



BACK RIVER GOLD DISTRICT

2025 ANNUAL REPORT
FOR WATER LICENCE
2BE-GOO2028

DATE
March 20, 2026

REFERENCE
Version 1.0



BACK RIVER GOLD DISTRICT

2025 ANNUAL REPORT

In compliance with:
Water Licence 2BE-GOO2028

Prepared by:
RainCoast Environmental Services Ltd.

Submitted to:
Nunavut Water Board (NWB)

B2GOLD BACK RIVER CORP.

Suite 3400, Park Place, 666 Burrard Street
Vancouver, British Columbia, Canada, V6C 2X8
Telephone: +1 604 681 8371
www.b2gold.com

EXECUTIVE SUMMARY

This report summarizes the activities and monitoring undertaken by B2Gold Back River Corp. at the Goose Claims Group in 2025 relevant to Part B, Item 2 of Type B Water Licence 2BE-GOO2028 (the Licence).

Key activities included operation of the Goose Exploration Camp, exploration drilling, and drill site reclamation. The Goose Exploration Camp was open year-round in 2025.

Water use for domestic purposes and drilling were within the daily Licence allowances except on June 11, when 297 m³ of water was used for drilling, which was approximately 10% greater than the drilling water use allotment of 267 m³/day. This would not have caused any negative effects as the exceedance was minimal, within allowances for cumulative daily Project use, and water use on all other days was below Licence allowances.

The deposition of wastes included the placement of drill cuttings in sumps and discharge of greywater from the Goose Exploration Camp. Pacho waste, kitchen refuse, and paper was incinerated. All other wastes were transported to the Goose Project for disposal and are included in the waste quantities outlined in the Goose Project Annual Report for Water Licence 2AM-BRP1831. All 2025 drill sites were reclaimed prior to the seasonal cessation of drilling, except for one site where drill timbers were left for removal in 2026. There were no spills to water or spills triggering spill reporting thresholds.

ATANGUYAT NAITTUMIK

Una uniudjut naittumik hulidjutit uvalu munaridjutit havaktauyut hapkunanga B2Gold Back River Corp. uvani Goose Claims Group uvani 2025 ihuaqtut haffumunga llangani B, Item 2 haffumani Qanurinia B Imakkut Laisia 2BE-GOO2028 (Laisi).

Hulidjutiluut ilaayut auladjutait hapkua Goose Qiniqhiayut Tangmarviit, qiniqhiayut ikuutaqtut, uvalu ikuutaqtut nayugait pinnirhainikkut. Tamna Goose Exploration Camp angmaqhimajuq ukiuq tamaat 2025mi.

Imarmik atungniq iglunun hulidjutinun uvalu ikuutaqtut iluaniitut ubluni Laisikkut ikayuutini kihimi uvani Imaruqtirvia 11, humi 297 m³ imaq atuqtauyuuq ikuutaqhutik, kitut naamavyaktuq 10 pusat angitqiaq ikuutangnikkut imarmik atungnikkut tuniyauyuq imaa 267 m³/ubluq. Una ihuitumik pidjutiqangituq avatqunikkut mikiniqhaq, ikayuutikkut amigaiquuminikkut ubluni Havaaghap atuqtaunianun, uvalu imarmik atungniq tamaini aalani ubluni akikitqiat Laisikkut ikayuutinin.

Iqakut iliugaqtauyut ikuutaqtut kibluqhimayut kuviviinun uvalu kuvigaqhugit qingnariktut imaq hamanga Goose Qiniqhiayut Tangmarvianin. Pacto iqakut, igavingmi iqakut, uvalu titirqat ikualatiyauyut. Tamaita aalat iqakut agyaqtauyut hamunga Goose Havaamun igitauyukhat uvalu ilaayut iqakut qaffiuniit titiraqhimayut uvani Goose Havaaq Ukiumi Uniudjutini haffumunga Imaqmun Laisia 2AM-BRP1831. Tamaita 2025-mi ikuutarviit piyauhimayut hivuani ukiup ilaani ikuutaruiqtinagit, kihiani atauhiq inigiyaayuq ikuutarviit qiyuit qimaktauhimayut ahivaqtauyukhat 2026-mi. Kuviqangituq imarmun uvaluuniin kuvinikkut pidjutiqangitut kuvinikkut uniudjutikkut aktilaangit.

ACRONYMS AND ABBREVIATIONS

B2Gold Nunavut	B2Gold Back River Corp., known as B2Gold Nunavut, a subsidiary of B2Gold Corp.
the Board, NWB	Nunavut Water Board
DMS	Degrees, minutes and seconds (of latitude or longitude)
the Goose Project	Encompasses the Goose Claims Group, Goose Mine, the Winter Ice Road and Marine Laydown Area
the Licence	Water Licence 2BE-GOO2028
the Project	Goose Claims Group

1. INTRODUCTION

This report to the Nunavut Water Board (the Board; NWB) has been prepared to summarize project activities and monitoring undertaken by B2Gold Back River Corp. (B2Gold Nunavut) during 2025, in accordance with Part B, Item 2 of Water Licence 2BE-GOO2028 (the Licence). This Licence was renewed on February 17, 2020, and will expire on February 18, 2028. The NWB Annual Report Form is provided in Appendix A.

Key activities associated with the Goose Claims Group (the Project) in 2025 are summarized as follows:

- ◆ Operation of the Goose Exploration Camp for exploration drilling and to support Water Licence 2AM-BRP1831 activities,
- ◆ Exploration drilling, and
- ◆ Drill site reclamation.

The Goose Exploration Camp was open year-round in 2025.

2. REGULATORY REQUIREMENTS AND STATUS

2.1 Part B, Item 2

The Licensee shall file an Annual report on the Appurtenant Undertaking with the Board no later than March 31st of the year following the calendar year being reported, containing the following information (in alignment with Part B, Item 2 of the Licence):

- a. Summary report of Water use and Waste disposal activities ;
- b. List of unauthorized discharges and a summary of follow-up actions taken;
- c. Any revisions to the Spill Contingency Plan, Abandonment and Restoration Plan and any other plans, submitted in the form of an Addendum, including record of revisions, as required by Part B, Item 7;
- d. Description of all progressive and/or final reclamation work undertaken, including photographic records of site conditions before, during and after completion of operations;
- e. Report all artesian flow occurrences as required under Part F, Item 3;
- f. Summary of all information requested and results of the Monitoring Program;
- g. Any other details on Water use or Waste disposal requested by the Board by November 1 of the year being reported

Compliance Status:

The following is to comply with Part B, Item 2(a). Potable water was pumped from Goose Lake via a pipe into holding tanks within the Goose Exploration Camp. The intake is screened and meets Department of Fisheries and Oceans Freshwater Intake End of Pipe Fish Screen Guidelines requirements. Prior to consumption, potable water is treated with filtration, chlorination, and UV disinfection as needed. Appendix B summarizes daily water used for the Goose Exploration Camp, all of which was withdrawn from Goose Lake. Total annual exploration camp water usage was 2,506 m³ and averaged 6.9 m³/day with a maximum of 13.5 m³/day. There were no exceedances of the 30 m³/day camp water use allotment stipulated in the Licence.

Drill water was obtained from multiple sources proximal to drill targets in 2025 (Table 2.1-1). Daily drill water usage is provided in Appendix C. Total annual drill water usage was 26,081 m³ and averaged 103 m³/day with a maximum of 297 m³/day. There was one exceedance of the 267 m³/day drilling water use allotment stipulated in the Licence: on June 11, 2025, 297 m³ of water was used, which was approximately 10% greater than the water use allotment (Appendix C). This would not have caused any negative effects as the exceedance was minimal, within allowances for total Project use, and water use on all other days was below the Licence allowances.

The total water use allotment of 297 m³/day stipulated in the Licence for drilling and camp purposes was not exceeded in 2025.

Table 2.1-1 Goose Exploration Drill Water Pump Locations, 2025

Drill Hole ID	Latitude (DMS)	Longitude (DMS)	Drill Hole ID	Latitude (DMS)	Longitude (DMS)
25BRP050	65° 40' 59.61" N	106° 55' 24.48" W	25GSE705	Llama Lake	Llama Lake
25BRP051	65° 40' 2.75" N	106° 56' 1.05" W	25GSE706	65° 33' 45.98" N	106° 32' 34.41" W
25BRP052	65° 40' 59.61" N	106° 55' 24.48" W	25GSE707	65° 33' 54.39" N	106° 32' 50.19" W
25BRP053	65° 40' 58.71" N	106° 55' 28.87" W	25GSE709	65° 33' 45.98" N	106° 32' 34.41" W
25BRP054	65° 39' 55.15" N	106° 54' 12.15" W	25GSE709Z1	65° 33' 45.98" N	106° 32' 34.41" W
25BRP055	65° 39' 16.17" N	106° 55' 2.13" W	25GSE710B	Goose Lake	Goose Lake
25BTL049	65° 39' 17.52" N	106° 17' 8.77" W	25GSE711Z1	65° 33' 38.76" N	106° 32' 31.39" W
25BTL049B	65° 39' 17.52" N	106° 17' 8.77" W	25GSE712	65° 33' 38.76" N	106° 32' 31.39" W
25BTL050	65° 38' 55.93" N	106° 18' 2.95" W	25GSE713	Goose Lake	Goose Lake
25BTL051	65° 38' 55.93" N	106° 18' 2.95" W	25GSE714	65° 33' 40.09" N	106° 32' 30.63" W
25BTL052	65° 39' 17.52" N	106° 17' 8.77" W	25GSE715	65° 33' 40.09" N	106° 32' 30.63" W
25BTL053	65° 38' 23.58" N	106° 21' 28.57" W	25GSE715Z1	65° 33' 40.09" N	106° 32' 30.63" W
25BTL054	65° 38' 53.02" N	106° 18' 51.95" W	25GSE715Z2	65° 33' 40.09" N	106° 32' 30.63" W
25BTL054B	65° 38' 53.02" N	106° 18' 51.95" W	25GSE715Z3	65° 33' 40.09" N	106° 32' 30.63" W
25BTL055	65° 39' 38.79" N	106° 18' 19.59" W	25GSE715Z4	65° 33' 40.09" N	106° 32' 30.63" W
25BTL056	65° 39' 33.47" N	106° 19' 25.79" W	25GSE716	65° 33' 40.09" N	106° 32' 30.63" W
25BTL058	65° 38' 53.02" N	106° 18' 51.95" W	25GSE717	65° 33' 40.09" N	106° 32' 30.63" W
25BTL059	65° 43' 24.07" N	106° 30' 58.84" W	25GSE717Z1	65° 33' 40.09" N	106° 32' 30.63" W
25BTL060	65° 42' 17.2" N	106° 29' 35.73" W	25GSE717Z2	65° 33' 40.09" N	106° 32' 30.63" W
25BTL061	65° 42' 12.91" N	106° 29' 20.17" W	25GSE718	65° 33' 43.82" N	106° 32' 36.4" W
25BTL062	65° 42' 17.2" N	106° 29' 35.73" W	25GSE719	65° 33' 43.82" N	106° 32' 36.4" W
25BTL063	65° 42' 17.2" N	106° 29' 35.73" W	25GSE719B	65° 33' 43.82" N	106° 32' 36.4" W
25BTL064	65° 43' 42.13" N	106° 31' 35.3" W	25GSE720	65° 33' 43.82" N	106° 32' 36.4" W
25BTL065	65° 44' 12.65" N	106° 32' 3.81" W	25GSE720Z1	65° 33' 43.82" N	106° 32' 36.4" W
25DEL012	65° 26' 49.31" N	106° 39' 52.29" W	25GSE720Z2	65° 33' 43.82" N	106° 32' 36.4" W
25DEL013	65° 26' 49.31" N	106° 39' 52.29" W	25GSE721	65° 33' 43.82" N	106° 32' 36.4" W
25DEL014	65° 26' 49.31" N	106° 39' 52.29" W	25GSE721Z1	65° 33' 43.82" N	106° 32' 36.4" W
25DEL015	65° 26' 49.31" N	106° 39' 52.29" W	25GSE721Z2	65° 33' 43.82" N	106° 32' 36.4" W
25DEL016	65° 26' 49.31" N	106° 39' 52.29" W	25GSE721Z3	65° 33' 43.82" N	106° 32' 36.4" W
25DEL017	65° 26' 49.31" N	106° 39' 52.29" W	25GSE721Z4	65° 33' 43.82" N	106° 32' 36.4" W

Drill Hole ID	Latitude (DMS)	Longitude (DMS)	Drill Hole ID	Latitude (DMS)	Longitude (DMS)
25DELO18	65° 26' 58.33" N	106° 40' 10.03" W	25GSE722	65° 32' 55.96" N	106° 26' 12.78" W
25DELO19	65° 26' 58.33" N	106° 40' 10.03" W	25GSE723	65° 32' 55.96" N	106° 26' 12.78" W
25GGT008	65° 34' 46.08" N	106° 32' 43.65" W	25GSE723B	65° 32' 55.96" N	106° 26' 12.78" W
25GGT009	65° 34' 46.08" N	106° 32' 43.65" W	25GSE724	65° 32' 55.25" N	106° 26' 13.48" W
25GGT010	65° 34' 57.29" N	106° 32' 25.18" W	25GSE724Z1	65° 32' 55.25" N	106° 26' 13.48" W
25GGT011	65° 34' 57.29" N	106° 32' 25.18" W	25GSE725	65° 32' 55.96" N	106° 26' 12.78" W
25GGT012	65° 33' 56.1" N	106° 34' 55.16" W	25GSE725Z1	65° 32' 55.96" N	106° 26' 12.78" W
25GGT013	65° 33' 56.1" N	106° 34' 55.16" W	25GSE726	65° 32' 55.96" N	106° 26' 12.78" W
25GGT014	65° 33' 51.69" N	106° 35' 27.91" W	25GSE727	65° 32' 55.96" N	106° 26' 12.78" W
25GGT015	65° 33' 51.69" N	106° 35' 27.91" W	25GSE728	65° 32' 45.95" N	106° 27' 23.44" W
25GGT016	65° 33' 16.29" N	106° 35' 17.62" W	25GSE729	65° 34' 3.59" N	106° 32' 56.85" W
25GGT017	65° 33' 16.29" N	106° 35' 17.62" W	25GSE730	65° 32' 45.95" N	106° 27' 23.44" W
25GGT018	65° 34' 27.41" N	106° 34' 58.22" W	25GSE731	65° 34' 3.59" N	106° 32' 56.85" W
25GGT019	65° 34' 27.41" N	106° 34' 58.22" W	25GSE732	65° 32' 45.95" N	106° 27' 23.44" W
25GGT020	65° 35' 0.6" N	106° 37' 46.9" W	25GSE733	65° 34' 3.59" N	106° 32' 56.85" W
25GGT021	65° 35' 0.6" N	106° 37' 46.9" W	25GSE734	65° 33' 46.23" N	106° 32' 37.45" W
25GGT022	65° 35' 31.94" N	106° 37' 22.47" W	25GSE735	65° 32' 45.95" N	106° 27' 23.44" W
25GGT023	65° 35' 31.94" N	106° 37' 22.47" W	25GSE736	65° 33' 45.87" N	106° 32' 36.42" W
25GSE699	65° 32' 54.28" N	106° 28' 52.27" W	25GSE736Z1	65° 33' 45.87" N	106° 32' 36.42" W
25GSE699Z1	65° 32' 54.28" N	106° 28' 52.27" W	25GSE736Z2	65° 33' 45.87" N	106° 32' 36.42" W
25GSE699Z2	65° 32' 54.28" N	106° 28' 52.27" W	25GSE737	65° 32' 45.95" N	106° 27' 23.44" W
25GSE700	65° 32' 48.57" N	106° 27' 9.68" W	25GSE738	65° 33' 46.23" N	106° 32' 37.45" W
25GSE700Z1	65° 32' 48.57" N	106° 27' 9.68" W	25GSE739	65° 32' 45.95" N	106° 27' 23.44" W
25GSE700Z2	65° 32' 48.57" N	106° 27' 9.68" W	25GSE740	65° 33' 46.23" N	106° 32' 37.45" W
25GSE701	Llama Lake	Llama Lake	25GSE741	65° 32' 45.95" N	106° 27' 23.44" W
25GSE702	Llama Lake	Llama Lake	25GSE741B	65° 32' 45.95" N	106° 27' 23.44" W
25GSE703	Llama Lake	Llama Lake	25GSE742	65° 32' 46" N	106° 25' 7.3" W
25GSE704	Llama Lake	Llama Lake	25GSE743	65° 32' 46" N	106° 25' 7.3" W

Notes:

DMS = degrees, minutes, seconds

Wastes disposed of under this Licence include greywater, latrine, non-hazardous and hazardous wastes, and drill wastes. All waste storage area locations are provided in Table 2 .1-2. Greywater generated at

the Goose Exploration Camp consists of waste streams collected from the kitchen and camp washing facilities (showers and laundry). Grease traps are installed within the kitchen which removes solid particles prior to discharge. Greywater is discharged at two tundra locations at the Goose Exploration Camp located at a site away from surface water. Latrine toilets (pacto toilets) are used at the Goose Exploration Camp and collected human waste is disposed of in camp incinerators.

Non-hazardous waste streams consist of kitchen refuse, paper, recyclable food containers, cardboard, and inert wood. Kitchen refuse and paper are disposed of in two-stage commercial incinerators daily. Plastic and metal food containers that are deemed appropriate for recycling are shipped off site to an approved disposal facility in Yellowknife.

Hazardous wastes included waste hydrocarbon liquids, used batteries, and contaminated soil. Hazardous materials are sorted in a lined containment area and packaged for shipment to Yellowknife. Once received in Yellowknife, KBL Environmental manages and properly disposes of hazardous wastes generated at the Goose Exploration Camp. Empty fuel drums are either stored on site for further use or shipped back to the supplier for recycling purposes. Remaining hazardous materials are stored within the lined containment area for future shipment from site.

