



Suite 4260 – 181 Bay St.

Toronto, ON M5J 2V1

info@stllrgold.com

www.stllrgold.com

28 October 2024

Ms. Anneli Jokela
#1-4905 48th Street
Yellowknife, NT X1A 3S3

Re: Nighthawk Gold Corp. – Water Management Plan Version 1.1 – Land Use Permit W2021C009, Water Licence W2021L2-0004 and W2021L2-0005 – Indin Lake Gold Project, NT

Dear Ms. Jokela,

The Wek'èezhii Land and Water Board (WLWB) issued Type A Land Use Permit W2021C0009 and Type A Water Licences W2021L2-0004 (non-federal) and W2021L2-0005 (federal) to Nighthawk Gold Corporation (Nighthawk) for the Indin Lake Gold Project on 13 January 2023. Nighthawk submitted Version 1.0 of the Water Management Plan to the WLWB on 21 April 2023 for approval in accordance with Part F, Condition 4 (W2021L2-0004), Part F, Condition 4 (W2021L2-0005), and with the Mackenzie Valley Land and Water Board (MVLWB) *Standard Outline for Management Plans*. The WLWB issued a Reasons for Decision on 1 March 2024, directing Nighthawk to submit Version 1.1 of the Water Management Plan with Revisions #1 to 5. Nighthawk is submitting the enclosed Version 1.1 of the Water Management Plan to address the WLWB Reasons for Decision.

The enclosed plan and cover letter include the following per the Land and Water Boards of the Mackenzie Valley *Document Submission Standards* (February 2023) and the WLWB Reasons for Decision (WLWB 2024):



1. Revision History Table (provided in the front section of the Water Management Plan).
2. Conformity table for requirements of Schedule 4 in W2021L2-0004 and W2021L2-0005 (Table 1 below and Section 1.2 of the Water Management Plan).
3. Concordance table for requirements outlined in the WLWB Reasons for Decision on Version 1.0 of the Water Management Plan (Table 2 below).

Nighthawk engaged with the Tłıchǵ Government, the Government of Northwest Territories, and Environment and Climate Change Canada in advance of submission of Version 1.0, and incorporated revisions based on their preliminary comments. Further revisions were also incorporated based on comments provided during the Online Review System process.

As directed by the Board in the Reasons for Decision, additional engagement was completed with CIRNAC-CARD on 19 June 2024 regarding water sources listed in the Water Licences and Water Management Plan, Version 1.0. CIRNAC-CARD noted that Type A Water Licences W2021L2-0004 (non-federal) and W2021L2-0005 (federal) include the following water sources that conflict with the Colomac Site Restrictions:

- Unnamed Lakes 13788, 13234, 13259, 13944, 14270, 13159
- Spanner Lake

CIRNAC-CARD indicated that it did not have concerns with Nighthawk retaining the permitted water sources in Water Licences W2021L2-0004 and W2021L2-0005 if there was clear agreement that Nighthawk would not withdraw water from these lakes. In addition, it was agreed that Steeves Lake and Baton Lake would remain as permitted water sources for joint use by CIRNAC-CARD, and that Nighthawk would continue to provide the quantities of water used from Steeves Lake and Baton Lake to CIRNAC-CARD on an on-going basis.

WLWB staff were briefed on the engagement with CIRNAC-CARD at a meeting with Nighthawk on 8 July 2024. A follow-up meeting was also conducted with WLWB on 15 August 2024 to discuss the process for updating the Water Management Plan to remove the overlapping water sources. As a result of these meetings and follow-up email communications with Board staff, Nighthawk confirms the following:

- Water sources that conflict with the Colomac Site Restrictions have been removed from Appendix A of the Water Management Plan, Version 1.1 (i.e., Unnamed Lakes 13788, 13234, 13259, 13944, 14270, 13159, and Spanner Lake)
- Nighthawk agrees that it will not use water sources that conflict with the Colomac Site Restrictions, even though they are included in the list of authorized water sources in Annex B of the Licences.



This commitment reflects the conveyance agreement between Nighthawk and the federal government, which is further upheld through removal of these sources from the Water Management Plan.

- Nighthawk do not propose requesting an amendment to remove these water sources from Type A Water Licences W2021L2-0004 (non-federal) and W2021L2-0005 (federal) but is open to further discussions about removing these sources from the Water Licences via an administrative update should that be possible.

If you require any additional information, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads 'John McBride' in a cursive script.

John McBride
Vice President Exploration



Table 1: Water Licence Conformity Table

Requirement (Schedule 4, Part 1 of Water Licences W2021L2-0004 and W2021L2-0005)	Section of Water Management Plan, v1.1
a) Information regarding Water, Wastewater management, including:	4.0
i. a summary, of all the Water and Wastewater streams and management system(s);	4.2, 4.3
ii. maps and/or diagrams of all the Water and Wastewater streams, management systems, and monitoring locations, from Water sources through the Receiving Environment;	2.3.1 (Figure 4) 4.3.2 (Figure 5) 4.3.3 (Figure 7)
iii. a description of the process and facilities, including duration of use, intended for the purposes of:	4.2, 4.3
1. obtaining fresh water for Project use;	4.2
2. management of any grey water and wastewater resulting from site activities;	4.3.1, 4.3.2, 4.3.4
3. management of discharge of effluent from site.	4.3.4
b) Water balance estimates on a monthly basis for each year of the proposed License, including:	4.4
i. a description of when the Water balance will be recalculated; and	4.4
ii. a description of when changes to the Water balance will require updates to the Water Management Plan.	4.4, 7.0
c) Water quality objectives with supporting rationale;	4.3.4.3
d) Information regarding monitoring including:	5.0
i. details of monitoring, including a rationale for each component of the Water management system; and	5.1.1, 5.2.1
ii. linkages to other monitoring programs required in this Licence.	1.3, 5.0
e) Information about responses to monitoring results:	5.1.2, 5.2.2
i. a description of the response and actions that will be implemented by the Licensee to link the results of monitoring to those corrective actions necessary to ensure that the objectives referred to in Part F, Condition 1 of the Licence are met including:	5.1.2, 5.2.2
1. definitions, with rationale for applicable action levels for surface water quality and toxicity; and	5.1.2
2. for each trigger, a description of how exceedances will be assessed, and generally which types of actions may be taken if a action level is exceeded.	5.1.2
f) A description of how climate change has been considered, including any linkages to other plans required under this Licence; and	3.0
g) Any other information required to describe how Water and Wastewater will be managed such that the objectives listed in Part F, Condition 1 will be met.	4.0, 5.0



Table 2: Concordance Table for WLWB Reasons for Decision on Version 1.0 of the Water Management Plan

Decision # ^(a)	Revision # ^(a)	Description	Response	Section addressed in Water Management Plan version 1.1
1	-	The Board has not approved Version 1.0 of the Water Management Plan.	Nighthawk is submitting Version 1.1 of the Water Management Plan.	Water Management Plan, Version 1.1
2	-	The Board directs Nighthawk to submit version 1.1 of the Water Management Plan with Revisions #1 to 5. Nighthawk should work with Board staff to determine a date of submission of Version 1.1.	Nighthawk is submitting Water Management Plan, Version 1.1, along with this cover letter, as instructed during meetings (see cover letter) and email communication from WLWB staff provided on 4 September 2024. The email outlined that there was no set deadline for submission of Water Management Plan, Version 1.1, but requested it “as soon as possible” once the suggested path forward was provided by WLWB staff.	Water Management Plan, Version 1.1
3	-	The Board requires Nighthawk to reach out to Board staff to discuss a process for updating the Licences to remove the following water sources: Unnamed Lakes 13788, 13234, 13259, 13944, 14270, and 13159; and Spanner Lake.	Nighthawk met with WLWB staff on 15 August to discuss the process for updating the Licences and/or the Water Management Plan to remove water sources. Details of the outcome of the meeting are provided in the cover letter. Water sources have been removed from Annex A of the Water Management Plan, Version 1.1.	Cover Letter; Appendix A
4	-	The Board directs Nighthawk to engage with CIRNAC-CARD on the use of Steeves Lake and Baton Lake as water sources and report back to the Board as soon as possible.	Nighthawk engaged with CIRNAC-CARD on the use of Steeves Lake and Baton Lake as water sources on 19 June 2024 and reported back to the WLWB on 8 July 2024. Steeves Lake and Baton Lake remain in the Water Management Plan, as agreed to with CIRNAC-CARD. Nighthawk will continue to provide the quantities of water used from Steeves Lake and Baton Lake to CIRNAC-CARD on an on-going basis to support Water Licence reporting requirements.	Cover Letter



