



Blackwater Mine



2025 Accidents and Malfunctions Summary Report



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Summary of Accidents, Spills or other Incidents

Table 1 below summarizes reportable events that occurred in 2025 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 2025

Classification	Date Observed	Event	Date Reported	30 Day Follow up Report	90 Day Follow up Report	Mitigation
Minor	January 17	MMU operator noticed MMU filling slower than usual and left MMU to check/adjust pump speed and not watching the tank fill level. Tank overflowed as a result. Spill site was the Ammonium Nitrate Emulsion (ANE) transfer area, in the Orica Facility at Blackwater Mine. Material affected was construction aggregate used to build the laydown. There is no vegetation in the area, and no flora or fauna were affected by the spill. The nearest waterway is Creek 704, roughly 200m East of the spill site. The water course is non-fish bearing and serves to fill a water management pond. The water is not released downstream.	January 18	January 22	N/A	<ul style="list-style-type: none"> Install remote start/stop controls to use from top of MMU Install an indicator light to indicate pump is in operation Update work procedures to include communication if using two operators or if not remote is available. Post new pump procedures at pumping station Review revised procedure with all operators. Management & SHES to follow up and ensure all critical actions are completed and verified. Review of supervision and personnel updates
Moderate	February/March	Due to persistent cold weather conditions at the beginning of February 2025, the Central Water Transfer Pond (CWTP) pump failed due to freezing conditions, and subsequently the discharge line froze.	August 11	N/A	August 11	<p>In response to the pump failures in February, a review of pump and supply systems was done to identify:</p> <ol style="list-style-type: none"> Changes should be made to limit the potential for freezing during winter conditions; and, Electrical components inventory for regularly used parts (such as breakers) to limit the potential of downtime for pumping infrastructure <p>Following this review, pipeline improvements for the CWTP and WMP were made in early March:</p> <ul style="list-style-type: none"> Pipelines sections were re-graded to minimize low points for water accumulation and ice buildup during freezing weather Low point drains were maintained and heated with frost fighters for draining of sections during expected downtime. Select pipeline sections were buried under 3 meters of material to reduce freezing risk under frost line.
Minor	April 6	Waste oil drum tipped over as a result of melting snow and ice it was sitting on.	April 6	May 4	N/A	Spill cleanup was initiated immediately - ERT was dispatched to the scene with the spill response trailer, the area was closed to traffic, and 15-20 personnel contributed to the cleanup. The source of the spill was ceased. Runoff water was prevented from entering the contaminated area. Spill booms were placed in the ditch line to contain the spill and prevent hydrocarbons from leaving site. Spill pads were placed on the ground where waste oil and sheen were visible. A hydrovac was utilized to remove contaminated water and snow from the ditch line. A backhoe was used to remove contaminated soil from the road.
Minor	May 14	Excavator loading material as part of mine operations had a Coolant hose/clamp failure on main suction line for left engine coolant system. Spill site was a bench in the open pit at Blackwater Gold Mine. Material affected was PAG overburden. Stripped rock with no vegetation present. Nearest watercourse was 370 metres, a tributary of Mine Creek.	May 15	June 8	N/A	Hose and clamps were reinstalled and tightened. Then proceeded to verify all other accessible rad hose clamps were tight. Unit was filled with coolant, and no leaks were found. A replacement hose and clamps have been ordered to be changed as a precautionary measure.
Minor	May 17	Haul truck dumping material as part of laydown construction had a Hose failure from coolant heater line from engine to cab. Spill site was Mine Services Area (MSA). Material affected was general construction aggregate, a laydown area with no vegetation present. Closest watercourse was 390 metres away, Creek 704/Mine Creek. Watercourse was not affected.	May 18	June 7	N/A	Upon inspection, found a heater hose underneath the cab had split open. Clamps were tight, appears to just be a failure of the hose. Hose was a little on the soft side but not bad. The hose has been replaced.
Minor	May 28	Construction Camp had a Pipe under camp that developed a crack leading to leak. Spill site was under Dorm 1 at Construction Camp at Blackwater Gold Mine. Affected material was packed construction aggregate with no vegetation present. Closest watercourse was Creek 146, 170m away.	June 18	July 2	N/A	Exact spill date is not known and approximated at May 28. Initial pipe bypass was put in place after notification was received. Spill clean up was planned including coordination of confined space training for Hydro-Vac operators and scheduling cleanup once shift change was complete and night shift employees were not staying in dorm. Once spill cleanup was initiated a full connection repair was put in place for the pipe on June 12.
Minor	June 14	Mixed mobile unit truck was filling tank with dry Ammonium Nitrate prill product when gate closure mechanism malfunctioned leading to an overflow and spillage. Spill site was Orica Laydown. Material affected was general construction aggregate, packed material for a laydown with no vegetation present. Closest watercourse was 475 m away, Mine Creek.	June 15	July 25	N/A	Investigation was done for mechanical issue of the gate closure, and they are working towards a more robust system to limit future failures.
Moderate	June 24	A slope failure was identified that resulted in the deposition of natural materials (soil, vegetation, etc.) into Davidson Creek.	June 25	July 25	N/A	<p>The area will be visually monitored and corrective actions taken if required and only when it is safe to do so. Monitoring will also continue under BW Gold's surface water quality sampling program. Resources at the mine are available to support monitoring and corrective actions as needed. Post event sampling and monitoring measures that occurred are listed below:</p> <ul style="list-style-type: none"> Bank Walks (800 m) Upstream SWQ Sample Downstream SWQ Sample SWQ Sample at DC-05 (approximately 800 m downstream) Gauges placed in downstream (to identify sediment deposition)
Minor	July 3	Diesel pump was transferring slurry from one tank to another when the outflow hose line failed resulting in spilled material reporting to the ground.	July 3	July 9	N/A	Pump was immediately shut down, supervisor and environment department were notified. Released material was contained with a dirt bund and clean up was coordinated with a hydro-vac truck. Contaminated material was cleaned up with a loader and disposed of in TSF.
Minor	July 8	Operator of 1 Ton fuel truck was filling booster pump 1. After refueling, the truck was moved with nozzle still in place at booster pump 1. Fuel hose detached and spill to ground occurred.	July 9	July 9	N/A	Shut off pump, placed spill tray where leak was from container of truck, placed spill pads in positions that would prevent spreading further. Excavator cleaned up contaminated material.
Minor	July 25	During scheduled work to install new HDPE piping workers were instructed to have the pipe drained prior to the maintenance taking place. When work began to install the new flange where the new HDPE pipe would be tied into the current pipe, the head pressure from the drain pushed a gasket out of its seat causing a leak.	July 26	August 21	N/A	<ul style="list-style-type: none"> Source of spill was stopped. Environment was notified. Environment collected soil samples at affected area. Cleanup initiated and completed. Post clean-up soil sample collected.
Minor	October 28	<ul style="list-style-type: none"> Hose failure Damaged coolant line fitting Activity during spill – approaching LGO stockpile dump location 	November 3	November 3	N/A	Truck was shut down, Dispatch was informed. Maintenance was dispatched out to stop the leak. Spill tray placed under area of leak. Lube truck evacuated all surface Coolant that had pooled.
Major	November 26	Operator was putting totes of caustic soda away into storage sea can and punctured tote in second row with fork of telehandler.	November 26	December 26	N/A	<p>EX349 scraped up contaminated soil and loaded it onto a 773 HT to be brought to the PAG Waste storage area.</p> <ul style="list-style-type: none"> Incident investigation resulted in corrective actions being identified and actioned including: Procurement of forklift collars to limit protrusion on other end of tote when handling totes. Procurement of materials to raise floor of sea can storage, increasing containment capacity. Procurement of materials to install external drain camlock and allow easier access for maintenance of secondary containment. Training audit for chemical handling of forklift staff. Phase 1A construction package has included installation of caustic soda bulk tank resulting in overall less chemical tote handling.
Minor	November 27	A hydraulic leak occurred in the swing circuit of the SH3601, resulting in the release of approximately 930 liters of oil. Of this amount, 500 liters were recovered by the lube truck from the deployed spill containment trays. A significant portion of the spill was effectively contained by these trays and absorbent pads.	November 27	December 22	N/A	<ul style="list-style-type: none"> Truck was shut down, Dispatch was informed. Maintenance was dispatched out to stop the leak. Spill tray placed under area of leak. Deployed absorbent pads around area Lube truck evacuated all surface hydrocarbon had pooled 988 loader collected all soiled material and loaded into 773 HT
Major	December 6	Operator was placing tote of caustic soda in reagents seacan and punctured a tote behind the one he was placing with the tip of his zoom boom fork that was protruding past the tote that he was placing.	December 7	January 6	N/A	<ul style="list-style-type: none"> Incident investigation resulted in corrective actions being identified and actioned including: Procurement of forklift collars to limit protrusion on other end of tote when handling totes. Procurement of materials to raise floor of sea can storage, increasing containment capacity. Procurement of materials to install external drain camlock and allow easier access for maintenance of secondary containment. Training audit for chemical handling of forklift staff. Phase 1A construction package has included installation of caustic soda bulk tank resulting in overall less chemical tote handling.

Appendix A: Reports

See sub-appendices in the online folder

Initial Spill Report					
Name & Company:	Orica Canada.				
Date & Time Observed:	1/17/2025 @ 1:30pm.				
Emulsion Spilled:	200KG +/-	Fluid Quantity (L)	244L +/-		
Location & Description of Spill Area	ANE Transfer Area, Orica Facility. Pump Shack – MMU.				
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Equipment/Source of Spill:	MMU Tank Overflow.				
Circumstances/Cause of Spill:	Un-attended MMU Tank during ANE transfer. Pump was being attended, Tank level was not being overseen.				
Spill Response Actions Taken:	The pump was shut off immediately, spill reported to Orica supervisor, and manual clean up of the spilled ANE started right away. While clean up ensued the Orica SHES team and the BWG Environmental team were notified as well. If Reportable to "authority" to be determined.				
Contaminated Material Disposal Methods:	Some Gravel/aggregate. To be Bagged and disposed of down bore hole on blast patterns intermittently.				
Reportable Spills					
Responsible Persons:	Ben Doxtator, Orica - BWG Supervisor. Travis Smith, Orica - Sr. Site Supervisor B.C.				
Reported to Spill Hotline	<input type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #		
Date & Time Reported:	Between 1:30pm – 2:30pm through-out multiple levels of spill control response and management. (Orica & BWG)				
Government Agencies Notified:	N/A				
Government or First Nation Agencies At Spill Site:	N/A				

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:

Company name:

Email:

Address:

Telephone number:

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:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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.

Latitude:	Degrees	Minutes	Seconds
Longitude:	Degrees	Minutes	Seconds
or			
Site civic address or location:	Street		Postal Code
	City		
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.):

Type of substance spilled (common name):

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:

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.):

Provide a description of the incident leading to the spill (tank rupture, overfill, collision, rollover, derailment, fire, explosion, etc.):

Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.):

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):

Number of people evacuated:

Number of fatalities:

Number of people injured:

Describe any adverse impacts on infrastructure² (please state 'N/A' if there were no adverse impacts to infrastructure):

Impacts to water

Was there an impact to a body of water?	Yes	No
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² For the definition of *infrastructure*, refer to section 91.1 of the [Environmental Management Act 2003](#)

Description of impact:	
Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):	
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 <i>Environmental Management Act 2003</i>	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)

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

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 <input type="checkbox"/>
Map of the incident site and areas surrounding the incident site (required)	Copy attached <input type="checkbox"/>
Photographs of the spill (required)	Copy attached <input type="checkbox"/>

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:

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

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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

August 5, 2025

Impact Assessment Agency of Canada
22nd Floor, Place Bell
160 Elgin Street
Ottawa ON K1A 0H3

Dear sir or madam:

As per BW Gold's Accidents and Malfunctions Administration and Communication Plan, please see information below regarding an incident that occurred on the Blackwater Mine.

