



GOOSE PROJECT

MAY 2024 MONTHLY REPORT FOR WATER LICENCE 2AM-BRP1831

DATE

March 19, 2026

REFERENCE

Version 1.0



GOOSE PROJECT

MAY 2024 MONTHLY REPORT

In compliance with:
Water Licence 2AM-BRP1831 (Amendment No.1)

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 – ENGLISH

This report presents B2Gold Back River Corp.'s (B2Gold Nunavut's) May 2024 Monthly Monitoring Report for Water Licence 2AM-BRP1831 (Amendment No.1), also referred to as the Licence, issued by the Nunavut Water Board (NWB).

As set out in Part I, Item 18 of the Licence, B2Gold Nunavut is required to submit to the Board, within thirty (30) days following the month being reported, a Monthly Report. This report shall include:

- ◆ All data and information required by Part I and generated by the Monitoring Program in the Tables of Schedule I of the Licence;
- ◆ An assessment of data to identify areas of non-compliance with regulated Discharge parameters referred to in Part D and Part F of the Licence; and
- ◆ Documentation of conditions during spring freshet, major rain events, and periods of sustained precipitation including flow measurements, photographs, and notes.

AULAPKAIYINI NAITTUQ – INUINNAQTUN

Una uniudjut pidjutigiyaat B2Gold Back River Corp.'s (B2Gold Nunavut's) Qiqaiyarluarvia 2024 Tatqighiutini Munaridjutikkut Uniudjutit haffumunga Imakkut Laisia 2AM-BRP1831 (Ihuaqhaqtauyuq No.1), taiyauvaktuqlu Laisimik, tuniyauyuq hapkunanga Nunavunmi Imaliqiyit Katimayiinin (NWB).

Iliuraqtauhimajumi uvani Ilangani I, Item 18 uumani Laisimi, B2Gold Nunavut pitqujauhijajuq tuniluni Katimajiinnun, iluani thirtyni (30) ublunik talvannga tatqirhiutimi unniutidjutimi, uuminnga Tatqighiutimi Unniudjutimik. Una taiguagakhaq ilaliutiyukhaq:

- ◆ Tamaita naunaipkutit hivunihijutulu aturiaqaqtut Ilagiyaani I-mi hanayauhimagut Havaamit naunaipkutini Naunaipkut I-mi Laisiuyuup;
- ◆ Ihivgiugutit naunaiyautinik naunaiyagiangani humi maliktaungit maligaaqtut Iqainikkut kiklikhait titiraqhimayut uvani Ilangani D uvalu Ilangani F haffumani Laisimi; unalu
- ◆ Titiraqlugit qanuginiit upingaami mahaktiligaangat, nipalliopiaqnikkut, uvalu nipalukpalaqnikkut ilaayut kuuknikkut aktilaangit, piksat, uvalu titiraqhimayut.

RÉSUMÉ EXCÉUTIF – FRANÇAIS

Ce rapport présente le Rapport Mensuel de Suivi de B2Gold Back River Corp. (B2Gold Nunavut) de mai 2024 pour le Permis de l'Eau 2AM-BRP1831 (Amendement No.1) aussi appelé (le Permis) délivré par la Nunavut Water Board (NWB).

Comme indiqué dans la Partie I, Article 18 du Permis, B2Gold Nunavut a l'obligation de soumettre au Conseil dans les trente (30) jours suivant le mois concerné, un Rapport Mensuel. Ce rapport devra contenir:

- ◆ Toutes les données et informations requises par la Partie I et générées par le Programme de Suivi dans les tableaux de l'Annexe I du Permis;
- ◆ Une évaluation des données pour identifier les zones de non-conformité avec les paramètres de Décharge réglementés mentionnés dans la Partie D et la Partie F du Permis ; et
- ◆ Une documentation des conditions pendant la crue printanière, les événements de pluie majeure, et les périodes de précipitations soutenues, y compris des mesures de débit, des photographies et des notes.