Decision # ^(a)	Revision # ^(a)	Description	Response	Section addressed in Water Management Plan version 1.1
5	-	The Board requires Nighthawk to include information on the management of the core sediment bags in the next versions of the Waste Management Plan and the Interim Closure and Reclamation Plan.	Nighthawk will include information on the management of the sediment/soil cuttings stored in the old quarry in the next versions of the Waste Management Plan and the Interim Closure and Reclamation Plan, as appropriate.	n/a
-	1	The Board requires Nighthawk to update the response framework in Version 1.1 in consideration of the comments from the Public Review on Version 1 of the Water Management Plan and the Board's Reasons for Decision on the Type A Water Licences.	The response framework has been updated in consideration of comments on the Water Management Plan, Version 1.0 and the Board's Reasons for Decision. Emphasis has been placed on responses prior to an effluent quality criteria exceedance at SNP 5-6.	Section 5.1.2
-	2	The Board requires Nighthawk to remove the following water sources from Version 1.1 of the Water Management Plan: Unnamed Lakes 13788, 13234, 13259, 13944, 14270, and 13159; and Spanner Lake.	Unnamed Lakes 13788, 13234, 13259, 13944, 14270, and 13159, and Spanner Lake have been removed from Water Management Plan, Version 1.1. Nighthawk commits to not using these water sources, as agreed to with CIRNAC-CARD.	Appendix A
-	3	The Board requires Nighthawk to include additional information in Version 1.1 of the Water Management Plan, including but not limited to the following: a) Comment on any risks to the Receiving Environment from runoff/infiltration of water that has been in contact with the core sediment bags, including rationale; b) any mitigations for water that has been in contact with the core sediment bags, including rationale; c) a figure that includes the location of the historical quarry and where the bags are stored within the quarry.	Additional information and clarification have been provided on the characteristics and management of the sediment/soil cuttings stored in the old quarry in the Water Management Plan, Version 1.1, including risks to the receiving environment, mitigations/management, and rationale. Figure 2 has been updated to include the location of the historical quarry and Appendix B has been added to include photographs of the sediment and quarry.	Section 4.3.1; Figure 2; Appendix B



Decision # ^(a)	Revision # ^(a)	Description	Response	Section addressed in Water Management Plan version 1.1
-	4	The Board requires Nighthawk to include the response framework for the waste rock pile runoff as a water management strategy in the bulleted list in section 4.1 of Version 1.1 of the Water Management Plan.	The response framework for the rock pile runoff/discharge has been included in the bulleted list of water management strategies in Section 4.1.	Section 4.1
-	5	Update section 4.3.2 with a description of how Nighthawk might choose a location for a sump within 100 m of the ordinary high-water mark, with an emphasis that the location must first be approved in writing by the Inspector prior to use (as per Condition 44 in Nighthawk's Land Use Permit (response to GNW-ECC comment 2).	A description of how Nighthawk would choose a location for a sump within 100 m of the ordinary high-water mark has been included in Section 4.3.2. The revised text clarifies that the location must be approved in writing by the Inspector prior to use per Condition 44 of Land Use Permit W2021C0009.	Section 4.3.2
		Remove reference to SNP station 5-10 from the Plan given this station is inactive (infilled in September 2022) (response to WLWB staff comment 1).	Reference to SNP 5-10 has been removed from Version 1.1 of the Water Management Plan.	Section 2.4.2
		Remove Table 3 from the Plan given water quality data is provided in bi-annual SNP reports (response to WLWB staff comment 3).	Table 3: Summary Statistics for Key Parameters from SNP 5-6, SNP 5-4, and SNP 5-5 has been removed from Version 1.1 of the Water Management Plan.	Section 2.4.2
		Update section 3.0 with additional information on how climate change will be considered in future versions of the Plan based on work at site (response to WLWB staff comment 4).	Additional information on how climate change will be considered in future versions of the Plan has been included in Version 1.1 of the Water Management Plan.	Section 3.0
		In section 4.4 of the Plan, include how the water balance was developed and include the water used for project activities in the water balance (response to WLWB staff comments 8 and 9).	Additional details on how the water balance was developed have been included in Version 1.1 of the Water Management Plan.	Section 4.4

(a) Decision # and Revision # as per WLWB Reasons for Decision on Version 1 of the Water Management Plan, letter dated 1 March 2024.



INDIN LAKE GOLD PROJECT

WATER MANAGEMENT PLAN

Version 1.1

Submitted to:

Wek'èezhìi Land and Water Board

#1-4905 48th St, Yellowknife, NT X1A 3S3

Telephone: (867) 765-4592

Fax: (867) 765-4593

Submitted by:

Nighthawk Gold Corp.

181 Bay St., Suite 4260

Toronto, Ontario M5J 2V1

Tel: (647) 794-4313

October 2024



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Appendix A: Water Sources for the Project

Appendix B: Photographs



VERSION HISTORY

The Water Management Plan (the Plan) is a living document, updated with currently available information. The table below is a revision history table that outlines the revisions made by Nighthawk Gold Corp. (Nighthawk). The summary of changes outlines the comments and conformance from the Wek'èezhii Land and Water Board (WLWB). The location of revised sections indicates the sections where the changes can be found. The current document is Version 1.1 and will be revised in future based on future comments from the WLWB and others.

Nighthawk Water Management Plan Revision History Table

Version	Item	Summary of Changes	Location of Revised Section(s)
1.0	-	First version	-
1.1	1	Reference to SNP station 5-10 removed from the Plan.	2.4.2
	2	Table 3 removed from the Plan given water quality data is provided in bi-annual SNP reports.	2.4.2
	3	Section 3.0 updated with additional information on how climate change will be considered in future versions of the Plan.	3.0
	4	The response framework for the waste rock pile run-off included as a water management strategy.	4.1
	5	Additional information provided on the characteristics and management of the sediment/soil cuttings stored in the old quarry. The location of the quarry and sediment has been added to Figure 2 and Appendix B has been added to include photographs of the sediment and quarry.	4.3.1; Appendix B
	6	A description of how Nighthawk would choose a location for a sump within 100 m of the ordinary high-water mark included, and text revised to clarify that the location must be approved in writing by the Inspector prior to use.	4.3.2
	7	Additional information added on how the water balance was developed, including water used for project activities.	4.4
	8	The response framework for the discharge location was updated in consideration of comments from the Public Review on Version 1.0 of the Water Management Plan and the Board's Reasons for Decision.	5.1.2
	9	The following water sources were removed from the Water Management Plan: Unnamed Lakes 13788, 13234, 13259, 13944, 14270, and 13159; and Spanner Lake.	Appendix A