Due to persistent cold weather conditions at the beginning of February 2025, the Central Water Transfer Pond (CWTP) pump failed due to freezing conditions, and subsequently the discharge line froze. Maintenance of this system occurred from February 6, including the removal of ice blockages, and replacing the pump. Pumping from the CWTP resumed February 22nd.

On February 2nd, the breaker for the Water Management Pond (WMP) pump failed. A long lead time for the replacement parts results in a delay in return to pumping. Additionally, due to the conditions described above, the CWTP did not contribute flows to the WMP, resulting in limited water volumes to pump. Maintenance of this system occurred over the following days, and pumping from the WMP resumed February 21st.

In response to the pump failures in February, a review of pump and supply systems was done to identify:

1. Changes should be made to limit the potential for freezing during winter conditions; and,
2. Electrical components inventory for regularly used parts (such as breakers) to limit the potential of downtime for pumping infrastructure

Following this review, pipeline improvements for the CWTP and WMP were made in early March:

- Pipelines sections were re-graded to minimize low points for water accumulation and ice buildup during freezing weather
- Low point drains were maintained and heated with frost fighters for draining of sections during unexpected downtime.
- Select pipeline sections were buried under 3 meters of material to reduce freezing risk under frost line.

To support those activities, discharge from the CWTP and WMP occurred intermittently, until the pump at the CWTP was brought back online on March 18th.

Water from the CWTP and WMP discharge to Davidson Creek, and support meeting Construction Instream Flow Needs (CIFN) regulated by the Mine's *Fisheries Act Authorization*. The natural reduction in flow associated with those persistent cold periods in February and March, in conjunction with the limited pumping capacity of those facilities over this time resulted in flows below CIFN on February 6, 7, 9, and March 14 and 15. Details on these low flow events, including follow up actions, have been provided through the monthly *Fisheries Act Authorization* reports for February and March. A

subsequent review of potential impacts to fish and fish habitat during these events was done by a Qualified Professional and determined that the potential risk of a significant effect is low (attached).

To further reduce risks related to discharges the Freshwater Reservoir (FWR) will be commissioned in Q4, 2025. The FWR operates as a pipe discharge system where no pumping of water to meet IFN is required. Remaining critical piping infrastructure will be buried to ensure reduction in freezing risk. These changes were discussed and reviewed with the Independent Environmental Monitor (IEM) during the May inspection. As reflected in this conversation, BWG anticipates that these changes will reduce the potential for freezing events to limit pumping at the CWTP and the WMP.

Upon review of these occurrences the IEM indicated that based on their interpretation of an example included in the Accidents and Malfunctions Administration and Communication Plan that this event should be reported as a moderate occurrence. BW Gold does not align with this interpretation; however, this submission is the outcome associated with subsequent discussion with the IEM. It is important to note that while the timing of this submission is tied to this outcome, reviews of the pump failure and downstream risks were not similarly delayed. As outlined above, fulsome review of these events has occurred, including a review of the cause, identification and implementation of mitigations, and a review of potential downstream risks. This report, and attachment, include information needed to fulfill those follow-up reporting requirements and no additional follow-up will occur.

Please do not hesitate to contact the undersigned if there are any further questions.

Kind regards,

Mark Warbanski
Environment Manager
Blackwater Gold Mine

Attachment:

- Memorandum – Risk to Fish and Fish Habitat Due to Discharge Below CIFN Threshold



Memorandum

275072 Symons Valley Road
Rocky View County, AB, T4B 4N1
T:587.777.5667

Attention: Mark Warbanski, BW Gold Ltd.

Date: May 29, 2025

Project Name: Blackwater Gold

No. of Pages: 10

From: Robert St. Jean, P.Bio

Re: Risk to Fish and Fish Habitat Due to Discharge Below CIFN Threshold

1. Introduction

BW Gold Ltd. (BW Gold) is currently constructing the Blackwater Project, an open pit mine located 112 kilometres (kms) southwest of Vanderhoof, and approximately 160 kms west-southwest of Prince George, British Columbia (BC).

The Blackwater Project received Environmental Assessment Certificate (EAC) #M19-01 under the 2002 Environmental Assessment Act on June 21, 2019, and an Environmental Assessment Decision Statement (FDS) under the Canadian Environmental Assessment Act, 2012 on April 15, 2019, and on June 30, 2023, Fisheries and Oceans Canada (DFO) issued BW Gold a Fisheries Act Authorization (FAA) number 21-HPAC-01447. Condition 2.2.9 requires downstream flows in Davidson Creek to be always maintained during construction, with condition 2.2.9.1 establishing the Construction Instream Flow Needs (CIFN) for Davidson Creek during various periods throughout the year (DFO, 2023).

Condition 2.2.9: Downstream flows to Davidson Creek shall be maintained at all times during construction and commissioning of mine infrastructure, including diversion channels, reservoirs, and the freshwater supply system (FWSS), such that death of fish is avoided and impacts to fish habitat are limited to what is authorized:

2.2.9.1: Prior to the operation of the FWR when the natural discharge in Davidson Creek exceeds the Construction Instream Flow Needs (CIFN) threshold (below), water withdrawals from Davidson Creek may occur at a rate such that the actual instream flow in Davidson Creek immediately downstream of the Freshwater Reservoir (FWR) meet the CIFN thresholds:

- August 31 – May 14: **0.07m³/s**
- May 15 – June 30 (min.21 days): **0.56m³/s**
- May 15 – June 30 (remaining): **0.35m³/s**
- July 1 – July 15: **0.30m³/s**
- July 16 – August 31: **0.15m³/s**



2. Background Information

Fisheries Act Authorization 21-HPAC-01447 was issued to BW Gold based on the Blackwater Project’s application for authorization submitted to DFO under paragraph 35(2)(b) of the *Fisheries Act* (Palmer, 2023a). This application includes direct habitat losses as a result of the project and potential downstream impacts to Davidson Creek due to flow changes. Appendix D: Construction Phase Temporary Minimum Flow Threshold Memo of the FAA application describes in detail the rationale in determining the temporary minimum instream flow thresholds, to minimize the potential for harm to fish during flow reduction, for Davidson Creek (Palmer, 2023b). Review of Appendix D is recommended to get a better understanding of the FAA condition 2.2.9.1 flow requirements.

The Davidson Creek watershed supports both Rainbow Trout (*Oncorhynchus mykiss*) and Kokanee (*Oncorhynchus nerka*). Rainbow Trout utilize Davidson Creek year-round for spawning, rearing and overwintering while Kokanee only utilize the lower Davidson Creek for spawning activity (Figure 1) (Palmer, 2023b). Kokanee eggs incubate throughout the winter months, hatching in spring and out-migrating to Tatelkuz Lake (ERM, 2023).

In accordance with the reporting requirements set out in the FAA, BW Gold submits a monthly compliance monitoring report to DFO. The February and March 2025 report provided CIFN flow measurements associated with monitoring station DC-05 in table 2 on page 7 and page 6, respectively. (BWG, 2025a; BWG, 2025b).

Table 1: Discharge data at DC-05 as per table 2 of February 2025 FAA 21-HPAC-01447 Compliance Report (BWG, 2025a).

Date (February)	IFN (m ³ s)	Flow (m ³ /s)
Feb 1	0.07	Flow measurement attempted and could not be collected. Daily temps below operating temperature for SonTek FlowTracker 2.
Feb 2		Flow measurement attempted and could not be collected. Daily temps below operating temperature for SonTek FlowTracker 2.
Feb 3		Flow measurement attempted and could not be collected. Daily temps below operating temperature for SonTek FlowTracker 2.
Feb 4		Flow measurement attempted and could not be collected. Daily temps below operating temperature for SonTek FlowTracker 2.
Feb 5		Flow measurement attempted and could not be collected. Daily temps below operating temperature for SonTek FlowTracker 2.
Feb 6		0.02
Feb 7		0.02
Feb 9		0.02
Feb 14		Flow measurement attempted and could not be collected. Daily temps below operating temperature for SonTek FlowTracker 2.
Feb 22		0.07
Feb 25		0.08



Table 2: Discharge data at DC-05 as per table 2 of March 2025 FAA 21-HPAC-01447 Compliance Report (BWG, 2025b).

Date (March)	IFN (m ³ /s)	Flow (m ³ /s)
1	0.07	0.10
8		0.08
14		0.05
15		0.06
18		0.15
26		0.21
31		0.09

The data provided in table 1 & 2 shows flow measurements under the CIFN requirement of 0.07m³/s outlined in Condition 2.2.9.1. DFO has requested BW Gold to have a Qualified Professional (QP) review relevant information and provide a memorandum on potential fish and fish habitat impacts due to measured flows being below CIFN.

2.1 Memorandum Objective

The purpose of this memorandum is to provide a suggested risk of impacts to fish and fish habitat through a review of available information and outline any follow up actions required.

