ARTEMIS GOLD INC | Blackwater Mine

2024 Accidents and Malfunctions Summary Report

TABLE OF CONTENTS

LIST OF TABLES

Summary of Accidents, Spills or other Incidents

Table 1 below summarizes reportable events that occurred in 2024 that were triggered by the Accidents and Malfunctions Administration and Communication Plan. **Appendix A** contains the reports provided to applicable provincial regulatory authorities, Aboriginal Groups, and Indigenous groups. These documents further support the information contained in Table 1.

BW Gold actively identifies and records non-reportable environmental incidents. These incidents are proactively documented in the Environmental Incident Log to identify trends and determine the root cause of such non-reportable incidents.

Table 1 Summary of reportable events in 2024

Permit	Date Observed	Event	Date Reported	Mitigation
PE-110652	January 15	Turbid Water release. Pumping turbid water into Davidson Creek.	January 15	Immediately turned pump off. Collected water quality samples. Educating construction crews. 1. Pumping from the TSF buttress work area was shut down after observation of sediment laden water. 2. Repeated sampling at the Davidson Creek Drop Structure to monitor event. 3. Sample collection at PE-110652 compliance point DC-05. 4. Detailed Investigation of the event has commenced to determine: a. Root Causes (Absent failed/defenses, organizational factors). b. Lessons learned to prevent recurrence. c. Corrective Actions.
Spill Reporting Regulation	October 26	Heater hose was not connected properly on the Drill Rig DR011. Approximately 45 L of Coolant/ Antifreeze – Ethylene Glycol was spilled during drill rig commissioning in an equipment staging area. The drill was stationary but running. The underlying cause of the spill was due to equipment failure/human error.	October 29	Machine was shut off as soon as spill was noticed. Spill was contained and soaked up with spill pads and socks, and small soil berm. Contaminated soil and snow was scraped up and placed in hazardous waste bins for off-site disposal as were all spill absorbent pads and socks. The date of end of spill report submission to the director was November 22, 2024 which included the end of spill report, photos and spill location.
Spill Reporting Regulation	December 26	An excavator hose failure on the top of the radiator split causing the release of coolant. Approximately 130 L of Coolant/ Antifreeze – Ethylene Glycol was spilled. The underlying cause of the spill was due to equipment failure/human error.	December 28	The Machine's system hose failure triggered the machine's automatic shutdown. Spilled fluids on the surface were soaked up by spill pads and disposed of in the Hazardous Waste Bins on Site. Contaminated material was collected via machinery and loaded for placement in the contaminated material treatment/ transfer area in BWG Tailings Storage Facility. The date of end of spill report submission to the director was January 30, 2025 which included the end of spill report, photos and spill location.

Appendix A: Reports

Mine Name	Blackwater Gold Project		
Incident Title	Davidson Creek Drop Structure Turbidity		
Incident Date	15/01/2024	Incident Time (24hr)	15:00
Location	Davidson Creek	Incident Type	Environment
Incident No	1269	Reported by	Mark Warbanski
Contact's Number	778-818-0327	Contact Email	mwarbanski@artemisgoldinc.com
Non Compliance	1. Effluent Permit: Section 2.3 Bypasses. 2. Permit M-246 – Section 9 - Construction Environmental Management		
Notifications			
EAO	**Notification**	**Yes ☒**	**No ☐**
DFO	**Notification**	**Yes ☒**	**No ☐**
EMA	**Notification**	**Yes ☒**	**No ☐**
EMLI	**Notification**	**Yes ☒**	**No ☐**
Chief Inspector	**Notification**	**Yes ☒**	**No ☐**
Lhoosk'uz Dené Nation (LDN)	**Notification**	**Yes ☒**	**No ☐**
Ulkatcho First Nation (UFN)	**Notification**	**Yes ☒**	**No ☐**
Independent Environmental Monitor (IEM)	**Notification**	**Yes ☒**	**No ☐**
Incident Description			
Sediment laden water was identified entering through the Davidson Creek Drop Structure and into Davidson Creek. Construction Environmental Monitor suspended pumping operations pending investigation. This event was identified during an inspection with the IEM			
Immediate Measures Taken			
1. Pumping from the TSF buttress work area was shut down shortly after observation of sediment laden water. 2. Repeated sampling at the Davidson Creek Drop Structure to monitor event. 3. Sample collection at PE-110652 compliance point DC-05. 4. Detailed Investigation of the event has commenced to determine: a. Root Causes (Absent failed/defenses, organizational factors). b. Lessons learned to prevent recurrence. c. Corrective Actions.			
Environmental Impacts			
Turbidity samples were collected following the event. The elevated turbidity was resolved within 24 hours.			

BRITISH COLUMBIA
Ministry of Environment and Climate Change Strategy

Update to Minister/End-of-Spill Report Form

Environmental Emergency Program
SpillReports@gov.bc.ca

This report template can be completed to satisfy the requirements of either the End-of-Spill Report or the Update to Minister Report. Please specify which report you are completing in section I of this form. If any of the fields of this form are not applicable to the spill for which this form is being completed, indicate 'N/A' in the field; reports with incomplete fields will be sent back to the responsible person.

End-of-Spill Report: Section 6 of the Spill Reporting Regulation outlines the requirements for the End-of-Spill Report. Responsible persons must submit a written End-of-Spill Report to the Ministry of Environment and Climate Change Strategy within 30 days following the emergency response completion date of a spill as outlined in section 6 (1) of the Spill Reporting Regulation. Responsible persons must submit a written report to the Ministry of Environment and Climate Change Strategy as soon as practicable if either of the following two conditions are present:

1. The spill entered, or was likely to enter, a body of water as defined in the Spill Reporting Regulation
2. The quantity of the substance spilled was, or was likely to be, equal to or greater than the listed quantity for the listed substance as outlined in the Spill Reporting Regulation

Update to Minister Report: Section 5 of the Spill Reporting Regulation outlines the requirements for the Update to Minister Report. Responsible persons must submit a written report to the Ministry of Environment and Climate Change Strategy as soon as practicable if any of the following three conditions are present:

1. On request of the Minister
2. At least once every 30 days after the date that the spill began
3. At any time that the responsible person has reason to believe that information previously reported in the Initial Report has become inaccurate or incomplete

Complete this form and submit it by email to SpillReports@gov.bc.ca. For additional information, please visit the British Columbia Environmental Emergency Program Report a Spill webpage.