Types and quantities of all solid wastes generated at the Goose Project and incinerated, open burned, backhauled for disposal, or stored in the on-site Waste Rock Storage Area Landfills, including from exploration activities, are detailed in the Annual Report for Water Licence 2AM-BRP1831.

Drill cutting sump locations are provided in Table 2.1-2. The drilling program utilized a poly drill system whereby brine was recirculated and cuttings were separated and transported to the sumps.

Table 2.1-2 Goose Exploration Waste Storage Locations, 2025

Description	Latitude (DMS)	Longitude (DMS)
Grey Water Line	65° 32' 38.94" N	106° 25' 38.35" W
Grey Water Line #2	65° 32' 40.8" N	106° 25' 48.3" W
Incinerator	65° 32' 38.0" N	106° 25' 31.6" W
Hazardous Waste Backhaul Storage Area	65° 32' 44.3" N	106° 25' 56.5" W
Cuttings Trench (Reclaimed)	65° 32' 31.5" N	106° 25' 33.8" W
Cuttings Trench #2 (Reclaimed)	65° 32' 35.4" N	106° 25' 32.6" W
Cuttings Trench #3 (Reclaimed)	65° 32' 35.3" N	106° 25' 32.6" W
Goose Cuttings Sump (Umwelt)	65° 33' 15.2" N	106° 25' 45.6" W
Goose Cuttings Sump (Llama 1&2)	65° 33' 39.7" N	106° 32' 5.6" W
Goose Cutting Sump (Echo)	65° 31' 55.8" N	106° 27' 32.7" W
Open Burn Pit	65° 32' 37.0" N	106° 25' 35.4" W
Hazardous Materials Storage Area	65° 32' 43.9" N	106° 25' 58.4" W
Goose Lake Fuel Farm	65° 32' 42.9" N	106° 25' 47.2" W
Major Drilling Oils/Additives Location #1	65° 32' 32.5" N	106° 25' 37.2" W
Major Drilling Oils/Additives Location #2	65° 32' 32.1" N	106° 25' 38.6" W

The following is to comply with Part B, Item 2(b). No spills meeting NWT/NU spill reporting thresholds occurred in 2025 for exploration activities covered under this Licence.

The following is to comply with Part B, Item 2(c). B2Gold Nunavut's Exploration Spill Contingency Plan was updated in 2025 and accompanied an application to renew the George Project water licence. This plan was approved with the issuance of 2BE-GEO2530 and is being provided with this report (Appendix E) as well as with the annual report for exploration water licence 2BE-MLL2328.

The following is to comply with Part B, Item 2(d). B2Gold Nunavut continues to exercise drilling procedures where sites are required to be cleaned up prior to initiating the next drill site, and internal inspections are conducted to confirm that clean up procedures are occurring. All 2025 drill sites were reclaimed prior to the seasonal cessation of drilling, except for one site where drill timbers were left for removal in 2026. Restoration of historic drill sites will continue as practical. As in previous years, ongoing reclamation programs will continue to be documented.

The following is to comply with Part B, Item 2(e, f, and g). No artesian flows were encountered, and no information requests were made in 2025. Conditions Applying to the Monitoring Program include:

1. The Licensee shall maintain Monitoring Program Stations at GOO-1 (Raw Water supply intake at Goose Lake), GOO-2 (Final discharge point from Bulk Fuel Storage Facility), GOO-3 (Raw Water supply intake at Llama Lake), and GOO-4 (Raw Water supply intake at Umwelt Lake). Volumes are to be monitored at all four stations and water quality monitoring conducted at GOO-2.

Compliance Status:

Water usage for Goose Exploration Camp is presented in Appendix B. All camp raw water was sourced from Goose Lake (GOO-1) in 2025. There was no discharge from the Bulk Fuel Storage Facility (GOO-2) in 2025.

2. The Licensee shall measure and record, in cubic metres, the daily quantities of Water utilized for camp, drilling and other purposes.

Compliance Status:

Daily water use for the Goose Exploration Camp is summarized in Appendix B and daily drill water usage is provided in Appendix C.

3. The Licensee shall provide the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where sources of Water are utilized for all purposes.

Compliance Status:

Water source locations used in 2025 are provided in Table 2.1-1.

4. The Licensee shall determine the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where Wastes associated with camp operations and drilling operations are deposited.

Compliance Status:

Waste storage locations are provided in Table 2.1-2.

5. The Licensee shall obtain representative samples of the Water column below any ice where required under Part F, Items 5 and 6.

Compliance Status:

Three pre-drilling samples were collected from Llama Lake between April 10 and 14, 2025. Four post-drilling samples were collected from Llama Lake between April 15 and May 3, 2025. Results are presented in Appendix D.

6. All sampling, sample preservation and analysis shall be conducted in accordance with methods prescribed in the current edition of *Standard Methods for the Examination of Water and Wastewater*, or by such other methods approved by the Board in writing.

Compliance Status:

All analyses are conducted as described in the most recent edition of "*Standard Methods for the Examination of Water and Wastewater*", or by such other methods approved by the Board.

7. All analyses shall be performed in a laboratory accredited according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.

Compliance Status:

All analyses are performed in an accredited laboratory according to ISO/IEC Standard 17025.

8. The Licensee shall, during periods of flow and just after a major rainfall event, conduct Water quality testing immediately upstream and downstream of the Water crossings, any significant Water seeps in contact with the road and any flows originating from borrow pits or rock quarries on a monthly basis prior to construction, during the construction and upon completion, while testing for criteria listed under Part J, Item 5.

Compliance Status:

No sampling related to water crossings, or significant water seeps, or flows originating from borrow pits or rock quarries was required in relation to this Licence. Please see the Type A Water Licence 2AM-BRP1831 Annual Report for additional monitoring related to the Goose Project.

9. The Licensee shall implement a Water crossing's visual inspection and maintenance program prior to, during spring freshet and after heavy rainfall events to identify issues related to watercourse crossings structural integrity and hydraulic function.

Compliance Status:

There are no water crossings currently applicable to this Licence. Please see the Type A Water Licence 2AM-BRP1831 Annual Report for additional monitoring related to the Goose Project.

10. The Licensee shall obtain a digital photographic record of all Water crossings before, during and after construction has been completed.

Compliance Status:

There are no water crossings applicable to this Licence. Please see the Type A Water Licence 2AM-BRP1831 Annual Report for additional monitoring related to the Goose Project.

11. Additional monitoring requirements may be requested by the Inspector.

Compliance Status:

No additional monitoring was requested by the Inspector in 2025.

12. The Licensee shall include in the Annual Report required under Part B, Item 2 all data, monitoring results and information required by this Part.

Compliance Status:

All required information is provided within this report and appendices.

No requests related to water use or waste disposal were made by the Board in 2025 in relation to this Licence.

APPENDIX A NWB ANNUAL REPORT FORM

NWB Annual Report

Year being reported: Select ▼

2025

License No: 2BE-GOO2028 Issued Date: February 19, 2020
 Expiry Date: February 18, 2028

Project Name: Goose Project

Licensee: B2Gold Back River Corporation (B2Gold Nunavut)

Mailing Address: Suite 3400, Park Place, 666 Burrard Street
Vancouver, British Columbia, Canada V6C 2X8

Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):

B2Gold Nunavut

General Background Information on the Project (*optional):

Licence Requirements: the licensee must provide the following information in accordance with

Part B ▼ Item 2 ▼

A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s):	Goose, Llama, Umwelt lakes, lakes proximal to drilling targets	
Water Quantity:	30	Quantity Allowable Domestic (cu.m/day)
	13.5	Actual Quantity Used Domestic (max. cu.m/day)
	267	Quantity Allowable Drilling (cu.m/day)
	297	Total Quantity Used Drilling (max. cu.m/day)

Waste Management and/or Disposal

- Solid Waste Disposal
- Sewage
- Drill Waste
- Greywater
- Hazardous
- Other:

Additional Details:

See Section 2.1 of the 2025 Annual Report.

A list of unauthorized discharges and a summary of follow-up actions taken.

Spill No.: (as reported to the Spill Hot-line)

Date of Spill:

Date of Notification to an Inspector:

Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

There were no unauthorized discharges under this Licence in 2025.

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed

Additional Details:

See Section 2.1 of the 2025 Annual Report and Appendix E.

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed

Additional Details:

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

See Section 2.1 of the 2025 Annual Report.

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

Details attached

Additional Details:

See Section 2.1 Table 2.1-1 of the 2025 Annual Report for drill water pump locations.

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;

Details attached

Additional Details:

See Section 2.1 Table 2.1-2 of the 2025 Annual Report for waste storage locations.

Results of any additional sampling and/or analysis that was requested by an Inspector

No additional sampling requested by an Inspector or the Board ▼

Additional Details: (date of request, analysis of results, data attached, etc)

Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

No additional sampling requested by an Inspector or the Board ▼

Additional Details: (Attached or provided below)

Any responses or follow-up actions on inspection/compliance reports

No inspection and/or compliance report issued by INAC ▼

Additional Details: (Dates of Report, Follow-up by the Licensee)

Any additional comments or information for the Board to consider

Date Submitted:

March 2026

Submitted/Prepared by:

Submitted by B2Gold Nunavut/Prepared by RainCoast

Contact Information:

Tel:

Fax:

email:

macoura.kone@b2gold.com

APPENDIX B GOOSE EXPLORATION CAMP DAILY WATER USAGE

Table B-1 Goose Exploration Camp Daily Water Usage from Goose Lake (GOO-1), 2025

Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)
01-Jan-25	4.0	23-Feb-25	5.7	17-Apr-25	7.7	09-Jun-25	6.6	01-Aug-25	8.9	23-Sep-25	6.4	15-Nov-25	6.7
02-Jan-25	5.2	24-Feb-25	5.1	18-Apr-25	7.5	10-Jun-25	7.6	02-Aug-25	7.6	24-Sep-25	7.5	16-Nov-25	7.4
03-Jan-25	6.0	25-Feb-25	7.1	19-Apr-25	8.1	11-Jun-25	6.9	03-Aug-25	8.5	25-Sep-25	4.2	17-Nov-25	5.8
04-Jan-25	5.1	26-Feb-25	6.6	20-Apr-25	6.9	12-Jun-25	6.9	04-Aug-25	7.0	26-Sep-25	4.5	18-Nov-25	1.9
05-Jan-25	5.3	27-Feb-25	5.2	21-Apr-25	8.5	13-Jun-25	6.1	05-Aug-25	9.6	27-Sep-25	6.4	19-Nov-25	7.9
06-Jan-25	4.4	28-Feb-25	5.2	22-Apr-25	6.5	14-Jun-25	7.4	06-Aug-25	8.8	28-Sep-25	7.6	20-Nov-25	6.8
07-Jan-25	6.1	01-Mar-25	5.9	23-Apr-25	7.8	15-Jun-25	6.9	07-Aug-25	8.0	29-Sep-25	7.7	21-Nov-25	6.5
08-Jan-25	7.8	02-Mar-25	6.7	24-Apr-25	8.3	16-Jun-25	8.1	08-Aug-25	6.8	30-Sep-25	4.8	22-Nov-25	7.0
09-Jan-25	6.7	03-Mar-25	6.6	25-Apr-25	7.0	17-Jun-25	6.0	09-Aug-25	5.6	01-Oct-25	6.2	23-Nov-25	6.6
10-Jan-25	7.9	04-Mar-25	5.7	26-Apr-25	7.2	18-Jun-25	6.7	10-Aug-25	8.7	02-Oct-25	7.2	24-Nov-25	7.9
11-Jan-25	8.1	05-Mar-25	6.3	27-Apr-25	7.6	19-Jun-25	6.3	11-Aug-25	9.6	03-Oct-25	8.1	25-Nov-25	6.3
12-Jan-25	8.1	06-Mar-25	7.4	28-Apr-25	8.4	20-Jun-25	8.2	12-Aug-25	6.8	04-Oct-25	7.9	26-Nov-25	5.5
13-Jan-25	7.1	07-Mar-25	6.9	29-Apr-25	8.4	21-Jun-25	6.8	13-Aug-25	6.3	05-Oct-25	6.4	27-Nov-25	6.5
14-Jan-25	6.8	08-Mar-25	5.1	30-Apr-25	7.8	22-Jun-25	6.1	14-Aug-25	7.4	06-Oct-25	13.4	28-Nov-25	6.4
15-Jan-25	7.6	09-Mar-25	4.9	01-May-25	7.6	23-Jun-25	6.9	15-Aug-25	6.1	07-Oct-25	1.2	29-Nov-25	5.1
16-Jan-25	5.6	10-Mar-25	13.5	02-May-25	6.9	24-Jun-25	6.6	16-Aug-25	7.8	08-Oct-25	6.9	30-Nov-25	6.4
17-Jan-25	7.4	11-Mar-25	6.4	03-May-25	7.2	25-Jun-25	5.7	17-Aug-25	7.4	09-Oct-25	8.9	01-Dec-25	6.1
18-Jan-25	7.0	12-Mar-25	8.0	04-May-25	6.8	26-Jun-25	6.7	18-Aug-25	6.9	10-Oct-25	7.2	02-Dec-25	6.5
19-Jan-25	5.3	13-Mar-25	6.2	05-May-25	7.7	27-Jun-25	7.7	19-Aug-25	9.4	11-Oct-25	7.3	03-Dec-25	6.1
20-Jan-25	5.0	14-Mar-25	6.8	06-May-25	6.0	28-Jun-25	6.5	20-Aug-25	4.7	12-Oct-25	7.2	04-Dec-25	7.2

Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)
21-Jan-25	5.4	15-Mar-25	6.4	07-May-25	6.2	29-Jun-25	6.7	21-Aug-25	6.7	13-Oct-25	7.5	05-Dec-25	6.4
22-Jan-25	5.4	16-Mar-25	7.1	08-May-25	7.6	30-Jun-25	10.3	22-Aug-25	8.3	14-Oct-25	8.2	06-Dec-25	6.6
23-Jan-25	4.8	17-Mar-25	7.9	09-May-25	6.9	01-Jul-25	7.2	23-Aug-25	8.0	15-Oct-25	7.1	07-Dec-25	5.4
24-Jan-25	4.7	18-Mar-25	6.2	10-May-25	7.8	02-Jul-25	3.5	24-Aug-25	7.2	16-Oct-25	5.9	08-Dec-25	5.4
25-Jan-25	4.7	19-Mar-25	7.4	11-May-25	6.9	03-Jul-25	4.2	25-Aug-25	8.1	17-Oct-25	7.1	09-Dec-25	6.5
26-Jan-25	4.8	20-Mar-25	6.4	12-May-25	6.1	04-Jul-25	5.8	26-Aug-25	9.3	18-Oct-25	7.3	10-Dec-25	6.0
27-Jan-25	5.0	21-Mar-25	7.0	13-May-25	7.1	05-Jul-25	5.8	27-Aug-25	6.6	19-Oct-25	7.6	11-Dec-25	6.1
28-Jan-25	4.5	22-Mar-25	6.7	14-May-25	6.1	06-Jul-25	6.1	28-Aug-25	7.2	20-Oct-25	7.5	12-Dec-25	5.7
29-Jan-25	5.2	23-Mar-25	9.1	15-May-25	7.6	07-Jul-25	7.1	29-Aug-25	6.8	21-Oct-25	7.5	13-Dec-25	4.2
30-Jan-25	6.2	24-Mar-25	6.3	16-May-25	8.7	08-Jul-25	10.6	30-Aug-25	7.0	22-Oct-25	7.8	14-Dec-25	5.6
31-Jan-25	6.4	25-Mar-25	7.7	17-May-25	6.9	09-Jul-25	6.5	31-Aug-25	7.6	23-Oct-25	7.2	15-Dec-25	4.7
01-Feb-25	4.9	26-Mar-25	7.5	18-May-25	6.7	10-Jul-25	8.5	01-Sep-25	7.9	24-Oct-25	7.8	16-Dec-25	6.0
02-Feb-25	5.4	27-Mar-25	7.7	19-May-25	6.7	11-Jul-25	6.9	02-Sep-25	6.8	25-Oct-25	7.5	17-Dec-25	5.8
03-Feb-25	5.5	28-Mar-25	6.9	20-May-25	8.2	12-Jul-25	7.0	03-Sep-25	7.8	26-Oct-25	8.9	18-Dec-25	5.9
04-Feb-25	6.9	29-Mar-25	6.8	21-May-25	10.9	13-Jul-25	7.5	04-Sep-25	6.1	27-Oct-25	7.5	19-Dec-25	4.8
05-Feb-25	5.0	30-Mar-25	7.3	22-May-25	5.0	14-Jul-25	7.5	05-Sep-25	7.6	28-Oct-25	7.7	20-Dec-25	3.0
06-Feb-25	5.3	31-Mar-25	7.4	23-May-25	7.4	15-Jul-25	6.8	06-Sep-25	7.7	29-Oct-25	7.9	21-Dec-25	4.8
07-Feb-25	4.8	01-Apr-25	3.8	24-May-25	8.4	16-Jul-25	7.8	07-Sep-25	7.0	30-Oct-25	7.1	22-Dec-25	4.0
08-Feb-25	5.4	02-Apr-25	6.5	25-May-25	8.2	17-Jul-25	10.1	08-Sep-25	8.3	31-Oct-25	6.6	23-Dec-25	3.9
09-Feb-25	5.3	03-Apr-25	7.9	26-May-25	10.0	18-Jul-25	7.9	09-Sep-25	9.7	01-Nov-25	7.7	24-Dec-25	3.0
10-Feb-25	5.4	04-Apr-25	8.5	27-May-25	6.0	19-Jul-25	7.2	10-Sep-25	8.9	02-Nov-25	7.4	25-Dec-25	3.8

Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)	Date	Volume (m ³)
11-Feb-25	6.2	05-Apr-25	8.7	28-May-25	5.8	20-Jul-25	8.5	11-Sep-25	7.7	03-Nov-25	6.9	26-Dec-25	3.8
12-Feb-25	5.6	06-Apr-25	11.0	29-May-25	7.7	21-Jul-25	8.0	12-Sep-25	7.5	04-Nov-25	6.6	27-Dec-25	3.9
13-Feb-25	5.8	07-Apr-25	8.6	30-May-25	8.0	22-Jul-25	8.9	13-Sep-25	8.9	05-Nov-25	9.3	28-Dec-25	4.0
14-Feb-25	6.7	08-Apr-25	8.6	31-May-25	9.2	23-Jul-25	7.8	14-Sep-25	10.3	06-Nov-25	10.3	29-Dec-25	4.5
15-Feb-25	4.2	09-Apr-25	5.0	01-Jun-25	7.2	24-Jul-25	6.6	15-Sep-25	8.9	07-Nov-25	7.1	30-Dec-25	3.7
16-Feb-25	5.1	10-Apr-25	8.8	02-Jun-25	7.5	25-Jul-25	7.1	16-Sep-25	7.7	08-Nov-25	6.0	31-Dec-25	4.2
17-Feb-25	4.3	11-Apr-25	7.5	03-Jun-25	6.5	26-Jul-25	7.8	17-Sep-25	6.2	09-Nov-25	6.1	Average	6.9
18-Feb-25	6.5	12-Apr-25	6.8	04-Jun-25	7.1	27-Jul-25	7.9	18-Sep-25	6.0	10-Nov-25	8.1	Maximum	13.5
19-Feb-25	6.4	13-Apr-25	9.3	05-Jun-25	7.2	28-Jul-25	7.8	19-Sep-25	5.4	11-Nov-25	7.0	Annual Total	2506
20-Feb-25	4.9	14-Apr-25	9.6	06-Jun-25	9.1	29-Jul-25	8.0	20-Sep-25	5.4	12-Nov-25	7.0		
21-Feb-25	6.5	15-Apr-25	4.8	07-Jun-25	8.1	30-Jul-25	8.2	21-Sep-25	7.1	13-Nov-25	8.4		
22-Feb-25	6.4	16-Apr-25	7.7	08-Jun-25	8.2	31-Jul-25	8.7	22-Sep-25	6.6	14-Nov-25	8.8		

APPENDIX C GOOSE DAILY DRILL WATER USAGE

Table C-1 Goose Daily Drill Water Usage, 2025

Date	Drill Hole ID	Water Use (m ³)	Latitude	Longitude	Drill Hole ID	Water Use (m ³)	Latitude	Longitude	Drill Hole ID	Water Use (m ³)	Latitude	Longitude	Drill Hole ID	Water Use (m ³)	Latitude	Longitude	Drill Hole ID	Water Use (m ³)	Latitude	Longitude	Drill Hole ID	Water Use (m ³)	Latitude	Longitude	Total Water Use (m ³)	
29-Mar-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25GSE699	34.7	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	34.7
30-Mar-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25GSE699	52.8	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	52.8
31-Mar-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25GSE699	43.8	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	43.8
01-Apr-25	-	-	-	-	-	-	-	-	25GSE700	30.5	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	31.8	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	62.3
02-Apr-25	-	-	-	-	-	-	-	-	25GSE700	28.4	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	44.5	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	72.9
03-Apr-25	-	-	-	-	-	-	-	-	25GSE700	25.8	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	55.9	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	81.8
04-Apr-25	-	-	-	-	-	-	-	-	25GSE700	31.3	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	50.6	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	81.9
05-Apr-25	-	-	-	-	-	-	-	-	25GSE700	54.9	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	47.8	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	102.6
06-Apr-25	-	-	-	-	-	-	-	-	25GSE700	24.5	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	47.6	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	72.1
07-Apr-25	-	-	-	-	-	-	-	-	25GSE700	21.4	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	36.8	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	58.2
08-Apr-25	-	-	-	-	-	-	-	-	25GSE700	26.3	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	48.2	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	74.5
09-Apr-25	-	-	-	-	-	-	-	-	25GSE700	28.9	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	42.2	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	71.1
10-Apr-25	-	-	-	-	25GSE701	39.2	Ulama Lake	Ulama Lake	25GSE700	26.1	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	42.7	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	108
11-Apr-25	-	-	-	-	25GSE701	41.3	Ulama Lake	Ulama Lake	25GSE700	41.5	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	24.5	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	107.3
12-Apr-25	25GSE702	40.2	Ulama Lake	Ulama Lake	25GSE701	45.3	Ulama Lake	Ulama Lake	25GSE700	38.2	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	42.8	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	166.4
13-Apr-25	25GSE702	41.8	Ulama Lake	Ulama Lake	25GSE701	44.1	Ulama Lake	Ulama Lake	25GSE700	50.6	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	58.7	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	195.2
14-Apr-25	25GSE702	23.9	Ulama Lake	Ulama Lake	25GSE701	21	Ulama Lake	Ulama Lake	25GSE700	30.1	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	37.5	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	112.5
15-Apr-25	25GSE702	41.1	Ulama Lake	Ulama Lake	25GSE703	43	Ulama Lake	Ulama Lake	25GSE700	47.9	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	40.2	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	172.2
16-Apr-25	25GSE702	21.4	Ulama Lake	Ulama Lake	25GSE703	67.4	Ulama Lake	Ulama Lake	25GSE700	40.2	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	23.7	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	152.5
17-Apr-25	25GSE702	16.4	Ulama Lake	Ulama Lake	25GSE703	61.8	Ulama Lake	Ulama Lake	25GSE700	21.6	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	46.4	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	146.2
18-Apr-25	25GSE702	15	Ulama Lake	Ulama Lake	25GSE703	65.5	Ulama Lake	Ulama Lake	-	-	-	-	-	-	-	-	-	-	25GSE699	39.8	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	120.2
19-Apr-25	25GSE704	27.5	Ulama Lake	Ulama Lake	25GSE703	12.4	Ulama Lake	Ulama Lake	25GSE700	27.9	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	40.9	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	108.8
20-Apr-25	25GSE704	32.3	Ulama Lake	Ulama Lake	25GSE703	57.7	Ulama Lake	Ulama Lake	25GSE700	19.4	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	56.8	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	166.2
21-Apr-25	25GSE704	23.1	Ulama Lake	Ulama Lake	25GSE703	51.3	Ulama Lake	Ulama Lake	25GSE700	26.6	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	34.2	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	135.2
22-Apr-25	25GSE704	34.7	Ulama Lake	Ulama Lake	25GSE703	66.2	Ulama Lake	Ulama Lake	25GSE700	27.7	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	32.9	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	161.5
23-Apr-25	25GSE704	14.3	Ulama Lake	Ulama Lake	25GSE703	14.7	Ulama Lake	Ulama Lake	25GSE700	25.7	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	37.6	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	92.3
24-Apr-25	25GSE706	24.4	65° 33' 45.98" N	106° 32' 34.41" W	25GSE705	56.4	Ulama Lake	Ulama Lake	25GSE70021	28.4	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	35.4	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	144.6
25-Apr-25	25GSE706	37.6	65° 33' 45.98" N	106° 32' 34.41" W	25GSE705	53.8	Ulama Lake	Ulama Lake	25GSE70021	28.6	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	49.1	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	169.1
26-Apr-25	25GSE706	36.8	65° 33' 45.98" N	106° 32' 34.41" W	25GSE705	41.5	Ulama Lake	Ulama Lake	25GSE70021	38.2	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	45.6	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	162.1
27-Apr-25	25GSE706	45.1	65° 33' 45.98" N	106° 32' 34.41" W	25GSE705	40.3	Ulama Lake	Ulama Lake	25GSE70021	39.4	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	51.5	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	176.3
28-Apr-25	25GSE706	30.9	65° 33' 45.98" N	106° 32' 34.41" W	25GSE705	68	Ulama Lake	Ulama Lake	25GSE70021	36.6	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	49.2	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	184.8
29-Apr-25	25GSE706	29.8	65° 33' 45.98" N	106° 32' 34.41" W	25GSE705	39.7	Ulama Lake	Ulama Lake	25GSE70021	51.2	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	46.5	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	167.2
30-Apr-25	25GSE706	49.9	65° 33' 45.98" N	106° 32' 34.41" W	25GSE707	1.5	65° 33' 54.39" N	106° 32' 50.19" W	25GSE70021	37.3	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	44	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	132.7
01-May-25	25GSE706	43.9	65° 33' 45.98" N	106° 32' 34.41" W	25GSE707	51.3	65° 33' 54.39" N	106° 32' 50.19" W	25GSE70021	36.3	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	52.2	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	183.7
02-May-25	25GSE706	50.7	65° 33' 45.98" N	106° 32' 34.41" W	25GSE707	64.8	65° 33' 54.39" N	106° 32' 50.19" W	25GSE70021	37	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	53.6	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	206.1
03-May-25	25GSE708	53.4	65° 33' 45.98" N	106° 32' 34.41" W	25GSE707	34.6	65° 33' 54.39" N	106° 32' 50.19" W	25GSE70021	37.2	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	50.9	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	176.1
04-May-25	25GSE708	46.9	65° 33' 45.98" N	106° 32' 34.41" W	25GSE709	32.7	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	37.4	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	44.7	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	161.7
05-May-25	25GSE708	58.4	65° 33' 45.98" N	106° 32' 34.41" W	25GSE709	38.1	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	26.1	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	27.8	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	150.4
06-May-25	25GSE708	52.5	65° 33' 45.98" N	106° 32' 34.41" W	25GSE709	25.8	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	35.5	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	53	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	166.8
07-May-25	25GSE708	46.4	65° 33' 45.98" N	106° 32' 34.41" W	25GSE709	48.8	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	44.7	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	53.2	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	193.1
08-May-25	25GSE708	49.6	65° 33' 45.98" N	106° 32' 34.41" W	25GSE709	35.2	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	33.7	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	55.3	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	173.8
09-May-25	25GSE708	52	65° 33' 45.98" N	106° 32' 34.41" W	25GSE709	29.9	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	35.6	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	25GSE699	53.1	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	170.6
10-May-25	25GSE708	50	65° 33' 45.98" N	106° 32' 34.41" W	25GSE709	58.3	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	24.2	65° 32' 48.57" N	106° 27' 9.68" W	25GSE710B	30.3	Goose Lake	Goose Lake	25GSE699	26.9	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	189.6		
11-May-25	25GSE711	18.9	65° 33' 45.98" N	106° 32' 34.41" W	25GSE709	25.7	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	31.8	65° 32' 48.57" N	106° 27' 9.68" W	25GSE710B	39.2	Goose Lake	Goose Lake	25GSE69921	26.1	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	141.8		
12-May-25	25GSE711	50.3	65° 33' 45.98" N																							

22-May-25	25GSE71121	52.9	65° 33' 38.76" N	106° 32' 31.39" W	25GSE70921	38.5	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	28.6	65° 32' 48.57" N	106° 27' 9.68" W	25BTL049	35	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69921	33.1	65° 32' 54.28" N	106° 28' 52.27" W	25GSE712	31.2	65° 33' 38.76" N	106° 32' 31.39" W	219.3
23-May-25	25GSE71121	45.8	65° 33' 38.76" N	106° 32' 31.39" W	25GSE70921	18.7	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	28	65° 32' 48.57" N	106° 27' 9.68" W	25BTL049	29.9	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69921	34.5	65° 32' 54.28" N	106° 28' 52.27" W	25GSE712	28.9	65° 33' 38.76" N	106° 32' 31.39" W	185.7
24-May-25	25GSE71121	37.4	65° 33' 38.76" N	106° 32' 31.39" W	25GSE70921	35.7	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	30.9	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	25GSE69921	17.1	65° 32' 54.28" N	106° 28' 52.27" W	25GSE712	13.1	65° 33' 38.76" N	106° 32' 31.39" W	134.1
25-May-25	25GSE71121	22.4	65° 33' 38.76" N	106° 32' 31.39" W	25GSE70921	28.5	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	28.8	65° 32' 48.57" N	106° 27' 9.68" W	25BTL049B	36	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	30.5	65° 32' 54.28" N	106° 28' 52.27" W	25GSE712	9.3	65° 33' 38.76" N	106° 32' 31.39" W	155.6
26-May-25	25GSE71121	46.7	65° 33' 38.76" N	106° 32' 31.39" W	25GSE70921	28.8	65° 33' 45.98" N	106° 32' 34.41" W	25GSE70021	27.6	65° 32' 48.57" N	106° 27' 9.68" W	25BTL049B	43.2	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	34.4	65° 32' 54.28" N	106° 28' 52.27" W	25GSE712	7.2	65° 33' 38.76" N	106° 32' 31.39" W	188
27-May-25	25GSE71121	39.8	65° 33' 38.76" N	106° 32' 31.39" W	-	-	-	-	25GSE70021	25.4	65° 32' 48.57" N	106° 27' 9.68" W	25BTL049B	41.7	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	25.4	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	132.4
28-May-25	25GSE71121	20.5	65° 33' 38.76" N	106° 32' 31.39" W	-	-	-	-	25GSE70021	42.5	65° 32' 48.57" N	106° 27' 9.68" W	25BTL049B	48.9	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	37.5	65° 32' 54.28" N	106° 28' 52.27" W	25GSE713	0.9	Goose Lake	Goose Lake	150.2
29-May-25	25GSE71121	17.4	65° 33' 38.76" N	106° 32' 31.39" W	25BTL050	8.7	65° 38' 55.93" N	106° 18' 2.95" W	25GSE70021	22.4	65° 32' 48.57" N	106° 27' 9.68" W	25BTL049B	44	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	19.7	65° 32' 54.28" N	106° 28' 52.27" W	25GSE713	18.2	Goose Lake	Goose Lake	130.3
30-May-25	-	-	-	-	25BTL050	52.7	65° 38' 55.93" N	106° 18' 2.95" W	25GSE70021	15.9	65° 32' 48.57" N	106° 27' 9.68" W	25BTL052	38.7	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	33.7	65° 32' 54.28" N	106° 28' 52.27" W	25GSE713	18.7	Goose Lake	Goose Lake	159.6
31-May-25	-	-	-	-	25BTL050	36.7	65° 38' 55.93" N	106° 18' 2.95" W	25GSE70021	24.1	65° 32' 48.57" N	106° 27' 9.68" W	25BTL052	46.6	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	38.3	65° 32' 54.28" N	106° 28' 52.27" W	25GSE713	9.3	Goose Lake	Goose Lake	154.9
01-Jun-25	25BTL051	39.5	65° 38' 55.93" N	106° 18' 2.95" W	25BTL050	41.7	65° 38' 55.93" N	106° 18' 2.95" W	25GSE70021	49.3	65° 32' 48.57" N	106° 27' 9.68" W	25BTL052	40.1	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	41.7	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	212.3
02-Jun-25	25BTL051	35.6	65° 38' 55.93" N	106° 18' 2.95" W	25BTL050	10.6	65° 38' 55.93" N	106° 18' 2.95" W	25GSE70021	28.7	65° 32' 48.57" N	106° 27' 9.68" W	25BTL052	47	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	38.6	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	160.5
03-Jun-25	25BTL051	29.9	65° 38' 55.93" N	106° 18' 2.95" W	25BTL050	39.7	65° 38' 55.93" N	106° 18' 2.95" W	25GSE70021	14.8	65° 32' 48.57" N	106° 27' 9.68" W	25BTL052	42.6	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	35.2	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	162.3
04-Jun-25	25BTL051	27.6	65° 38' 55.93" N	106° 18' 2.95" W	25BTL050	34.3	65° 38' 55.93" N	106° 18' 2.95" W	25GSE70021	32.9	65° 32' 48.57" N	106° 27' 9.68" W	25BTL052	46.9	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	36.4	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	178.1
05-Jun-25	25BTL053	5.7	65° 38' 23.58" N	106° 21' 28.57" W	25BTL050	17.8	65° 38' 55.93" N	106° 18' 2.95" W	25GSE70021	14.8	65° 32' 48.57" N	106° 27' 9.68" W	25BTL052	20.1	65° 39' 17.52" N	106° 17' 8.77" W	25GSE69922	37.3	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	95.7
06-Jun-25	25BTL053	32.6	65° 38' 23.58" N	106° 21' 28.57" W	25BTL054	21.3	65° 38' 53.02" N	106° 18' 51.95" W	25GSE70022	29.3	65° 32' 48.57" N	106° 27' 9.68" W	25BTL055	7.2	65° 39' 38.79" N	106° 18' 19.59" W	25GSE69922	34.5	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	124.9
07-Jun-25	25BTL053	30.3	65° 38' 23.58" N	106° 21' 28.57" W	25BTL054B	32.6	65° 38' 53.02" N	106° 18' 51.95" W	25GSE70022	30.7	65° 32' 48.57" N	106° 27' 9.68" W	25BTL055	35.6	65° 39' 38.79" N	106° 18' 19.59" W	25GSE69922	31.9	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	161.2
08-Jun-25	25BTL053	30.8	65° 38' 23.58" N	106° 21' 28.57" W	25BTL054B	30.3	65° 38' 53.02" N	106° 18' 51.95" W	25GSE70022	29.4	65° 32' 48.57" N	106° 27' 9.68" W	25BTL055	31.3	65° 39' 38.79" N	106° 18' 19.59" W	25GSE69922	30.6	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	152.4
09-Jun-25	25BTL053	31.3	65° 38' 23.58" N	106° 21' 28.57" W	25BTL054B	56.2	65° 38' 53.02" N	106° 18' 51.95" W	25GSE70022	49.4	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	25GSE69922	66.7	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	203.6
10-Jun-25	25BTL057	80.4	65° 38' 24.2" N	106° 21' 27.9" W	25BTL058	28.9	65° 38' 53.02" N	106° 18' 51.95" W	25GSE70022	50.4	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	25GSE69922	37.1	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	196.9
11-Jun-25	25BTL057	93.6	65° 38' 24.2" N	106° 21' 27.9" W	25BTL058	55.8	65° 38' 53.02" N	106° 18' 51.95" W	25GSE70022	58.2	65° 32' 48.57" N	106° 27' 9.68" W	25BTL056	28.2	65° 39' 33.47" N	106° 19' 25.79" W	25GSE69922	61.5	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	297.3
12-Jun-25	25BTL057	62.3	65° 38' 24.2" N	106° 21' 27.9" W	25BTL058	47.5	65° 38' 53.02" N	106° 18' 51.95" W	25GSE70022	44.6	65° 32' 48.57" N	106° 27' 9.68" W	25BTL056	52.7	65° 39' 33.47" N	106° 19' 25.79" W	25GSE69922	46.3	65° 32' 54.28" N	106° 28' 52.27" W	-	-	-	-	253.4
13-Jun-25	-	-	-	-	25BTL058	47.5	65° 38' 53.02" N	106° 18' 51.95" W	25GSE70022	47.4	65° 32' 48.57" N	106° 27' 9.68" W	25BTL056	56.6	65° 39' 33.47" N	106° 19' 25.79" W	-	-	-	-	-	-	-	-	151.5
14-Jun-25	25BTL059	18.9	65° 43' 24.07" N	106° 30' 58.84" W	-	-	-	-	25GSE70022	45	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	-	-	-	-	-	-	-	-	63.9
15-Jun-25	25BTL059	62.1	65° 43' 24.07" N	106° 30' 58.84" W	-	-	-	-	25GSE70022	56	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	25GSE714	17.3	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	135.3
16-Jun-25	25BTL059	41.3	65° 43' 24.07" N	106° 30' 58.84" W	-	-	-	-	25GSE70022	31.9	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	25GSE714	44.5	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	117.7
17-Jun-25	25BTL059B	26.3	65° 43' 24.07" N	106° 30' 58.84" W	-	-	-	-	25GSE70022	27.8	65° 32' 48.57" N	106° 27' 9.68" W	25BTL060	8.7	65° 42' 17.2" N	106° 29' 35.73" W	25GSE714	29.2	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	92.1
18-Jun-25	25BTL059B	45.8	65° 43' 24.07" N	106° 30' 58.84" W	-	-	-	-	25GSE70022	28	65° 32' 48.57" N	106° 27' 9.68" W	25BTL060	20.1	65° 42' 17.2" N	106° 29' 35.73" W	25GSE714	30.7	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	124.5
19-Jun-25	25BTL059B	44.7	65° 43' 24.07" N	106° 30' 58.84" W	25BTL061	3.8	65° 42' 12.91" N	106° 29' 20.17" W	25GSE70022	29.4	65° 32' 48.57" N	106° 27' 9.68" W	25BTL060	22.1	65° 42' 17.2" N	106° 29' 35.73" W	25GSE714	30.1	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	130.1
20-Jun-25	25BTL059B	18.2	65° 43' 24.07" N	106° 30' 58.84" W	25BTL061	42.4	65° 42' 12.91" N	106° 29' 20.17" W	25GSE70022	30.6	65° 32' 48.57" N	106° 27' 9.68" W	25BTL062	11.4	65° 42' 17.2" N	106° 29' 35.73" W	25GSE714	14.6	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	117.1
21-Jun-25	25BTL059B	18.2	65° 43' 24.07" N	106° 30' 58.84" W	25BTL061	30.7	65° 42' 12.91" N	106° 29' 20.17" W	25GSE70022	27.6	65° 32' 48.57" N	106° 27' 9.68" W	25BTL062	22.7	65° 42' 17.2" N	106° 29' 35.73" W	25GSE714	35.2	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	134.4
22-Jun-25	25BTL059B	18.2	65° 43' 24.07" N	106° 30' 58.84" W	25BTL063	3.8	65° 42' 17.2" N	106° 29' 35.73" W	25GSE70022	29	65° 32' 48.57" N	106° 27' 9.68" W	25BTL062	20.8	65° 42' 17.2" N	106° 29' 35.73" W	25GSE715	15.5	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	87.3
23-Jun-25	-	-	-	-	25BTL063	10.6	65° 42' 17.2" N	106° 29' 35.73" W	25GSE70022	28.4	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	25GSE715	39.4	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	78.4
24-Jun-25	25BTL064	12.9	65° 43' 42.13" N	106° 31' 35.3" W	25BTL063	20.8	65° 42' 17.2" N	106° 29' 35.73" W	25GSE70022	27.6	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	25GSE715	34.4	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	95.8
25-Jun-25	25BTL064	9.5	65° 43' 42.13" N	106° 31' 35.3" W	25BTL063	12.9	65° 42' 17.2" N	106° 29' 35.73" W	25GSE70022	29.9	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	25GSE715	29.9	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	82.1
26-Jun-25	25BTL064	24.6	65° 43' 42.13" N	106° 31' 35.3" W	25BTL063	20.1	65° 42' 17.2" N	106° 29' 35.73" W	25GSE70022	31	65° 32' 48.57" N	106° 27' 9.68" W	-	-	-	-	25GSE715	31.8	65° 33' 40.09" N	106° 32' 30.63" W	-	-	-	-	107.5
27-Jun-25	25BTL064	23.1	65° 43' 42.13" N	106° 31' 35.3" W	-	-	-	-	25GSE70022	29.9	65° 32' 48.57" N	106° 27'													