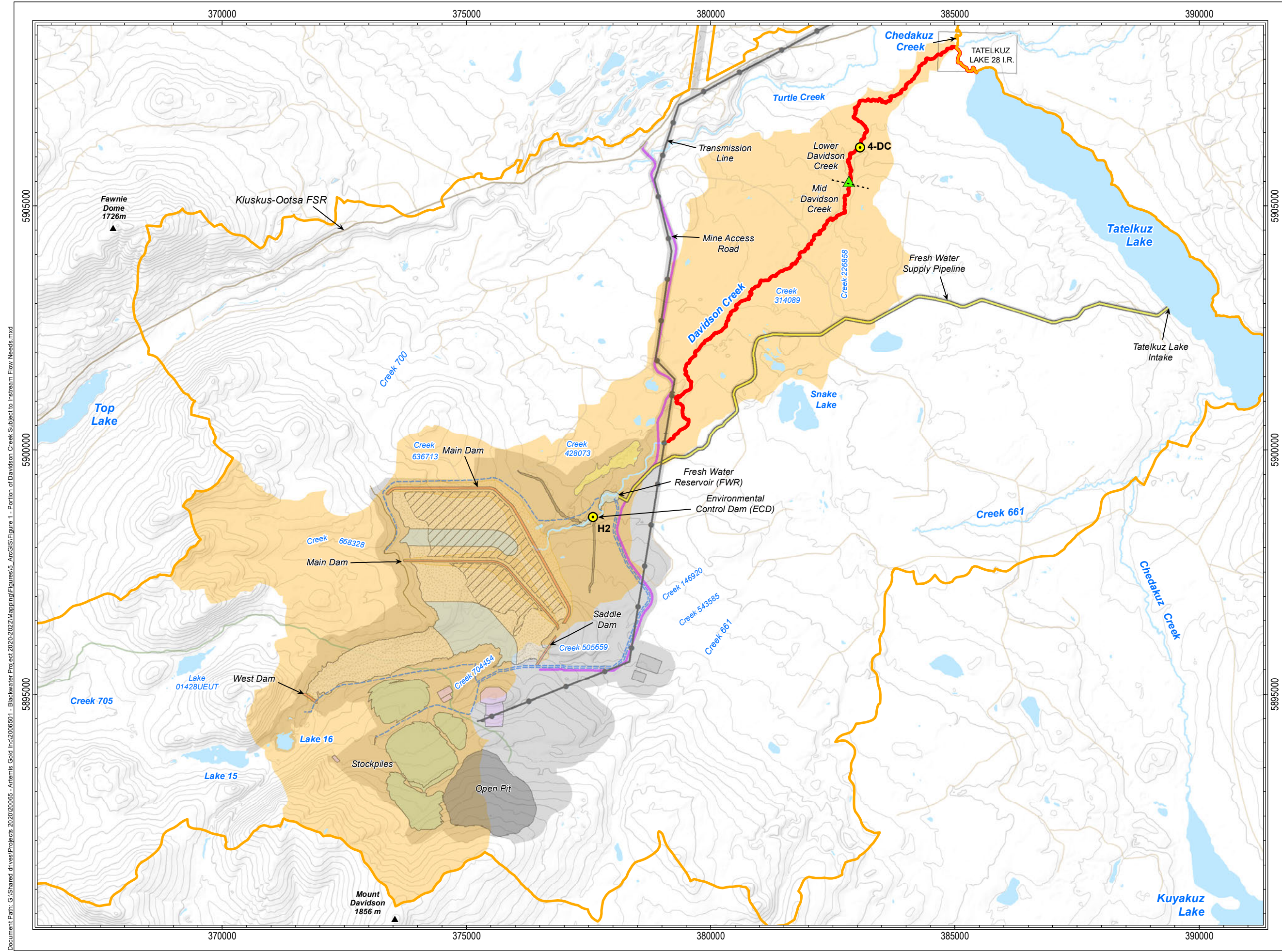
3. Risk to Fish and Fish Habitat

Utilizing the flow values presented in table 1 & 2 there is a period between February 6th – 9th, March 14th – 15th with recorded values shown to be below the CIFN threshold. With no field readings recorded between February 1st – 5th, February 10th – 21st, March 9th – 13th, and 16th – 17th, it is not possible to determine if flows on these days were below or above 0.07m³/s. The duration of days below the CIFN threshold is a minimum of 4 days in February and 2 days in March. Assuming the days with no field measurements were below CIFN, the maximum low flow days would be 21 in February and 9 in March.

The potential risk to fish associated with a period of reduced flow, below CIFN threshold, for February and March can be categorized as potentially either effecting Rainbow Trout overwintering or Kokanee egg incubation in lower Davidson Creek. This is supported by the life history information collected in Davidson Creek during the baseline surveys in 2011 and 2012 (Table 2, AMEC, 2015; Palmer, 2023b).

Table 2: Species and life stage utilization for Davidson Creek as reported by AMEC (2015).

Species	Life Stage	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rainbow Trout	Juvenile overwintering												
	Juvenile rearing and migration												
	Adult migration and spawning												
	Egg incubation												
Kokanee	Adult migration and spawning												
	Egg incubation												



Legend

- Watershed Model Node
- ▲ Upstream extent of kokanee in Davidson Creek
- ▲ Spot Height
- Elevation Contour (25 m interval)
- Indian Reserve
- Mine Footprint
- ▭ Local Study Area Boundary

Impacted Fish Habitat

- █ Downstream Flow

Watersheds

- ▭ Davidson Creek



Scale 1:75000
 UTM Zone 10N
 NAD 1983 Datum

Prepared For:

CLIENT: Artemis Gold Inc.
 PROJECT: Blackwater
 DRAWN: B. Elder
 CHECKED: S. Gronsdahl
 PROJECT: 2006501
 DATE: Feb 24, 2022

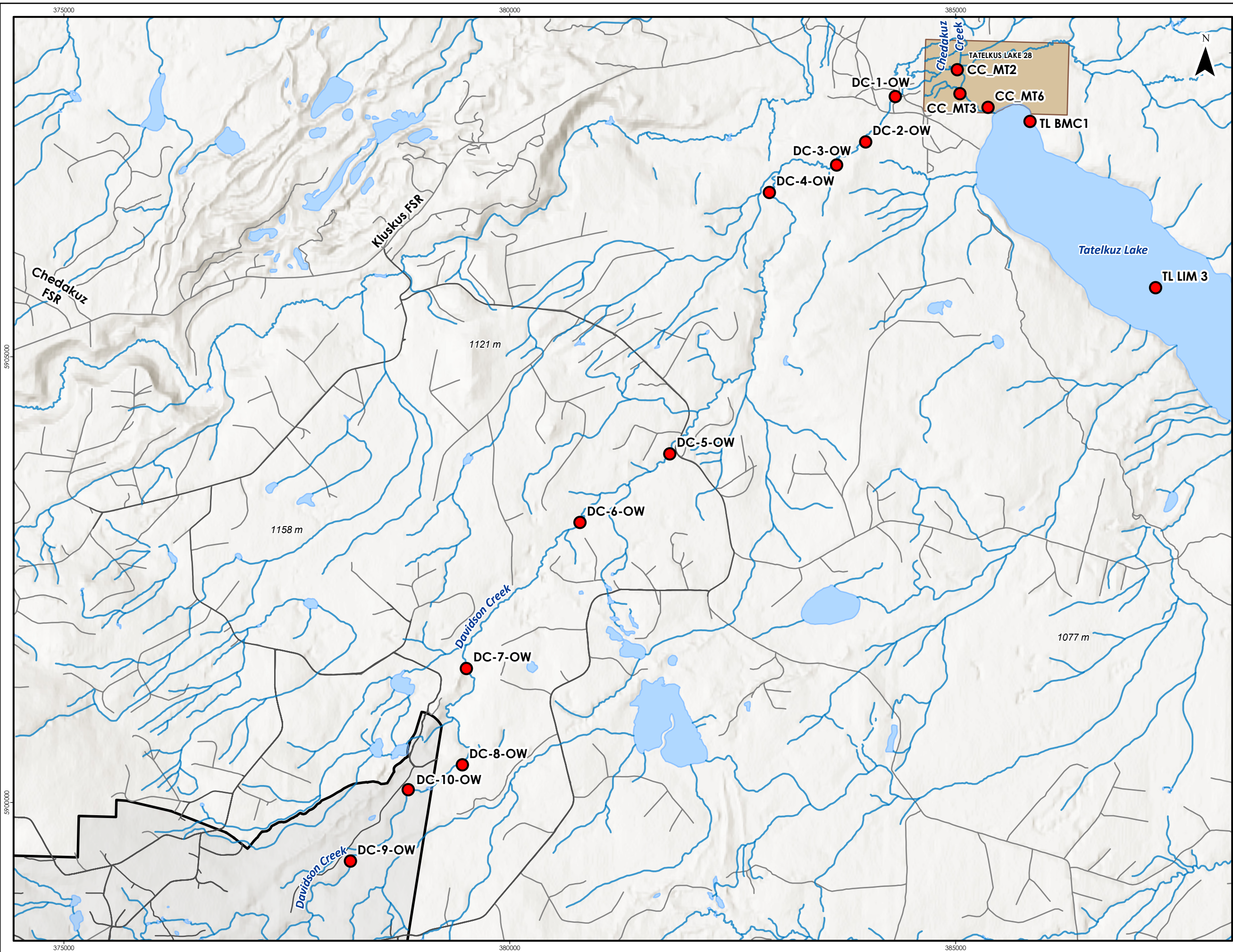
Prepared by:

Portion of Davidson Creek Subject to Instream Flow Needs

FIGURE 1

Document Path: G:\Shared drives\Projects\2020\2006501 - Blackwater Project\2020-2022\Mapping\Figures\5 - ArcGIS\Figure 1 - Portion of Davidson Creek Subject to Instream Flow Needs.mxd

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Blackwater Gold

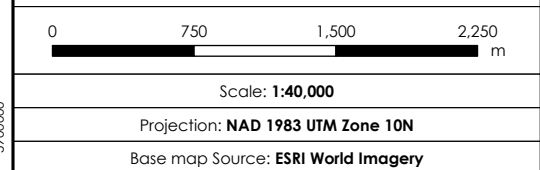
Figure 1.
Davidson Creek Assessment
Site Locations

Project No.	Date	Revision
12009	May 23, 2024	00
Prepared By	Reviewed By	Page Size
TK	SH	11 x 17



- Overwintering RB Abundance
- BWG Certified Project Footprint
- Transportation**
- Gravel Road
- Project Access
- Hydrology**
- ~ Streams
- Lake
- Indian Reserve

Figure 2



Disclaimer: This map is a visual aid to be used together with the accompanying report, including and incorporating any disclaimer contained therein. This map illustrates the results of Triton Environmental Consultants Ltd. work, and is not to be used for navigation. Information shown on this map is based, in whole or in part, on geographic information that may have been provided by third parties, including government data. Triton Environmental Consultants Ltd. disclaims (without limiting the generality of the foregoing) all responsibility for the accuracy of any such third party information, regardless of the source.



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3.1 Rainbow Trout Overwintering

The flows within Davidson Creek did not cease but were reduced, to approximately 0.02m³/s in February and 0.05m³/s in March, from the CIFN threshold of 0.07m³/s at the monitoring location DC-05. This reduction in flow would likely cause water elevations in Davidson Creek to also reduce, although not measured at the time of the event.

During the winter months Rainbow Trout, primarily overwinter in the deeper pools of Davidson Creek and are less likely to be found in the margins. This behaviour would reduce the likelihood of individuals being stranded due to a reduction in water elevation. BW Gold completed fish stranding and stream dewatering bank walks daily at DC-05 for at least 100m, with no observations of dewatering or fish stranding (BWG, 2025a; BWG, 2025b). At DC-05 flows continued through the period of reduced flow, mitigating any potential for Davidson Creek to freeze to the bottom.

Triton Environmental Consultants Ltd. (Triton), on behalf of BW Gold, were completing Rainbow Trout overwintering field assessments in Davidson Creek between March 4th and 11th in association with the long-term monitoring requirements set out in the Federal Decision Statement Condition 3.14. Established monitoring points DC-5-OW, DC-2-OW, and DC-3-OW (Figure 2) were visited March 9th, March 10th, and March 11th respectively (Triton, 2025). As part of the monitoring requirements, underwater cameras are set for up to 60 minutes, water quality and general observations are recorded. Triton noted live juvenile Rainbow Trout were observed at every site, no observations of fish mortality were recorded, and water quality was not a concern (Table 3) (Triton, 2025).

Table 3: Water quality for monitoring sites as reported by Triton (2025).

Site	Date	Pool Location	Depth (m)	Temperature (°C)	DO (%)	DO (mg/L)	Conductivity (µS)	Specific Conductivity (µS)	pH	Turbidity
DC-2-OW	2025-03-10	Head	0.08	0	94.8	13.84	59.7	114.2	7.56	3.64
DC-2-OW	2025-03-10	Middle	0.52	0	90.1	13.15	59.7	114	7.57	4.03
DC-2-OW	2025-03-10	Tailout	0.27	0	94.6	13.82	59.7	114.1	7.55	3.59
DC-3-OW	2025-03-11	Head	0.21	0	91.6	13.38	64.2	122.9	7.54	5.26
DC-3-OW	2025-03-11	Middle	0.35	0	86.7	12.64	64.8	124	7.9	5.45
DC-3-OW	2025-03-11	Tailout	0.19	0	94.3	13.78	64.9	124.1	7.47	5.54
DC-5-OW	2025-03-09	Head	0.09	0.1	94.2	13.73	57.8	110.1	7.84	7.5
DC-5-OW	2025-03-09	Middle	0.3	0.3	93	13.48	57.9	109.6	7.84	3.48
DC-5-OW	2025-03-09	Tailout	0.11	0.3	93.1	13.5	57.8	109.6	7.82	2.85

The dissolved oxygen (DO, mg/L) recorded by Triton (table 3) are similar to the 12.9 mg/L value provided by BW Gold in the March 2025 FAA compliance monitoring report (BWG, 2025b).