Dangerous Goods Incident Report (DGIR) number:

Section I: Type of report **Sections 5 and 6 of Spill Reporting Regulation**	
This form is completed to satisfy the requirements of the:	
(x) Update to Minister Report	( ) End-of-Spill Report

Section II: Contact information **Section 6 (2) (a) of the Spill Reporting Regulation**	
Details for person filling out the report	Name of company representative: Mark Warbanski
	Company name: Blackwater Gold Mine
	Email: mwarbanski@artemisgoldinc.com
	Address: 101 – 139 1st Street East, Vanderhoof, BC V0J 3A0
	Telephone number: 778.818.0327

Details for responsible person Same as above ☑	Name of company representative:
	Company name:
	Email:
	Address:
	Telephone number:
Details for owner of the substance spilled Same as above ☑	Name of company representative:
	Company name:
	Email:
	Address:
	Telephone number:

Section III: Timing of the spill
Section 6 (2) (b) of the Spill Reporting Regulation

Date of spill: 2024-01-15 Time of spill: 15:00 Duration of the spill (days): 0

Date reported: 2024-01-17 Emergency response completion date[1]: 2024-01-15

Section IV: Site description
Section 6 (2) (c) (d) of the Spill Reporting Regulation

Provide a description of the spill site and the sites affected by the spill. The description of the spill site may include a description of the receiving environment, the proximity to a nearby city/town/roadway, the type of vegetation in the area, how densely populated the area is, accessibility to spill site, nearby waterways, and any other defining characteristics of the area.

The turbid water was released to Davidson Creek via pump discharge from construction area on the Blackwater Project. The Project is located 112 kilometres south of Vanderhoof and approximately 160 kilometres south-west of Prince George. The location of discharge is a component of the Project Fisheries Act Authorization 21-HPAC-01447 and is authorized for habitat removal.

Latitude: Degrees 53 Minutes 13 Seconds 02

Longitude: Degrees 124 Minutes 13 Seconds 10

or

Site civic address or location: Street

City Postal Code

or

DLS or BCNTS (if applicable): Site ID number (if applicable):

[1] For the definition of the *emergency response completion date*, please refer to B.C. Reg. 187/2017 Spill Reporting Regulation

Section V: Description of the source, type, and quantity of the spill **Section 6 (2) (e) (f) of the Spill Reporting Regulation**
Description of the source of the spill (pipeline, rail, truck, facility, etc.): Earthworks Dewatering sump
Type of substance spilled (common name): Turbid Water
United Nations (UN) number of substance spilled (if applicable):
Item number from the table in the Schedule in the Spill Reporting Regulation:
Quantity (in litres or kilograms) of the substance spilled – if the quantity is unknown, provide a reasonable estimate and explain why the quantity is unknown and cannot be determined: Estimate of 200 m3

Section VI: Description of the circumstances, cause, and impacts of the spill **Section 6 (2) (g) (i) (ii) (iii) of the Spill Reporting Regulation**
Provide a description of the activity during which the spill occurred (transportation, transfer of cargo, fuelling, cleaning, maintenance, etc.): Dewatering of excavation area caused a release of turbid water
Provide a description of the incident leading to the spill (tank rupture, overfill, collision, rollover, derailment, fire, explosion, etc.): Mis-communication on location water was to be pumped to.
Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.): Human error

Section VII: Impacts to human health, the environment, and infrastructure **Section 6 (2) (g) (iv) (v) of the Spill Reporting Regulation**
Describe any adverse effects of the spill on human health (please state 'N/A' if there were no adverse effects on human health): N/A
Number of people evacuated:
Number of fatalities:
Number of people injured:
Describe any adverse impacts on infrastructure[2] (please state 'N/A' if there were no adverse impacts to infrastructure): N/A
Impacts to water
Was there an impact to a body of water? ◉ Yes ○ No

[2] For the definition of *infrastructure,* refer to section 91.1 of the *Environmental Management Act 2003*

Description of impact:
Water quality became turbid for a duration of time less then 24hrs, stream is currently in least risk window for fish species present, with no redds present. The area immediately downstream is associated with the project's Fisheries Act authorization for habitat removal. Although juvenile rainbow trout are present downstream, the duration and characteristics of the release are such that it is not believed to have caused adverse effects, utilizing severity-of-ill-effect. In addition, no adverse effects to fish were observed.

Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):
Stream

Name of body of water: Davidson Creek

Impacts to the environment

Was there an impact on flora (vegetation)? ○ YES ◉ NO	If yes, list the common and species names:

Provide a description of the impact on flora (oiled, removed, etc.):

N/A

Was there an impact on fauna (animals)? ○ YES ◉ NO	If yes, list the common and species names:

Provide a description of impact on fauna (include injured, dead, etc.):

N/A

Was there an impact on aquatic and/or terrestrial habitats? ○ YES ◉ NO	If yes, list the type of habitat (riparian, breeding ground, etc.):

Provide a description of impact on aquatic and terrestrial habitats, including response actions taken to restore any of the impacts listed:

N/A

Section VIII: Spill response actions **Section 6 (2) (h) of the Spill Reporting Regulation**		
Action taken to comply with section 91.2 of the *Environmental Management Act 2003*	Who took the action (company, person, contractor, etc.)	Date that the action was taken (click the arrow or enter the date using the format YYYY-MM-DD)
Pump was stopped immediately, stopping source of turbid water	BW Gold	2024-01-15
Reminded construction supervisors of environmental requirements and how turbid water was to be managed. All work in and around water must follow an approved plan as reviewed by the enviro department	BW Gold	2024-01-15

Section IX: Waste disposal (please state 'N/A' if no waste was produced) **Section 6 (2) (i) of the Spill Reporting Regulation**		
List the type of waste	Method of disposal	Location of disposal
N/A		

Section X: Attached reports, maps, and photographs **Section 6 (2) (j) (k) of the Spill Reporting Regulation**	
Report of results of sampling, testing, monitoring, and/or assessing carried out during spill response actions (including reports from Qualified Professionals), if applicable	Copy attached ☑
Map of the incident site and areas surrounding the incident site (required)	Copy attached ☑
Photographs of the spill (required)	Copy attached ☑

Section XI: Agencies on scene or notified **Section 6 (2) (l) (m) of the Spill Reporting Regulation**
List the names of all agencies that were at the incident site: None

List the names of other persons or agencies that were advised about the spill:
EAO, DFO, ENV, EMLI, IAAC, Lhoosk'uz Dene Nation, Ulkatcho First Nation, Nazko First Nation, Nadleh Whuten First Nation, Saik'uz First Nation, Independant Environmental Monitor

Section XII: Additional comments

Section XIII: Verification of information provided

I confirm that the above information is true and complete.