1.0 INTRODUCTION

1.1 *Project Overview*

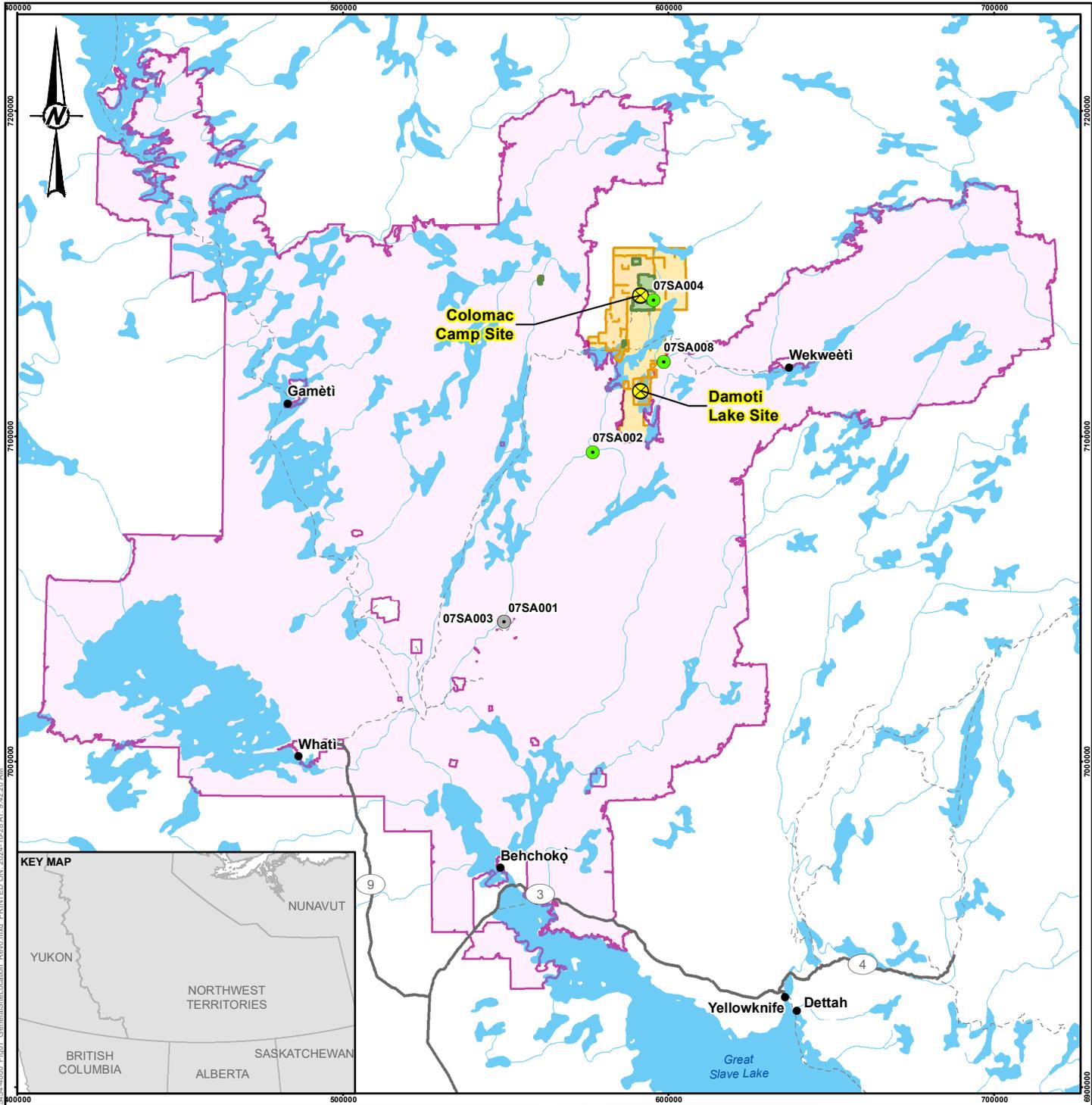
Nighthawk Gold Corp. (“Nighthawk”) owns and controls 100% of the mineral rights to the Indin Lake Gold Property (the Property) adjacent to Tłıchq Land in the Northwest Territories (Figure 1). Tłıchq communities near the Property include Behchokò, approximately 180 km to the south-southwest, Wekweètì approximately 50 km to the east-southeast, Whatì approximately 175 km to the southwest, and Gamètì approximately 110 km to the west-southwest. The city of Yellowknife is located approximately 220 km to the south-southeast of the Property.

The Property is a land package of owned mining leases within a north-trending continuous area approximately 60 km in length by 6 to 23 km in width, which covers 90% of the Indin Lake Volcanic-Sedimentary Belt.

The Colomac Mine, which comprises mining leases covering a former open pit gold operation and contiguous lands, is located within the northern portion of Nighthawk’s Indin Lake Gold Property. The Colomac Camp is the current base location for exploration drilling, logging, and related support, including field activities, on the Indin Lake Gold Property. The Colomac camp is located at latitude 64° 24’ 10.11” and longitude -115° 06’ 23.04” (UTM NAD 83, Zone 11, 7143262 m N, 591274 m E), as shown In Figure 1 and Figure 2.

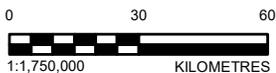
The Damoti Lake (Damoti) site, approximately 30 km south of the Colomac Mine, is also located within the overall Indin Lake Gold Property (Figure 1, Figure 3). The Damoti site is the location of former bulk sampling activities and the ongoing care and maintenance activities, including management of the waste rock and ore stockpiles, an underground portal, and associated seepage and discharges of water from the site to the downstream receiving environment.

Planned activities at the Property in the near-term (i.e., 2024 to 2026) include operation of the Colomac Camp, exploration drilling, winter road construction and maintenance, and continued care and maintenance of the Damoti site.



LEGEND

-  COLOMAC AND DAMOTI SITE
-  WATER SURVEY OF CANADA STATION (ACTIVE)
-  WATER SURVEY OF CANADA STATION (DISCONTINUED)
-  ALL-SEASON ROAD
-  WINTER ROAD
-  WATERCOURSE
-  FEDERAL MINERAL LEASE
-  NWT MINERAL LEASE
-  TŁCHQ LAND
-  WATERBODY



REFERENCE(S)

1. BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
 PROJECTION: UTM ZONE 11 DATUM: NAD83

CLIENT



PROJECT

INDIN LAKE GOLD PROPERTY – WATER MANAGEMENT PLAN

TITLE

GENERAL SITE LOCATION

CONSULTANT



YYYY-MM-DD	2024-10-28
DESIGNED	EH
PREPARED	MV
REVIEWED	MI
APPROVED	KS

PROJECT NO.

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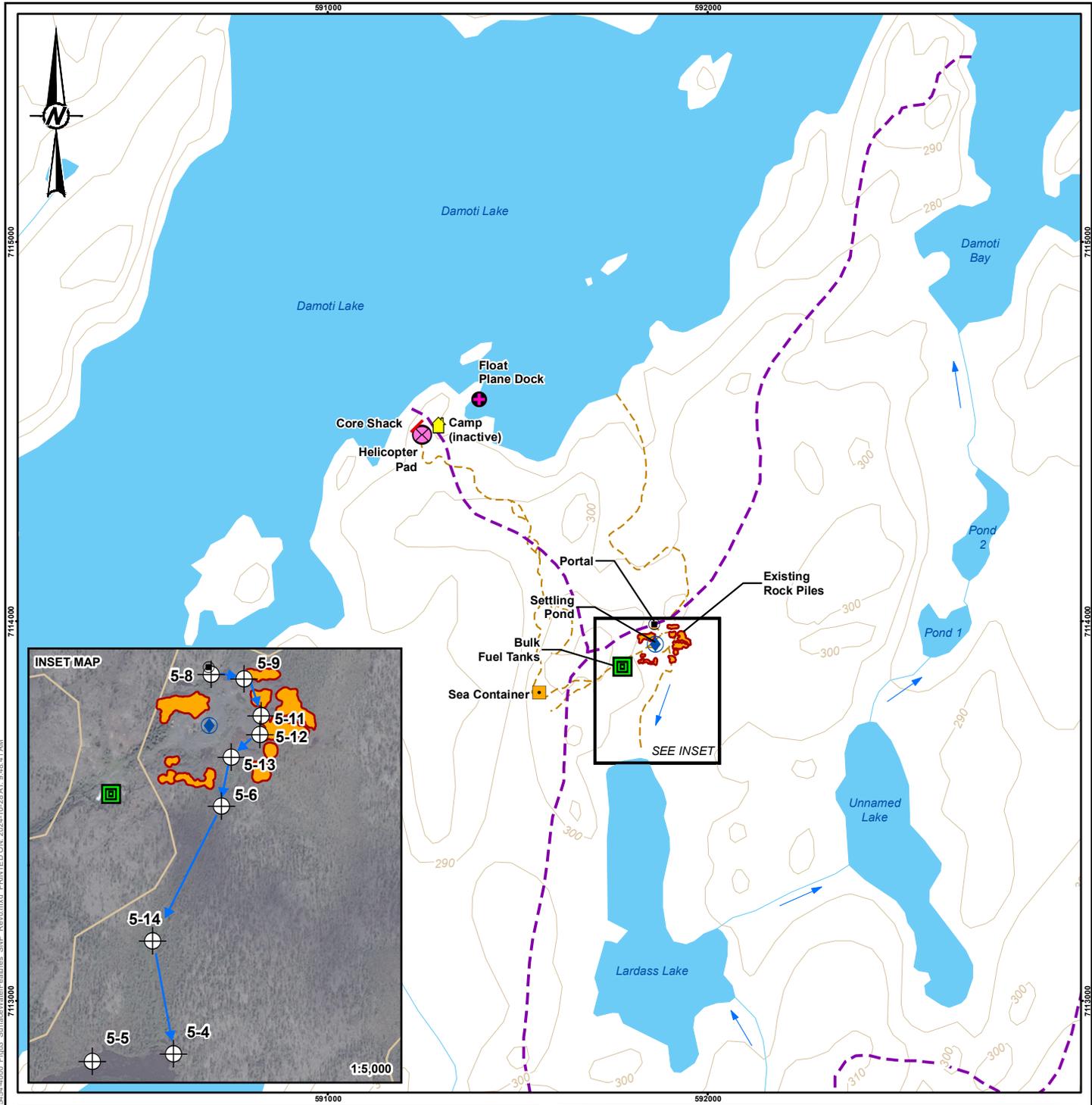
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FIGURE