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ACRONYMS AND ABBREVIATIONS

B2Gold Nunavut	B2Gold Back River Corporation
the Licence	Water Licence 2AM-BRP1831 (Amendment No.1)
MLA	Marine Laydown Area
The Goose Mine	Refers to the mining operation being developed within the Goose Claims Group, and includes the open pits, the underground mine, and the on-site infrastructure such as the WRSAs, tailings storage facilities, power infrastructure, and process plant
The Goose Project	Encompasses the Goose Claims Group, Goose Mine, the WIR and the MLA
STP	Sewage Treatment Plant
WIR	Winter Ice Road
WRSA	Waste Rock Storage Area

1. INTRODUCTION

The Goose Mine is a gold mine located within the western Kitikmeot Region of southwestern Nunavut. It is situated approximately 400 km southwest of Cambridge Bay, 95 km southeast of the southern end of Bathurst Inlet (Kingaok), and 520 km northeast of Yellowknife, Northwest Territories, as illustrated in Figure 1. The Mine is located predominantly within the Queen Maud Gulf Watershed.

This report to the Nunavut Water Board was prepared to satisfy the requirements for a Monthly Monitoring Report for May 2024 for B2Gold Back River Corp.'s (B2Gold Nunavut's) Goose Project in accordance with Part I, Item 18 of Water Licence 2AM-BRP1831 (Amendment No.1), also referred to as the Licence.

As required by Part I, Items 16 and 17, all analyses were performed in an accredited laboratory according to ISO/IEC Standard 17025 and conducted as described in the most recent edition of "*Standard Methods for the Examination of Water and Wastewater*" or by other such methods approved by an Analyst.