Name of person completing form:	Date completed (YYYY-MM-DD)
Mark Warbanski	2024-02-14
Name of responsible person (person or company):	Date completed (YYYY-MM-DD)
Blackwater Gold	2024-02-14

Section XIV: Approval - For internal use only

Reviewed by:	Date completed (YYYY-MM-DD)

Save Reset Form

Figure 1: Yellow star denotes location of incident.

Photo 1: Discharge of sediment laden water into Davidson Creek.

Photo 2: Source of sediment laden water at the TSF work front.

Photo 3: Site of environmental incident upon follow-up visit (January 16, 2024)

CERTIFICATE OF ANALYSIS

Work Order	: **VA24A0937**	Page	: 1 of 10
Client	: **ERM Consultants Canada Ltd.**	Laboratory	: ALS Environmental - Vancouver
Contact	: Tonia Robb	Account Manager	: Amber Springer
Address	: 10th Floor, 1100 Melville St. Vancouver BC Canada V6E 4A6	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: 604 689 9460	Telephone	: +1 604 253 4188
Project	: 0332945-0102-0001	Date Samples Received	: 18-Jan-2024 10:45
PO	: 15180	Date Analysis Commenced	: 18-Jan-2024
C-O-C number	: 17-057	Issue Date	: 23-Jan-2024 15:08
Sampler	: MD		
Site	: ----		
Quote number	: BW Gold SW (VA22-BWGL100-002/Q56205)		
No. of samples received	: 7		
No. of samples analysed	: 7		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Alex Thornton	Analyst	Metals, Burnaby, British Columbia
Anshim Anshim	Lab Assistant	Metals, Burnaby, British Columbia
Juanita Martis	Laboratory Analyst	Metals, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Owen Cheng		Metals, Burnaby, British Columbia

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances

LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	no units
µS/cm	microsiemens per centimetre
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical Results

Sub-Matrix: Surface Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DC Drop Str	DC Drop Str	DC Drop Str	DC-05	U/S DCDS
					Client sampling date / time	15-Jan-2024 16:30	15-Jan-2024 20:10	16-Jan-2024 06:53	16-Jan-2024 07:30	16-Jan-2024 16:45
						VA24A0937-001	VA24A0937-002	VA24A0937-003	VA24A0937-004	VA24A0937-005
						Result	Result	Result	Result	Result
Physical Tests										
Acidity (as CaCO3)	----	E283/VA	2.0	mg/L		----	----	----	----	<2.0
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L		----	----	----	----	84.1
Conductivity	----	E100/VA	2.0	µS/cm		----	----	----	----	172
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L		----	----	----	----	76.0
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L		----	----	----	----	77.6
pH	----	E108/VA	0.10	pH units		----	----	----	----	8.05
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L		----	----	----	----	110
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L		1270	55.5	<3.0	11.7	5.4
Turbidity	----	E121/VA	0.10	NTU		3270	118	5.42	64.2	4.00
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L		----	----	----	----	<0.0050
Bromide	24959-67-9	E235.Br-L/VA	0.050	mg/L		----	----	----	----	<0.050
Chloride	16887-00-6	E235.Cl/VA	0.50	mg/L		----	----	----	----	<0.50
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L		----	----	----	----	0.054
Kjeldahl nitrogen, total [TKN]	----	E318/VA	0.050	mg/L		----	----	----	----	0.079
Nitrate (as N)	14797-55-8	E235.NO3-L/VA	0.0050	mg/L		----	----	----	----	0.0859
Nitrite (as N)	14797-65-0	E235.NO2-L/VA	0.0010	mg/L		----	----	----	----	<0.0010
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/VA	0.0010	mg/L		----	----	----	----	<0.0010
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L		----	----	----	----	0.0241
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L		----	----	----	----	4.91
Cyanides										
Cyanide, strong acid dissociable (Total)	----	E333/VA	0.0050	mg/L		----	----	----	----	<0.0050
Cyanide, weak acid dissociable	----	E336/VA	0.0050	mg/L		----	----	----	----	<0.0050
Thiocyanate	302-04-5	E344/VA	0.50	mg/L		----	----	----	----	<0.50
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L		----	----	----	----	1.38
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L		----	----	----	----	1.35
Total Metals										

Analytical Results

Sub-Matrix: **Surface Water**
(Matrix: **Water**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DC Drop Str	DC Drop Str	DC Drop Str	DC-05	U/S DCDS
					Client sampling date / time	15-Jan-2024 16:30	15-Jan-2024 20:10	16-Jan-2024 06:53	16-Jan-2024 07:30	16-Jan-2024 16:45
						VA24A0937-001	VA24A0937-002	VA24A0937-003	VA24A0937-004	VA24A0937-005
						Result	Result	Result	Result	Result
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L		----	----	----	----	0.434
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L		----	----	----	----	<0.00010
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L		----	----	----	----	0.00078
Barium, total	7440-39-3	E420/VA	0.00010	mg/L		----	----	----	----	0.0154
Beryllium, total	7440-41-7	E420/VA	0.000020	mg/L		----	----	----	----	<0.000020
Bismuth, total	7440-69-9	E420/VA	0.000050	mg/L		----	----	----	----	<0.000050
Boron, total	7440-42-8	E420/VA	0.010	mg/L		----	----	----	----	<0.010
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L		----	----	----	----	0.0000072
Calcium, total	7440-70-2	E420/VA	0.050	mg/L		----	----	----	----	23.1
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L		----	----	----	----	0.00015
Copper, total	7440-50-8	E420/VA	0.00050	mg/L		----	----	----	----	0.00055
Iron, total	7439-89-6	E420/VA	0.010	mg/L		----	----	----	----	0.429
Lead, total	7439-92-1	E420/VA	0.000050	mg/L		----	----	----	----	0.000247
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L		----	----	----	----	<0.0010
Magnesium, total	7439-95-4	E420/VA	0.100	mg/L		----	----	----	----	4.83
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L		----	----	----	----	0.0324
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L		----	----	----	----	<0.0000050
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L		----	----	----	----	0.00163
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L		----	----	----	----	<0.00050
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L		----	----	----	----	0.051
Potassium, total	7440-09-7	E420/VA	0.100	mg/L		----	----	----	----	0.813
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L		----	----	----	----	0.000175
Silicon, total	7440-21-3	E420/VA	0.10	mg/L		----	----	----	----	7.54
Silver, total	7440-22-4	E420/VA	0.000010	mg/L		----	----	----	----	<0.000010
Sodium, total	7440-23-5	E420/VA	0.050	mg/L		----	----	----	----	4.82
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L		----	----	----	----	0.160
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L		----	----	----	----	1.43
Thallium, total	7440-28-0	E420/VA	0.000010	mg/L		----	----	----	----	<0.000010
Tin, total	7440-31-5	E420/VA	0.00010	mg/L		----	----	----	----	<0.00010
Titanium, total	7440-32-6	E420/VA	0.00030	mg/L		----	----	----	----	0.0141