1

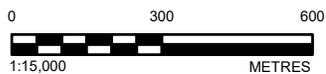
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI/A



LEGEND

- BULK FUEL TANKS
- CORE SHACK
- CAMP (INACTIVE)
- FLOAT PLANE DOCK
- HELICOPTER PAD
- SETTLING POND
- PORTAL
- SEA CONTAINER
- SNP SAMPLING LOCATION
- ELEVATION CONTOUR (M)
- FLOW DIRECTION
- TRAIL (APPROXIMATE)
- WATERCOURSE
- WATERSHED BOUNDARY (APPROXIMATE)
- EXISTING ROCK PILES
- WATERBODY



REFERENCE(S)

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CLIENT



PROJECT

INDIAN LAKE GOLD PROPERTY – WATER MANAGEMENT PLAN

TITLE

DAMOTI SITE, SURFACE WATER FEATURES, AND SNP SAMPLING LOCATIONS

CONSULTANT



YYYY-MM-DD 2024-10-28

DESIGNED MI

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APPROVED KS

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1.2 Water Management Plan Purpose and Scope

This Water Management Plan (the Plan) describes how water will be managed at the Property. The Plan will be reviewed on an annual basis and updated as required, as described in Section 7.0. It describes proposed activities, risks, potential impacts of these activities on water quantity and quality, and measures to mitigate these risks.

Water management activities included in the Plan are related to the following activities:

- Operation of the Colomac camp
- Exploration drilling
- Winter road construction and maintenance
- Care and maintenance of the Damoti site (specifically the portal and rock pile area, and drainage to Lardass Lake)

The content of the Plan is designed to meet the requirements of Schedule 4 of Water Licences W2021L2-0004 (non-federal) and W2021L2-0005 (federal) issued by the Wek'èezhìi Land and Water Board (WLWB) in January 2023 (WLWB 2023a,b). A concordance table highlighting Water Licence requirements and sections of this Plan where these requirements are addressed is provided in Table 1.

It is noted that closure and post-closure monitoring of the Colomac Mine is authorized under Water Licence W2021L8-0003 (WLWB 2021) and is the responsibility of Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC). These activities are not addressed in this Plan.

Table 1: Water Licence Conformity Table

Requirement (Schedule 4, Part 1 of Water Licences W2021L2-0004 and W2021L2-0005)	Section of this Plan
a) Information regarding Water, Wastewater management, including:	4.0
i. a summary, of all the Water and Wastewater streams and management system(s);	4.2, 4.3
ii. maps and/or diagrams of all the Water and Wastewater streams, management systems, and monitoring locations, from Water sources through the Receiving Environment;	2.3.1 (Figure 4) 4.3.2 (Figure 5) 4.3.3 (Figure 7)
iii. a description of the process and facilities, including duration of use, intended for the purposes of:	4.2, 4.3
1. obtaining fresh water for Project use;	4.2
2. management of any grey water and wastewater resulting from site activities;	4.3.1, 4.3.2, 4.3.4
3. management of discharge of effluent from site.	4.3.4
b) Water balance estimates on a monthly basis for each year of the proposed License, including:	4.4
i. a description of when the Water balance will be recalculated; and	4.4
ii. a description of when changes to the Water balance will require updates to the Water Management Plan.	4.4, 7.0
c) Water quality objectives with supporting rationale;	4.3.4.3



Requirement (Schedule 4, Part 1 of Water Licences W2021L2-0004 and W2021L2-0005)	Section of this Plan
d) Information regarding monitoring including:	5.0
i. details of monitoring, including a rationale for each component of the Water management system; and	5.1.1, 5.2.1
ii. linkages to other monitoring programs required in this Licence.	1.3, 5.0
e) Information about responses to monitoring results:	5.1.2, 5.2.2
i. a description of the response and actions that will be implemented by the Licensee to link the results of monitoring to those corrective actions necessary to ensure that the objectives referred to in Part F, Condition 1 of the Licence are met including:	5.1.2, 5.2.2
1. definitions, with rationale for applicable action levels for surface water quality and toxicity; and,	5.1.2
2. for each trigger, a description of how exceedances will be assessed and generally which types of actions may be taken if a action level is exceeded.	5.1.2
f) A description of how climate change has been considered, including any linkages to other plans required under this Licence; and	3.0
g) Any other information required to describe how Water and Wastewater will be managed such that the objectives listed in Part F, Condition 1 will be met.	4.0, 5.0

1.3 Plan Development and Linkages to Other Documents

The Plan incorporates engagement with stakeholders that has been conducted to: i) communicate planned activities and mitigations and ii) seek input from regulators and the Tłı̨chǫ Government. To support the development of this version of the Plan, engagement meetings were held with Environment and Climate Change Canada, the Government of Northwest Territories, and the Tłı̨chǫ Government on March 16, 2023. Matters discussed in that meeting were incorporated into this version of the Plan. Further revisions were incorporated based on comments provided during the Online Review System process and the WLWB Reasons for Decision on Version 1.0 of the Plan (WLWB 2024).

This Plan is intended to be a standalone document with respect to water management but has direct linkages with other documents associated with activities at the Property, including:

- Waste Management Plan
- Explosives Management Plan (to be developed and submitted a minimum of 90 days prior to explosives being brought to the site in future)
- Engagement Plan
- Spill Contingency Plan
- Interim Closure and Reclamation Plan for the Damoti Site
- Annual Water Licence Reports
- Surveillance Network Program (SNP) Monitoring Reports



2.0 ENVIRONMENTAL SETTING

2.1 *Physical Setting*

The Property is located in the Taiga Shield Eco-zone (eco-zone) (ESWG 1996). The eco-zone is largely defined by the Taiga Forest and the Canadian Shield, characterized by broadly rolling terrain composed of uplands and associated lakes and wetlands. The area has been glaciated and is characterized by a high percentage of bedrock outcrops, discontinuous hummocky and ridged morainal deposits. The eco-zone has the largest concentration of eskers in Canada, with one present in the vicinity of the Property on Esker Island (ESWG 1996). Lowlands are covered with peatlands and are commonly waterlogged or wet for prolonged periods. Permafrost in the eco-zone is discontinuous but widespread (ESWG 1996). Drilling activities and geoscientific work conducted in 2009 and 2010 by Nighthawk revealed evidence of historic permafrost at the surface; however, currently, permafrost is discontinuous and at various depths. Brunisolic and Humo-Ferric Podzolic soils are dominant in the southern portion of the eco-zone, and Cryosols occur mainly in the lowlands (Nighthawk 2023).