APPENDIX D WATER QUALITY ANALYTICAL RESULTS

Table D-1 Llama Lake Pre- and Post-drilling Water Quality Results, 2025

Date	Lowest Detection Limit	Unit	10-Apr-2025	12-Apr-2025	12-Apr-2025	15-Apr-2025	18-Apr-2025	20-Apr-2025	03-May-2025
Time			11:15:00	13:15:00	16:00:00	12:15:00	14:45:00	13:30:00	11:30:00
Station			EXP-LLAMA-PRE	EXP-LLAMA-PRE-1	EXP-LLAMA-PRE-2	EXP-LLAMA-POST	EXP-LLAMA-POST-2	EXP-LLAMA-POST-1	EXP-LLAMA-POST-3
Lab Job Number			C532291	C532765	C532765	C532906	C533949	C533949	C538534
Sample ID			DID350	DIF318	DIF319	DIF960	DIK466	DIK467	DJG353
Parameter									
Alkalinity (PP as CaCO3)	0.5	mg/L	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>
Alkalinity (Total as CaCO3)	0.5	mg/L	14.9	14.6	20.4	13.3	20.4	13.7	16.3
Aluminum (Al)-Total	0.003	mg/L	0.0137	0.0121	0.0307	0.0171	0.56	<u>0.15</u>	0.0237
Antimony (Sb)-Total	0.0005	mg/L	<u>0.0005</u>	0.00144	<u>0.0005</u>	<u>0.0005</u>	<u>0.025</u>	<u>0.025</u>	0.00072
Arsenic (As)-Total	0.0001	mg/L	0.00042	0.00042	0.00045	0.00042	<u>0.005</u>	<u>0.005</u>	0.00046
Barium (Ba)-Total	0.001	mg/L	0.0215	0.0228	0.0289	0.0214	<u>0.05</u>	<u>0.05</u>	0.0211
Benzene	0.0004	mg/L	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>
Beryllium (Be)-Total	0.0001	mg/L	<u>0.0001</u>	<u>0.0001</u>	<u>0.0001</u>	<u>0.0001</u>	<u>0.005</u>	<u>0.005</u>	<u>0.0001</u>
Bicarbonate (HCO3)	0.5	mg/L	18.2	17.9	24.9	16.3	24.9	16.7	19.9
Bismuth (Bi)-Total	0.001	mg/L	<u>0.001</u>	<u>0.001</u>	<u>0.001</u>	<u>0.001</u>	<u>0.05</u>	<u>0.05</u>	<u>0.001</u>
Boron (B)-Total	0.05	mg/L	0.061	<u>0.05</u>	<u>0.05</u>	<u>0.05</u>	<u>2.5</u>	<u>2.5</u>	<u>0.05</u>
Cadmium (Cd)-Total	0.00001	mg/L	<u>0.00001</u>	<u>0.00001</u>	<u>0.00001</u>	<u>0.00001</u>	<u>0.0005</u>	<u>0.0005</u>	0.000016
Calcium (Ca)-Total	0.05	mg/L	11.5	12	13.6	11.6	14.9	11.9	16.2
Carbonate (CO3)	0.5	mg/L	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>
Chloride (Cl)-Dissolved	0.5	mg/L	12	12	14	12	16	11	20
Chromium (Cr)-Total	0.001	mg/L	0.0012	<u>0.001</u>	<u>0.001</u>	0.0014	<u>0.05</u>	<u>0.05</u>	0.0013
Cobalt (Co)-Total	0.0002	mg/L	<u>0.0002</u>	<u>0.0002</u>	<u>0.0002</u>	<u>0.0002</u>	<u>0.01</u>	<u>0.01</u>	<u>0.0002</u>
Conductivity	1	µS/cm	129	131	150	132	159	126	169
Copper (Cu)-Total	0.0005	mg/L	0.00185	0.00195	0.00272	0.00262	<u>0.025</u>	<u>0.025</u>	0.00563
Ethylbenzene	0.0004	mg/L	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	0.00061	<u>0.0004</u>
F1 (C6-C10)	100	µg/L	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
F1 (C6-C10) - BTEX	0.1	mg/L	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>
Field Conductivity	-	uS/cm	136	-	-	-	-	-	-
Field Temperature	-	deg. C	0.3	2.4	0	0	0.5	0.2	147

Fluoride (F)	0.01	mg/L	0.025	0.023	0.031	0.025	0.028	0.035	0.028
Hardness (CaCO3)-Total	0.5	mg/L	52.5	55.1	62.2	52.8	66	55.3	69.1
Hydroxide (OH)	0.5	mg/L	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>
Iron (Fe)-Total	0.01	mg/L	0.047	0.029	0.088	0.045	0.99	<u>0.5</u>	0.053
Lead (Pb)-Total	0.0002	mg/L	<u>0.0002</u>	<u>0.0002</u>	<u>0.0002</u>	<u>0.0002</u>	<u>0.01</u>	<u>0.01</u>	0.0003
Lithium (Li)-Total	0.002	mg/L	0.0021	<u>0.002</u>	0.0024	0.0022	<u>0.1</u>	<u>0.1</u>	0.0034
Magnesium (Mg)-Total	0.05	mg/L	5.79	6.13	6.89	5.77	7	6.2	6.98
Manganese (Mn)-Total	0.001	mg/L	0.003	0.0027	0.0058	0.0028	<u>0.05</u>	<u>0.05</u>	0.0041
Mercury (Hg)-Total	0.0000019	mg/L		<u>0.0000019</u>	<u>0.0000019</u>	<u>0.0000019</u>	<u>0.0000019</u>	<u>0.0000019</u>	<u>0.0000019</u>
Molybdenum (Mo)-Total	0.001	mg/L	<u>0.001</u>	<u>0.001</u>	<u>0.001</u>	<u>0.001</u>	<u>0.05</u>	<u>0.05</u>	<u>0.001</u>
Nickel (Ni)-Total	0.001	mg/L	0.0035	0.0033	0.0039	0.0036	<u>0.05</u>	<u>0.05</u>	0.0047
pH	-	pH Units	6.06	6.07	6.01	6.9	7.17	7.1	6.8
pH-Field	-	pH	6.35	6.36	6.44	6.52	6.3	6.3	6.46
Potassium (K)-Total	0.05	mg/L	1.64	1.36	1.62	1.27	<u>2.5</u>	<u>2.5</u>	1.77
Redox Potential-Field	-	mV		97.1	338	212	248	251	3.4
Selenium (Se)-Total	0.0001	mg/L	<u>0.0001</u>	<u>0.0001</u>	<u>0.0001</u>	<u>0.0001</u>	<u>0.005</u>	<u>0.005</u>	<u>0.0001</u>
Silicon (Si)-Total	0.1	mg/L	1.09	1.15	1.24	1.11	<u>5</u>	<u>5</u>	1.12
Silver (Ag)-Total	0.00002	mg/L	<u>0.00002</u>	<u>0.00002</u>	<u>0.00002</u>	<u>0.00002</u>	<u>0.001</u>	<u>0.001</u>	<u>0.00002</u>
Sodium (Na)-Total	0.05	mg/L	1.81	1.79	2.02	1.81	<u>2.5</u>	<u>2.5</u>	2.52
Strontium (Sr)-Total	0.001	mg/L	0.048	0.0501	0.0576	0.0492	0.073	<u>0.05</u>	0.0553
Sulphate (SO4)-Dissolved	0.5	mg/L	26	27	31	27	28	25	29
Sulphur (S)-Total	3	mg/L	9.7	10.3	11.4	10	<u>150</u>	<u>150</u>	9.4
Thallium (Tl)-Total	0.00001	mg/L	<u>0.00001</u>	<u>0.00001</u>	<u>0.00001</u>	<u>0.00001</u>	<u>0.0005</u>	<u>0.0005</u>	<u>0.00001</u>
Tin (Sn)-Total	0.005	mg/L	<u>0.005</u>	<u>0.005</u>	<u>0.005</u>	<u>0.005</u>	<u>0.25</u>	<u>0.25</u>	<u>0.005</u>
Titanium (Ti)-Total	0.005	mg/L	<u>0.005</u>	<u>0.005</u>	<u>0.005</u>	<u>0.005</u>	<u>0.25</u>	<u>0.25</u>	<u>0.005</u>
Toluene	0.0004	mg/L	<u>0.0004</u>	0.0008	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	0.0029	<u>0.0004</u>
Total Dissolved Solids_Measured	10	mg/L	88	-	-	-	-	-	-
Total Oil and Grease	2	mg/L	6	4	8	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>
Total Suspended Solids	1	mg/L	<u>1</u>	<u>1</u>	3.9	<u>1</u>	16	<u>1</u>	<u>1</u>
Turbidity	0.1	NTU	<u>0.1</u>	0.51	0.54	0.2	14	1.7	0.17
Uranium (U)-Total	0.0001	mg/L	<u>0.0001</u>	<u>0.0001</u>	<u>0.0001</u>	<u>0.0001</u>	<u>0.005</u>	<u>0.005</u>	<u>0.0001</u>
Vanadium (V)-Total	0.005	mg/L	<u>0.005</u>	<u>0.005</u>	<u>0.005</u>	<u>0.005</u>	<u>0.25</u>	<u>0.25</u>	<u>0.005</u>

Xylene, m+p- Concentration	0.0008	mg/L	<u>0.0008</u>	<u>0.0008</u>	<u>0.0008</u>	<u>0.0008</u>	<u>0.0008</u>	0.0026	<u>0.0008</u>
Xylene, o- Concentration	0.0004	mg/L	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0004</u>	0.0011	<u>0.0004</u>
Xylenes, total	0.89	µg/L	<u>0.89</u>	<u>0.89</u>	<u>0.89</u>	<u>0.89</u>	<u>0.89</u>	3.7	<u>0.89</u>
Zinc (Zn)-Total	0.005	mg/L	0.0186	<u>0.005</u>	0.0121	0.0051	<u>0.25</u>	<u>0.25</u>	0.0202
Zirconium (Zr)-Total	0.0001	mg/L	<u>0.0001</u>	<u>0.0001</u>	<u>0.0001</u>	<u>0.0001</u>	<u>0.005</u>	<u>0.005</u>	0.00011

Note:

Underlined values were equal to or below the detection limit and are shown as the detection limit.