A reduction in flow below 0.07m³/s at DC-05 is not outside the parameters of the natural flow drop in Davidson Creek for the month of March with flows only having exceeded the CIFN threshold 35% of the time within the data set between 1981-2020 (Figure 3, Palmer, 2023b). Appendix D: Construction Phase Temporary Minimum Flow Threshold Memo of the FAA application states, “*The proposed temporary threshold is significantly more conservative during winter than it is during summer.*” (page 10, Palmer, 2023b). The CIFN being conservative provides a buffer if flows are reduced to be closer to the mean discharge of approximately 0.06m³/s.

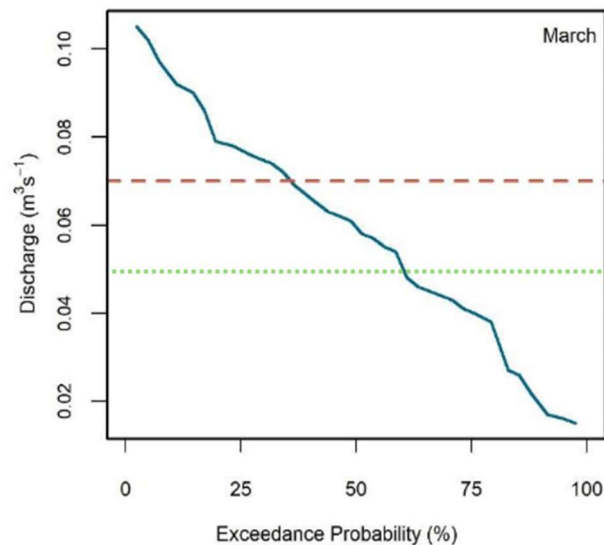


Figure 3: March flow-duration curve (solid blue line) for Davidson Creek, using modelled monthly data (1981-2020). The dashed red line represents CFIN and dotted green line representing lowest flow recorded on March 14th, 2025 (Palmer, 2023b).

Although a similar figure, was not available for February it is likely the historical February flows would be similar to what is has been seen in March. A discharge rate of 0.02m³/s in Davidson Creek has been shown to naturally occur, occasionally.

Flow below the CFIN threshold may reduce the wetted channel width and overwintering pool depth but the risk of causing a significant effect on overwintering Rainbow Trout in Davidson Creek is low as flows downstream were maintained.

3.2 Kokanee Egg Incubation

Kokanee spawning habitat and the location of potential redds is restricted to the lower Davidson Creek area (Figure 1). Lower Davidson Creek will see less influence from reductions in flow at DC-05 due to receiving other water inputs such as, additional groundwater, tributary inputs and runoff. As previously discussed, and seen in figure 3, the reduction of flow down to 0.02 - 0.05m³/s is within the historical range of discharge in upper Davidson Creek.

BW Gold monitors the Kokanee fry spring outmigration through the Aquatic Effects Monitoring Program (AEMP) with one measurement being the calculated total fry abundance for the outmigration period (ERM, 2023). Triton is completing this component of the AEMP in spring 2025 and at the time of writing this memo the results are not available for review.

The risk of causing a significant effect on Kokanee egg incubation in lower Davidson Creek is low, however; it is recommended that the results of the AEMP total fry abundance survey be reviewed to determine if outmigration numbers were within confidence intervals of previous years including the baseline data.



3.3 Fish Habitat

Fish habitat downstream of DC-05 remained in place throughout the reduction in flow in February & March 2025. The temporary reduction in flow down to 0.02 - 0.05m³/s would likely cause a decrease in wetted channel width depending on channel morphology and amount of additional water inputs as you progress downstream.

Any reduction in usable habitat by overwintering Rainbow Trout would be temporary and fall within natural flow fluctuations during the winter months. The risk of a significant effect on fish habitat in Davidson Creek is low.

4. Recommendations

Summary of follow up recommendations:

- 1) Continue to monitor CFIN discharge and Davidson Creek per BW Gold FAA application Appendix D section 6: Proposed Monitoring Strategy (Palmer, 2023b).
- 2) Review the 2025 Kokanee fry total abundance results, compiled by Triton under the AEMP, to see if estimates are within expected confidence range.

5. Conclusion

This memo provides background information on the CFIN, monitoring information collected during the period of reduced flows below the CFIN threshold, follow up recommendations and potential risk to fish and fish habitat.

Table 4: Summary of potential risk of significant effect to fish and fish habitat.

Environmental Aspect	Potential Risk of Significant Effect
Rainbow Trout Overwintering	Low
Kokanee Egg Incubation	Low (with follow up data review)
Fish Habitat	Low

6. Statement of Limitations


This memorandum was prepared for BW Gold Ltd. in connection with the Blackwater Gold Mine Project. The material in this memo reflects Whisky Jack Consulting Ltd. best judgment in light of the information available to us at the time of preparing this memo. Conclusions and recommendations in



this report are based on an analysis of the best available information and professional judgement that is subject to a degree of scientific uncertainty and therefore cannot be used as absolute fact. Whisky Jack Consulting has made the findings and conclusions set out in this report in a manner consistent with the level of care and skill normally exercised by members of the environmental science profession practicing under similar conditions at the time the work was performed.

The report author believes this report to be accurate. However, he cannot guarantee the completeness or accuracy of information supplied to him. Any use which a third party, other than the parties mentioned above, makes of this report, or any reliance on, or decisions to be made based on it, are the responsibility of such third parties. The author accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions taken.

Prepared By:

Name	Signature	Title	Phone	Date
Robert St. Jean, P.Bio		Senior Biologist, Whisky Jack Consulting Ltd.	587.777.5667	May 29, 2025



7. References

- AMEC. 2015. Blackwater Gold Project – Instream Flow Study. Appendix 5.1.2.6D. Prepared for New Gold Inc.
- BWG. 2025a. *Fisheries Act* Authorization 21-HPAC-01447 - Monitoring Report – February 2025. Prepared by BW Gold Ltd. February, 2025.
- BWG. 2025b. *Fisheries Act* Authorization 21-HPAC-01447 - Monitoring Report – March 2025. Prepared by BW Gold Ltd. March, 2025.
- DFO. 2023. Paragraphs 34.4(2)(b) and 35 (2)(b) *Fisheries Act* Authorization, Path No.: 21-HPAC-01447. Prepared by Fisheries and Oceans Canada., Vancouver, BC. June 30, 2023.
- ERM. 2023. Blackwater Gold Project: Aquatic Effects Monitoring Program Plan, Version 1.0. Prepared for BW Gold Ltd. by ERM Consultants Canada Ltd., Vancouver BC. July, 2023.
- Palmer. 2023a. Blackwater Gold Project Application for Authorization under Paragraph 35(2)(b) of the *Fisheries Act* (Non-Emergency Situations). Prepared by Palmer Environmental Consulting Group Inc., Vancouver, BC. March 7, 2023.
- Palmer. 2023b. Appendix D: Blackwater Fisheries Offsetting Plan, Construction Phase: Temporary Minimum Flow Threshold in Davidson Creek. Memorandum prepared for Blackwater Gold Ltd. by Palmer Environmental Consulting Group Inc., Vancouver, BC. February 23, 2023.
- Triton. 2025. *Email*: RE: Winter Overwintering Assessment. Prepared by Triton Environmental Consultants Ltd. Prince George, BC. May 16, 2025.

Initial Spill Report				
Name & Company:	Samantha Lynch, BWG			
Date & Time Observed:	April 6, 2025 12:00 pm			
Fluid Spilled:	Waste Oil	Fluid Quantity (L)	170 L	
Location & Description of Spill Area	Plant Site Fuel Station (53.181574, -124.852837)			
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Equipment/Source of Spill:	Waste oil drum			
Circumstances/Cause of Spill:	Waste oil drum tipped over as a result of melting snow and ice it was sitting on.			
Spill Response Actions Taken:	Spill cleanup was initiated immediately - ERT was dispatched to the scene with the spill response trailer, the area was closed to traffic, and 15-20 personnel contributed to the cleanup. The source of the spill was ceased. Run off water was prevented from entering the contaminated area. Spill booms were placed in the ditch line to contain the spill and prevent hydrocarbons from leaving site. Spill pads were placed on the ground where waste oil and sheen were visible. A hydrovac was utilized to remove contaminated water and snow from the ditch line. A backhoe was used to remove contaminated soil from the road.			
Contaminated Material Disposal Methods:	Spill pads and booms were disposed of in hydrocarbon impacted waste bins. Contaminated soil was disposed of in contaminated soil bins. Contaminated water was removed via hydrovac. Final destination of all impacted material is at a licensed off site facility.			
Reportable Spills				
Responsible Persons:	Mark Warbanski			
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	251381
Date & Time Reported:	April 6, 2025 18:00			
Government Agencies Notified:	BC Spill Hotline			
Government or First Nation Agencies At Spill Site:	None			

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:

Company name:

Email:

Address:

Telephone number:

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:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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.

Latitude:	Degrees	Minutes	Seconds
Longitude:	Degrees	Minutes	Seconds
or			
Site civic address or location:	Street		Postal Code
	City		
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.):

Type of substance spilled (common name):

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:

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.):

Provide a description of the incident leading to the spill (tank rupture, overfill, collision, rollover, derailment, fire, explosion, etc.):

Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.):

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):

Number of people evacuated:

Number of fatalities:

Number of people injured:

Describe any adverse impacts on infrastructure² (please state 'N/A' if there were no adverse impacts to infrastructure):

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:	
Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):	
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 <i>Environmental Management Act 2003</i>	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)

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

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 <input type="checkbox"/>
Map of the incident site and areas surrounding the incident site (required)	Copy attached <input type="checkbox"/>
Photographs of the spill (required)	Copy attached <input type="checkbox"/>

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:

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

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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