The Property is near the permafrost boundary that divides the continuous and discontinuous permafrost regions in the Arctic. Higher basin evapotranspiration in the discontinuous permafrost region results in lower basin run-off than in the continuous permafrost region (Nighthawk 2023). River basins in the continuous permafrost region have been reported to produce an average annual basin water yield (net run-off, calculated as precipitation minus evapotranspiration) of approximately 186 mm and those in the discontinuous permafrost region have been reported to produce an average annual basin water yield of approximately 113 mm (Golder 1998). Based on the Water Survey of Canada streamflow data of the Indin River above Chalco Lake (catchment area of 1,520 km²), the average annual basin water yield in the area was estimated to be 154 mm (Golder 1998).

2.2 *Climate*

The Property is located in the Coppermine Upland Ecological Region (eco-region) of the Taiga Shield Ecological Zone (eco-zone). The Property's eco-region is defined by two dominant features: the Taiga forest and the Canadian Shield (ESWG 1996).

The eco-region of the Property is classified as high sub-Arctic and is characterized by short summers with long daylight hours and long, very cold winters. The eco-region is a transition zone between the tundra and boreal forest. This eco-region has been reported to have a mean annual summer temperature of 9 degrees Celsius (°C) and the mean winter temperature of -24.5°C. The mean annual precipitation has been reported to range from 200 to 300 mm (ESWG 1996). Permafrost is discontinuous but widespread, and large areas of bare rock outcrops are common.



Gartner Lee Limited (Gartner Lee) measured the average annual air temperature at the Property during 2007 to be -5.6°C , with a maximum of 27.9°C occurring on June 28, 2007, and a minimum of -47.7°C , occurring on January 14, 2007 (Gartner Lee 2008). The nearest long-term operating meteorological station is in Yellowknife, operated by Environment and Climate Change Canada (ECCC 2023a). The mean monthly air temperatures from 1981 to 2010 recorded by ECCC range from -25.6°C in January to about 17.0°C in July (ECCC 2023b), with an average annual temperature of -4.3°C .

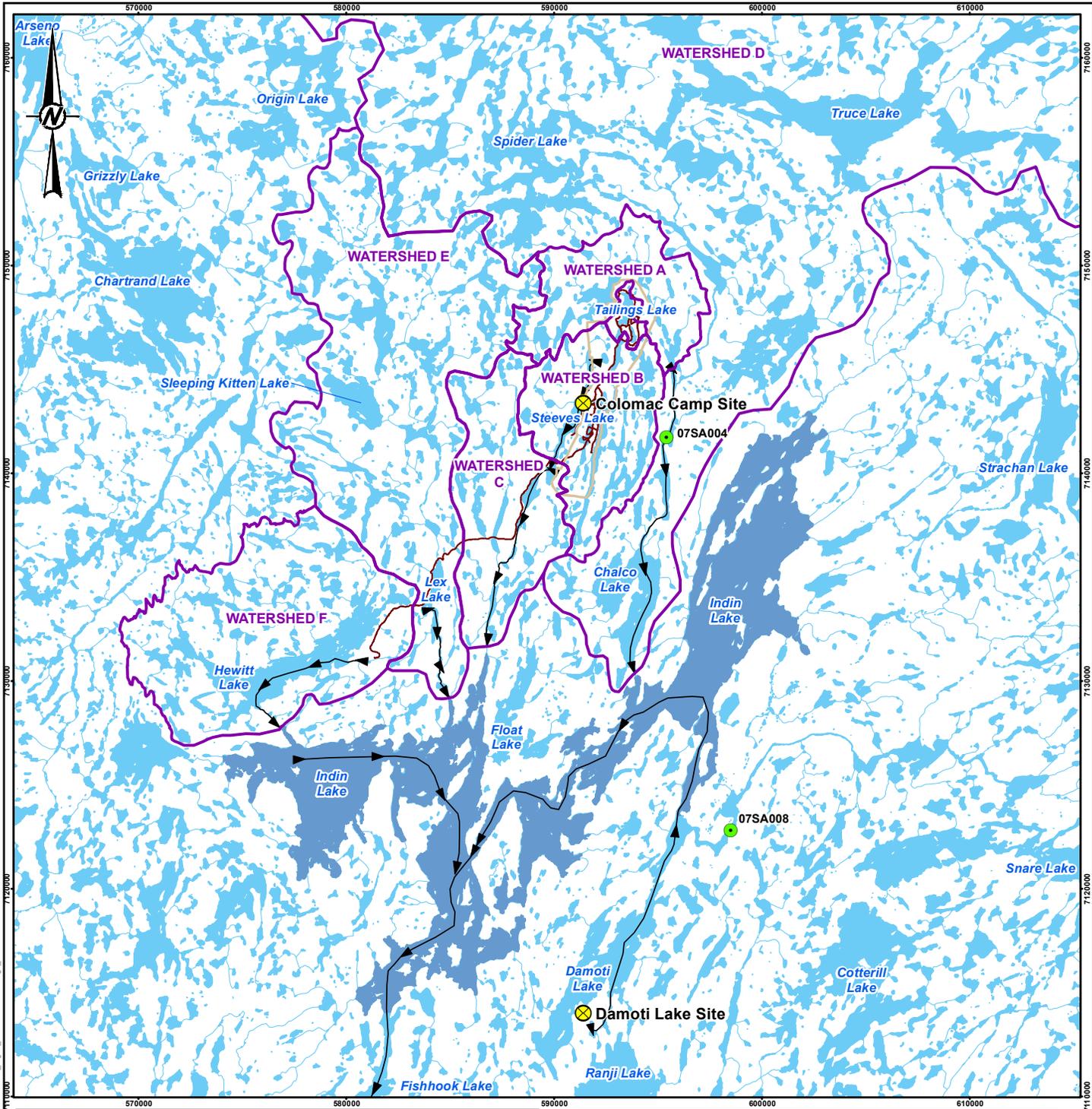
Wind speed and directional data were recorded at the Fortune NICO project meteorological station for the period of October 2004 to April 2008 (Fortune 2010). The NICO station is located approximately 102 km to the southeast of the Property in similar terrain and can be used as a reasonable approximation for wind conditions at the Property. Wind conditions recorded at the NICO station are generally similar to wind conditions observed at other northern mining projects in the region. The dominant wind directions over the October 2004 to April 2008 period observed at the NICO station were from the southeast and north-northwest. The dominant wind directions observed during quarterly winter periods (October to March) were aligned in an axis approximately northwest-by-north to southeast-by-south on average (Fortune 2010).

2.3 Hydrology

2.3.1 Colomac

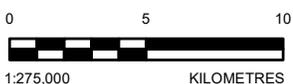
The Colomac Mine is located across a watershed divide separating Tailings Lake (located in Watershed A) from Steeves Lake (located in Watershed B). Watershed A drains to Indin Lake via the Indin River (Watershed D). Watershed B drains south to Indin Lake via a chain of lakes in Watershed C (SLR 2022). Indin Lake drains south to Fishhook Lake. Local watersheds and drainage patterns are shown in Figure 4.

Hydrological baseline information is limited and can be found in older studies (e.g., Beak 1989). Information in this section will be updated in subsequent versions as new information becomes available through upcoming proposed baseline programs. Some monitoring is currently conducted by CIRNAC related to the former Colomac Mine and the Colomac Remediation Project under Water Licence W2021L8-0003 (WLWB 2021).



LEGEND

- SITE LOCATION
- WATER SURVEY OF CANADA STATION (ACTIVE)
- EXISTING ROAD
- MAJOR FLOW PATH
- WATERCOURSE
- INDIN LAKE
- PREVIOUS SITE FOOTPRINT
- WATERSHED BOUNDARY
- WATERBODY



NOTE(S)
 INDIN WATERSHED BOUNDARIES ARE NOT SHOWN EXPLICITLY DUE TO THE LARGE SIZE OF THE WATERSHED.