APPENDIX E SPILL CONTINGENCY PLAN

BACK RIVER PROJECT

EXPLORATION SPILL CONTINGENCY PLAN

DATE

April 2025



CONTENTS

EXECUTIVE SUMMARY	I
ᐃᓐᐃᓐᓐᓐᓐᓐᓐᓐᓐ – ᐃᓐᓐᓐᓐᓐᓐᓐᓐᓐᓐ	I
ATANNGUYANIN NAITTUQ	I
RÉSUMÉ	I
ACRONYMS AND ABBREVIATIONS	1
1. INTRODUCTION AND BACKGROUND	2
1.1 Background	2
1.2 Purpose	2
1.3 Applicable Legislation & Guidelines	2
1.4 Social and Environmental Policy	6
1.5 Policy on Initiation for Cleanup Activities	7
1.6 Risk Management	7
1.7 Existing Facilities	8
1.7.1 Goose Exploration Camp	8
1.7.2 George Exploration Camp	9
1.7.3 Temporary Camps for Resupply for Exploration	9
1.7.4 Overland Corridors	9
2. MATERIALS TRANSPORT AND STORAGE	11
2.1 Fuel Storage	11
2.2 Domestic Greywater, Sewage and Contact Water	11
2.3 Solid Waste	11
2.4 Chemicals	12
2.5 Drilling Fluids and Cuttings	12
3. ROLES AND RESPONSIBILITIES	13
3.1 All Employees (First Responders)	13
3.2 Emergency Response Team (Spill Cleanup Crew)	13
3.3 Site Superintendent	13
3.4 Environmental Superintendent	13
3.5 Health & Safety Superintendent	14
4. TRAINING AND TESTING	15
4.1 Training	15
4.1.1 Site Orientation	15
4.1.2 Role Specific	15

4.1.3	Emergency Response Team	15
4.2	Testing	15
5.	SPILL RESPONSE EQUIPMENT	17
5.1	General Equipment	17
5.2	Spill Kits	17
6.	SPILL RESPONSE PROCEDURE	19
6.1	Identify and Assess	19
6.2	Stop Flow	19
6.3	Notify Supervisor	19
6.4	Spill Containment	19
6.5	Recovery and Cleanup	20
6.6	Response by Spill Location	20
6.6.1	Spills on Land	20
6.6.2	Spills on Water	20
6.6.3	Spills on Snow and Ice	21
6.7	Response by Material Spilled	22
6.7.1	Fuel	22
6.7.2	Domestic Sewage, Solid Waste, and Contact Water	22
6.7.3	Chemical	22
6.7.4	Drilling Salt, Brine or Cuttings	22
6.8	Response to a Fire	23
6.9	Disposal	24
7.	SPILL POTENTIAL ANALYSIS	25
7.1	Camps	25
7.1.1	Fuel	25
7.1.2	Domestic Sewage and Solid Waste	25
7.1.3	Solid Waste	26
7.1.4	Chemicals	26
7.2	Overland Transport	26
7.3	Fire Prevention	28
8.	REPORTING PROCEDURES	1

LIST OF TABLES

Table 1-1	Legislation Applicable to Spill Contingency	4
Table 1.	Location of Spill Kits.	17

Table 2.	Summary of Potential Incidents and Preventative Measures along Transportation Corridors	26
Table 3.	Summary of Potential Incidents and Preventative Measures along Transportation Corridors (completed)	27

LIST OF FIGURES

Figure 1.	Location Map of B2Gold Nunavut Mineral Tenure within the Kitikmeot, Nunavut	3
-----------	---	---

LIST OF APPENDICES

Appendix A.	Spill Response Contacts
Appendix B.	NWT/NU Spill Report
Appendix C.	B2Gold Nunavut Internal Spill Report
Appendix D.	Site Spill Kit Location Maps

ACRONYMS AND ABBREVIATIONS

B2Gold Nunavut	B2Gold Back River Corp.
CSA	Canada Shipping Act
GPS	Location
MLA	Marine Laydown Area
NU	Nunavut
NWT	Northwest Territories
OPEP&OPPP	Oil Pollution Emergency Plan and Oil Pollution Prevention Plan
Plan	This Exploration Spill Contingency Plan
SDS	Safety Data Sheets
SOPEP	Shipboard Oil Pollution Emergency Plan
TS	Technical Services

1. INTRODUCTION AND BACKGROUND

1.1 BACKGROUND

B2Gold Back River Corp. (B2Gold Nunavut) is actively exploring the mineral rights in Nunavut, including the Goose Property (and primary exploration camp at Goose Lake), George Property (and a temporary exploration camp), and unoccupied mineral tenure including, but not limited to, the Boot, Boulder, Wishbone, Malley/Needle, Del, Beach and other claims (Figure 1).

1.2 PURPOSE

This Exploration Spill Contingency Plan (Plan) applies to activities related to B2Gold Nunavut's exploration activities, including those applicable to water licenses 2BE-GOO2028, 2BE-GEO2025, and 2BE-MLL2328 (or as renewed) and addresses applicable terms and conditions of NIRB Screening decisions for File No. 08EA084 (NIRB 2009). Spill response related to Back River Project's mining activities under Water Licence 2AM-BRP1831 and NIRB Project Certificate No. 007 are addressed separately; in B2Gold Nunavut's Spill Contingency Plan and Oil Pollution Prevention Plan and Oil Pollution Emergency Plan (OPPP&OPEP).

This Plan details response actions to be taken in the event of unintentional materials release during the ongoing exploration program and associated support such as camps and overland transport. The plan is dynamic and will be updated at as needed to address any significant changes in operating plans or practices. A copy of the Plan will be available at the exploration camps and headquarter offices.

1.3 APPLICABLE LEGISLATION & GUIDELINES

This Plan has been implemented to ensure that B2Gold Nunavut respects all applicable laws, regulations and requirements from federal and territorial authorities during exploration activities. Specific legislation, regulations, and guidelines related to spill contingency planning and response in Canada, and specifically within Nunavut, are summarized in Table 1-1.

Figure 1. Location Map of B2Gold Nunavut Mineral Tenure within the Kitikmeot, Nunavut

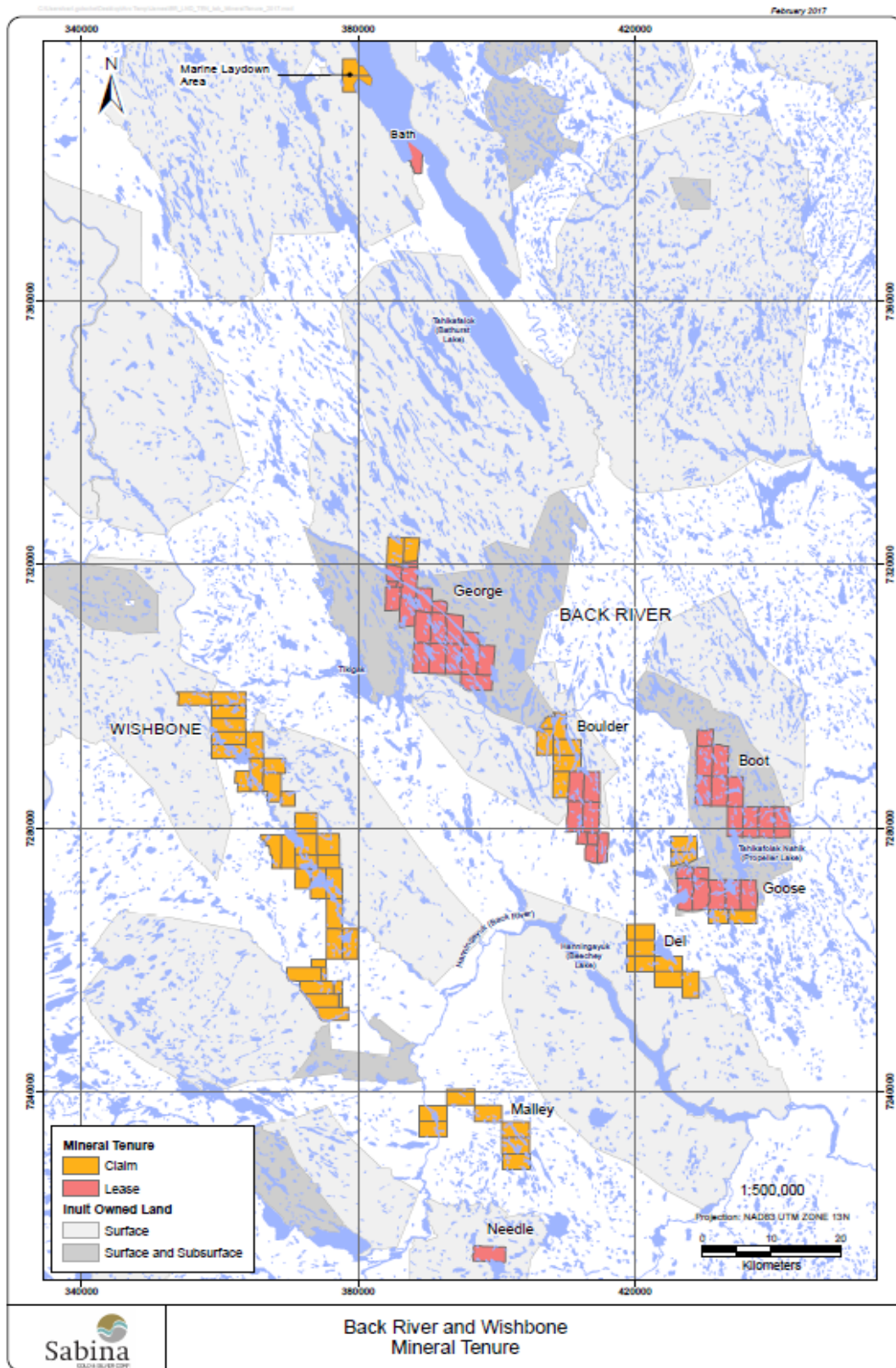


Table 1-1 Legislation Applicable to Spill Contingency

Acts	Regulations	Guidelines
Federal		
<i>Nunavut Act</i> (S.C. 1993, c. 28)		
<i>Arctic Waters Pollution Prevention Act</i> (R.S.C., 1985, c. A-12)	Arctic Shipping Safety and Pollution Prevention Regulations (SOR/2017-286)	
<i>Canada Shipping Act</i> (S.C. 2001, c. 26)	Environmental Response Regulations (SOR/2019-252) Vessel Pollution and Dangerous Chemical Regulations, (SOR/2012-69) Response Organization Regulations (SOR/95-405)	Environmental Response Standards (TP14909E) Response Organization Standards (TP 12401) Guidelines for Reporting Incidents Involving Dangerous Goods, Harmful Substances and/or Marine Pollutants (TP 9834E)
<i>Canadian Environmental Protection Act</i> (S.C.1999 c. 33)	Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations (SOR/2008-197) Environmental Emergency Regulations, 2019 (SOR/2019-51) Cross-border Movement of Hazardous Waste and Hazardous Recyclable Material Regulations (SOR/2021-25)	Canadian Council of Ministers of Environment (CCME) – Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products Canada-Wide Standards for Petroleum Hydrocarbons in Soil CCME Environmental Quality Guidelines Federal Contaminated Sites Action Plan Supplemental Guidance on Implementation of Canada-Wide Standard for Petroleum Hydrocarbons in Soil at Federal Contaminated Sites Technical Guidelines for the Environmental Emergency Regulations, 2019 Version 2.0
<i>Fisheries Act</i> (R.S.C., 1985, c. F-14)	Metal and Diamond Mining Effluent Regulations (SOR/2002-222)	
<i>Explosives Act</i> (R.S.C., 1985, c. E-17)	Explosives Regulations, 2013 (SOR/2013-211)	Guidelines for Bulk Explosives Facilities – Minimum Requirements
National Fire Code of Canada (2020)		
<i>Nunavut Waters and Nunavut Surface Rights Tribunal Act</i> (S.C. 2002, c. 10)	Nunavut Waters Regulations (SOR/2013-69)	

Acts	Regulations	Guidelines
<i>Transportation of Dangerous Goods Act</i> (S.C. 1992, c. 34)	Transportation of Dangerous Goods Regulations (SOR/2001-286)	2024 Emergency Response Guidebook (Transport Canada, U.S. Department of Transportation, and the Secretariat of Transport and Communications of Mexico, with help from the Centro de Información Química para Emergencias of Argentina)
<i>Territorial Lands Act</i> (R.S.C. 1985, c. T-7)	Nunavut Mining Regulations (SOR/2014-69) Territorial Land Use Regulations (C.R.C., c. 1524) Territorial Lands Regulations (C.R.C., c. 1525)	
<i>Hazardous Products Act</i> (R.S.C., 1985, c. H-3)	Controlled Products Regulations (SOR/88-66)	Workplace Hazardous Materials Information System
Territorial – Nunavut		
<i>Environmental Protection Act</i> (R.S.N.W.T. (Nu) 1988, c. E-7)	Spill Contingency Planning and Reporting Regulations (R-068-93) Used Oil and Waste Fuel Management Regulations (R-064-2003)	CIRNAC Guidelines for Spill Contingency Planning NT-NU Spills Working Agreement GN Environmental Guidelines for: <ul style="list-style-type: none"> ◆ General Management of Special and Hazardous Waste (2010) ◆ Waste Paint (2010) ◆ Mercury-Containing Products and Waste Mercury (2010) ◆ Industrial Waste Discharges into Municipal Solid Waste and Sewage Treatment Facilities (2011) ◆ Waste Batteries (2011) ◆ Waste Solvent (2011) ◆ Waste Antifreeze (2011) ◆ Used Oil and Waste Fuel (2012) ◆ Biomedical and Pharmaceutical Waste (2014) Canada-Wide Standards for Petroleum Hydrocarbons in Soil
<i>Mine Health and Safety Act</i> (S.N.W.T. (Nu) 1994, c. 25)	Mine Health and Safety Regulations (R-125-95)	
<i>Workers' Compensation Act</i> (C.S.Nu., c. W-70)	Workers' Compensation General Regulations (R-017-2010)	

Acts	Regulations	Guidelines
<i>Explosives Use Act</i> (R.S.N.W.T. (Nu) 1988, c. E-10)	Explosives Regulations (R.R.N.W.T. (Nu) 1990, c. E-27)	
<i>Fire Safety Act</i> (R.S.N.W.T. (Nu) 1988, c. F-6)	Fire Safety Regulations (R.R.N.W.T. (Nu) 1990, c. F-12)	
<i>Traffic Safety Act</i> (R.S.N.W.T. (Nu) 1988, c. M-16)	Large Vehicle Control Regulations (R.R.N.W.T. (Nu) 1990, c. M-30)	
<i>Camps Health Services Act</i> (R.S.N.W.T. (Nu) 1988, c. P12)	Camp Sanitation Regulations (R.R.N.W.T. (Nu) 1990, c. P-12)	
<i>Safety Act</i> (R.S.N.W.T. (Nu) 1988, c. S-1)	Occupational Health and Safety Regulations (R-003-2016)	
<i>Transportation of Dangerous Goods Act</i> (C.S.Nu., c T-90)	Transportation Of Dangerous Goods Regulations (R-009-2017)	

1.4 SOCIAL AND ENVIRONMENTAL POLICY

B2Gold Nunavut is committed to environmentally responsible and socially acceptable exploration and mining practices. We are dedicated to creating and maintaining a safe environment for both the land we occupy and the people that drive its success. The company's philosophy is to conduct its operations to protect not only the environment, but the health and safety of its employees and the public as well.

B2Gold Nunavut also subscribes to the principles of sustainable development in mining. While exploration and mining cannot occur without an impact on the surrounding natural environment and communities, our responsibility is to limit negative environmental and social impacts and to enhance positive impacts.

To achieve these goals, B2Gold Nunavut is committed to:

- ◆ Seeking to be environmental leaders in the mining community by integrating responsible environmental management as an essential component of all business decisions;
- ◆ Complying with all applicable laws, regulations and standards; upholding the spirit of the law and where laws do not adequately protect the environment, apply standards that minimize any adverse environmental impacts resulting from its operations;
- ◆ Communicating openly with employees, the regulatory community and the public on environmental issues and addressing concerns pertaining to potential hazards and impacts;
- ◆ Assessing the potential affects of operations and integrating protective measures into the planning process to prevent or reduce impacts to the environment and on public health and safety;
- ◆ Taking appropriate corrective actions should unexpected environmental impacts occur. This will also include taking appropriate action to prevent reoccurrence of these impacts.
- ◆ Providing adequate resources, personnel and training so that all employees are aware of and able to support implementation of the environmental and social policy;

- ◆ Conducting and supporting research and programs that improve understanding of the local environment, conserve resources, minimize waste, improve processes, and protect the environment.
- ◆ Working with the appropriate local regulators and agencies, maximize benefits to the affected communities and residents;
- ◆ Balancing decisions with best management practices, scientific principles, and Traditional Knowledge.

1.5 POLICY ON INITIATION FOR CLEANUP ACTIVITIES

B2Gold Nunavut initiates cleanup activity when, in the opinion of management, B2Gold Nunavut is clearly associated, or likely associated with the spilled product. The guiding principles of B2Gold Nunavut's Exploration Spill Contingency Plan is to comply or exceed existing regulations to ensure protection of the environment, and to keep employees, government officials, and the public aware of our plans.

1.6 RISK MANAGEMENT

The likelihood of a significant spill event occurring at the Project at either the Goose or George exploration tank farms is very low, due to the double-walled tanks contained in the lined, bermed area, and the prescribed procedures for fuel transfer and anti-siphon devices in the tanks.

The greatest likelihood of an incident is associated with drummed fuel including the rupture of drums during movement or leaks during storage. The first risk can be mitigated through proper operator training of equipment operation, clear marking and segregation of fuel supplies and heightened operator awareness when working near fuel supplies. The second risk is mitigated with secondary containment and frequent inspection of the drums (carried out during regular yard duties). Additional hazards are present during refuelling operations (mitigated with drip trays and absorbent mat), and during local drum movement (e.g., from storage to helipads), which is mitigated by using experienced operators, carefully securing the drums to the loader during movement, and safe driving practices.

As salt is delivered in pelletized form, any spill is easily cleaned-up. Regular inspection of this storage area will allow for rapid detection of any spill.

Explosives will be delivered in designated compartments approved for transport of explosives and stored within the original packaging in the magazines. Strict housekeeping and tracking standards will be kept. Any spill of explosive material would be easily cleaned up and regular inspection will allow for rapid detection of any spill.

Frequent inspections of the greywater line will turn up any leaks in the system which can be quickly repaired. Any issues would likely be noticed by most people in camp as either moisture and/or an odour would be present.

The likelihood of drill additives entering a waterbody is extremely small. With the exception of on-ice drilling, drills are located at least 31 m away from the high water mark of lakes, ponds and streams, unless otherwise approved by the Board, with vegetation and overburden material providing an effective mechanical barrier to the transport of materials to the waterbody. As an added mitigation measure, geotextile cloth fences are constructed on the downhill side of all new drill setups. For on-ice drilling, excess return water is pumped to a point on shore more than 31 m from the waterbody. Snow and lake ice also create an effective barrier and containment mechanism for spills of material at the drill site, allowing for easy cleanup. Drill sites are inspected for cleanliness upon completion of the hole.

Despite the mitigation measures taken, should any incident arise as a result of human error or unforeseen circumstances, the operating procedures outlined in this document will be implemented.