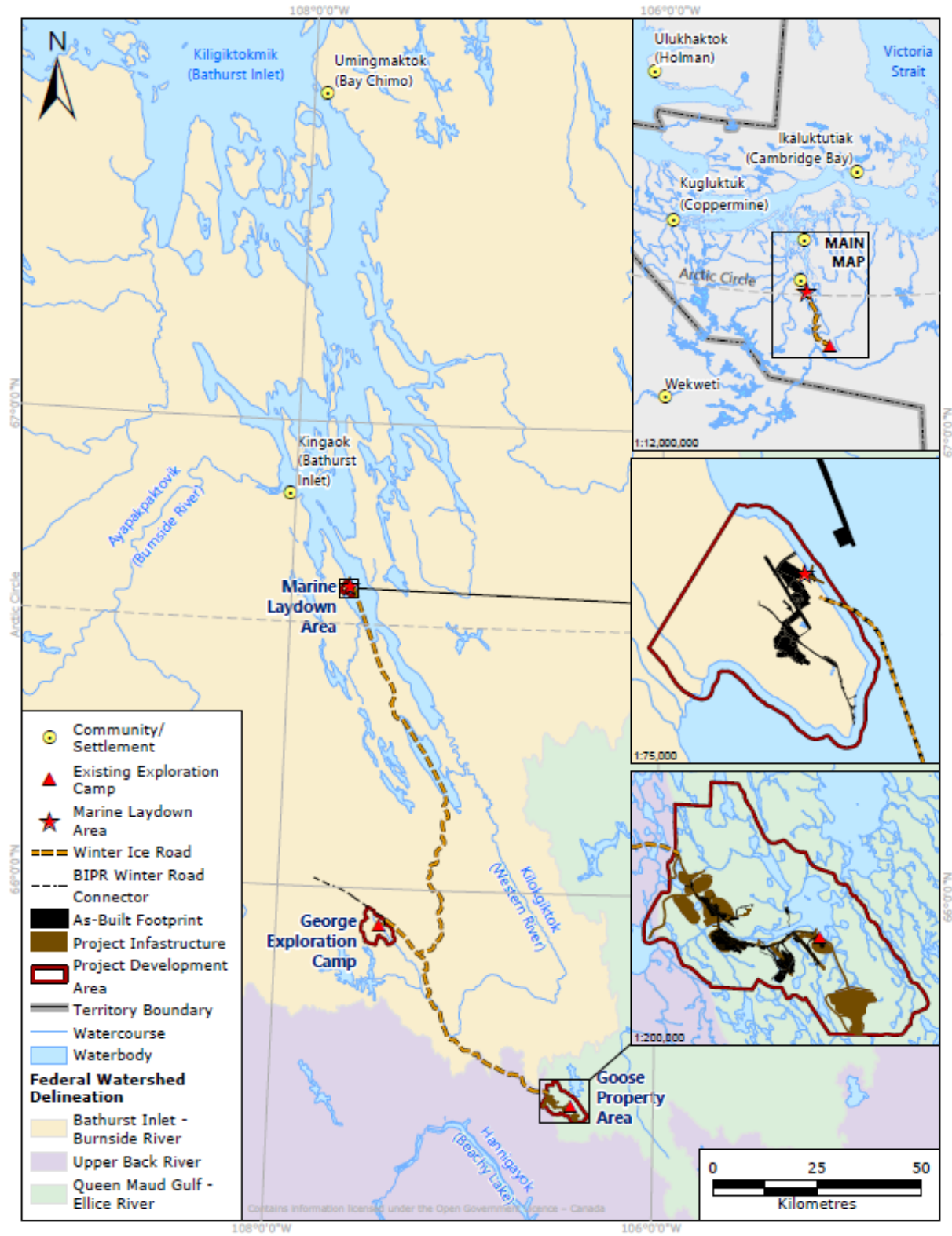


Figure 1 Goose Project Overview

2. REGULATORY REQUIREMENTS AND STATUS

2.1 PART I, Item 5

The Licensee shall, at least sixty (60) days prior to a change in Project Phase (Construction, Operations Stages), submit to the Board a written notification of the intent to change Project phase as per Part B, Item 9. Notifications may be provided separately or in accordance with the monthly monitoring report as per Part I, Item 18.

Compliance Status:

No change in Project Phase will occur over the next 60 days.

2.2 PART I, Item 8

The Licensee shall measure and record the following on a Monthly basis in cubic metres or as otherwise stated:

- a. The volume of fresh Water obtained from Big Lake;
- b. The volume of fresh Water obtained from Goose Lake;
- c. The volume of fresh Water obtained from MLA Pond S1, Pond S2, Lake 3, and Lake 4;
- d. The volume of fresh Water obtained from Llama Lake, Umwelt Lake, and other Water bodies approved by the Board for dewatering;
- e. The volume of fresh Water obtained from each Water source for the Interconnection Winter Ice Road and Winter Ice Road Service/Emergency Camps;
- f. The volume of Reclaim Water obtained from the Primary Water Pond, Tailings Storage Facility and/or Tailings Facilities for process Water at the process plant or alternative treatment system;
- g. The estimated volume of Greywater and Sewage released to the environment and/or to the Tailings Storage Facility and Tailings Facilities;
- h. The volume of sludge removed from the STP and the location and method of disposal;
- i. The volume of Effluent discharged from Landfarms, Fuel Tank Farms, and Fuel Storage Facilities;
- j. The estimated volume of Contact Water, WRSA Effluent, Ore Stockpile Effluent, or other Effluent/Water streams pumped into the Primary Water Pond, Tailings Storage Facility, Tailings Facilities, and/or transferred between ponds or facilities; and
- k. The volume of Effluent discharged at the Final Discharge Point.

Compliance Status:

The following is to comply with Part I, Item 8(a, b, c, d, e, f, g, h, i, and j, and k). The volumes of water obtained from Big Lake, Goose Lake, MLA Pond S1, MLA Pond S2, MLA Lake 3, MLA Lake 4, Llama Lake, Umwelt lake, and other water bodies approved for dewatering are provided in Table 2-1. The MLA used

seawater withdrawn from Bathurst Inlet. Goose Claims Group water use is undertaken under Water Licence 2BE-GOO2028.

Table 2-1 Volumes of Water Obtained from Approved Sources this Month

Sources	Volume Used (m ³)
Big Lake	0
Goose Lake	4,249.7
MLA Pond S1	0
MLA Pond S2	0
MLA Lake 3	0
MLA Lake 4	0
Llama Lake	0
Umwelt Lake	0
Other water bodies approved for dewatering	0

The volume of water obtained from each Winter Ice Road (WIR) water source this month is provided in Table 2-2. A total of 140 m³ of fresh water was used this month. The cumulative volume of water withdrawn from individual lakes was within the calculated withdrawal capacities presented in the WIR Technical Memorandum.