Analytical Results

Sub-Matrix: **Surface Water**
(Matrix: **Water**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DC Drop Str	DC Drop Str	DC Drop Str	DC-05	U/S DCDS
					Client sampling date / time	15-Jan-2024 16:30	15-Jan-2024 20:10	16-Jan-2024 06:53	16-Jan-2024 07:30	16-Jan-2024 16:45
						VA24A0937-001	VA24A0937-002	VA24A0937-003	VA24A0937-004	VA24A0937-005
						Result	Result	Result	Result	Result
Total Metals										
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L		----	----	----	----	0.000954
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L		----	----	----	----	0.00119
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L		----	----	----	----	<0.0030
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L		----	----	----	----	0.00083
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/VA	0.0010	mg/L		----	----	----	----	0.0073
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L		----	----	----	----	<0.00010
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L		----	----	----	----	0.00052
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L		----	----	----	----	0.0115
Beryllium, dissolved	7440-41-7	E421/VA	0.000020	mg/L		----	----	----	----	<0.000020
Bismuth, dissolved	7440-69-9	E421/VA	0.000050	mg/L		----	----	----	----	<0.000050
Boron, dissolved	7440-42-8	E421/VA	0.010	mg/L		----	----	----	----	<0.010
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L		----	----	----	----	<0.0000050
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L		----	----	----	----	22.4
Chromium, dissolved	7440-47-3	E421/VA	0.00050	mg/L		----	----	----	----	<0.00050
Cobalt, dissolved	7440-48-4	E421/VA	0.00010	mg/L		----	----	----	----	<0.00010
Copper, dissolved	7440-50-8	E421/VA	0.00020	mg/L		----	----	----	----	0.00021
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L		----	----	----	----	0.031
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L		----	----	----	----	<0.000050
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L		----	----	----	----	<0.0010
Magnesium, dissolved	7439-95-4	E421/VA	0.100	mg/L		----	----	----	----	4.87
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L		----	----	----	----	0.0279
Mercury, dissolved	7439-97-6	E509/VA	0.0000050	mg/L		----	----	----	----	<0.0000050
Molybdenum, dissolved	7439-98-7	E421/VA	0.000050	mg/L		----	----	----	----	0.00145
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L		----	----	----	----	<0.00050
Phosphorus, dissolved	7723-14-0	E421/VA	0.050	mg/L		----	----	----	----	<0.050
Potassium, dissolved	7440-09-7	E421/VA	0.100	mg/L		----	----	----	----	0.782
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L		----	----	----	----	0.000147
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L		----	----	----	----	6.76
Silver, dissolved	7440-22-4	E421/VA	0.000010	mg/L		----	----	----	----	<0.000010

Analytical Results

Sub-Matrix: **Surface Water**
(Matrix: **Water**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DC Drop Str	DC Drop Str	DC Drop Str	DC-05	U/S DCDS
					Client sampling date / time	15-Jan-2024 16:30	15-Jan-2024 20:10	16-Jan-2024 06:53	16-Jan-2024 07:30	16-Jan-2024 16:45
						VA24A0937-001	VA24A0937-002	VA24A0937-003	VA24A0937-004	VA24A0937-005
						Result	Result	Result	Result	Result
Dissolved Metals										
Sodium, dissolved	7440-23-5	E421/VA	0.050	mg/L		----	----	----	----	4.81
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L		----	----	----	----	0.148
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L		----	----	----	----	1.41
Thallium, dissolved	7440-28-0	E421/VA	0.000010	mg/L		----	----	----	----	<0.000010
Tin, dissolved	7440-31-5	E421/VA	0.00010	mg/L		----	----	----	----	0.00018
Titanium, dissolved	7440-32-6	E421/VA	0.00030	mg/L		----	----	----	----	<0.00030
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L		----	----	----	----	0.000781
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L		----	----	----	----	<0.00050
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L		----	----	----	----	0.0016
Dissolved mercury filtration location	----	EP509/VA	-	-		----	----	----	----	Field
Dissolved metals filtration location	----	EP421/VA	-	-		----	----	----	----	Field

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)				Client sample ID	DC-05	DC-05-DUP	----	----	----
				Client sampling date / time	16-Jan-2024 17:45	16-Jan-2024 18:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24A0937-006	VA24A0937-007	--------	--------	--------
					Result	Result	----	----	----
Physical Tests									
Acidity (as CaCO3)	----	E283/VA	2.0	mg/L	<2.0	2.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	48.5	48.4	----	----	----
Conductivity	----	E100/VA	2.0	µS/cm	103	103	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L	44.1	44.3	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	42.8	42.9	----	----	----
pH	----	E108/VA	0.10	pH units	7.81	7.81	----	----	----
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L	79	78	----	----	----
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L	<3.0	<3.0	----	----	----
Turbidity	----	E121/VA	0.10	NTU	3.75	3.73	----	----	----
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L	<0.0050	<0.0050	----	----	----
Bromide	24959-67-9	E235.Br-L/VA	0.050	mg/L	<0.050	<0.050	----	----	----
Chloride	16887-00-6	E235.Cl/VA	0.50	mg/L	<0.50	<0.50	----	----	----
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	0.042	0.043	----	----	----
Kjeldahl nitrogen, total [TKN]	----	E318/VA	0.050	mg/L	0.076	0.083	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/VA	0.0050	mg/L	0.0510	0.0511	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/VA	0.0010	mg/L	<0.0010	<0.0010	----	----	----
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/VA	0.0010	mg/L	<0.0010	0.0017	----	----	----
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L	0.0142	0.0144	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	3.37	3.36	----	----	----
Cyanides									
Cyanide, strong acid dissociable (Total)	----	E333/VA	0.0050	mg/L	<0.0050	<0.0050	----	----	----
Cyanide, weak acid dissociable	----	E336/VA	0.0050	mg/L	<0.0050	<0.0050	----	----	----
Thiocyanate	302-04-5	E344/VA	0.50	mg/L	<0.50	<0.50	----	----	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	3.48	3.81	----	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	2.90	3.16	----	----	----
Total Metals									