1.7 EXISTING FACILITIES

The B2Gold Nunavut mineral exploration camps are located in the Kitikmeot Region approximately 520 km northeast of Yellowknife, NWT and 400 km southwest of Cambridge Bay, NU.

1.7.1 GOOSE EXPLORATION CAMP

The Goose Exploration Camp is the primary camp for the Project and is located on the slope of the western shore of Goose Lake (Figure 2). It has the capacity to support up to 120 people (as of June 2012) and is accessible by air only using Goose Lake (ice and open water), a gravel airstrip north of Goose Lake and an all-weather airstrip and road west of the camp. The lakeshore is approximately 50 m toward the north and the regional topographical gradient surrounding the camp ranges from 2 to 6% towards the north. The camp is approximately 300 m in length from east to west and 100 m wide from north to south, covering an area of 30,000 m². The camp facilities are located on natural tundra underlain by a 10 cm organic layer overlying silt-sand parent material. This exploration camp is located adjacent to the Goose Mine and has access to all mine-related facilities, including those related to waste management.

- ◆ Latitude: 65° 32'N, Longitude: 106° 25'W
- ◆ UTM Coordinates 569405 E, 7265007N on NTS Map Sheet 76G/09

Figure 2. Aerial image of Goose Exploration Camp looking west. Photograph taken August 2013.



1.7.2 GEORGE EXPLORATION CAMP

The George Exploration Camp is a second exploration camp established north west of the Goose Property. The George Exploration Camp is currently a 60-person camp accessed by twin otter or similar fixed wing aircraft by the 750 m airstrip, or by helicopter. During winter, the site is also accessible by winter trail.

1.7.3 TEMPORARY CAMPS FOR RESUPPLY FOR EXPLORATION

Temporary exploration camps for approximately 20 people may be established for a season in target areas away from the main camps and would be established for safety, environmental, and economic reasons. The intent is not to establish a network of camps across the exploration area, but to have the opportunity and flexibility to establish these temporary camps as needed. No sewage system will be installed in the camp as no water is needed for Pacto, composting, or incinerating toilets. All solid waste other than drill or cuttings waste (which are deposited in sumps) would be carried to the existing camps (Goose and/or George) and disposed as outlined in the approved waste management plan for those facilities.

Grey-water is pumped to a suitable disposal sump or natural depression located at least 31 metres away from the ordinary high water mark of any local waterways and would be allowed to naturally percolate into the underlying ground.

1.7.4 OVERLAND CORRIDORS

A winter road links the two camps (Goose and George) and extends to Bathurst Inlet. Temporary camp facilities and fuel and chemical storage areas may also be accessed as needed to support exploration activities.

Overland transportation occurs during mid-February to mid-May depending on environmental conditions and operational requirements. Environmental conditions that will determine the route include:

- ◆ Ice thickness of a sufficient thickness to support heavy equipment so that pumping and using water to build up will be unnecessary.
- ◆ Snow thickness will be a minimum of 10 cm on land to prevent damage to soil and vegetation.
- ◆ Weather conditions permit safe transport of equipment and materials.

Diesel fuels and lubricants will be used during the construction and operation of the winter road. Other fuel and materials to be transported along the corridor include diesel fuel, aviation gas, drilling additives such as calcium chloride and construction materials.

Storage of these products and wastes will be in compliance with legislation and the National Fire Code that ensures the hazardous materials are stored safely, in a dry manner with clear labeling and secondary containment. All storage areas will be clearly identified with proper labeling and signage. All storage areas will be regularly inspected and stored at least 31 m from the high water mark of any waterbody within secondary containment.

Safety Data Sheets (SDS) information for the potential contaminants and products to be transported along the winter road are available on-site.

2. MATERIALS TRANSPORT AND STORAGE

2.1 FUEL STORAGE

Diesel fuel is required to generate power on-site, heat buildings, and to fuel mobile equipment. The diesel fuel storage at the camps consists of 205 L drums, as well as double walled tanks (up to 75,000 L ULC-approved) and bladders (up to 40,000 L) situated within a lined secondary berm. Secondary containment (Instaberms) is used for all of the drummed fuel on-site.

Supplies will be replenished with quantities dependent on the scope of the program. Inventories of fuel at each site are dynamic and dependent on exploration activities and personnel in camp.

Drummed fuel is required to support drilling and helicopter activities outside of camp and strategically relocated as required. All drums are located at least 31 m above the high water mark of any waterbody. Specialized oils and greases used by the drilling contractors are stored in sheds or sea-cans designated for that purpose. Propane tanks are stored on pallets, strapped together, and area marked with pylons.

The Goose Property has thirteen 75,000 L double walled tanks and one 40,000 L bladder to support exploration activities.

Additional Back River Project mine fuel storage facilities are present at both the Goose Property and the Marine Laydown Area (MLA). As previously identified, spills from these facilities and/or related to Back River Project bulk fuel transfer activities are addressed separately in B2Gold Nunavut's Spill Contingency Plan and OPEP, respectively.

2.2 DOMESTIC GREYWATER, SEWAGE AND CONTACT WATER

Greywater from the kitchen and shower facilities is screened for coarse particles (e.g., food), and released to a sump for settling, after which it is released to the environment at least 31 m away from the closest waterbody. Sewage is dealt with using a Pacto toilet system with incineration of the waste generated, although other systems authorized under the applicable water licence may also be used.

Contact water is water that collects within the fuel secondary containment berms. Water collected in temporary berms is discharged using an oil/water separator unless an oily sheen is noted. Water collected in bulk fuel storage facility berms is tested and discharged according to applicable requirements outlined in 2BE-GOO2028 and 2BE-GEO2025.

2.3 SOLID WASTE

Combustible solid wastes generated from the camp activities are incinerated. Products such as putrescible domestic and office waste are burned. Non-combustible wastes such as scrap metal, non-reusable barrels, incinerator ash, etc., are placed in megabags and are removed from site using back-haul flights to Yellowknife or landfilling at the Back River Project mine landfill (per B2Gold Nunavut's Landfill and Waste Management Plan). Hazardous solid waste for backhaul is sealed in drums for transport to Yellowknife and disposal at an approved facility.

Although the potential for waste rock (including drill core) to be acid producing is unlikely, any such waste would be disposed of in an approved location and under acceptable practices.

Drill cuttings and sludge from core saws are collected and returned to designated drill cutting consolidation areas for disposal and management in a trench.

2.4 CHEMICALS

Waste chemicals that require special attention and handling include waste oil, hydraulic oil, lubricating oil, calcium chloride, grease, and ethylene glycol.

Waste oil is used to either heat the warehouse, maintenance and core logging facilities, or to fuel the incinerator at Goose Property. If not used to fuel heaters or incinerator, waste oil and oil from filters are backhauled for appropriate disposal. Drained spent oil filters will be stored in drums for removal from the site for disposal at an authorized disposal facility.

There are minimal quantities of reagents such as dilute HCl (<5L), concentrated HNO₃ (vials of <10mL), and other materials on-site for geological testing and environmental sample preservation.

Calcium chloride is added to the fresh water to form a brine solution that acts as antifreeze when drilling in permafrost conditions. The drilling return water is reheated and reused using a mega-bag system which catches the drill cuttings as well. Salt is stored in bags, with 28 sealed in a megabag and placed on a pallet.

Explosive products, when/if on-site, will be stored in appropriate facilities at designated explosives storage site(s).

Fire extinguishers and dust suppression is also used on-site as needed and is stored in appropriate facilities. Small quantities of various household chemicals are on-site for domestic use.

SDS's will be collected and kept at the site for all chemicals and fuel products. Appropriate storage and handling of these products will be undertaken.

2.5 DRILLING FLUIDS AND CUTTINGS

Drilling activities make use of water to lubricate the drill and flush rock dust from the drill hole. When, when drilling in permafrost on land or on ice which is frozen to the lake bottom salt may be added to the drill water to make a brine solution, thereby lowering the water's freezing point and reducing the risk of the drill freezing in. Sodium Chloride or Calcium Chloride may be used for this purpose, with a preference for the latter due to it's lower environmental impact.

During drilling, drill water (whether freshwater or brine) is pumped down the drill hole to lubricate the drill bit and is then recirculated back up between the drill rod and the drill casing, flushing the rock dust generated during drilling with it. On return to the surface, the water is pumped to the drill settling and recirculation bin. Water is drawn off the top of this settling bin for reuse, while cuttings (the settled rock dust) are periodically drained from the bottom of the bin and transferred to a portable container which is transported to one of the Back River Project cuttings consolidation sumps for management and disposal. Alternately, these cuttings may be pumped directly from the drill settling bin to a nearby sump or natural depression. All sumps are to be located at least 31 m from the high water mark of any adjacent waterbody where direct flow into a water body is not possible.

Drilling is conducted in a manner to prevent drilling wastes spreading to surrounding waterbodies. Drill sites are located at least 31 m from water or on ice, and sites are constructed in a manner to minimize impacts. Garbage is removed daily and sites are maintained in a orderly fashion and in accordance with applicable requirements of water licences 2BE-GOO2028, 2BE-GEO2025, and 2BE-MLL2328 and NIRB Screening decision for File No. 08EA084 terms and conditions.

3. ROLES AND RESPONSIBILITIES

3.1 ALL EMPLOYEES (FIRST RESPONDERS)

- ◆ Immediately warn other personnel working near the spill area.
- ◆ Evacuate the area if the health and safety of personnel is threatened.
- ◆ Notify direct supervisor or Site Superintendent, who will initiate the spill response operations.
- ◆ In the absence of danger, take any safe and reasonable measure to stop, contain and identify the nature of the spill.
- ◆ Participate in spill response as directed by the Site Superintendent.

3.2 EMERGENCY RESPONSE TEAM (SPILL CLEANUP CREW)

- ◆ Members determined by Site Superintendent based on response needs.
- ◆ Conduct cleanup of significant spills under direction of Site Superintendent.

3.3 SITE SUPERINTENDENT

- ◆ Assemble and manage the Emergency Response Team, as required.
- ◆ Ensures cleanup is completed to B2Gold Nunavut standards in line with direction from the Health & Safety Superintendent and the Environmental Superintendent.
- ◆ Notify Health & Safety Superintendent and Environmental Superintendent of incident.
- ◆ Provides update within B2Gold Nunavut in camp and headquarters.
- ◆ Record date, location (GPS), material spilled, volume, reason for release, any negative impact, status of cleanup, and corrective actions taken.
- ◆ Keep and maintain database of all reportable and non-reportable spills as identified in the Plan.
- ◆ Conducts ongoing monitoring of cleanup operations leading to close-out.
- ◆ Classify spill level as minor, moderate or major and ensure appropriate response initiated
- ◆ Assists in developing effective spill management and prevention practices.
- ◆ As directed by the VP Project Development and Manager, Logistics and TS report spill to 24-hour Spill Reporting Line.
- ◆ Liaise with NWT/NU applicable agencies regarding on-going cleanup activities.
- ◆ Co-ordinate inspections and spill closure by applicable agencies.
- ◆ Assist in spill response training and exercises.

3.4 ENVIRONMENTAL SUPERINTENDENT

- ◆ Provides advice and ensures spill is documented appropriately as per this plan and regulatory requirements.
- ◆ Record date, location (GPS), material spilled, volume, reason for release, any negative impact, status of cleanup, and corrective actions taken; confirm these details with Site Superintendent.

- ◆ Obtain photographs of spill site before cleanup starts if possible and after the cleanup has been completed. Take pictures of undisturbed area beside the spill area for a comparison. If spill occurs on snow, stake or otherwise identify the affected area so that it can be evaluated once the snow melts.
- ◆ Liaise with NWT/NU applicable agencies regarding on-going cleanup activities, inspections and incident closure
- ◆ Assist in initial and ongoing response efforts.
- ◆ Provide advice to assist with cleanup.
- ◆ Co-ordinate inspections and spill closure by applicable agencies.
- ◆ Assist with investigation and identify measure and/or training to prevent similar spills.

3.5 HEALTH & SAFETY SUPERINTENDENT

- ◆ Assist in initial and ongoing response efforts.
- ◆ Provide advice to assist with cleanup.
- ◆ Assist with investigation and identify measure and/or training to prevent similar spills.

4. TRAINING AND TESTING

4.1 TRAINING

4.1.1 SITE ORIENTATION

On-site orientation will be provided to all on-site personnel to ensure employees are aware of:

- ◆ What First Responders are to do in case of a spill.
- ◆ The location of SDS sheets and Spill Report Forms.
- ◆ The location of the Spill Response Kits.
- ◆ The general locations of fire extinguishers and firefighting equipment.
- ◆ The location of the Spill Action Plan and the Fire Action Plan.

4.1.2 ROLE SPECIFIC

Specific on-site training will be provided to employees whose job function may have a higher probability of experiencing a spill to ensure they are aware of:

- ◆ WHMIS and Transportation of Dangerous Goods.
- ◆ Identify and avoid the conditions which may lead to a spill.
- ◆ Develop an understanding of the potential environmental impacts of a spill.
- ◆ Develop and understanding of the financial costs of a spill.
- ◆ Recognize the hazards associated with sources of ignition (smoking, electrical sparks) near a fuel source.
- ◆ Spill kit contents and use of them.
- ◆ Turn off valves to stop the flow of fuel.

For employees involved in fuel handling, additional training would be provided regarding appropriate refuelling techniques and drum handling procedures.

4.1.3 EMERGENCY RESPONSE TEAM

Members of the Emergency Response Team will be provided a higher level of training to allow for safe and adequate response. This includes:

- ◆ All information given as part of the Role Specific Training.
- ◆ Fire extinguishers and water pump locations and use.
- ◆ Details of the Spill Action Plan and the Fire Action Plan.
- ◆ Identify, evaluate and mitigate the hazards posed by any spilled product by using appropriate PPE (personal protective equipment).

4.2 TESTING

Spill drills and training are routinely conducted to ensure familiarization of on-site personnel with their responsibilities in case of a spill. Drills may also include hands-on scenarios where the Emergency

Response Team utilizes equipment to deal with the spill scenario. Records of this training and testing are kept on file and posted to provide access for those who were unable to attend.

5. SPILL RESPONSE EQUIPMENT

5.1 GENERAL EQUIPMENT

Heavy equipment and aircraft may be used in the area for emergency use to respond to spill incidents. Spill kits and spill response equipment are to be located in key locations and are to be accessible to responders.

Site specific maps illustrating spill kit locations onsite can be found in Appendix D.

5.2 SPILL KITS

Table 1. Location of Spill Kits.

Goose Exploration Camp	Marine Laydown Area	George
Tank Farm	Shoreline Pad	Tank Farm
Drummed Fuel Storage	Freight Storage Pad	Helipad
Generator Buildings	Generator	Each Diamond Drill
Coreshack	Camp Location	Maintenance Shop
Drum Crusher	Temporary AN and Fuel Storage	Incinerator
Incinerator	Construction Laydown Pad	Generator
Helipad Area	Mechanics Shop	
Dock	Quarry Area	
Each Diamond Drill		
South Quonset		
Shop North Quonset		

Spill kits are customized to account for specific hazards and conditions in each work site. Customized spill kits particular for the activity and area are selected for use on the site as required. At a minimum, each kit contains:

- ◆ Sufficient hydrophobic absorbent material (e.g., oil absorbent booms, pads, and socks) to contain and clean up potential drips, leaks, or spills;
- ◆ Gloves and heavy plastic bags to contain oily absorbent materials and contaminated soils or wastes;
- ◆ Barrier tape to keep personnel out of contaminated areas;
- ◆ Sorbent granular materials to soak up free oil; and
- ◆ Other appropriate PPE such as disposal coveralls, rubber gloves, and safety goggles.

Reserve spill response equipment such as booms, socks, and pads are available for responding to larger spill incidents, or to replenish materials used in the smaller equipment spill kits. Spill kits are inspected routinely and restocked after use.

A list of general spill response equipment and materials for both the MLA and Goose Property are provided in B2Gold Nunavut's Back River Project Spill Contingency Plan and OPPP&OPEP.

6. SPILL RESPONSE PROCEDURE

A spill is defined as the discharge of a hazardous product out of its containment and into the environment. Potential hazards to humans, vegetation, water resources, fish, and wildlife vary in severity, depending on several factors including nature of the material, quantity spilled, location, and season. Fuel is the main product that may be spilled and therefore spill response procedures focus on this hazardous material. Other chemicals that may be spilled include sewage water, and small quantities of lubricants and oils.

All site personnel are briefed on the procedures to be followed to report a spill and initiate spill response. The first person to notice a spill must take the following steps:

- ◆ Immediately warn other personnel working near the spill area.
- ◆ Evacuate the area if the health and safety of personnel is threatened.
- ◆ Notify their direct supervisor or Site Superintendent, who will initiate the spill response operations.
- ◆ In the absence of danger, and before the spill response team arrives at the scene, take any safe and reasonable measure to stop, contain and identify the nature of the spill.

The following details the steps to be taken in the event of a spill. Steps are listed in order of importance; however, circumstances and conditions may alter the order of these steps to meet a specific situation.

6.1 IDENTIFY AND ASSESS

- ◆ Ensure safety of all people in the area.
- ◆ Check for fire and explosion risk:
- ◆ Extinguish all ignition sources in the area
- ◆ If unsafe, raise alarm and close off affected area

6.2 STOP FLOW

- ◆ Stop flow at source of spill (e.g. turning off a pump, closing a valve, sealing a puncture hole with almost anything handy (e.g., a rag, a piece of wood, tape, etc.), raising a leaky or discharging hose at a level higher than the product level inside the tank, or transferring fuel from leaking containers)
- ◆ Contain spill utilizing absorbent pads, drip pans, or other secondary containment berms to catch any slow or unexpected leaks.
- ◆ Attempt to limit the spread of the spill. Prevent movement using sorbent material and berms to form a barrier
- ◆ If the spill occurs on ice, attempts should be made to stop the spill from reaching ice-free ground.