Table 2-2 Volumes of Water Obtained from Winter Ice Road Water Sources this Month

Sources	Volume Used this Month (m ³)	Cumulative Volume Used this WIR Season (m ³)	Available Capacity (m ³)
1	0	1,299	39,603
10	0	1,897	29,503*
10A	0	340	4,763*
11	0	898	98,188
12	0	1,197	213,902*
12B	0	42	N/A
13	0	3,007	148,482*
13A	0	84	15,112
13B	0	196	N/A
14	0	4,774	214,666*
14A	0	42	359,780
14B	0	84	13,005*
14C	0	1,607	9,151*
15	0	1,978	237,327
15B	0	56	34,749*
16	0	850	447,685

Sources	Volume Used this Month (m ³)	Cumulative Volume Used this WIR Season (m ³)	Available Capacity (m ³)
16B	0	140	6,297*
17	0	833	1,239,167
18	0	2,276	128,478
18B	0	175	N/A
19	0	3,688	9,827
19A	0	56	9,193*
19B	0	14	N/A
2	0	1,098	53,507
20	0	2,935	1,060,454
20A	0	329	12,160*
21	0	1,741	54,345*
21A	0	49	4,106*
22	0	785	91,867*
23	0	2,582	39,637
24	0	2,508	59,995
25	42	2,784	80,746
26	0	23	6,992
27	0	3,370	7,438*
28	0	2,787	23,951
28A	0	1,218	4,009*
29	0	1,935	211,044
2A	0	498	8,600*
2B	0	228	10,549*
2C	0	786	8,149*
3	0	2,555	79,375
30	98	4,269	56,674
32	0	8,803	868,067
32 Pond 1	0	273	2,766*
34 (Bathurst Lake)	0	14,439	32,516,148
3A	0	42	5,997*
4	0	1,504	19,379
4A	0	427	74,890*
4B	0	56	N/A
5	0	803	22,275*
5A	0	195	396,107*
6	0	1,797	25,362

Sources	Volume Used this Month (m ³)	Cumulative Volume Used this WIR Season (m ³)	Available Capacity (m ³)
7	0	98	424,972
8	0	2,809	113,798
8A	0	1,779	5,502*
8B	0	1,224	5,651*
9	0	2,632	53,703
9A	0	298	3,892*
9B	0	1,285	6,927*
Goose Lake	0	122	608,700*
No Name Lake	0	252	3,227*
Small Lake	0	126	N/A
Waterfall Lake	0	154	N/A
Unknown	0	364	N/A
Total	140	97,490	

Notes:

*Available capacities of these lakes were calculated based on lake surface area multiplied by 10 cm. Capacity shown for Goose Lake is the total allowable water use for all purposes as defined in the Licence.

N/A = available capacities could not be calculated because the location and surface area of the waterbody could not be verified.

For all other lakes available capacity was that outlined in the WIR Technical Memorandum.

No reclaim water was obtained from these facilities for process Water at the process plant or alternative treatment system this month. These facilities have not yet been commissioned.

Approximately 2,104 m³ of treated effluent was released from the Goose Sewage Treatment Plan (STP) to the tundra this month. Estimated volumes of greywater released this month are presented in Table 2-3. Goose Claims Group greywater discharge is undertaken under Water Licence 2BE-GOO2028.

Table 2-3 Estimated Volumes of Greywater Released this Month

Locations	Volume (m ³)	Destination
MLA	363	Tundra
MLA Forward Camp	6*	Tundra
Goose Forward Camp	0	N/A

Notes:

Greywater discharge at the MLA was estimated as 80% of water desalinated. For dates where the volume of water desalinated was not available, volumes of desalinated water were estimated as the average per capita volume of water desalinated based on available data for the rest of that month and this was multiplied by the number of people occupying the MLA Accommodations Complex each day.

*Greywater discharge at the MLA Forward Camp was estimated from average per-capita greywater discharge for months with available data.

The volume of compressed, dewatered sludge removed from the Goose STP is estimated to be less than 30 m³ this month.

Approximately 20 m³ of water was discharged from the Goose Fuel Tank Farm (BRP-15) to the Plant Site this month. Details are provided in Section 3.

The Primary Water Pond, Tailings Storage Facility, and Tailings Facilities have not yet been constructed.

No effluent was discharged at the Final Discharge Point this month. Per Part F, Item 16 of the Licence, an Effluent Discharge Plan will be submitted to the Board at least 120 days prior to discharge of Effluent subject to Part F, Item 21 of the Licence.