Analytical Results

Sub-Matrix: **Surface Water**
(Matrix: **Water**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DC-05	DC-05-DUP	----	----	----
					Client sampling date / time	16-Jan-2024 17:45	16-Jan-2024 18:00	----	----	----
						VA24A0937-006	VA24A0937-007	--------	--------	--------
						Result	Result	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L		0.277	0.266	----	----	----
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L		0.00068	0.00066	----	----	----
Barium, total	7440-39-3	E420/VA	0.00010	mg/L		0.0104	0.00994	----	----	----
Beryllium, total	7440-41-7	E420/VA	0.000020	mg/L		<0.000020	<0.000020	----	----	----
Bismuth, total	7440-69-9	E420/VA	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Boron, total	7440-42-8	E420/VA	0.010	mg/L		<0.010	<0.010	----	----	----
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L		<0.0000050	<0.0000050	----	----	----
Calcium, total	7440-70-2	E420/VA	0.050	mg/L		12.8	12.9	----	----	----
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Copper, total	7440-50-8	E420/VA	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Iron, total	7439-89-6	E420/VA	0.010	mg/L		0.249	0.238	----	----	----
Lead, total	7439-92-1	E420/VA	0.000050	mg/L		0.000102	0.000098	----	----	----
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L		<0.0010	<0.0010	----	----	----
Magnesium, total	7439-95-4	E420/VA	0.100	mg/L		2.64	2.60	----	----	----
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L		0.00509	0.00483	----	----	----
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L		<0.0000050	<0.0000050	----	----	----
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L		0.000788	0.000765	----	----	----
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L		<0.050	<0.050	----	----	----
Potassium, total	7440-09-7	E420/VA	0.100	mg/L		0.616	0.593	----	----	----
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L		0.000074	0.000078	----	----	----
Silicon, total	7440-21-3	E420/VA	0.10	mg/L		7.17	7.11	----	----	----
Silver, total	7440-22-4	E420/VA	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Sodium, total	7440-23-5	E420/VA	0.050	mg/L		3.43	3.35	----	----	----
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L		0.0875	0.0871	----	----	----
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L		0.96	0.78	----	----	----
Thallium, total	7440-28-0	E420/VA	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Tin, total	7440-31-5	E420/VA	0.00010	mg/L		<0.00010	0.00011	----	----	----
Titanium, total	7440-32-6	E420/VA	0.00030	mg/L		0.00659	0.00665	----	----	----

Analytical Results

Sub-Matrix: **Surface Water**
(Matrix: **Water**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DC-05	DC-05-DUP	----	----	----
					Client sampling date / time	16-Jan-2024 17:45	16-Jan-2024 18:00	----	----	----
						VA24A0937-006	VA24A0937-007	--------	--------	--------
						Result	Result	----	----	----
Total Metals										
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L		0.000232	0.000225	----	----	----
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L		0.00077	0.00077	----	----	----
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L		<0.0030	<0.0030	----	----	----
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L		0.00063	<0.00050	----	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/VA	0.0010	mg/L		0.0428	0.0540	----	----	----
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L		0.00055	0.00060	----	----	----
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L		0.00855	0.00910	----	----	----
Beryllium, dissolved	7440-41-7	E421/VA	0.000020	mg/L		<0.000020	<0.000020	----	----	----
Bismuth, dissolved	7440-69-9	E421/VA	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Boron, dissolved	7440-42-8	E421/VA	0.010	mg/L		<0.010	<0.010	----	----	----
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L		<0.0000050	<0.0000050	----	----	----
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L		13.1	13.2	----	----	----
Chromium, dissolved	7440-47-3	E421/VA	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Cobalt, dissolved	7440-48-4	E421/VA	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Copper, dissolved	7440-50-8	E421/VA	0.00020	mg/L		<0.00020	0.00020	----	----	----
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L		0.057	0.063	----	----	----
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L		<0.0010	<0.0010	----	----	----
Magnesium, dissolved	7439-95-4	E421/VA	0.100	mg/L		2.76	2.76	----	----	----
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L		0.00278	0.00295	----	----	----
Mercury, dissolved	7439-97-6	E509/VA	0.0000050	mg/L		<0.0000050	<0.0000050	----	----	----
Molybdenum, dissolved	7439-98-7	E421/VA	0.000050	mg/L		0.000729	0.000728	----	----	----
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Phosphorus, dissolved	7723-14-0	E421/VA	0.050	mg/L		<0.050	<0.050	----	----	----
Potassium, dissolved	7440-09-7	E421/VA	0.100	mg/L		0.577	0.600	----	----	----
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L		0.000066	0.000057	----	----	----
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L		6.84	6.91	----	----	----
Silver, dissolved	7440-22-4	E421/VA	0.000010	mg/L		<0.000010	<0.000010	----	----	----

Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)					Client sample ID	DC-05	DC-05-DUP	----	----	----
					Client sampling date / time	16-Jan-2024 17:45	16-Jan-2024 18:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA24A0937-006	VA24A0937-007	--------	--------	--------
						Result	Result	----	----	----
Dissolved Metals										
Sodium, dissolved	7440-23-5	E421/VA	0.050	mg/L		3.27	3.56	----	----	----
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L		0.0804	0.0836	----	----	----
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L		0.83	0.89	----	----	----
Thallium, dissolved	7440-28-0	E421/VA	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Tin, dissolved	7440-31-5	E421/VA	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Titanium, dissolved	7440-32-6	E421/VA	0.00030	mg/L		0.00103	0.00148	----	----	----
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L		0.000190	0.000194	----	----	----
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L		<0.0010	<0.0010	----	----	----
Dissolved mercury filtration location	----	EP509/VA	-	-		Field	Field	----	----	----
Dissolved metals filtration location	----	EP421/VA	-	-		Field	Field	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