6.3 NOTIFY SUPERVISOR

- ◆ Provide as much information as possible about the source, material, amount, fire risk, injuries etc.

6.4 SPILL CONTAINMENT

- ◆ For all spills, use absorbents to contain and soak up the fuel
- ◆ Prevent spread of fuel by using booms and berms
- ◆ Response operations should not be commenced in the affected area until it is safe.

- ◆ Evaluate the potential dangers of the spill in order to protect sensitive ecosystems and natural resources
- ◆ Block or divert the spilled material away from sensitive receptors (e.g. using absorbent booms, dykes, berms, or trenches (dug in the ground or in ice)).

6.5 RECOVERY AND CLEANUP

- ◆ Recover as much of the spill as possible using absorbent materials and/or digging up the affected area if applicable.
- ◆ Store any contaminated or recovered material in secondary containment
- ◆ Disposal should be by approved methods and facilities as per the Site Superintendent instructions.
- ◆ Ensure spill is recorded in Environmental Incident Log

6.6 RESONSE BY SPILL LOCATION

6.6.1 SPILLS ON LAND

Response to spills on land will include the general procedures previously detailed. The main spill control techniques involve the use of two types of barriers: dykes and trenches. Barriers should be placed down-gradient (down-slope) from the source of the spill, and as close as possible to the source of the spill. Barriers slow the progression of the fuel and also serve as containment to allow for recovery.

Depending on the volume spilled, the site of the spill as well as available material, a dyke may be built with soil, booms, lumber, snow, etc. A plastic liner should be placed at the foot of and over the dykes to protect the underlying soil or other material and to facilitate recovery of the fuel. Construct dykes in such a way as to accumulate a thick layer of free product in a single area (V shaped or U shaped).

Trenches are useful in the presence of permeable soil and when the spilled fuel is migrating below the ground surface. A plastic liner should be placed on the down-gradient edge of the trench to protect the underlying soil. Liners should not be placed at the bottom of the trench to allow water to continue flowing underneath the layer of floating oil.

The use of large quantities of absorbent materials to recover important volumes of fuel should be avoided. Large volumes of free-product should be recovered, as much as possible, by using vacuums and pumps, and containerized. Mixtures of water and fuel may be processed through an oil-water separator. Absorbent sheets should be used to soak up residual fuel on water, on the ground (soil and rock), and on vegetation.

6.6.2 SPILLS ON WATER

Response to spills on water includes the general procedures previously detailed. Various containment, diversion and recovery techniques are discussed in the following sections. The following elements must be taken into consideration when conducting response operations:

- ◆ Type of waterbody or water course (lake, ocean, stream, river).
- ◆ Water depth and surface area.
- ◆ Wind speed and direction.
- ◆ Resonance and range of tides.
- ◆ Type of shoreline.
- ◆ Seasonal considerations (open-water, freeze-up, break-up, frozen).

Containment of an oil slick on the ocean requires the deployment of mobile floating booms to intercept, control, contain and concentrate (i.e., increase thickness) the floating oil. One end of the boom is anchored to shore while the other is towed by a boat or other means and used to circle the oil slick and return it close to shore for recovery using a skimmer. Reducing the surface area of the slick increases its thickness and thereby improves recovery. Mechanical recovery equipment (i.e., skimmers and oil/water separators) will be mobilized to site if required.

If oil is spilled in a lake it may not be possible to deploy booms using a boat. In this case, measures are taken to protect sensitive and accessible shoreline. The oil slick is monitored to determine the direction of migration. In the absence of strong winds the oil will likely flow towards the discharge of the lake. Measures are taken to block and concentrate the oil slick at the lake discharge using booms where it will subsequently be recovered using a portable skimmer, a vacuum, or sorbent materials.

In small slowly-flowing rivers, streams, channels, inlets or ditches, inverted weirs (i.e., siphon dams) is used to stop and concentrate moving oil for collection while allowing water to continue to flow unimpeded. In the case of floating oil, in a stream, heading for a culvert (i.e., at a road crossing) a culvert block is used to stop and concentrate moving oil for collection while allowing water to continue to flow unimpeded. In both cases oil will then be recovered using a portable skimmer or sorbent materials.

In the case of spills in larger rivers, with fast moving currents, diversion booming is used to direct the oil slick ashore for recovery. Single or multiple booms (i.e., cascading) may be used for diversion. Typically, the booms are anchored across the river at an angle. The angle will depend on the current velocity. Choosing a section of a river that is both wider and shallower makes boom deployment easier. Diversion booming may also be used to direct an oil slick away from a sensitive area to be protected.

Spills in the marine environment occurring during fuel offload will be managed in accordance with the OPPP&OPEP and the Shipboard Oil Pollution Emergency Plan (SOPEP) required by Transport Canada.

6.6.3 SPILLS ON SNOW AND ICE

In general, snow and ice will slow the movement of hydrocarbons. The presence of snow may also hide the oil slick and make it more difficult to follow its progression. Snow is generally a good natural sorbent, as hydrocarbons have a tendency to be soaked up by snow through capillary action. However, the use of snow as a sorbent material is to be limited as much as possible. Snow and frozen ground also prevent hydrocarbons from migrating down into soil or at least slow the migration process. Ice prevents seepage of fuel into the water.

Response to spills on snow and ice includes the general procedures previously detailed. Most response procedures for spills on land may be used for spills on snow and ice. The use of dykes (i.e., compacted snow berms lined with plastic sheeting) or trenches (dug in ice) slow the progression of the fuel and also serve as containment to allow recovery of the fuel. Free-product is recovered by using a vacuum, a pump, or sorbent materials. Contaminated snow and ice is scraped up manually or using heavy equipment depending on volumes. The contaminated snow and ice is placed in containers or within plastic lined berms on land. If required, a contaminated snow storage site is to be located in close proximity to one of the four (4) main work sites to facilitate inspection and monitoring, in an area which is still easily accessible once it is time to remove the snow (i.e., spring or summer), and at least 30 m away from any body of water or ditch. Once enough snow has melted, the oily water is removed from the storage and processed through an oil-water separator that would be mobilized to site. Hydrocarbons recovered will be burned in the camp incinerator or shipped off-site for processing.

6.7 RESPONSE BY MATERIAL SPILLED

6.7.1 FUEL

Detection of leaks will be using two methods - a fuel inventory reconciliation and inspection. A weekly reconciliation of storage volumes will be completed and a spill response will be initiated in the event of any unexplained loss over five or more weeks.

Weekly inspections will be conducted to ensure either there has not been a leak or that the conditions of the area could result in a leak. These inspections will include the fuel drums and storage containers, secondary containment sumps and associated spill containment devices, any pumps and product-handling equipment, and an overflow protection devices. These inspections will be recorded to include who completed the inspections, areas included in the visual inspection and any deficiencies noted.

Fuel spills, leaks at storage facilities or vehicle accidents will be handled by following these steps:

- ◆ Identify the source of the leak or spill.
- ◆ Contact the Environmental Coordinator/Site Superintendent.
- ◆ Stop leaks from tank or barrel by.
- ◆ Turning off valves.
- ◆ Utilizing patching kits to seal leaks.
- ◆ Placing plastic sheeting at the foot of the tank or barrel to prevent seepage into the ground.
- ◆ Contain the spill and the source if possible.
- ◆ Take photographs of the spill site before and after the cleanup.

Small spills will be cleaned up by removing the contaminated soil and storing it in empty 205 L drums for backhaul and disposal at an approved hazardous waste disposal site. Should a large spill occur, cleanup and disposal efforts will be coordinated as necessary with the appropriate authorities and agencies.

6.7.2 DOMESTIC SEWAGE, SOLID WASTE, AND CONTACT WATER

Any problems with the incinerator or other waste disposal mechanism will be immediately reported to the Site Superintendent.

In the event of a power failure, the stand by generator will be put into operation as soon as possible. Similarly, in the case of a pump failure, the backup pump will be put on-line. Any greywater drainage problems will be addressed as quickly as possible to minimize the chance of a spill. As necessary appropriate safety equipment and personal protective clothing will be available to site personnel.

6.7.3 CHEMICAL

Assess the hazard of the spilled material by referring to the relevant SDS sheet. Each response will vary based on the material. If the chemical is hazardous, ensure personnel protective equipment is utilized (latex gloves, eye protection, etc.) before approaching the spill. As chemicals are only used in extremely small quantities on-site use absorbent mats to soak up spilled liquids and place in appropriate container for treatment and/or disposal.

6.7.4 DRILLING SALT, BRINE OR CUTTINGS

The Back River exploration programs use salts to produce brine for use when necessary when drilling in permafrost. The salts lower the freezing point of the water helping prevent the drill rods from freezing

in. Calcium Chloride is used to create the brine. Salts are only added when drilling on land or through ground-fast ice and are recirculated in the sealed drilling process. In the winter and shoulder seasons the water is additionally heated to reduce freezing.

Drill equipment, including casings, are inspected daily to ensure suitable for use and water usage and return is monitored to ensure recirculation efficacy. To minimize spills, B2Gold Nunavut management practices include the installation of tarps underneath the rigs, coco matting, spill pads, drip trays, as well as a catchment basin for drips and return water directly where the bit enters the ground which houses an active sump pump.

The main risk of a salt and brine spill is to the environment, including both aquatic and terrestrial environments, and permafrost. However, care must be taken when handling the dry salts as well as the brine as they may be a skin irritant. Spill response for spills of dry salt product as well as of brine are outlined below:

6.7.4.1 SPILLS OF DRY PRODUCT

The source of the spill will be stopped as soon as possible. If there is risk of the spill entering a waterbody, all reasonable measures will be taken to prevent this from occurring. Spilled dry salt product will be picked up and repackaged for reuse if possible, if not it will be shipped off site to a licenced waste disposal facility. If appropriate, a shallow excavation of the material would be performed to remove contaminated material and minimize impact to downslope vegetation or waterbodies. Collected salt-contaminated soil will be disposed in one of the designated drill cuttings sumps.

6.7.4.2 BRINE SPILLS

The spill will be stopped as soon as possible, and, if feasible, the spilled brine will be pumped up (or if frozen; scraped up) and returned to the drilling circuit or to a drill cuttings sump. Similar to a hydrocarbon spill, a trench or diversion may be dug and lined with plastic to collect and remove flowing water. Additional remediation measures may be applied on a case-by-case basis.

6.7.4.3 SPILLS OF CUTTINGS

The spill will be stopped as soon as possible. Cuttings spills within 31 m of water or with the potential for direct flow into a waterbody will be removed to the extent practical and material placed in a designated cuttings sump. Runoff control measures may be placed downslope of the spill site if runoff of sediment to water is possible.

6.7.4.4 ARTESIAN FLOW

Should artesian flow be encountered while drilling, drilling will cease and the hole plugged and permanently sealed.

6.8 RESPONSE TO A FIRE

Various products, including fuel, may be flammable under certain circumstances. It is important to ensure that the spill does not present a risk of fire prior to commencing the cleanup. If a fire does break out refer to relevant site firefighting procedures.

6.9 DISPOSAL

Appropriate disposal, as directed by the Environmental Manager, for any recovered product and contaminated soil, water, or absorbent cleanup material is regulated and must be authorized by the agency investigating the incident. Obtain approval from all appropriate government agencies before disposal. A hazardous waste generator number has been acquired and used by the expeditor when disposing of camp waste.

Fuel contaminated soil can be remediated at camp through incineration or alternatively, the contaminated soil can be flown out to Yellowknife for disposal in an approved disposal/treatment site.

Any non-reusable recovered product, contaminated soil and cleanup material, which cannot be incinerated, will be stored in containers and returned to camp prior to disposal.

7. SPILL POTENTIAL ANALYSIS

7.1 CAMPS

7.1.1 FUEL

Fuel spills could potentially occur from:

- ◆ Fuel storage containment (tanks, barrels) leaks.
- ◆ Spills during drum transport from aircraft to fuel storage area.
- ◆ Spills from vehicles or equipment as a result of accidents.
- ◆ Spills during fuel transfer from barrels to equipment or heaters.
- ◆ Spills during transport from barge to fuel storage area.
- ◆ Spills during marine transport.

Spills occurring during fuel handling, transfer, or storage operations will be minimized by:

- ◆ Secondary containment and/or drip trays.
- ◆ Proper storage of barrels.
- ◆ Inspections of the storage facilities and barrels.
- ◆ Inventory tracking.
- ◆ Staff training in proper fuel handling procedures.
- ◆ Spill response training for personnel associated with fuel handling.
- ◆ Immediate cleanup of minor spills.
- ◆ Enclosing spigots on fuel containers with absorbent mat to collect any slow drips.
- ◆ Fuel line walkers will be used to monitor the fittings etc. during fuel transfers
- ◆ Implementation of approved OPPP&OPEP and SOPEP for transport in marine waters.

The potential for spills affecting surface waters is low, as fuel storage and transfer points are located away from watercourses and lakes. Close inspection of fuel transfer activities will be undertaken during all times while fuel is being pumped/transferred to equipment. Secondary containment will be used at all refueling points and storage areas.

7.1.2 DOMESTIC SEWAGE AND SOLID WASTE

Waste from the kitchen and Pacto systems are carried to the incinerator in a small trailer, with virtually no risk of spillage. The greywater lines are routinely inspected for leaks and repaired as necessary. The screens at the greywater sump are cleaned of debris daily.

7.1.3 SOLID WASTE

Failures may occur in the handling of solid waste through the following situations:

- ◆ Incinerator at Goose Exploration Camp fails.
- ◆ Accidental damage to the incinerator and its components, or the heaters and/or their fuel supplies.
- ◆ Mechanical breakdown.
- ◆ Improper maintenance.

Visual inspection of the incinerator and its combustion products will be carried out frequently, typically in the normal course of operation. The incinerator will be operated according to the manufacturer's instructions.

7.1.4 CHEMICALS

Any chemicals brought on-site are stored in manufacturers' approved packaging. Although unlikely, leaks may occur resulting in minor spills of chemical product in storage. It is more likely a leak will occur during the transfer of chemicals or from accidental failure of containers.

B2Gold Nunavut provides training to its staff in product handling and inspection procedures, which we feel, will result in reduced occurrences of chemical spills.

7.2 OVERLAND TRANSPORT

The following table identifies possible incidents which may occur along the winter road, the consequences of that incident and the preventative measures to be implemented.

Table 2. Summary of Potential Incidents and Preventative Measures along Transportation Corridors

Incident	Description	Consequences	Preventative Measures
Refueling of vehicles	Refueling hose could break, spring a leak, overfilling of equipment tank, spillage from gas storage tank	Puddles of fuel over limited area Hose breaks at equipment and sprays a large amount of fuel over a larger area "slick" flows steadily from equipment	All refueling will occur in area at least 31m from waterways in designated areas Personnel will be aware of emergency shut-off valves and trained in spills response Spill Kit available Refueling occur within containment and/or absorbent material in place
Vehicle storage and operation	Vehicles could leak fuel while in operation or during a stop along route.	Puddles of fuel over limited area to the entire contents of a tank being discharged.	Vehicles will stop 31 m from waterways Vehicles parked on ice will have absorbent material placed underneath Personnel will be trained in spills response Spill Kit available

(continued)

Table 3. Summary of Potential Incidents and Preventative Measures along Transportation Corridors (completed)

Incident	Description	Consequences	Preventative Measures
Fuel containers leaking	Fuel being brought to the vehicles could leak fuel while in operation or during a stop along route.	Puddles of fuel over limited area to the entire contents of a tank being discharged.	Regular visual inspection will occur to ensure tanks are not leaking Personnel will be trained in spills response Spill Kit available
Vehicle accident	Accident on road that involves equipment going off road/overturning	This worst case scenario could result in a tank of fuel and any materials being transported spilling entire contents over a large area.	Safe road corridor will flagged Speed limits will be in effect Transportation of Dangerous Goods manifest if necessary Coordination and communication between the cat-haul and camps will be maintained Camp personnel will be ready to mobilize in case of accident Spill kit available with cat-haul and on-site
Temporary fuel storage leakage and/or spill	Fuel caches leak fuel or due to accident contents are spilled	Puddles of fuel over limited area Storage container breaks and fuel spreads over a larger area	All storage will occur in area 30m from waterways Secondary containment berms will be used for fuel caches Personnel will be aware of emergency shut-off valves and trained in spills response Spill Kit available Regular monitoring and inventory tracking will occur at these remote/temporary fuel storage areas
Calcium Chloride spill	Bags of salt could be torn and spilled in temporary storage area or in transport	Tears and bag breakages could lead to salt spread over limited area Bags could break in a manner that salt is spread over a larger area	Personnel will be trained in proper material handling and transport methods Salt will be stored and transported in 50lb bags on pallets wrapped in plastic Secondary containment will be used at temporary storage locations Spill kits and equipment available.

7.3 FIRE PREVENTION

The most serious spill incident would involve fire and a hydrocarbon-based fuel source. To minimize the risk of fire, **No Smoking** and **Flammable** signs will be posted as needed at storage areas and with the cat-haul train along with a dry chemical fire extinguisher. Workers will be trained in the use of the fire extinguisher and be instructed of the risk caused by electrical and open flame fire hazards near fuel.

8. REPORTING PROCEDURES

All spills are to be reported to the Site Superintendent or their designated representative. It is their responsibility to notify headquarters staff and external parties as outlined in the roles and responsibilities of this plan.