REFERENCE(S)
 1. BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
 PROJECTION: UTM ZONE 11 DATUM: NAD 83

CLIENT



PROJECT
INDIN LAKE GOLD PROPERTY – WATER MANAGEMENT PLAN

TITLE
WATERSHED BOUNDARIES AND DRAINAGE

CONSULTANT



YYYY-MM-DD	2024-10-28
DESIGNED	EH
PREPARED	MV
REVIEWED	MI
APPROVED	KS

PROJECT NO.	PHASE	REV.	FIGURE
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2.3.2 Damoti Lake

At the Damoti site, run-off from the area north of the rock piles discharges to the north to Damoti Lake, 700 m to the north, while run-off from the rock pile and portal area discharges to the south to Lardass Lake, and subsequently east and northeast to Unnamed Lake, Pond 1, Pond 2 and then to Damoti Lake at Damoti Bay (Nighthawk 2023). Damoti Lake drains north-northeast to Indin Lake. Local drainage at the Damoti site is shown in Figure 3, and general drainage to Indin Lake is shown in Figure 4.

Drainage through the rock pile area follows the topography to the south through an ephemeral drainage to Lardass Lake. This drainage is a heavily vegetated, swampy area with no defined banks or channels. Flow is seasonal and intermittent, with slow-moving surface water during the spring and summer and generally dry or frozen ground conditions in fall and winter. Areas of the drainage that have wet ground conditions in spring and early-summer are characterized by water-resistant vegetation communities. Infiltration and evaporation limit the volume of overland flow through the drainage to Lardass Lake (Nighthawk 2023).

Based on stream flow measurements conducted during baseline aquatic surveys, the outflow from Lardass Lake has a relatively low flow compared to Control Lake (Gartner Lee 2007, 2008). Control Lake is located to the east of Lardass Lake and conveys flow from Ranji Lake to Damoti Lake. The flow from the Lardass Lake outlet creek into Unnamed Lake (Figure 3) ranged from 0.002 to 0.006 cubic metres per second (m³/s) during the open water season (measurements in June, August, and October). In contrast, the flow of the outlet creek from Control Lake ranged from 0.319 to 0.604 m³/s (measurements in June and October; Gartner Lee 2007, 2008).

2.3.3 Regional Monitoring Stations

Hydrometric data are monitored regionally by the Water Survey of Canada (ECCC 2023c) at the stations summarized in Table 2 and Figures 1 and 4.

Table 2: List of Regional Hydrometric Monitoring Stations

Station Name	Station ID	Latitude	Longitude	Drainage Area (km ²)	Period of Record
Snare River Below Bigspruce Lake	07SA001	63° 30' 42.98"	116 00' 20.88"	15500	1945 to 1947
Snare River Below Ghost River	07SA002	63° 58' 26.80"	115 25' 59.88"	13300	1947 to present
Snare River at Bigspruce Lake	07SA003	63° 30' 42.98"	116 00' 20.88"	15200	1949 to 1976
Indin River Above Chalco Lake	07SA004	64° 23' 15.90"	115 01' 18.48"	1520	1977 to present
Snare River above Indin Lake	07SA008	64° 13' 02.89"	114 58' 12.00"	-	1999 to present

Source: ECCC 2023c.

Notes:

- = not available



2.4 Water Quality

2.4.1 Colomac

Nighthawk is not required to monitor surface water quality at Colomac Mine. Monitoring is conducted by CIRNAC related to the former Colomac Mine and the Colomac Remediation Project under Water Licence W2021L8-0003 (WLWB 2021).

2.4.2 Damoti Lake

Water licences acquired for previous exploration activities at the Property have required water quality monitoring in source and receptor environments at the Damoti site. Sampling during initial exploration activities occurred in 1996 and 1997 when mine water was collected in a settling pond and discharged to the environment (Golder 1998). Additional sampling programs were conducted by Pacific Ecological in 2004 and Gartner Lee in 2006 and 2007 (Pacific Ecological 2004; Gartner Lee 2007 and 2008).

Bulk sampling activities at Damoti were conducted in 1996, with 4,000 m³ of waste rock and ore currently stockpiled at the site (Section 4.3.4.1). An SNP was established in 2013 to monitor run-off from these rock piles, with data available to spring 2024 (WSP 2024). Further details on the current SNP are provided in Section 5.1.1. Figure 3 (inset map) shows current SNP sampling locations within the rock pile area, the drainage to Lardass Lake, and the receiving environment along the northern shoreline of Lardass Lake.

SNP stations in the rock pile area are located at low-lying ponds around the base of the rock piles that collect surface run-off from snowmelt and precipitation. Surface water generally flows from north to south through the central rock piles towards the drainage that leads to Lardass Lake (Section 2.3.2), with SNP 5-6 the location representing the point of discharge from the rock pile area (Golder 2021; Figure 3). Further details on water quality at stations around the rock piles and the point of discharge at SNP 5-6 are provided in bi-annual SNP reports.

Generally, pH has remained within the required range and has been stable over time (Nighthawk 2023; WSP 2024). Total suspended solids (TSS) concentrations have infrequently been above the Water Licence grab sample limit of 30 mg/L (i.e., three times since 2013), with concentrations considered to be related to disturbance during sampling activities (Nighthawk 2023). Total metal concentrations in the rock pile area have generally stabilized over time or decreased and have remained below applicable Water Licence limits (Nighthawk 2023; WSP 2024).

Lardass Lake is the natural aquatic environment that receives discharge from the rock pile area. Water from the drainage enters the northern shoreline of Lardass Lake as diffuse and slow-moving seepage near SNP 5-4, then disperses away from the shoreline due to wind-driven mixing and turbulence (Nighthawk 2023). An additional receiving environment station, SNP 5-5, is approximately 50 m west of SNP 5-4 (Figure 3). Further details on water quality at Lardass Lake at SNP 5-4 and 5-5 are provided in bi-annual SNP reports.



Water at SNP 5-4 and SNP 5-5 is generally neutral and pH values at SNP 5-4 have recently been within the Canadian Council of Ministers of the Environment (CCME) chronic guideline range (e.g., Nighthawk 2023; WSP 2024).

Nitrogen and phosphorus concentrations have typically been low at Lardass Lake, i.e., below detection (Nighthawk 2023; WSP 2024). Although previous analyses of chlorophyll *a* indicated oligotrophic conditions (Gartner Lee 2007), this finding has not been confirmed or updated due to a limited number of detectable concentrations in the historical dataset. Low-level (colourimetric) phosphorus analysis was added as a sampling requirement in 2021, which will provide further information in future years to confirm trophic conditions and help with the evaluation of any potential nutrient enrichment. It is expected that Lardass Lake will be confirmed as oligotrophic and phosphorus-limited, which is typical of freshwater lakes in this region (Jones and Smol 2023).

Metal concentrations have generally been below chronic guidelines at Lardass Lake, though several metals have occasionally been above chronic guidelines, e.g., total aluminum, total copper, and total iron (Nighthawk 2023; WSP 2024).

3.0 RISKS AND POTENTIAL IMPACTS

The risks and potential adverse impacts of project activities on water quantity and water quality are summarized in Table 3, along with corresponding mitigation measures. Detailed mitigation measures are provided in Section 4.0.