2.3 PART I, Item 9

The Licensee shall measure and record the following on a Monthly basis in tonnes:

- a. Quantity of Waste placed within the Landfill(s) and Landfarm(s);
- b. Quantity of Waste Rock placed into, and total stored at, each Waste Storage Area and other locations approved by the Board;
- c. Dry tonnes of tailings placed into, and stored at, the Tailings Storage Facility and Tailings Facilities; and
- d. Quantity of ore stockpiled and ore processed through the processing plant.

Compliance Status:

The following is to comply with Part I, Item 9(a, b, c, d). Non-hazardous wastes identified as being suitable for landfilling on site per the Project's Landfill and Waste Management Plan were sent to the Echo Pit Waste Rock Storage Area (WRSA) landfill. Loads to the Echo Pit WRSA landfill were inadvertently not tracked in 2024 and are estimated as 20 m³ per day (~608 m³/month). No material was placed in either the Goose (BRP-51) or MLA (BRP-44) landfarm this month; these facilities are not yet commissioned.

The quantity of waste rock placed and stored at each WRSA and other locations approved by the Board are presented in Table 2-4.

Table 2-4 Quantity of Waste Rock Placed and Stored this Month

Location	Volume this Month (tonnes)	Cumulative Volume (tonnes)
Echo Pit WRSA	209,834	209,834

No tailings were placed into and stored at the Tailings Storage Facility and Tailings Facilities this month; these facilities have not yet been constructed.

A total of 15,563 tonnes of low grade ore and 20,126 tonnes mid grade ore was stockpiled this month.

2.4 PART I, Item 20

No additional monitoring has been imposed by the Inspector this month.

3. SCHEDULE I REQUIREMENTS

The following is to comply with Part 1, Item 4, which requires the Licensee to undertake the Monitoring Program provided in Table 1 and Table 2 of Schedule I.

A summary of monitoring activities completed this month to fulfill the requirements outlined in the Tables of Schedule I of the Licence is provided below. Non-compliances are identified where applicable.

There was no seepage observed this month but site runoff was observed during freshet. The MLA used seawater from Bathurst Inlet and greywater from the MLA was discharged to the tundra. The Goose STP was in use, with treated sewage effluent released to the tundra. Water was discharged from the Goose Fuel Tank Farm to the Plant Site. Freshwater was withdrawn under this Licence from Goose Lake and WIR proximal water bodies for construction of the WIR. Goose Claims Group water use and waste discharge is undertaken under Water Licence 2BE-GOO2028.

3.1 BRP-G General Site Runoff

Road runoff was observed entering Goose Lake at BRP-G-01, BRP-G-02, and BRP-G-03 during freshet. All samples met effluent quality limits for Project related surface runoff (Tables 3-1 to 3-3).

Table 3-1 Water Quality Data for BRP-G-01 Compared to Effluent Quality Limits

Parameter	Unit	Effluent Quality Limit		10-May-24	17-May-24	24-May-24
		Maximum Average Concentration	Maximum Concentration of Any Grab Sample			
pH	pH units	6 - 9.5	6 - 9.5	6.49	6.4	6.72
Total Suspended Solids	mg/L	50	100	3.3	14.3	6.3
Total Oil and Grease	mg/L	No visible sheen	No visible sheen	<5.0	<5.0	<5.0

Table 3-2 Water Quality Data for BRP-G-02 Compared to Effluent Quality Limits

Parameter	Unit	Effluent Quality Limit		10-May-24	24-May-24
		Maximum Average Concentration	Maximum Concentration of Any Grab Sample		
pH	pH units	6 - 9.5	6 - 9.5	6.03	6.6
Total Suspended Solids	mg/L	50	100	3.1	<3.0
Total Oil and Grease	mg/L	No visible sheen	No visible sheen	<5.0	<5.0

Table 3-3 Water Quality Data for BRP-G-03 Compared to Effluent Quality Limits

Parameter	Unit	Effluent Quality Limit		10-May-24	17-May-24	24-May-24
		Maximum Average Concentration	Maximum Concentration of Any Grab Sample			
pH	pH units	6 - 9.5	6 - 9.5	6.08	6.48	6.49
Total Suspended Solids	mg/L	50	100	15.3	5.7	9.5
Total Oil and Grease	mg/L	No visible sheen	No visible sheen	No visible sheen, <5.0	No visible sheen, <5.0	No visible sheen, <5.0

