLIANCE 02)

Field Blank-03 (sample control number/time COMPLIANCE 03)

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: SAMPLED AT WELL, *6 5/8"(-1-50ft) & 4 1/2"(15-165ft)

Sampler's Signature

Brooke Molan 12/4/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CARIBOU WELL Date 12/4/24 Start Time 10:30 Stop time 11:45 Project Number: Page 1 of 1

Sample Control Number n/a Samplers BM

WEATHER CONDITIONS

Ambient Air Temperature: 40.1 °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 -29 Total Depth 165 Top of Screen 25 Filter Pack Interval n/a Borehole Diameter(inches) 9" (0-26 ft) 6" (26-165ft)

2-inch = 0.1632 gal/ft 4-inch = 0.6528 gal/ft 6-inch = 1.4688 gal/ft Casing Volume: 161 gallons

Well Casing ID n/a Well Casing OD * Protective Casing Stickup n/a Well Casing Stickup 2.4 Feet of Water n/a

Well purged with: WELL PUMP

FINAL WELL MEASUREMENTS

Static Water Level -29 Total Depth 165 Total Volume Purged 484 Saturated Borehole Volume (gal) 91 Max Pumping Rate n/a

INSTRUMENT CALIBRATION

pH Meter: Meter Number OAKTON01

Buffer 7 Measured Value 7.1 Temp. 14.1 °C

Buffer 4 Measured Value 4.0 Temp. 14.1 °C

Conductivity Meter: Meter Number CMI-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: Newtry Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C☒ °F☐	Turbidity Visual Est.☐ Measured☒	Comments
10:30	0	7.0	0.2	8.0	2.9	FIELD-FILTERED FOR
11:30	484	6.7	0.3	6.6	3.0	METALS & RADIONUCLIDES
						SAMPLES COLLECTED WITH
						DISPOSABLE CUP

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☒	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
12/4/24	11:30	10.0	6.7	0.3	6.6	3.0		

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: SAMPLED VIA PORT. * 6 5/8" (-1-26 ft) & 4 1/2" (15-165 ft)

Sampler's Signature

Brooke Moran 12/4/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION

Sample Location CROSS PORTAL Date 12/4/24 Start Time 12:00 Stop time 12:30 Project Number: Page 1 of 1

Sample Control Number n/a Samplers BM

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 7.1 Temp. 14.1 °C

Buffer 4 Measured Value 4.0 Temp. 14.1 °C

Conductivity Meter: Meter Number CMI-2104-0479

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Standard 0.447 mS/cm Measured Value 0.5 mS/cm Temp. 14 °C

Turbidity Meter: Newtry Standard n/a NTU Measured Value n/a NTU Standard n/a NTU Measured Value n/a NTU

FIELD PARAMETER MEASUREMENTS DURING PURGING

Time	Volume (gallons)	pH	Cond. (µS/cm)	Temp. °C☒ °F☐	Turbidity Visual Est.☐ Measured☒	Comments
12:15	n/a	8.1	0.4	4.7°	82	FIELD-FILTERED FOR
						METALS & RADIONUCLIDES
						SAMPLES COLLECTED
						WITH DISPOSABLE CUPS

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☐	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
12/4/24	12:15	n/a	8.1	0.4	4.7°	82		

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)

QAQC INFO AVAILABLE IN LAB REPORT

Notes:

Sampler's Signature Brooke Moran 12/4/24

GROUND WATER SAMPLING DATA SHEET

IDENTIFICATION Project Number:

Sample Location CARIBOU PORTAL Date 12/4/24 Start Time 10:30 Stop time 11:15 Page 1 of 1

Sample Control Number n/a Samplers BM

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 7.1 Temp. 14.1 °C

Buffer 4 Measured Value 4.0 Temp. 14.1 °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: Neuthry 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	8.4	0.4	3.4	4.7	FIELD-FILTERED FOR METALS & RADIONUCLIDES
						SAMPLES COLLECTED WITH DISPOSABLE CUPS

FINAL SAMPLE PARAMETERS

Sample Date	Sample Time	Discharge cfs☐ gpm☐	pH	Cond. (µS/cm)	Temp. (°C)	Turbidity Visual Est.☐ Measured☒		
12/4/24	11:15	n/a	8.4	0.4	3.4°	4.7		

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 Nolan 12/4/24

APPENDIX F PHOTOGRAPHS

APPENDIX F.1 SAMPLE LOCATION 2022-01 PHOTOGRAPHS

APPENDIX F.2 SAMPLE LOCATION 2022-02 PHOTOGRAPHS