Potential impacts of climate change will be considered during an annual review of the Plan (Section 7.0) and in future versions of the plan once long-term water management activities are better understood and defined. Specifically, potential impacts of climate change will be considered by assessing changes in water quantity (e.g., levels, flow, volumes, etc. and resulting water balances) and water quality that may affect the project and/or be affected by project activities. Updated information and specifics related to climate change and the project will be used as appropriate and available. Climate-related effects on infrastructure and water management at Colomac will be addressed in more detail in future versions of the Water Management Plan and considered during an annual review of the Plan (Section 7.0). Potential impacts of climate change in the Northwest Territories are expected to include increased air temperature and more extreme weather, including droughts (Post et al. 2019). The potential outcomes of climate change affecting project operations include:

- Changes in lake levels and stream flow regimes
- Earlier ice break-up and later fall freeze-up that may impact winter road construction and seasonal transport corridors
- Changes in the total precipitation and the proportion of rainfall versus snowfall
- Higher risk of extreme weather events, such as storms and wildfires
- Permafrost thaw and potential changes in ground stability

Climate change effects on the project will be evaluated and summarized in future versions of the Water Management Plan using the following regional datasets:

- GNWT snow survey results at Indin Lake and other lakes in the Snare River basin
- GNWT records of winter road open and close dates
- ECCC Water Survey of Canada hydrometric data from regional stations (i.e., Indin River above Chalco Lake [07SA004] and Snare River above Indin Lake [07SA008])
- ECCC meteorological data from the nearest communities (Wekweètì and Gamètì)

The evaluation of climate using these datasets will include time series plots or summary statistics of lake levels, streamflow, regional temperatures, and precipitation. The comparison of annual conditions to the long-term regional record will provide a context of variability, exacerbated by climate change, to Nighthawk's operations.



Nighthawk will also document localized climate impacts around the Property, including any changes that may impact water management or monitoring. Examples may include photographs and observations of extremely high or low water levels in water withdrawal sources, areas of slumping related to permafrost degradation, erosion or sedimentation as a result of extreme weather events, and impacts of early thaw on winter roads. This documentation will be provided as an appendix to future versions of the Water Management Plan, and details will be provided on specific management and mitigation that Nighthawk implemented to manage climate-related impacts on project operations.

In addition, Nighthawk is in the process of implementing upgrades to Colomac camp to reduce emissions and climate-related impacts. This includes upgrades to phase out the use of diesel generators and transition to solar power as a key source of energy for camp operations. Updates related to camp modifications, with a focus on water use and management, will also be provided in future versions of the Water Management Plan.



Table 3: Risks to Water Quantity and Quality and Mitigation Measures

Activity	Potential Risk to Water Quantity and Quality	Mitigation Measures ^(a)
Operation of Colomac Camp	<ul style="list-style-type: none"> Intake of water for camp use may impact water quantity of sources. Management of the water intake structure may result in lakebed disturbances and generation of suspended sediment. Discharge of grey water from domestic use and from core saw operation may impact water quality. 	<ul style="list-style-type: none"> Water withdrawal will only be from approved sources (Appendix A); daily total and per-source limits will not be exceeded. Withdrawn water quantities will be measured and reported. Field verification of water withdrawals will be completed, and written approval from the Inspector will be obtained prior to water withdrawal. The water intake structure will be designed and operated to minimize maintenance requirements, thereby minimizing potential lakebed disturbances. Grey water will be disposed of as approved by the Inspector and away from the receiving environment.
Exploration Drilling	<ul style="list-style-type: none"> Intake of water for drill operation may impact water quantity of sources. Handling and discharge of drill water may impact water quality. Contact with an artesian aquifer could result in discharge of groundwater to the surface. The construction and operation of access trails and drill pads can mobilize and convey sediment into receiving watercourses. Management of the water intake structure may result in lakebed disturbances and generation of suspended sediment. 	<ul style="list-style-type: none"> Water withdrawal will only be from approved sources (Appendix A); daily total and per-source limits will not be exceeded. Withdrawn water quantities will be measured and reported. Field verification of water withdrawals will be completed, and written approval from the Inspector will be obtained prior to water withdrawal. Water used for drilling will be re-circulated to the extent practicable to minimize water intake and drill water generation. Operation of multiple drills will be tracked and coordinated to not exceed the daily or per source limits. If contact with an artesian aquifer is made, the response described in Part F of the licences (WLWB 2023a,b) will be activated. Erosion and sediment controls and best management practices (BMPs) will be applied. Water withdrawals and discharges will meet the requirements of the water licence.
Construction and Maintenance of Winter Roads	<ul style="list-style-type: none"> Intake of water for winter roads may impact water quantity of sources. The construction and operation of winter roads can cause erosion at portages and shorelines, mobilizing and conveying sediment into receiving watercourses. Operation of pumps may result in lakebed disturbances and generation of suspended sediment. 	<ul style="list-style-type: none"> Water withdrawal will only be from approved sources (Appendix A); daily total and per-source limits will not be exceeded. Withdrawn water quantities will be measured and reported. Field verification of water withdrawals will be completed, and written approval from the Inspector will be obtained prior to water withdrawal. Winter roads will be inspected and approved by the Inspector prior to use. Erosion and sediment controls and BMPs, including adherence to speed limits when driving along the roads, will be applied.
Care and Maintenance of the Damoti Site	<ul style="list-style-type: none"> Discharge of surface run-off from the rock pile area may impact water quality in the receiving environment. 	<ul style="list-style-type: none"> Erosion and sediment controls and BMPs will be applied. Surface water will continue to be managed and monitored at the site, with results compared to applicable limits and objectives. The response plan provided in Section 5.1.2 will guide the adaptive management for the Damoti site, as required.

Note:

(a) Additional details on the mitigation measures are provided in Section 4.0.

4.0 WATER MANAGEMENT

4.1 *Water Management Objective and Strategies*

The water management objective is to reduce adverse impacts on water quantity and quality of the receiving environment at the project. Water management strategies to achieve this objective are to:

- Follow regulatory and permitting requirements and guidelines.
- Manage contact water (i.e., water in contact with project activities) and non-contact water (i.e., water not in contact with project activities) separately to the extent practicable:
 - Allow non-contact water to enter the receiving environment.
 - Prevent contact water from entering the receiving environment using approved disposal methods, best management practices (BMP) and/or proper containment.
- Follow the response framework for the rock pile run-off at Damoti Lake (Section 5.1.2).

4.2 *Water Use and Sources*

To support project activities, water will be withdrawn and used from the environment. Approved water sources and annual maximum withdrawal quantities provided in the water licences (WLWB 2023a,b, Annex B) in accordance with the Method for Determining Available Winter Water Use Capacity for Small-Scale Projects (LWB 2021). Additionally, combined total water withdrawal is limited to 800 m³ per day (WLWB 2023a,b). The identified water sources are exclusively surface waterbodies and are provided in Appendix A.

Before withdrawal from any identified source (Appendix A), Nighthawk will perform the field verification described by LWB (2021) to verify that there is a minimum water depth of 3 m in the area of the withdrawal. During ice-covered conditions, the under-ice water depth must be a minimum of 1.5 m. The results of the verification will be sent to the Inspector and the Board as defined in the water licences (WLWB 2023 a,b). Water withdrawal from a source will only commence following written approval from the Inspector.

4.3 *Water Management by Activity*

4.3.1 *Operation of Colomac Camp*

The Colomac Camp comprises worker accommodations, dries, laundry facilities, a kitchen and dining room, storage facilities, offices, and core cutting and sampling facilities. The operation of the camp requires freshwater for domestic use that is withdrawn from Steeves Lake. The camp also generates grey water from the kitchen, showers, sinks, and from the cooling system of the core saw. Human waste is separate from gray water (see *Waste Management Plan*). Freshwater usage is expected to be between approximately 1.5 to 7 m³ per day, depending on the number of people at camp.



Environmental risks related to water withdrawal are mitigated by the limits and source requirements described in Section 4.2, in addition to the use of screens at intake points to prevent the entrapment of fish. The intake is designed and operated to minimize the disturbance to the lakebed sediment, which minimizes the generation of suspended sediment in the waterbody.

The camp grey water is discharged to a low area of granular material (Figure 2) that is more than 100 m from the ordinary high-water mark of a waterbody or watercourse. Discharged grey water infiltrates through the granular surface material and is not observed to accumulate above the ground. Eco-friendly and biodegradable cleaning products are used at camp, and grey water from the kitchen passes through a grease trap prior to discharge.