From:	Mark Warbanski
To:	resources@lhooskuz.com; Al Jamal; Alyisha Knapp; Natural Resources; fraser.riddolls@seamining.ca; Georgina.farah@seamining.ca; nrs@stellaten.ca; doug.casimel@stellaten.ca; Kasandra.Turbide@saikuz.com; band.office@saikuz.com; pketlo@nadleh.ca; referrals@nadleh.ca; postdecision@iaac-aeic.gc.ca; Katherine.Hess@iaac-aeic.gc.ca
Cc:	Tim Donnelly; Ryan Todd; Engagement-BW; Adam Gyorffy
Subject:	BWG - 30 Day Incident Report: Jan 15th 2024
Date:	Wednesday, February 14, 2024 8:38:00 PM
Attachments:	image001.png

Good evening,

On January 26th, 2024, Blackwater Gold (BW Gold) provided IAAC, via email, an environmental incident notification for a turbid water release that occurred on January 15th, 2024. The notification was provided under Condition 10.4.1 of the Federal Decision Statement; however, through further investigation and assessment it has been determined that the incident did not have the potential to cause adverse environmental effects. This determination is based on the following:

a) the receiving environment is currently in the least risk window for the fish species present, no redds or spawning;
b) the fish habitat immediately downstream, and extending approximately 2km downstream, is associated with the project Fisheries Act Authorization and future site development;
c) the duration of decreased water quality (<24hrs), was determined to not have the potential to cause adverse effect on juvenile salmonids in the effected area (utilizing Severity-of-ill-effects (SEV))

As a result of the above determination Conditions 10.4.2 and 10.4.3 of the Federal Decision Statement do not apply, BW Gold considers the reporting requirements associated with this incident complete.

Best regards,

Mark Warbanski | Manager - Environment
BW Gold Ltd. 101 – 139 1st Street East, Vanderhoof, BC V0J 3A0
Ph: 778-818-0327
mwarbanski@artemisgoldinc.com

BRITISH COLUMBIA
Ministry of Environment and Climate Change Strategy

Update to Minister/End-of-Spill Report Form

Environmental Emergency Program
SpillReports@gov.bc.ca

This report template can be completed to satisfy the requirements of either the End-of-Spill Report or the Update to Minister Report. Please specify which report you are completing in section I of this form. If any of the fields of this form are not applicable to the spill for which this form is being completed, indicate 'N/A' in the field; reports with incomplete fields will be sent back to the responsible person.

End-of-Spill Report: Section 6 of the Spill Reporting Regulation outlines the requirements for the End-of-Spill Report. Responsible persons must submit a written End-of-Spill Report to the Ministry of Environment and Climate Change Strategy within 30 days following the emergency response completion date of a spill as outlined in section 6 (1) of the Spill Reporting Regulation. Responsible persons must submit a written report to the Ministry of Environment and Climate Change Strategy as soon as practicable if either of the following two conditions are present:

1. The spill entered, or was likely to enter, a body of water as defined in the Spill Reporting Regulation
2. The quantity of the substance spilled was, or was likely to be, equal to or greater than the listed quantity for the listed substance as outlined in the Spill Reporting Regulation

Update to Minister Report: Section 5 of the Spill Reporting Regulation outlines the requirements for the Update to Minister Report. Responsible persons must submit a written report to the Ministry of Environment and Climate Change Strategy as soon as practicable if any of the following three conditions are present:

1. On request of the Minister
2. At least once every 30 days after the date that the spill began
3. At any time that the responsible person has reason to believe that information previously reported in the Initial Report has become inaccurate or incomplete

Complete this form and submit it by email to SpillReports@gov.bc.ca. For additional information, please visit the British Columbia Environmental Emergency Program Report a Spill webpage.

Dangerous Goods Incident Report (DGIR) number: 244309

Section I: Type of report **Sections 5 and 6 of Spill Reporting Regulation**	
This form is completed to satisfy the requirements of the:	
☐ Update to Minister Report	☒ End-of-Spill Report

Section II: Contact information **Section 6 (2) (a) of the Spill Reporting Regulation**	
Details for person filling out the report	Name of company representative: Eric O'Bryan
	Company name: Blackwater Gold Ltd.
	Email: eobryan@artemisgoldinc.com
	Address: 101-139 1st Street East Vanderhoof, BC, V0J 3A0
	Telephone number: 250 981 6061

Details for responsible person Same as above ☑	Name of company representative:
	Company name:
	Email:
	Address:
	Telephone number:
Details for owner of the substance spilled Same as above ☐	Name of company representative: Jamie Abels
	Company name: JDS Drilling
	Email:
	Address:
	Telephone number: 403-861-7308

Section III: Timing of the spill
Section 6 (2) (b) of the Spill Reporting Regulation

Date of spill: 2024-10-26 Time of spill: 9:00 Duration of the spill (days): 1

Date reported: 2024-10-29 Emergency response completion date[1]: 2024-10-29

Section IV: Site description
Section 6 (2) (c) (d) of the Spill Reporting Regulation

Provide a description of the spill site and the sites affected by the spill. The description of the spill site may include a description of the receiving environment, the proximity to a nearby city/town/roadway, the type of vegetation in the area, how densely populated the area is, accessibility to spill site, nearby waterways, and any other defining characteristics of the area.

Local site name is Kode Hill and the area has been cleared and stripped and is void of vegetation. It is relatively flat and used for equipment laydown and temporary storage of supplies. The nearest waterway (Mine Creek) is approximately 400 m SW/W.

Latitude: Degrees 53 Minutes 11 Seconds 21.9012

Longitude: Degrees -124 Minutes 51 Seconds 52.319

or

Site civic address or location: Street

City Postal Code

or

DLS or BCNTS (if applicable): Site ID number (if applicable):

[1] For the definition of the *emergency response completion date*, please refer to B.C. Reg. 187/2017 Spill Reporting Regulation

Section V: Description of the source, type, and quantity of the spill **Section 6 (2) (e) (f) of the Spill Reporting Regulation**
Description of the source of the spill (pipeline, rail, truck, facility, etc.): Heater hose was not connected properly on the Drill Rig DR011
Type of substance spilled (common name): Coolant/ Antifreeze - ethylene glycol
United Nations (UN) number of substance spilled (if applicable): 3082
Item number from the table in the Schedule in the Spill Reporting Regulation: 9 Class 6.1
Quantity (in litres or kilograms) of the substance spilled – if the quantity is unknown, provide a reasonable estimate and explain why the quantity is unknown and cannot be determined: approximately 45 L