Spill Attachments

Spill Photos & Area Photos

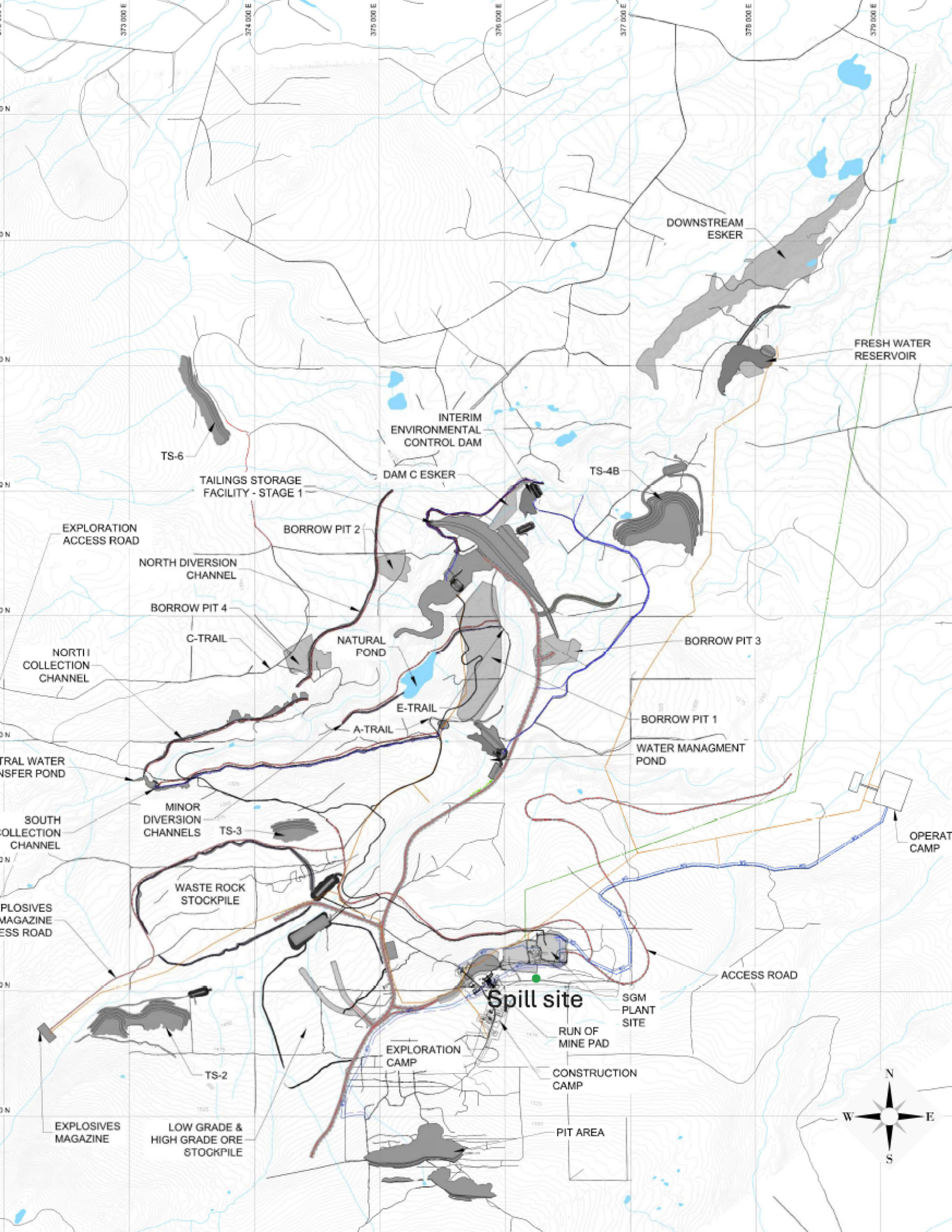












TS-6

TAILINGS STORAGE FACILITY - STAGE 1

INTERIM ENVIRONMENTAL CONTROL DAM

DAM C ESKER

TS-4B

DOWNSTREAM ESKER

FRESH WATER RESERVOIR

EXPLORATION ACCESS ROAD

BORROW PIT 2

NORTH DIVERSION CHANNEL

BORROW PIT 4

C-TRAIL

NATURAL POND

E-TRAIL

A-TRAIL

BORROW PIT 3

BORROW PIT 1
WATER MANAGEMENT POND

CENTRAL WATER TRANSFER POND

SOUTH COLLECTION CHANNEL

MINOR DIVERSION CHANNELS
TS-3

WASTE ROCK STOCKPILE

OPERAT CAMP

EXPLOSIVES MAGAZINE
ACCESS ROAD

ACCESS ROAD

Spill site

SGM PLANT SITE

RUN OF MINE PAD

EXPLORATION CAMP

CONSTRUCTION CAMP

PIT AREA

EXPLOSIVES MAGAZINE

LOW GRADE & HIGH GRADE ORE STOCKPILE

TS-2



Initial Spill Report				
Name & Company:	Lukas Traude – Blackwater Gold			
Date & Time Observed:	May 14, 2025 19:20			
Fluid Spilled:	Engine Coolant	Fluid Quantity (L)	370 L	
Location & Description of Spill Area	BWG Open Pit 1590 Pit Lat: 53.169376 Long: -124.860044			
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Equipment/Source of Spill:	Shovel 3601			
Circumstances/Cause of Spill:	Hose clamp wear/failure on main suction line for left engine coolant system.			
Spill Response Actions Taken:	Engine shut off when alarm indicated. Mechanics were called, hose repaired, and coolant measured during top up for fluid quantity. All contaminated material was excavated to dry ground below.			
Contaminated Material Disposal Methods:	Material was moved to the contaminated soil transfer area for processing and disposal.			
Reportable Spills				
Responsible Persons:	Mark Warbanski			
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	251900
Date & Time Reported:	2025-05-15 07:45			
Government Agencies Notified:	BC Spill Hotline			
Government or First Nation Agencies At Spill Site:	None			

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Name of company representative:

Company name:

Email:

Address:

Telephone number:

Details for responsible person Same as above	Name of company representative:
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	Email:
	Address:
	Telephone number:
Details for owner of the substance spilled Same as above	Name of company representative:
	Company name:
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	Address:
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Section 6 (2) (b) of the Spill Reporting Regulation

Date of spill:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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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.

Latitude:	Degrees	Minutes	Seconds
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or			
Site civic address or location:	Street		Postal Code
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or			
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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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

DGIR 251900 Attachments



Photo One: Coolant Spill



Photo Two: Spill Clean Up



Photo Three: Spill Clean Up Closeup

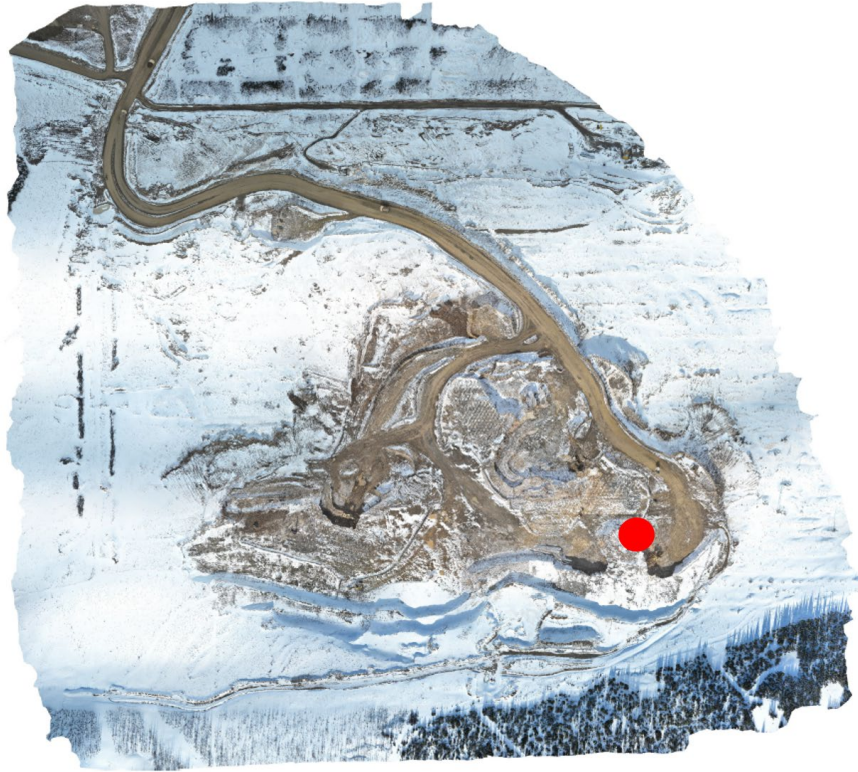


Photo Four: Drone Photo of Spill Location in BWG Open Pit

Initial Spill Report					
Name & Company:	Dan O'Neil - BWG				
Date & Time Observed:	May 17, 2025 – 4:00 PM				
Fluid Spilled:	Coolant/Antifreeze	Fluid Quantity (L)	132		
Location & Description of Spill Area	MSA/Mobile Maintenance Pad				
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Equipment/Source of Spill:	Haul Truck 1504				
Circumstances/Cause of Spill:	Coolant hose failure, line from engine to cab.				
Spill Response Actions Taken:	Spill response was initiated immediately. Spill was contained with spill cleanup booms, 2.5 gallon buckets to catch spill and spill pads used to clean up material.				
Contaminated Material Disposal Methods:	Spill pads and booms were disposed of in hydrocarbon impacted waste GFL bins. Contaminated material was disposed of in contaminated soil/snow bins.				
Reportable Spills					
Responsible Persons:	Mark Warbanski				
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	251947	
Date & Time Reported:	May 18, 2025 - 8:24 AM				
Government Agencies Notified:	BC Spill Hotline				
Government or First Nation Agencies At Spill Site:	None				

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:

Company name:

Email:

Address:

Telephone number:

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:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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.

Latitude:	Degrees	Minutes	Seconds
Longitude:	Degrees	Minutes	Seconds
or			
Site civic address or location:	Street		Postal Code
	City		
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.):

Type of substance spilled (common name):

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:

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.):

Provide a description of the incident leading to the spill (tank rupture, overflow, collision, rollover, derailment, fire, explosion, etc.):

Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.):

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):

Number of people evacuated:

Number of fatalities:

Number of people injured:

Describe any adverse impacts on infrastructure² (please state 'N/A' if there were no adverse impacts to infrastructure):

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:	
Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):	
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 <i>Environmental Management Act 2003</i>	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)

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

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 <input type="checkbox"/>
Map of the incident site and areas surrounding the incident site (required)	Copy attached <input type="checkbox"/>
Photographs of the spill (required)	Copy attached <input type="checkbox"/>

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:

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

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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

Initial Spill Report				
Name & Company:	Steven Hayward, BWG			
Date & Time Observed:	May 28			
Fluid Spilled:	Sewage/Waste Water	Fluid Quantity (L)	250	
Location & Description of Spill Area	Construction Camp Dorm 1			
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Equipment/Source of Spill:	Waste Water Pipe under Construction Camp			
Circumstances/Cause of Spill:	Cracked pipe resulted in slow leak			
Spill Response Actions Taken:	Vacuum trucks were mobilized and put through confined space training. Spilt liquid was drained using Hydro-Vac truck and material removed. Hydrated lime was used to disinfect area and fans used to dry area.			
Contaminated Material Disposal Methods:	Waste water was disposed of off-site by 3 rd party vendor with trucks designed for waste water.			
Reportable Spills				
Responsible Persons:	Alan Matthews			
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	252415
Date & Time Reported:	June 18, 19:00			
Government Agencies Notified:	Ministry of Environment			
Government or First Nation Agencies At Spill Site:	Environmental Assessment Agency			

Initial Spill Report					
Name & Company:	Ken Barnes- Orica Canada Inc				
Date & Time Observed:	June 14, Approx 18:00				
Fluid Spilled:	Dry Ammonium Nitrate	Fluid Quantity (L)	500Kg		
Location & Description of Spill Area	Silo pad and ground beside 10U 372362.00m 5893709.00m				
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Equipment/Source of Spill:	60 Tonne and Silo				
Circumstances/Cause of Spill:	Slide gate operating chain derailed				
Spill Response Actions Taken:	Source of the spill was stopped. Material had a tarp placed over top and weighted down to protect from precipitation. Prills and contaminated material on ground were cleaned up immediately and bagged.				
Contaminated Material Disposal Methods:	Contaminated material was bagged and will be used in future blasts by being placed in bore holes on pattern.				
Reportable Spills					
Responsible Persons:	Ken Barnes				
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	252356	
Date & Time Reported:	15:11, 15-June-2025				
Government Agencies Notified:	Ministry of Environment				
Government or First Nation Agencies At Spill Site:	N/A				

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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:

Company name:

Email:

Address:

Telephone number:

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:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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.

Latitude:	Degrees	Minutes	Seconds
Longitude:	Degrees	Minutes	Seconds
or			
Site civic address or location:	Street		Postal Code
	City		
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.):

Type of substance spilled (common name):

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:

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.):

Provide a description of the incident leading to the spill (tank rupture, overflow, collision, rollover, derailment, fire, explosion, etc.):

Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.):

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):

Number of people evacuated:

Number of fatalities:

Number of people injured:

Describe any adverse impacts on infrastructure² (please state 'N/A' if there were no adverse impacts to infrastructure):

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:	
Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):	
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.):
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Action taken to comply with section 91.2 of the <i>Environmental Management Act 2003</i>	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)

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

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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 <input type="checkbox"/>
Map of the incident site and areas surrounding the incident site (required)	Copy attached <input type="checkbox"/>
Photographs of the spill (required)	Copy attached <input type="checkbox"/>

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:

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

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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

DGIR 252356 Attachments



Photo 1: Spill Photo



Photos 2 & 3: Spill Cleanup In Progress



Photo 4: Spill Cleanup



Photo 5: Gate Malfunction



Photo 6: Drone Photo of Spill Location at BWG Orica Laydown



BW Gold Ltd.
Suite 2600 Three Bentall Centre
595 Burrard Street
PO BOX 49314
Vancouver, BC, V7X 1L3

Dear sir or madam:

As per Blackwater Gold's Accidents and Malfunctions Management Plan, the information below acts as the 30-day follow up report to the "Initial Incident Report – June 24, 2025" submitted on June 25, 2025.