An internal log of spills, no matter how small, is to be kept and maintained by the Site Superintendent. Each record will include date, location, material spilled, volume, reason for release, any negative impact, status of cleanup, and corrective actions taken. Photo's (before, during and after cleanup) shall also be taken of significant spills. An example internal B2Gold Nunavut Spill Form is included in Appendix C; these reports are filled in via SiteDocs.

Externally reportable spills, as identified in this plan, are to be reported to the NWT/Nunavut Spill Response Line. The Site Superintendent will ensure spills are reported externally as required. The Spill response form (Appendix B) is to be completed for all externally reported spills and forwarded to the NWT/Nunavut Spill Response Centre within the required 24 hour reporting period. The Manager, Logistics and TS, or their designate, will notify B2Gold Nunavut Headquarter senior management of any reportable spills as listed below.

Any spill, or incident that may likely result in a spill, of an amount equal to or greater than the amount listed in the table below shall be promptly externally reported. Spills adjacent to or into a surface water or ground water access shall be externally reported regardless of quantity.

Spills within secondary containment will be reported and included in the internal log. In the situation that the spill within the containment is above the thresholds noted below, an external report to the NWT/Nunavut Spills will be submitted if the spill exceeds 40% capacity of the secondary containment.

Notification of spills within the marine environment will also be provided to community representatives of Kingaok and Omingmaktok.

APPENDIX A. SPILL RESPONSE CONTACTS

Table A-1 Key Corporate Back River Project Emergency Contacts

Title	Contact Name	Telephone No.
Senior Vice President and Chief Operating Officer and Acting General Manager	Bill Lytle	1-604-681-8371
Director of Sustainability	Ken Jones	1-604-681-8371
Corporate Environment and Permitting Manager	Damien Treadwell	+61 418-184-951
Environment Manager	Merle Keefe	1-902-318-5671
Health and Safety Manager	Darren Parry	1-604-681-8371
Director of Indigenous & Northern Affairs	Andrew Moore	1-613-314-0705
Regional Director, Administration	Matthew Smallacombe	1-867-322-6844
Director of Corporate Communications	Cherry DeGeer	1-604-681-8371

Table A-2 Key Site Emergency Contacts

Title	Contact Name	Telephone No.
ERC and Incident Commander	Bradley Hogg / Glenn McGuire	250-910-0947 / 780.878.3193
Environmental Superintendent	Chris LeGoffe	867-336-1349
Health and Safety Superintendent	Paul Rheault/ Nadine Trodel	204-996-6387/306-530-9264
Safety Coordinator	Ben La Roque	519-520-7261
Operations Manager	Ben Scott / Clinton Wakefield	236-888-7985/604-768-6231
Emergency Medical Personnel	Advanced Medical Solutions (AMS)	Contacted via radio
Team Leaders	Situation dependant	Situation dependant
Communications Officer	Andrew Moore	1-613-314-0705

Table A-3 Key Government Contacts

Agency/Organization	Contact Name	Telephone/Fax No.
NT/NU 24hr Spill Report Line	-	Phone: 867-920-8130 Email: spills@gov.nt.ca
CIRNAC	Water Resources Manager	Phone: 867-975-4550 Email: nunavutwaters@aadnc-aadnc.gc.ca
	Land Administration Manager	Phone: 867-975-4280
	Northwest Territories' Regional Resource and Land Management	Email: rlm-grt@rcaanc-cirnac.gc.ca
	Environment Manager (NU)	Phone: 867-975-4549 Email: nunavutenvironment@aadnc-aadnc.gc.ca
Canadian Coast Guard (in the event of a spill to the marine environment)	-	(NT) Phone: 867-979-5269 (NU) Phone: 867-979-5269
Department of Fisheries and Oceans	-	Phone: 1-855-852-8320 Email: fisheriesprotection@dfo-mpo.gc.ca
ECCC	Manager of Enforcement	Phone: 867-669-4730 Fax: 867-669-6831
GN Department of Environment	Director Environmental Protection	Phone: 867-975-7748 Fax: 867-873-6924
KIA	Lands Inspector	Phone: 867-982-3310 x223
NWB	Exec. Director Manager of Licensing	Phone: 867-360-6338 Phone: 867-360-6338
Royal Canadian Mounted Police (RCMP) (Kugluktuk)	-	Phone: 867-982-2111
RCMP (Yellowknife)	-	Phone: 867-669-1111

Agency/Organization	Contact Name	Telephone/Fax No.
Workers Safety and Compensation Commission	CRSP, Chief Mining and OHS Inspector of the NT and NU	Phone: 867-920-3805
Transport Canada, Marine	Regional Preparedness and Response Officer	Phone: 780-442-1945 Fax: 780-495-8607

Table A-4 Key External Response Aid Contacts

Organization	Equipment Location/Service	Phone Number
Hope Bay Project	Melville Sound, adjacent to Bathurst Inlet, Nunavut	416-577-5829
Canadian Coast Guard (NU)	Air portable unit in Hay River, Bulk Supplies in Iqaluit and Churchill	867-979-5260 (in summer) 1-800-265-0237 (in winter/alternate)
Mackenzie Delta Response Corporation	Various locations N of 60	403-457-3661
Atlantic Emergency Response Team	Bay of Fundy, East Coast, Canada	506-202-4499
Eastern Canada Response Corporation Ltd.	Eastern Canada	613-230-7369
Western Canada Marine Response Corporation	West Coast, Canada	1-855-294-9116
Point Tupper Marine Services Ltd.	Nova Scotia, Canada	902-625-1711

* Refer to the OPEP for oil spill response in the marine environment.

Table A-5 Key Emergency Contacts in Case of Spills Affecting Wildlife

Name	Location	Contact Information	Purpose
Canadian Wildlife Services (CWS)	Yellowknife, NT	ec.enviroinfo.ec@canada.ca	<p>Knowing and providing information on the migratory bird resource and species at risk (under CWS jurisdiction) in the area of a spill (this includes damage assessment and restoration planning after the event).</p> <p>Minimizing the damage to birds by deterring oiled birds from becoming oiled.</p> <p>Ensuring the humane treatment of captured migratory birds and species at risk by determining the appropriate response and treatment strategies that may include euthanization or cleaning and rehabilitation.</p>

Name	Location	Contact Information	Purpose
Focus Wildlife	Vancouver, BC	1-800-578-3048; https://www.focuswildlife.org/	Oiled wildlife preparedness and response, including related permitting, and have mobile resources.
Cobequid Wildlife Rehabilitation Centre	Brookfield, NS	1-902-893-0253	Provide veterinary care and rehabilitation for wildlife.
Nunavut Emergency Management	PO Box 1000, Station 700 Iqaluit, NU X0A 0H0	1-800-693-1666	Nunavut Emergency Management is responsible for developing the territorial emergency response plans, coordinating general emergency operations at the territorial and regional levels, and supporting community emergency response operations.
International Bird Rescue	California and Alaska	1-888-447-7143	Wildlife rehabilitation specialists, can manage all aspects of wildlife response.

APPENDIX B. NWT/NU SPILL REPORT



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR		REPORT TIME		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	B		OCCURRENCE DATE: MONTH – DAY – YEAR			
C	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NUMBER (IF APPLICABLE)		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION				REGION <input type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE			LONGITUDE		
	DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS
F	RESPONSIBLE PARTY OR VESSEL NAME		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
G	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
I	SPILL SOURCE		SPILL CAUSE	AREA OF CONTAMINATION IN SQUARE METRES		
J	FACTORS AFFECTING SPILL OR RECOVERY		DESCRIBE ANY ASSISTANCE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS					
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE	
	M	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER	
		STATION OPERATOR		YELLOWKNIFE, NT	(867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

APPENDIX C. B2GOLD NUNAVUT INTERNAL SPILL REPORT



Spill Report

Information	
February 12, 2025	
Wednesday, February 12th 2025, 9:07 AM (MST -07:00)	
Report Information	
Report Date:	
Occurrence Date:	
Report Time:	
Occurrence Time:	
Site	
<input checked="" type="checkbox"/>	
Specific location of spill:	
GPS Coordinates - if GPS does not work enter Coordinates in next question:	
Coordinates North and West	
Was a Contractor Company involved?	
<input checked="" type="checkbox"/> Yes	
If yes, name of Contractor Company:	
Product Spilled:	
Quantity In Litres:	
Cause/ Source of spill:	
Area Of Contamination In Square Meters:	
Provide a detailed account of the incident, including the cause of the spill, the response measures implemented, and the steps taken to clean up and manage the spilled product and any contaminated materials.	
Reported To Environment By:	

Employer:



Additional Photos

Signatures

 February 12th 2025, 9:07 AM (MST -07:00)

 February 12th 2025, 11:08 AM (MST -07:00)

APPENDIX D. SITE SPILL KIT LOCATION MAPS




GENERAL NOTES

- 1. ALL MEASUREMENTS IN METRES UNLESS OTHERWISE NOTED
- 2. COORDINATE SYSTEM IS NAD83(CSRS)/UTM ZONE 13N

LEGEND

● Spill Kit Location	



1800 – 555 BARRARD ST. BOX 220
VANCOUVER, BC
V7X 1M9
t:604.998.4175

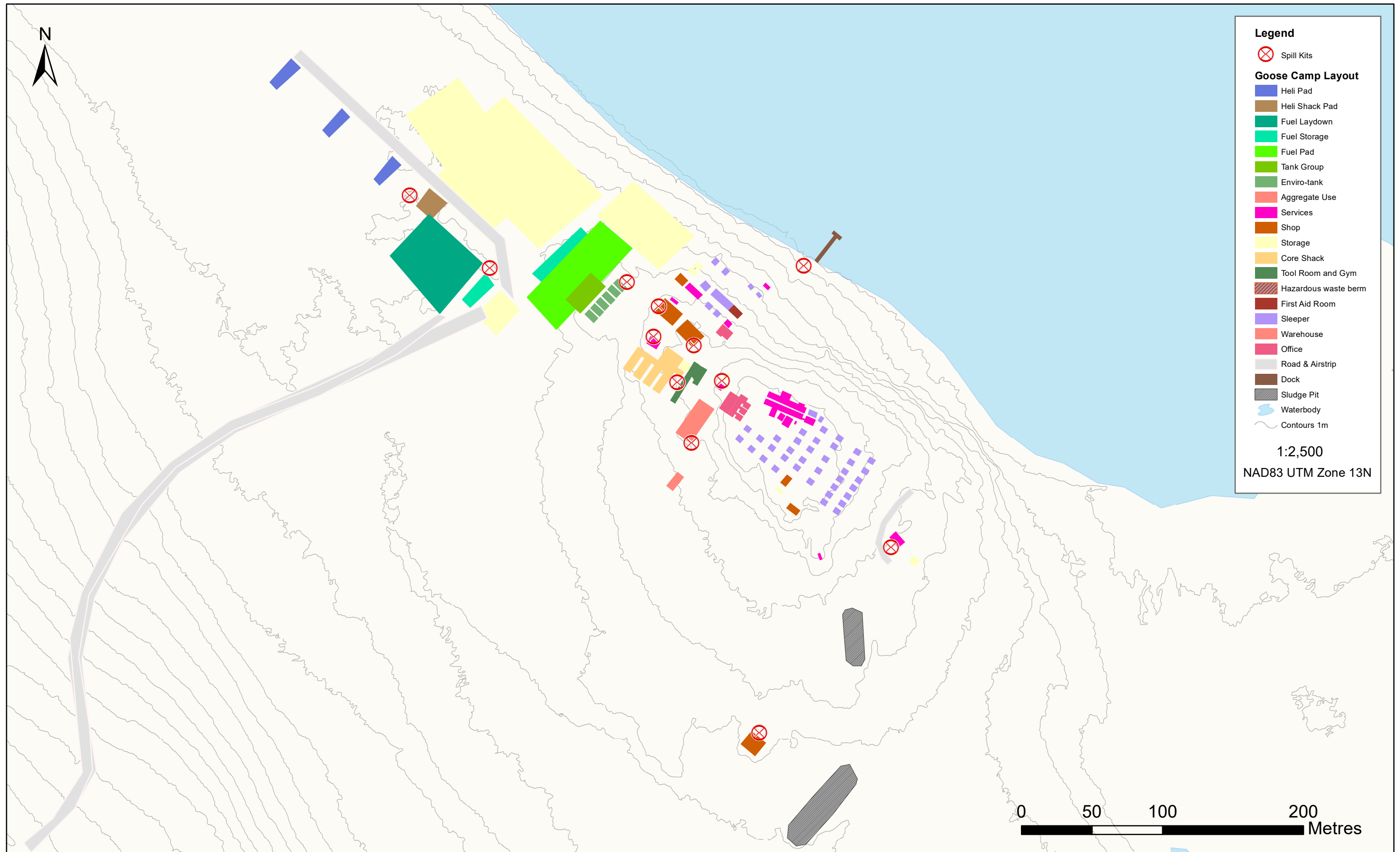


151 HOLLAND AVE SUITE 200
OTTAWA, ONTARIO
K1Y 0Y2
t:613.729.2402

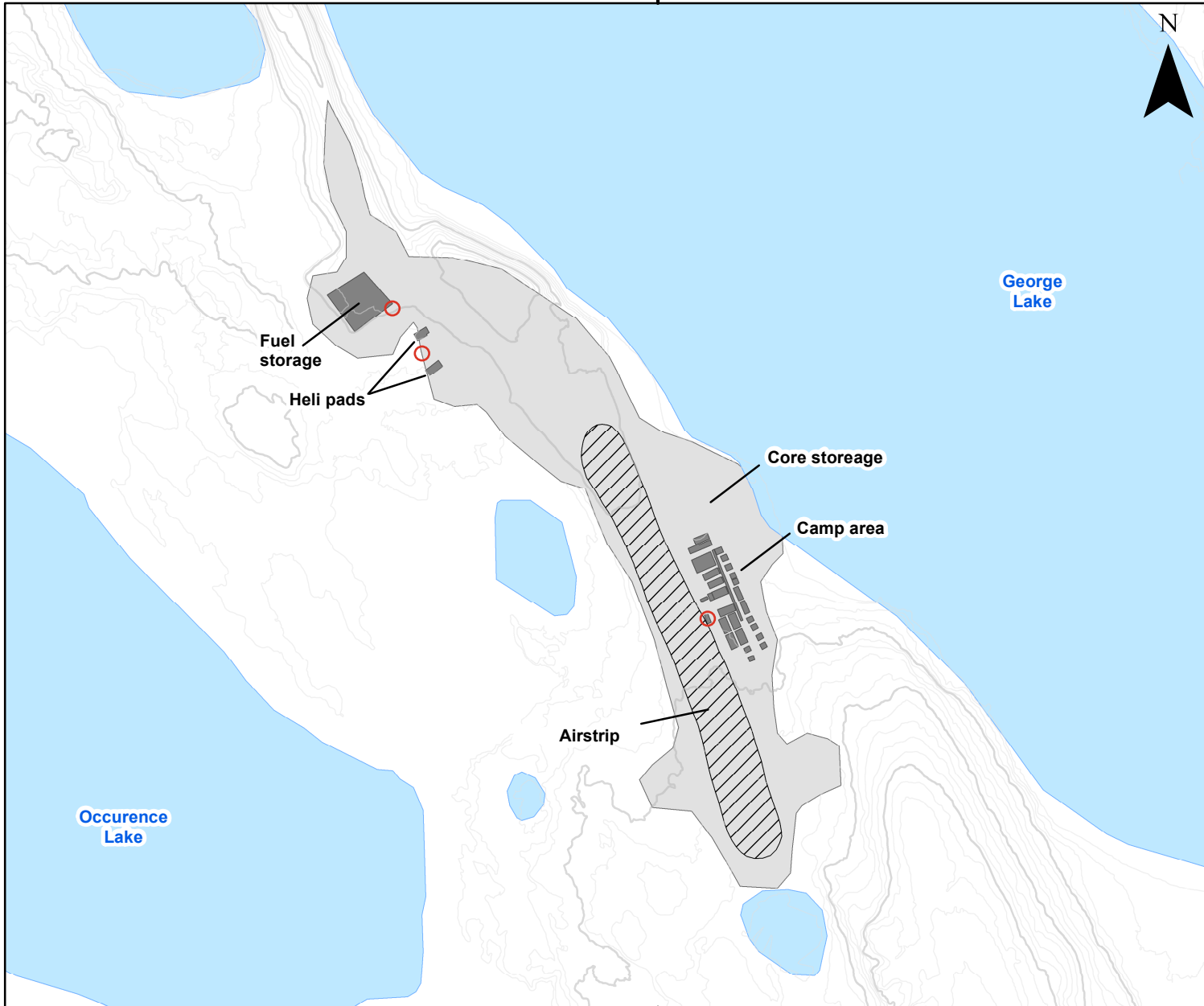
**B2Gold - Nunavut
BACK RIVER PROJECT- MARINE LANDING AREA
BASE MAP**

OUTCOME PROJECT NUMBER: P2021-27	DRAWN BY: J.MILLS	SCALE: 1:4000
CLIENT PROJECT NUMBER: 6100	CHECKED BY: C.BARDOEL	PUBLISH DATE: 2022-08-12
DRAWING NAME: 6100_SABINA MLA BASE MAP.dwg	SHEET NUMBER: 01	REV: 00








THIS DRAWING IS THE PROPERTY OF OUTCOME CONSULTANTS INC. AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY WITHOUT THE PERMISSION OF OUTCOME CONSULTANTS INC.



388000



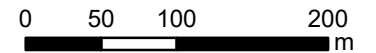
LEGEND

-  Camp buildings
-  Camp pad
-  Airstrip region
-  Waterbodies
-  5 m contours
-  1 m contours
-  Spill Kit

NOTES

REFERENCES

NAD83 UTM 13N
1:5:000



B2GOLD

George Camp
Back River Gold District, Nunavut
Site layout