Section VI: Description of the circumstances, cause, and impacts of the spill **Section 6 (2) (g) (i) (ii) (iii) of the Spill Reporting Regulation**
Provide a description of the activity during which the spill occurred (transportation, transfer of cargo, fuelling, cleaning, maintenance, etc.): The spill occurred during drill rig commissioning in an equipment staging area. The drill was stationary, but running.
Provide a description of the incident leading to the spill (tank rupture, overfill, collision, rollover, derailment, fire, explosion, etc.): The drill rig was parked and the commissioning team was completing their review and testing. A valve associated with the heater was turned on, hydraulic pressure dropped and the valve was shut off. The spill was noted and spill response activated immediately.
Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.): Equipment Failure / Human Error

Section VII: Impacts to human health, the environment, and infrastructure **Section 6 (2) (g) (iv) (v) of the Spill Reporting Regulation**
Describe any adverse effects of the spill on human health (please state 'N/A' if there were no adverse effects on human health): NA
Number of people evacuated:N/A
Number of fatalities:N/A
Number of people injured:N/A
Describe any adverse impacts on infrastructure[2] (please state 'N/A' if there were no adverse impacts to infrastructure): N/A
Impacts to water
Was there an impact to a body of water? ◯ Yes ◉ No

[2] For the definition of *infrastructure,* refer to section 91.1 of the *Environmental Management Act 2003*

Description of impact:
N/A

Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):
N/A

Name of body of water: N/A

Impacts to the environment

Was there an impact on flora (vegetation)? ○ YES ◉ NO	If yes, list the common and species names:

Provide a description of the impact on flora (oiled, removed, etc.):
N/A

Was there an impact on fauna (animals)? ○ YES ◉ NO	If yes, list the common and species names:

Provide a description of impact on fauna (include injured, dead, etc.):
N/A

Was there an impact on aquatic and/or terrestrial habitats? ○ YES ◉ NO	If yes, list the type of habitat (riparian, breeding ground, etc.):

Provide a description of impact on aquatic and terrestrial habitats, including response actions taken to restore any of the impacts listed:
N/A

Section VIII: Spill response actions **Section 6 (2) (h) of the Spill Reporting Regulation**		
Action taken to comply with section 91.2 of the *Environmental Management Act 2003*	Who took the action (company, person, contractor, etc.)	Date that the action was taken (click the arrow or enter the date using the format YYYY-MM-DD)
Machine was shut off as soon as spill was noticed. Spill was contained and soaked up with spill pads and socks, and small soil berm. Contaminated soil and snow was scraped up and placed in hazardous waste bins for off site disposal as were all spill absorbent	JDS Drilling	2024-10-26
Reminded construction supervisors of environmental requirements and how turbid water was to be managed. All work in and around water must follow an approved plan as reviewed by the enviro department	BW Gold	2024-01-15

Section IX: Waste disposal (please state 'N/A' if no waste was produced) **Section 6 (2) (i) of the Spill Reporting Regulation**		
List the type of waste	Method of disposal	Location of disposal
Contaminated Soil and Snow	Hazardous Waste Bins On Site	3rd Party Offsite Disposal
Hydraulic Spill Pads and Socks	Hazardous Waste Bins on Site	3rd Party Offsite Disposal

Section X: Attached reports, maps, and photographs **Section 6 (2) (j) (k) of the Spill Reporting Regulation**	
Report of results of sampling, testing, monitoring, and/or assessing carried out during spill response actions (including reports from Qualified Professionals), if applicable	Copy attached ☐
Map of the incident site and areas surrounding the incident site (required)	Copy attached ☑
Photographs of the spill (required)	Copy attached ☑

Section XI: Agencies on scene or notified **Section 6 (2) (l) (m) of the Spill Reporting Regulation**
List the names of all agencies that were at the incident site: No government agencies were on site.

List the names of other persons or agencies that were advised about the spill:
N/A

Section XII: Additional comments

Section XIII: Verification of information provided

I confirm that the above information is true and complete.

Name of person completing form:
Eric O'Bryan

Date completed (YYYY-MM-DD)
2024-11-22

Name of responsible person (person or company):
Eric O'Bryan

Date completed (YYYY-MM-DD)
2024-11-22

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

Save Reset Form

BRITISH COLUMBIA
Ministry of Environment and Climate Change Strategy

Update to Minister/End-of-Spill Report Form

Environmental Emergency Program
SpillReports@gov.bc.ca

This report template can be completed to satisfy the requirements of either the End-of-Spill Report or the Update to Minister Report. Please specify which report you are completing in section I of this form. If any of the fields of this form are not applicable to the spill for which this form is being completed, indicate 'N/A' in the field; reports with incomplete fields will be sent back to the responsible person.

End-of-Spill Report: Section 6 of the Spill Reporting Regulation outlines the requirements for the End-of-Spill Report. Responsible persons must submit a written End-of-Spill Report to the Ministry of Environment and Climate Change Strategy within 30 days following the emergency response completion date of a spill as outlined in section 6 (1) of the Spill Reporting Regulation. Responsible persons must submit a written report to the Ministry of Environment and Climate Change Strategy as soon as practicable if either of the following two conditions are present:

1. The spill entered, or was likely to enter, a body of water as defined in the Spill Reporting Regulation
2. The quantity of the substance spilled was, or was likely to be, equal to or greater than the listed quantity for the listed substance as outlined in the Spill Reporting Regulation

Update to Minister Report: Section 5 of the Spill Reporting Regulation outlines the requirements for the Update to Minister Report. Responsible persons must submit a written report to the Ministry of Environment and Climate Change Strategy as soon as practicable if any of the following three conditions are present:

1. On request of the Minister
2. At least once every 30 days after the date that the spill began
3. At any time that the responsible person has reason to believe that information previously reported in the Initial Report has become inaccurate or incomplete

Complete this form and submit it by email to SpillReports@gov.bc.ca. For additional information, please visit the British Columbia Environmental Emergency Program Report a Spill webpage.