On June 24, 2025, at approximately 12:20 pm, a slope failure was identified that resulted in the deposition of natural materials (soil, vegetation, etc.) into Davidson Creek. The affected location (10U 377761, 5899065) is sited within the Freshwater Reservoir footprint and spanned a small section of Davidson Creek. The impacted area is covered under Fisheries Act Authorization 21-HPAC-01447.

While logging in the footprint of the Freshwater Reservoir (FWR), a saturated slope was identified requiring special procedures. The area was hand felled to avoid mechanical equipment in the area. However, during timber recovery, the slope failed, and material entered Davidson Creek below. Approximately 322 m³ of material was estimated to have sloughed.

Flows in Davidson Creek were briefly impacted by material entering the creek. However, flows returned to previous levels shortly after the incident occurred as the creek naturally travelled around the area where material entered the creek walks were completed once environment personnel arrived at the scene and did not identify any stranding or mortalities.

Post incident sampling confirmed minimal impacts to Total Suspended Solids (TSS) differences from upstream to downstream water quality results (tables 1 and 2, respectively), with the exception of immediately post-incident (33 mg/L). Subsequent TSS sampling continued for 5 days post-incident, with similar results (table 4) confirming low impact.

Acute toxicity sampling downstream of the slope failure for both *Daphnia magna* and *Oncorhynchus mykiss* confirmed 100% survival rate and, therefore, no acutely toxic effects as a result of the incident (table 5).

After the incident occurred, the assessment concluded the area was stable and the results of the post-incident sampling confirmed that no significant impacts were observed as a result. Therefore, the area was left in situ and monitored to minimize further impacts to the creek. Fish salvage activities related to the upcoming FWR construction works ensured the affected area was removed of fish on July 20th. Remaining material to be removed will be completed through the construction of the FWR which has commenced.

Post Event Sampling

- Bank Walks (800 m)
 - No stranding or mortalities identified

- Upstream SWQ Sample (Table 1)

Client Sample ID		LS-US
Date Sampled		24-Jun-2025
Time Sampled		14:09
ALS Sample ID		VA25B5533-002
Analyte	Units	Sub-Matrix: Surface Water
Physical Tests (Matrix: Water)		
Conductivity	µS/cm	51.8
Acidity (as CaCO ₃)	mg/L	2.1
Alkalinity, total (as CaCO ₃)	mg/L	26.7
Hardness (as CaCO ₃), dissolved	mg/L	21.6
Hardness (as CaCO ₃), from total Ca/Mg	mg/L	23.6
Solids, total dissolved [TDS]	mg/L	82
Solids, total suspended [TSS]	mg/L	14.8
pH	pH units	7.35

- Downstream SWQ Sample (Table 2)

Client Sample ID		LS-DS
Date Sampled		24-Jun-2025
Time Sampled		14:22
ALS Sample ID		VA25B5533-003
Analyte	Units	Sub-Matrix: Surface Water
Physical Tests (Matrix: Water)		
Conductivity	µS/cm	50.3
Acidity (as CaCO ₃)	mg/L	2.4
Alkalinity, total (as CaCO ₃)	mg/L	23.5
Hardness (as CaCO ₃), dissolved	mg/L	21.3
Hardness (as CaCO ₃), from total Ca/Mg	mg/L	23.6
Solids, total dissolved [TDS]	mg/L	83
Solids, total suspended [TSS]	mg/L	33.0
pH	pH units	7.24

- SWQ Sample at DC-05 (approximately 800 m downstream) (Table 3)

Client Sample ID		DC-05
Date Sampled		24-Jun-2025
Time Sampled		14:39
ALS Sample ID		VA25B5751-001
Analyte	Units	Sub-Matrix: Surface Water
Physical Tests (Matrix: Water)		
Conductivity	µS/cm	53.4
Acidity (as CaCO3)	mg/L	2.4
Alkalinity, total (as CaCO3)	mg/L	22.6
Hardness (as CaCO3), dissolved	mg/L	21.3
Hardness (as CaCO3), from total Ca/Mg	mg/L	24.2
Solids, total dissolved [TDS]	mg/L	64
Solids, total suspended [TSS]	mg/L	21.9
pH	pH units	7.42

- Follow Up TSS Monitoring (Table 4)

Location	DC-05	LS-DS	LS-US	DC-05	LS-DS	LS-US	DC-05	LS-DS	LS-US	DC-05	DC-05	
SAMPLE_DATE	6/25/2025	6/25/2025	6/25/2025	6/26/2025	6/26/2025	6/26/2025	6/27/2025	6/27/2025	6/27/2025	6/28/2025	6/29/2025	
SAMPLETIME	15:42	15:06	15:00	11:20	11:00	11:05	8:14	9:14	9:18	8:30	15:49	
TSS	mg/L	11	7.4	12.2	11.3	14.1	9.9	13.9	14.1	17.7	16.6	7.9

- Acute Toxicity (Table 5)

Location	LS-DS
SAMPLE_DATE	6/26/2025
SAMPLETIME	11:00
Daphnia Magna	% 100
Rainbow Trout	% 100



Blackwater
Mine

30 Day Follow up Report

Please do not hesitate to contact the undersigned if there are any further questions.

Kind regards,

Mark Warbanski

Mark Warbanski
Environment Manager
Blackwater Gold Mine

Photo 1. Location of event (indicated in red)

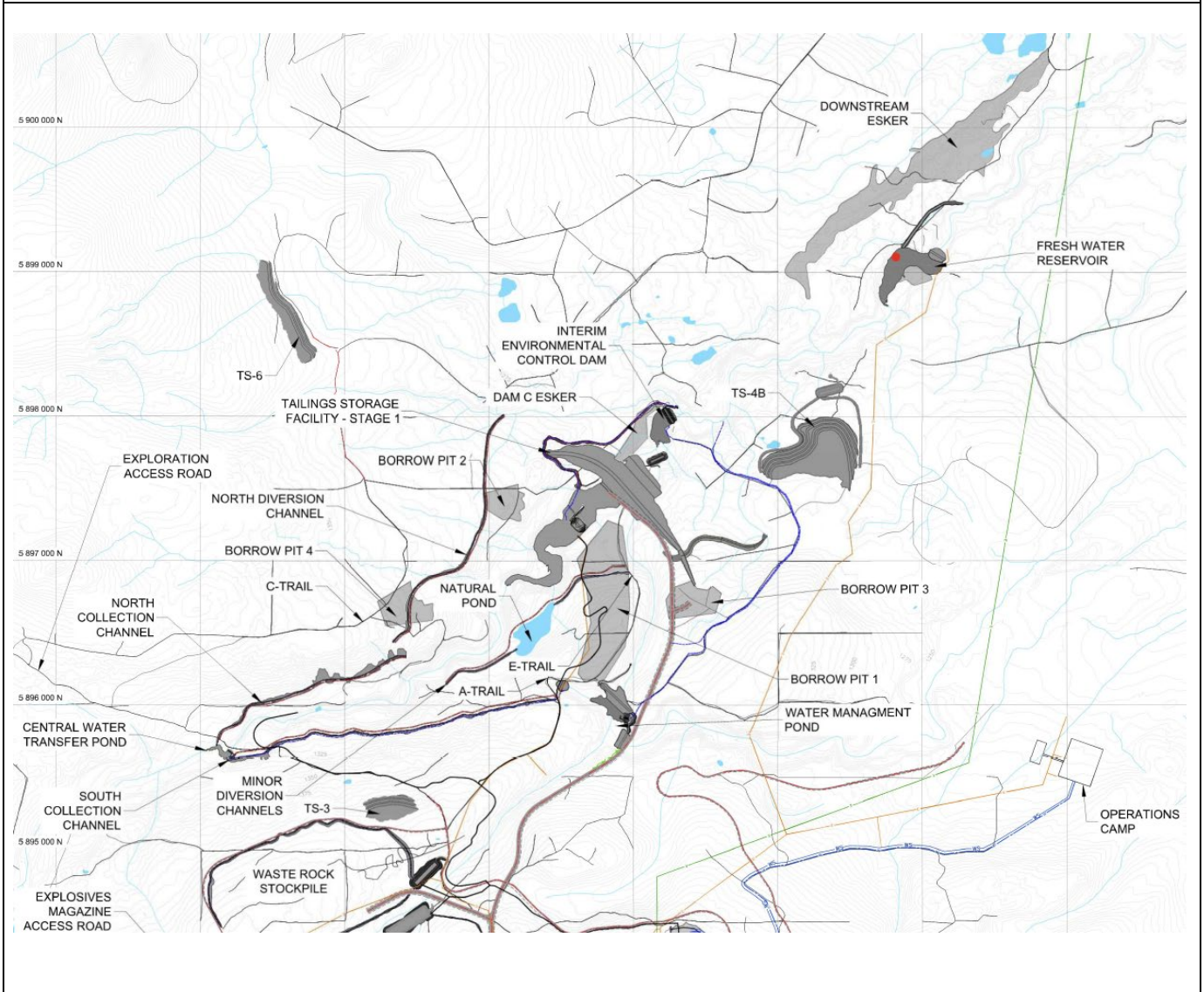


Photo 2. Aerial overview of slope failure impacting Davidson Creek post-incident.



Photo 3. Ground photo depicting water circumventing the failure location and returning to Davidson Creek downstream.



Photo 4. Downstream ground photo of Davidson Creek confirming wetted stream width maintained post-incident.



Photo 5. Downstream ground photo of Davidson Creek confirming wetted stream width maintained post-incident.





BW Gold Ltd.
Suite 2600 Three Bentall Centre
595 Burrard Street
PO BOX 49314
Vancouver, BC, V7X 1L3

Dear sir or madam:

As per BW Gold's Accidents and Malfunctions Management Plan and Fisheries Act Authorization, please see information below regarding an incident that occurred on the Blackwater Mine.

On June 24, 2025, at approximately 12:20 pm, a slope failure was identified that resulted in the deposition of natural materials (soil, vegetation, etc.) into Davidson Creek. The affected location (10U 377761, 5899065) is sited within the Freshwater Reservoir footprint and spanned a small section of Davidson Creek.

Minimal impact to flow and turbidity in Davidson Creek downstream were identified as a result of the event, with the Creek returning to previous conditions shortly after the occurrence was identified. The location of the incident is within the ultimate footprint of the Freshwater Reservoir in an area that is subject to the Fisheries Act Authorization.

The area will be visually monitored and corrective actions taken if required and only when it is safe to do so. Monitoring will also continue under BW Gold's surface water quality sampling program. Resources at the mine are available to support monitoring and corrective actions as needed. Post-event sampling and monitoring measures that occurred are listed below:

- Bank Walks (800 m)
- Upstream SWQ Sample
- Downstream SWQ Sample
- SWQ Sample at DC-05 (approximately 800 m downstream)
- Gauges placed in downstream (to identify sediment deposition)

Further information will be provided in a 30-day follow up report sent on or before July 25, 2025.

Please do not hesitate to contact the undersigned if there are any further questions.