3.2 BRP-15 Goose Fuel Tank Farm

Approximately 20 m³ of water was discharged from the Goose Fuel Tank Farm to the Plant Site this month. Prior to discharge, a sample was collected and notification was provided to the Inspector. Discharge water quality met the required effluent quality limits except for total suspended solids. Given that the water was to be discharged to the Plant Site it was not expected to adversely affect the tundra or enter a freshwater environment. The full set of analytical results is presented in Appendix A.

Table 3-4 Water Quality Data for BRP-15 Compared to Effluent Quality Limits

Parameter	Unit	Effluent Quality Limit		16-May-2024
		Maximum Average Concentration	Maximum Concentration of Any Grab Sample	Goose Fuel Tank Farm
pH	pH units	6 - 9.5	6 - 9.5	7.46
Total Suspended Solids	mg/L	15	30	38.3
Total Oil and Grease	mg/L	5, no visible sheen	5, no visible sheen	<5.0
Benzene	mg/L	0.37	0.37	<0.0005
Toluene	mg/L	0.002	0.002	<0.00050
Ethylbenzene	mg/L	0.09	0.09	<0.0005
Lead	mg/L	0.1	0.1	0.00391

Note:

Shaded cells indicate values were outside of effluent quality limits.

3.3 BRP-17 Goose Property Sewage Treatment Plant

The Goose Property STP discharges treated effluent to land in a manner to allow further over land treatment of the effluent prior to entering the freshwater receiving environment. The volume of treated sewage effluent discharged to the tundra this month is reported in Section 2.2. No flow or water was

available for sampling at sampling location BRP-17 likely due to the relatively small daily volumes discharged.

3.4 BRP-24 Goose Lake Intake

The total volume withdrawn from Goose Lake under this Licence this month is reported in Section 2.2.

3.5 BRP-42 MLA Greywater

The volume of greywater discharged at the MLA is reported in Section 2.2. No water was available for sampling at the sampling location downstream of the discharge point (BRP-42), likely due to the limited volume of discharge.

3.6 BRP-I Interconnection Winter Ice Road Proximal Water Bodies

The volume of water withdrawn from each lake for the WIR and WIR service/emergency camps is reported in Section 2.2.

APPENDIX A WATER QUALITY ANALYTICAL RESULTS

Table A-1 Water Quality Data for Goose Fuel Tank Farm

Date	Lowest Detection Limit	Unit	16-May-2024
Time			13:51:00
Station			BRP-15
Lab Job Number			YL2400433
Sample ID			YL2400433-001
Parameter			Goose Fuel Tank Farm
Ammonia (N)-Total	0.005	mg/L	0.272
Arsenic (As)-Total	0.00002	mg/L	0.0181
Benzene	0.0004	mg/L	<u>0.0005</u>
Bromofluorobenzene, 4-	1	%	84
BTEX, total	1	µg/L	<u>1</u>
Copper (Cu)-Total	0.00005	mg/L	0.0144
Difluorobenzene, 1,4-	1	%	98.2
Ethylbenzene	0.0004	mg/L	<u>0.0005</u>
Lead (Pb)-Total	0.000005	mg/L	0.00391
Methyl-tert-butyl ether (MTBE)	0.5	ug/L	<u>0.5</u>
Nickel (Ni)-Total	0.00002	mg/L	0.0384
pH	-	pH Units	7.46
Styrene	0.5	µg/L	<u>0.5</u>
Toluene	0.0004	mg/L	<u>0.0005</u>
Total Oil and Grease	2	mg/L	<u>5</u>
Total Suspended Solids	1	mg/L	38.3
Un-Ionized Ammonia	0.0005	mg/L	0.0021
Xylene, m+p-_Concentration	0.0004	mg/L	<u>0.0004</u>
Xylene, o-_Concentration	0.0003	mg/L	<u>0.0003</u>
Xylenes, total	0.5	µg/L	<u>0.5</u>
Zinc (Zn)-Total	0.0001	mg/L	0.0748

Note:

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