Dangerous Goods Incident Report (DGIR) number:

Section I: Type of report **Sections 5 and 6 of Spill Reporting Regulation**	
This form is completed to satisfy the requirements of the:	
☐ Update to Minister Report	☒ End-of-Spill Report

Section II: Contact information **Section 6 (2) (a) of the Spill Reporting Regulation**	
Details for person filling out the report	Name of company representative: Steven Hayward
	Company name: Artemis Gold Inc.
	Email: shayward@artemisgoldinc.com
	Address: 101-139 1st Street East Vanderhoof, BC, V0J 3A0
	Telephone number: 778-916-6248

Details for responsible person Same as above ☑	Name of company representative:
	Company name:
	Email:
	Address:
	Telephone number:
Details for owner of the substance spilled Same as above ☐	Name of company representative: Lukas Traude
	Company name: Artemis Gold Inc.
	Email: ltraude@artemisgoldinc.com
	Address: 101-139 1st Street East Vanderhoof, BC, V0J 3A0
	Telephone number: 778-916-6248

Section III: Timing of the spill
Section 6 (2) (b) of the Spill Reporting Regulation

Date of spill: 2024-12-26 Time of spill: 14:00 Duration of the spill (days): 1

Date reported: 2024-12-28 Emergency response completion date[1]: 2024-12-26

Section IV: Site description
Section 6 (2) (c) (d) of the Spill Reporting Regulation

Provide a description of the spill site and the sites affected by the spill. The description of the spill site may include a description of the receiving environment, the proximity to a nearby city/town/roadway, the type of vegetation in the area, how densely populated the area is, accessibility to spill site, nearby waterways, and any other defining characteristics of the area.

Spill site was 1620 bench in the Open Pit of Blackwater Gold Mine. Material affected was overburden, area was stripped mining area with no vegetation present. Closest watercourse was 250 metres west a tributary of 704/Mine Creek.

Latitude: Degrees 53 Minutes 11 Seconds 21.9012

Longitude: Degrees -124 Minutes 51 Seconds 52.319

or

Site civic address or location: Street

City Postal Code

or

DLS or BCNTS (if applicable): Site ID number (if applicable):

[1] For the definition of the *emergency response completion date*, please refer to B.C. Reg. 187/2017 Spill Reporting Regulation

Section V: Description of the source, type, and quantity of the spill **Section 6 (2) (e) (f) of the Spill Reporting Regulation**
Description of the source of the spill (pipeline, rail, truck, facility, etc.): An excavator hose failure on the top of the radiator split causing the release of coolant.
Type of substance spilled (common name): Coolant/Anti-freeze - Ethylene glycol
United Nations (UN) number of substance spilled (if applicable): 3082
Item number from the table in the Schedule in the Spill Reporting Regulation: Item 13: TDG Class 9
Quantity (in litres or kilograms) of the substance spilled – if the quantity is unknown, provide a reasonable estimate and explain why the quantity is unknown and cannot be determined: 130 litres

Section VI: Description of the circumstances, cause, and impacts of the spill **Section 6 (2) (g) (i) (ii) (iii) of the Spill Reporting Regulation**
Provide a description of the activity during which the spill occurred (transportation, transfer of cargo, fuelling, cleaning, maintenance, etc.): The spill occurred during mining/construction activity with the excavator loading material into haul trucks.
Provide a description of the incident leading to the spill (tank rupture, overfill, collision, rollover, derailment, fire, explosion, etc.): System hose failuer on EX2402 triggering the machine's automatic shutdown. Spill response was activated immediately.
Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.): Equipment Hose Failure

Section VII: Impacts to human health, the environment, and infrastructure **Section 6 (2) (g) (iv) (v) of the Spill Reporting Regulation**
Describe any adverse effects of the spill on human health (please state 'N/A' if there were no adverse effects on human health): N/A
Number of people evacuated:N/A
Number of fatalities:N/A
Number of people injured:N/A
Describe any adverse impacts on infrastructure[2] (please state 'N/A' if there were no adverse impacts to infrastructure): N/A
Impacts to water
Was there an impact to a body of water? ◯ Yes ◉ No

[2] For the definition of *infrastructure,* refer to section 91.1 of the *Environmental Management Act 2003*

Description of impact:

Water quality became turbid for a duration of time less then 24hrs, stream is currently in least risk window for fish species present, with no redds present. The area immediately downstream is associated with the project's Fisheries Act authorization for habitat removal. Although juvenile rainbow trout are present downstream, the duration and characteristics of the release are such that it is not believed to have caused adverse effects, utilizing severity-of-ill-effect. In addition, no adverse effects to fish were observed.

Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):

Stream

Name of body of water:

Impacts to the environment

Was there an impact on flora (vegetation)? ○ YES ◉ NO	If yes, list the common and species names:

Provide a description of the impact on flora (oiled, removed, etc.):

Was there an impact on fauna (animals)? ○ YES ◉ NO	If yes, list the common and species names:

Provide a description of impact on fauna (include injured, dead, etc.):

Was there an impact on aquatic and/or terrestrial habitats? ○ YES ◉ NO	If yes, list the type of habitat (riparian, breeding ground, etc.):

Provide a description of impact on aquatic and terrestrial habitats, including response actions taken to restore any of the impacts listed:

Section VIII: Spill response actions **Section 6 (2) (h) of the Spill Reporting Regulation**		
Action taken to comply with section 91.2 of the *Environmental Management Act 2003*	Who took the action (company, person, contractor, etc.)	Date that the action was taken (click the arrow or enter the date using the format YYYY-MM-DD)
Equipment was moved out of the way and spill response was initiated. Spilled fluid on surface was soaked up by spill pads .	BWG Mine Operations	2024-12-26
Contaminated material was collected via machinery and loaded into wiggle wagon for placement in contaminated material treatment/transfer area in BWG Tailings Storage Facility.	BWG Mine Operations	2024-12-26

Section IX: Waste disposal (please state 'N/A' if no waste was produced) **Section 6 (2) (i) of the Spill Reporting Regulation**		
List the type of waste	Method of disposal	Location of disposal
Hydrocarbon Impacted Pads and Sock	Hazardous Waste Bins on Site	3rd Party Offsite Disposal
Contaminated material	Cont. Mat. Treatment/Transfer Area	Blackwater Gold Mine TSF

Section X: Attached reports, maps, and photographs **Section 6 (2) (j) (k) of the Spill Reporting Regulation**	
Report of results of sampling, testing, monitoring, and/or assessing carried out during spill response actions (including reports from Qualified Professionals), if applicable	Copy attached ☐
Map of the incident site and areas surrounding the incident site (required)	Copy attached ☑
Photographs of the spill (required)	Copy attached ☑

Section XI: Agencies on scene or notified **Section 6 (2) (l) (m) of the Spill Reporting Regulation**
List the names of all agencies that were at the incident site: No government agencies were on site.

List the names of other persons or agencies that were advised about the spill:
N/A

Section XII: Additional comments

Section XIII: Verification of information provided

I confirm that the above information is true and complete.

Name of person completing form:
Steven Hayward

Date completed (YYYY-MM-DD)
2025-01-20

Name of responsible person (person or company):
Steven Hayward

Date completed (YYYY-MM-DD)
2025-01-20

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

Save Reset Form