Kind regards,

A handwritten signature in black ink that reads 'Mark Warbanski'.

Mark Warbanski
Environment Manager
Blackwater Gold Mine

Initial Spill Report					
Name & Company:	Steven Hayward – Artemis Gold Inc.				
Date & Time Observed:	July 3, 2025 13:30				
Fluid Spilled:	Processing Plant Slurry	Fluid Quantity (L)	Approx. 50,000		
Location & Description of Spill Area	BWG Processing Plant CIL Tank Farm and Containment Bund				
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Equipment/Source of Spill:	Hose failure on portable diesel pump				
Circumstances/Cause of Spill:	Diesel pump was transferring slurry from one tank to another when the outflow hose line failed resulting in spilled material reporting to the ground.				
Spill Response Actions Taken:	Pump was immediately shut down, supervisor and environment department were notified. Released material was contained with a dirt bund and clean up was coordinated with a hydro-vac truck. Contaminated material clean up and disposal is currently ongoing.				
Contaminated Material Disposal Methods:	Hydro-vac truck material was disposed on in the BWG Tailings Storage Facility.				
Reportable Spills					
Responsible Persons:	Stephen Morris – Artemis Gold Inc.				
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	252629	
Date & Time Reported:	July 3, 2025 17:45				
Government Agencies Notified:	Ministry of Environment				
Government or First Nation Agencies At Spill Site:	N/A				

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:

Company name:

Email:

Address:

Telephone number:

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:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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.

Latitude:	Degrees	Minutes	Seconds
Longitude:	Degrees	Minutes	Seconds
or			
Site civic address or location:	Street		Postal Code
	City		
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.):

Type of substance spilled (common name):

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:

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.):

Provide a description of the incident leading to the spill (tank rupture, overflow, collision, rollover, derailment, fire, explosion, etc.):

Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.):

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):

Number of people evacuated:

Number of fatalities:

Number of people injured:

Describe any adverse impacts on infrastructure² (please state 'N/A' if there were no adverse impacts to infrastructure):

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:	
Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):	
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 <i>Environmental Management Act 2003</i>	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)

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

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 <input type="checkbox"/>
Map of the incident site and areas surrounding the incident site (required)	Copy attached <input type="checkbox"/>
Photographs of the spill (required)	Copy attached <input type="checkbox"/>

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:

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

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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

Initial Spill Report				
Name & Company:	Adam Scott, BWG			
Date & Time Observed:	8-July-2025, 19:30			
Fluid Spilled:	Diesel	Fluid Quantity (L)	350	
Location & Description of Spill Area	WMP Booster 1			
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Equipment/Source of Spill:	Fuel hose failure			
Circumstances/Cause of Spill:	Operator of 1 Ton fuel truck was filling booster pump 1. After refueling, the truck was moved with nozzle still in place at booster pump 1. Fuel hose detached and spill to ground occurred			
Spill Response Actions Taken:	Shut off pump, placed spill tray where leak was from container of truck, placed spill pads in positions that would prevent spreading further. Excavator cleaned up contaminated material.			
Contaminated Material Disposal Methods:	Contaminated soil excavated and placed onto tarp until contaminated bins arrived. Contaminated material to be placed into bins and shipped off site for 3 rd party disposal			
Reportable Spills				
Responsible Persons:	Alan Rath			
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	252683
Date & Time Reported:	9-July-2025, 08:30			
Government Agencies Notified:	Ministry of Environment			
Government or First Nation Agencies At Spill Site:	N/A			

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.

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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:

Company name:

Email:

Address:

Telephone number:

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:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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.

Latitude:	Degrees	Minutes	Seconds
Longitude:	Degrees	Minutes	Seconds
or			
Site civic address or location:	Street		Postal Code
	City		
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.):

Type of substance spilled (common name):

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:

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.):

Provide a description of the incident leading to the spill (tank rupture, overfill, collision, rollover, derailment, fire, explosion, etc.):

Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.):

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):

Number of people evacuated:

Number of fatalities:

Number of people injured:

Describe any adverse impacts on infrastructure² (please state 'N/A' if there were no adverse impacts to infrastructure):

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:	
Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):	
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 <i>Environmental Management Act 2003</i>	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)

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

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 <input type="checkbox"/>
Map of the incident site and areas surrounding the incident site (required)	Copy attached <input type="checkbox"/>
Photographs of the spill (required)	Copy attached <input type="checkbox"/>

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:

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

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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

DGIR 252683 Attachments



Photos 1: Spill Photo



Photo 2: Spill Photo



Photo 3: Spill Photo



Photo 4: Spill Cleanup Ongoing



Photo 5: Contaminated Material Pile



Photo 6: Spill Clean Up



Photo 7: Spill Clean Up



Photo 8: Drone Photo of Spill Location at WMP Booster 1

Initial Spill Report				
Name & Company:	Jerome Synard Blackwater Gold			
Date & Time Observed:	7/25/2025 7:30AM			
Fluid Spilled:	Tailings Supernatant Water	Fluid Quantity (L)	3000L	
Location & Description of Spill Area	Booster Pump 2 (Reclaim Line) next to A-trail 10U 375243 5895663			
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Equipment/Source of Spill:	Booster Pump 2 (Reclaim Line)			
Circumstances/Cause of Spill:	During scheduled work to install new HDPE piping workers were instructed to have the pipe drained prior to the maintenance taking place. When work began to install the new flange where the new HDPE pipe would be tied into the current pipe, the head pressure from the drain pushed a gasket out of its seat causing a leak.			
Spill Response Actions Taken:	Spill source was stopped using valves upstream of the leak. Environment notified. Environment took soil samples at affected area. Cleanup initiated and completed. Post-Cleanup soil sample collected.			
Contaminated Material Disposal Methods:	Contaminated material was removed and disposed of in the TSF dump area.			
Reportable Spills				
Responsible Persons:	Mark Warbanski			
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	252905
Date & Time Reported:	7/26/2025 8:40AM			
Government Agencies Notified:	BC Spill hotline			

Government or First Nation Agencies At Spill Site:	None
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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:

Company name:

Email:

Address:

Telephone number:

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:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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.

Latitude:	Degrees	Minutes	Seconds
Longitude:	Degrees	Minutes	Seconds
or			
Site civic address or location:	Street		Postal Code
	City		
or			
DLS or BCNTS (if applicable):		Site ID number (if applicable):	

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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.):

Type of substance spilled (common name):

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:

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.):

Provide a description of the incident leading to the spill (tank rupture, overfill, collision, rollover, derailment, fire, explosion, etc.):

Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.):

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):

Number of people evacuated:

Number of fatalities:

Number of people injured:

Describe any adverse impacts on infrastructure² (please state 'N/A' if there were no adverse impacts to infrastructure):

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:	
Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):	
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.):	
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Section VIII: Spill response actions**Section 6 (2) (h) of the Spill Reporting Regulation**

Action taken to comply with section 91.2 of the <i>Environmental Management Act 2003</i>	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)

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

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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 <input type="checkbox"/>
Map of the incident site and areas surrounding the incident site (required)	Copy attached <input type="checkbox"/>
Photographs of the spill (required)	Copy attached <input type="checkbox"/>

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:

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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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

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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:

Company name:

Email:

Address:

Telephone number:

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:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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.

Latitude:	Degrees	Minutes	Seconds
Longitude:	Degrees	Minutes	Seconds
or			
Site civic address or location:	Street		Postal Code
	City		
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.):

Type of substance spilled (common name):

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:

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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.):

Provide a description of the incident leading to the spill (tank rupture, overflow, collision, rollover, derailment, fire, explosion, etc.):

Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.):

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):

Number of people evacuated:

Number of fatalities:

Number of people injured:

Describe any adverse impacts on infrastructure² (please state 'N/A' if there were no adverse impacts to infrastructure):

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:	
Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):	
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 <i>Environmental Management Act 2003</i>	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)

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

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 <input type="checkbox"/>
Map of the incident site and areas surrounding the incident site (required)	Copy attached <input type="checkbox"/>
Photographs of the spill (required)	Copy attached <input type="checkbox"/>

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:

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

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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

DGIR 254242 Attachments

Photos:



Photo 1: Immediate Spill Photo



Photo 2: Spill Cleanup Photo



Photo 3: After image of spill area

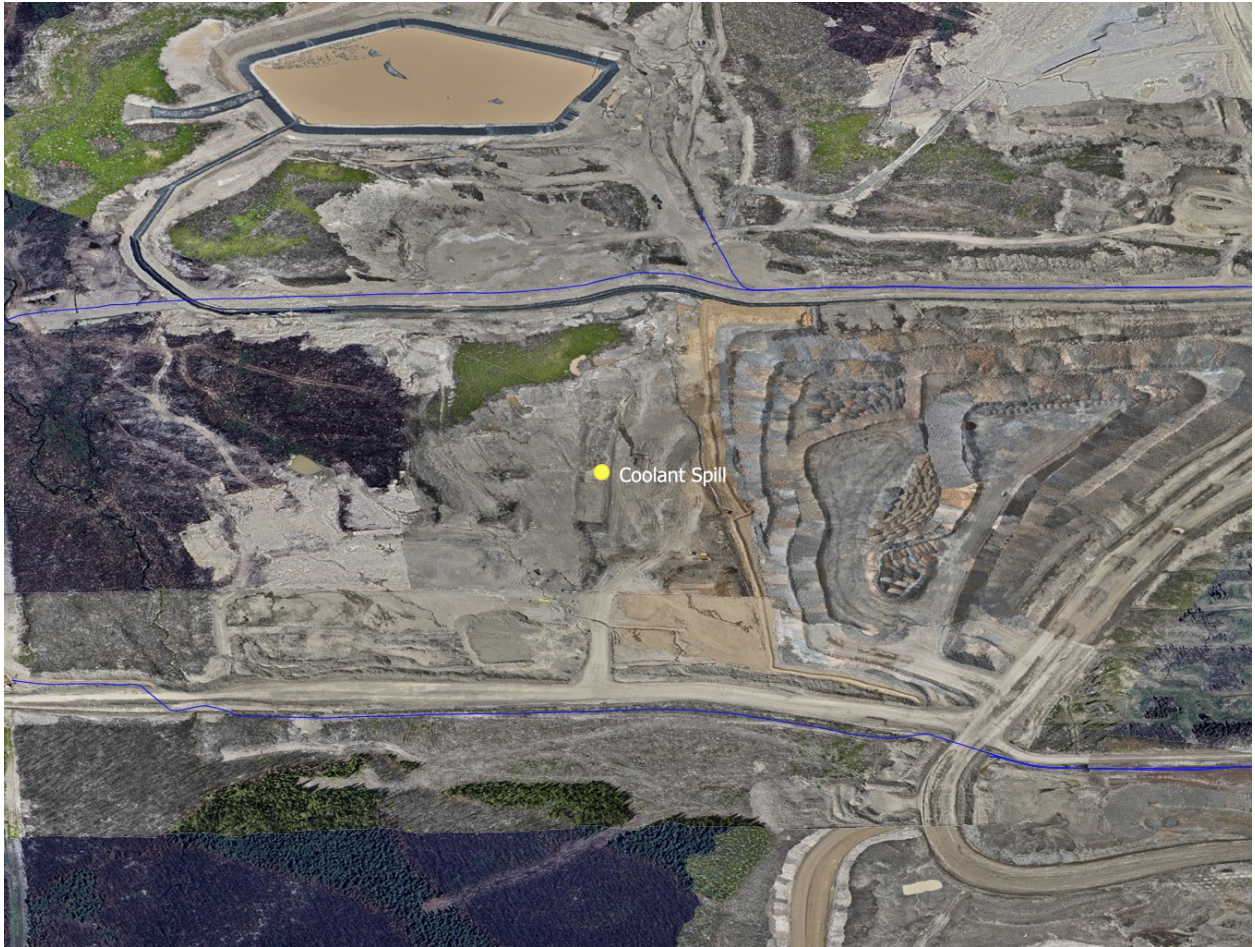


Photo 4: Spill location map

Initial Spill Report				
Name & Company:	Adam Scott Blackwater Gold			
Date & Time Observed:	11/26/2025 10:09AM			
Fluid Spilled:	Caustic Soda	Fluid Quantity (L)	Approx. 600L	
Location & Description of Spill Area	BWG Warehouse 10U 376107 5894241			
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Equipment/Source of Spill:	Caustic soda tote			
Circumstances/Cause of Spill:	Operator was putting totes of caustic soda away into storage sea can and punctured tote in second row with fork of telehandler			
Spill Response Actions Taken:	Spill source was stopped by tilting the punctured section so remaining liquid would not spill out Emergency Response Team notified. Environment notified. Emergency response team responded for safety concerns. Sorbent pads and absorbent organic compound placed on spilt material Berm built around spilt area to contain spill			
Contaminated Material Disposal Methods:	Ongoing			
Reportable Spills				
Responsible Persons:	Steve Conelley			
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	254559
Date & Time Reported:	7/26/2025 12:19PM			
Government Agencies Notified:	Ministry of Environment			
Government or First Nation Agencies At Spill Site:	None			



BW Gold Ltd.
Suite 2600 Three Bentall Centre
595 Burrard Street
PO BOX 49314
Vancouver, BC, V7X 1L3

Dear sir or madam:

As per Blackwater Gold's Accidents and Malfunctions Management Plan, the information below acts as the 30 follow up report to the "Initial Spill Report – November 26th, 2025" submitted on November 27th, 2025.

On November 26, 2025, an operator was placing totes of caustic soda into a storage sea can and punctured a tote in the second row with forks of the telehandler, resulting in a spill amount of 500L to ground. The affected location (10U 376107 5894241) (Image 7) was at the BWG warehouse laydown within the contained plant site footprint.

Source of the spill was stopped by tilting the punctured section up so remaining liquid would not spill out. A portion of the released spill was contained within the sea-can built in secondary containment, and a tertiary berm was constructed around the spill area on construction aggregate ground to further contain the remaining release. Spill response included deploying chemical sorbent pads and absorbent organic compound on spilt material and a vac-truck deployed to remove pooled liquid for disposal in the tailings storage facility. Contaminated material was then excavated with heavy machinery into lined bags and transferred to a lined hazardous containment area for temporary holding. This material was then disposed of through the plant site crusher and processing mill.

There were no adverse environmental effects resulting from this incident with no flora, fauna or watercourses being affected. This incident location on Blackwater Gold's plant site is surrounded by a containment system consisting of collection channels and the plant side sediment control pond. This water is not released to the environment and is pumped into the mill for reuse in processing.

Incident investigation resulted in corrective actions being identified and actioned including:

- Procurement of forklift collars to limit protrusion on other end of tote when handling totes.
- Procurement of materials to raise floor of sea can storage, increasing containment capacity.
- Procurement of materials to install external drain camlock and allow easier access for maintenance of secondary containment.
- Training audit for chemical handling of forklift staff.
- Phase 1A construction package has included installation of caustic soda bulk tank resulting in overall less chemical tote handling.



Blackwater
Mine

30 Day Follow up Report

Please do not hesitate to contact the undersigned if there are any further questions.

Kind regards,

Mark Warbanski

Mark Warbanski
Environment Manager
Blackwater Gold Mine



Image 1: Spill location with telehandler forks holding tote to prevent further spillage



Image 2: Spill location close up



Image 3: Temporary berm constructed to provide tertiary containment for the spill.



Image 4: Clean up of caustic soda within sea-canister with containment.



Image 5: Image of contaminated pile ready to be bagged and collected



Image 6: Lined bags containing contaminated material prior to transfer to hazardous containment area for holding.



Image 7: Map of Caustic Soda Spill

Initial Spill Report				
Name & Company:	Adam Scott Artemis Gold Inc.			
Date & Time Observed:	November 27, 2025 04:45am			
Fluid Spilled:	Hydraulic Fluid	Fluid Quantity (L)	430	
Location & Description of Spill Area	1560 Bench West 53.169870° , -124.870020°			
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Equipment/Source of Spill:	Hydraulic Leak for the Swing Circuit of SH3601			
Circumstances/Cause of Spill:	Mechanical failure. A hydraulic leak occurred in the swing circuit of the SH3601			
Spill Response Actions Taken:	Truck was shut down, Dispatch was informed. Maintenance was dispatched out to stop the leak. Spill tray placed under area of leak. Deployed absorbent pads around area Lube truck evacuated all surface hydrocarbon had pooled 988 loader collected all soiled material and loaded into 773 HT			
Contaminated Material Disposal Methods:	Loaded onto 773 HT and brought to PAG waste storage area.			
Reportable Spills				
Responsible Persons:	KC Whitney, Artemis Gold Inc.			
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	254581
Date & Time Reported:	November 27, 2025 16:49			
Government Agencies Notified:	Ministry of Environment			
Government or First Nation Agencies At Spill Site:	N/A			

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:

Company name:

Email:

Address:

Telephone number:

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:	Time of spill:	Duration of the spill (days):
Date reported:	Emergency response completion date ¹ :	

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.

Latitude:	Degrees	Minutes	Seconds
Longitude:	Degrees	Minutes	Seconds
or			
Site civic address or location:	Street		Postal Code
	City		
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.):

Type of substance spilled (common name):

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:

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.):

Provide a description of the incident leading to the spill (tank rupture, overflow, collision, rollover, derailment, fire, explosion, etc.):

Provide a description of the underlying cause of the spill (human error, external conditions, organizational or management failure, etc.):

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):

Number of people evacuated:

Number of fatalities:

Number of people injured:

Describe any adverse impacts on infrastructure² (please state 'N/A' if there were no adverse impacts to infrastructure):

Impacts to water

Was there an impact to a body of water?	Yes	No
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² For the definition of *infrastructure*, refer to section 91.1 of the [Environmental Management Act 2003](#)

Description of impact:	
Describe the body of water (stream, aquifer, fish habitat, naturally formed body of water, ditch, lake, etc.):	
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 <i>Environmental Management Act 2003</i>	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)

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

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 <input type="checkbox"/>
Map of the incident site and areas surrounding the incident site (required)	Copy attached <input type="checkbox"/>
Photographs of the spill (required)	Copy attached <input type="checkbox"/>

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:

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

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)

Name of responsible person (person or company):

Date completed (YYYY-MM-DD)

Section XIV: Approval - For internal use only

Reviewed by:

Date completed (YYYY-MM-DD)

DGIR 254581 Attachments

Photos:



Photo 1: Immediate Spill photo



Photo 2: Immediate Spill photo



Photo 3: After image of cleaned up spill area (in daylight)



Photo 4: After image of cleaned up spill area (in daylight)



Photo 5: Contaminated material pile prior to removal



Photo 6: Hydraulic hose failure



Photo 7: Spill location map

Initial Spill Report				
Name & Company:	Matthew Davis Blackwater Gold			
Date & Time Observed:	12/06/2025 10:15AM			
Fluid Spilled:	Caustic Soda	Fluid Quantity (L)	Approx. 200L	
Location & Description of Spill Area	BWG Warehouse/ RSC5 Reagent Seacan 10U 376134 5894248			
Spill to:	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Water	Photos Taken:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Equipment/Source of Spill:	Caustic soda tote			
Circumstances/Cause of Spill:	Operator was placing tote of caustic soda in reagents seacan and punctured a tote behind the one he was placing with the tip of his zoom boom fork that was protruding past the tote that he was placing.			
Spill Response Actions Taken:	Spill source was stopped by tilting the punctured section so remaining liquid would not spill out Emergency Response Team notified. Environment notified. Emergency response team responded for safety concerns. Sorbent socks placed around the area to contain the spill. Vac truck removed liquid caustic soda from the secondary containment that the tote was stored in as well as the puddle of liquid caustic soda that went to ground.			
Contaminated Material Disposal Methods:	Ongoing			
Reportable Spills				
Responsible Persons:	Greg Morgan Monty Lewis			
Reported to Spill Hotline	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	DGIR #	254688
Date & Time Reported:	12/6/2025 5:00PM			
Government Agencies Notified:	Ministry of Environment			
Government or First Nation Agencies At Spill Site:	None			



BW Gold Ltd.
Suite 2600 Three Bentall Centre
595 Burrard Street
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Vancouver, BC, V7X 1L3

Dear sir or madam:

As per Blackwater Gold's Accidents and Malfunctions Management Plan, the information below acts as the 30 follow up report to the "Initial Spill Report - December 6, 2025 - DGIR 254688" submitted on December 7th, 2025.

On December 6th at approximately 10:15 am, an operator was placing tote of caustic soda in reagents seacan and punctured a tote behind the one he was placing with the tip of his zoom boom fork that was protruding past the tote that he was placing, resulting in a spill to ground. Initially estimated at 200 L. Following initial clean up and containment, it was noticed that the caustic soda had breached the initial containment area, resulting in an update to the estimated quantity to a total of 500 L. This was not initially accounted for owing to snow-covered ground. The affected area was on the south side of the BWG warehouse contained on the Plant Site footprint.

The spill source was stopped by tilting the tote so that the remaining liquid would not spill out. The caustic from the tote was spilled initially into a secondary containment portion of the seacan that the tote was in but then overflowed to ground. Spill response included placing sorbent socks around the ground affected area and a vac-truck was deployed to remove the liquid from the secondary containment as well as the pooled liquid on the ground outside of the seacan. The contaminated material from the vac-truck was taken to the mill and processed there. The liquid that remained had breached the initial containment area and was excavated with heavy machinery as well as the initial spill area within the containment. The excavated material was put into a wiggle wagon and was disposed of through the plant site crusher and processing mill.

There were no adverse environmental effects resulting from this incident with no flora, fauna or watercourses being affected. This incident location on Blackwater Gold's plant site is surrounded by a containment system consisting of collection channels and the plant side sediment control pond. This water is not released to the environment and is pumped into the mill for reuse in processing.

Incident investigation resulted in corrective actions being identified and actioned including:

- Procurement of forklift collars to limit protrusion on other end of tote when handling totes.
- Procurement of materials to raise floor of sea can storage, increasing containment capacity.
- Procurement of materials to install external drain camlock and allow easier access for maintenance of secondary containment.
- Training audit for chemical handling of forklift staff.
- Phase 1A construction package has included installation of caustic soda bulk tank resulting in overall less chemical tote handling.



Blackwater
Mine

30 Day Follow up Report

Please do not hesitate to contact the undersigned if there are any further questions.

Kind regards,

Mark Warbanski

Mark Warbanski
Environment Manager
Blackwater Gold Mine

DGIR 254688 Attachments



Photo 1: Spill Photo (12/6/2025)



Photo 2: Spill Photo (12/6/2025)



Photo 3: Spill Photo (12/6/2025)



Photo 4: Cleanup (Vac Truck) photo (12/6/2025)



Photo 5: Cleanup (Vac Truck) photo (12/6/2025)



Photo 6: Cleanup (Vac Truck) photo (12/6/2025)



Photo 7: Spill photo (12/7/2025)



Photo 8: Spill cleanup (12/9/2025)



Photo 9: Post Cleanup (12/11/2025)



Photo 10: Post cleanup (12/11/2025)



Photo 11: Post cleanup (12/11/2025)



Photo 12: Post cleanup (12/11/2025)



Photo 13: Spill location