The core saw uses a closed system of water for cooling during use. Several containers are connected in series, which decant from one to the next and are drawn again by the cooling system. This functions as a multi-stage sediment trap. The system is typically cleaned daily to weekly, depending on the level of use, with the decanted water disposed of as camp grey water. The remaining sediment (i.e., cuttings from the core saw) is bagged and transported to a historical quarry near the airstrip (Figure 2). The sediment/soil cuttings are subsequently removed from the bags to minimize plastic waste at the Site (Appendix B), as previously directed by the Inspector. The storage of sediment in the historical quarry is consistent with the condition related to drilling waste disposal in Part C, Condition 44 of Land Use Permit W2021C0009 (WLWB 2023), where drilling waste that does not contain toxic material may be deposited in a depression located 100 m from the ordinary high-water mark of any watercourse.

Sediment deposited and stored in the quarry is not considered to have the potential to impact the receiving environment for the following reasons:

- The sediment predominantly consists of drill cuttings from existing open pits at Colomac and Kim-Cass (quartz diorite) and does not have the potential for acid generation or metals leaching.
- The historical quarry is more than 100 m from the nearest waterbody (Unnamed Lake 12889) and the ordinary high-water mark of Steeves Lake and is not hydrologically connected to any water bodies.
- The quarry has a large capacity relative to the volume of stored sediment (Appendix B). Note that there is currently <math><13\text{ m}^3</math> of sediment stored in the quarry.
- The quarry is bermed and sloped, preventing run-on water from entering the quarry and surface run-off from leaving the quarry (Appendix B).
- The sediment is only in contact with local snowmelt and precipitation.
- There are no ponded areas of water in the quarry, there have not been any previous overflow events to a receiving environment, and no active water management is required in the quarry area.



Inspectors have visited the quarry and have confirmed that the storage area and containments are acceptable. The Inspector will be consulted in advance about any proposed changes to the management of the sediment in the quarry.

4.3.2 Exploration Drilling

Exploration drilling uses water to lift cuttings from the borehole and, in the process, creates a mixture of solids, sediment, and water, referred to as drill water. Because exploration drilling takes place in remote areas, the nearest waterbody is typically used as the water source. Daily water usage by a drill can vary based on its productivity; in 2021, the average daily water use by a drill during exploration drilling campaigns was approximately 43.2 m³ per day (Nighthawk 2022). Risks to the environment associated with exploration drilling include potential impacts of water withdrawal on water quantity and quality and the potential for encountering an artesian aquifer that may discharge to the surface.

Environmental risks related to water withdrawal are mitigated by the limits and source requirements described in Section 4.2, in addition to the use of screens at intake points to prevent the entrapment of fish. Water intakes are designed and operated to minimize the disturbance to the lakebed sediment, which minimizes the generation of suspended sediment.

Drill water is discharged to a natural depression that is more than 100 m from the ordinary high-water mark of a waterbody. At most drill locations, Nighthawk anticipates that it will be possible to find a natural depression for drill water disposal located more than 100 m from the ordinary high-water mark. In the rare/unlikely occurrence that this is not possible, drill water and suspended solids may be pumped to a natural depression of lesser distance only if: i) there is no potential for materials to enter a body of water **and ii) locations are first approved in writing by the Inspector prior to use**, per Condition 44 in Land Use Permit W2021C0009. The potential for materials to enter a body of water will be minimized by selecting disposal locations that afford natural barriers (e.g., berms or high areas) and/or that slope away from the nearest waterbody.

If it is required to pump drill water over longer distances to a suitable disposal area, Nighthawk will remove solids and suspended sediment before discharging water to a natural depression. In the latter case, solids and sediment will be bagged and stored at the quarry described in Section 4.3.1. The figures below show a diagram of water withdrawal and drill water discharge in two configurations: direct discharge of drill water to a natural depression (Figure 5) and the separation of solids from drill water prior to discharge to a natural depression (Figure 6).

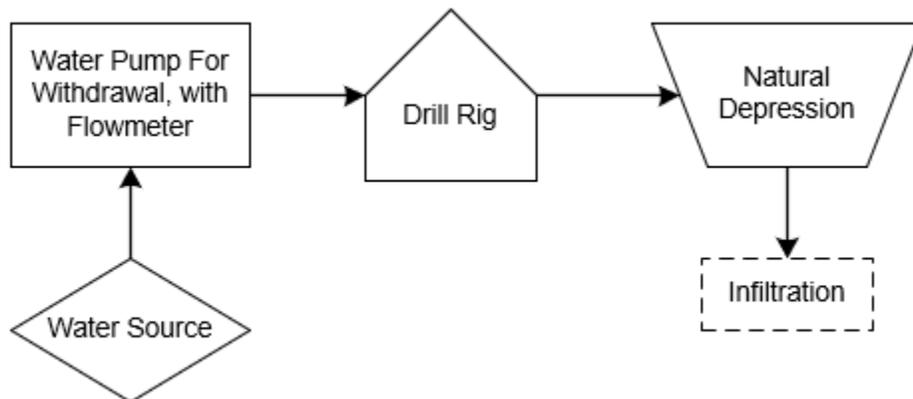


Figure 5: Diagram of Typical Drill Rig Discharging Directly to Natural Depression

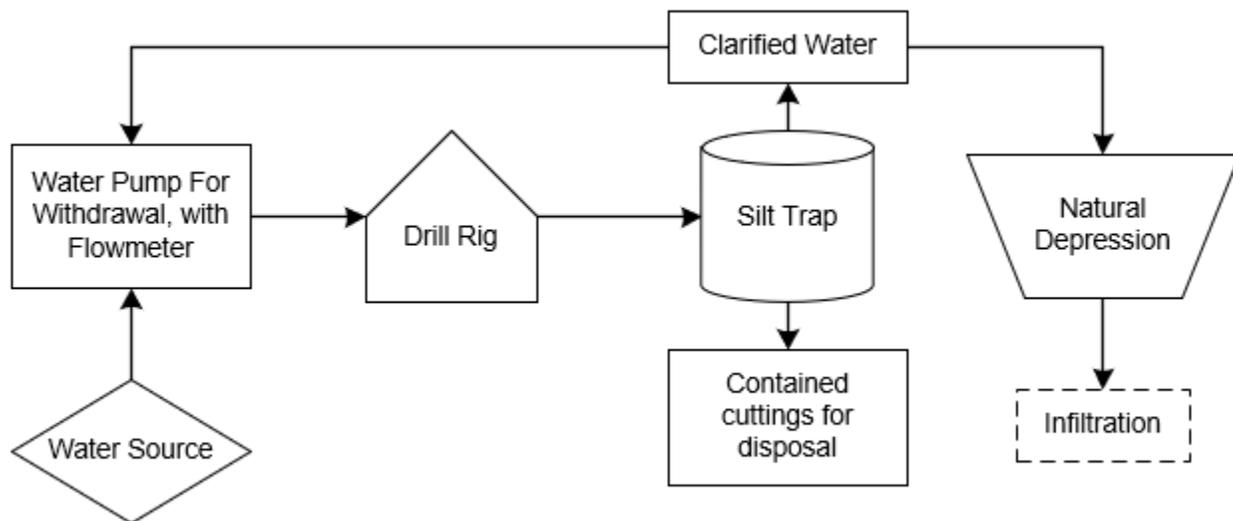


Figure 6: Diagram of Typical Drill Removing Solids Prior to Discharge to Natural Depression

If an artesian aquifer is encountered, the response outlined in Part F of the water licences (WLWB 2023a,b) will be activated:

- a) Within 48 hours, notify the Board and an Inspector, in writing, including the flow rate in cubic metres.
- b) Deposit artesian aquifer water to a snow-bermed or self-contained area, unless otherwise authorized by an Inspector.

- c) Collect a sample of no less than 10 litres (L) of artesian aquifer water, provide 5 L of the sample to an Inspector for analysis, and analyze the remaining sample for the parameters outlined for SNP 5-15 (non-federal licence, WLWB 2023a) and SNP 4-1 (federal licence, WLWB 2023b) and provide the analytical results to the Board and an Inspector.
- d) Seal the borehole to permanently prevent any further outflow of water and to the satisfaction of an Inspector.
- e) Within 24 hours following cessation of the aquifer flow, submit a detailed report to the Board and an Inspector, including the total amount of water in cubic metres that has been released and the total amount of water in cubic metres stored in the snow-bermed or otherwise approved storage area.

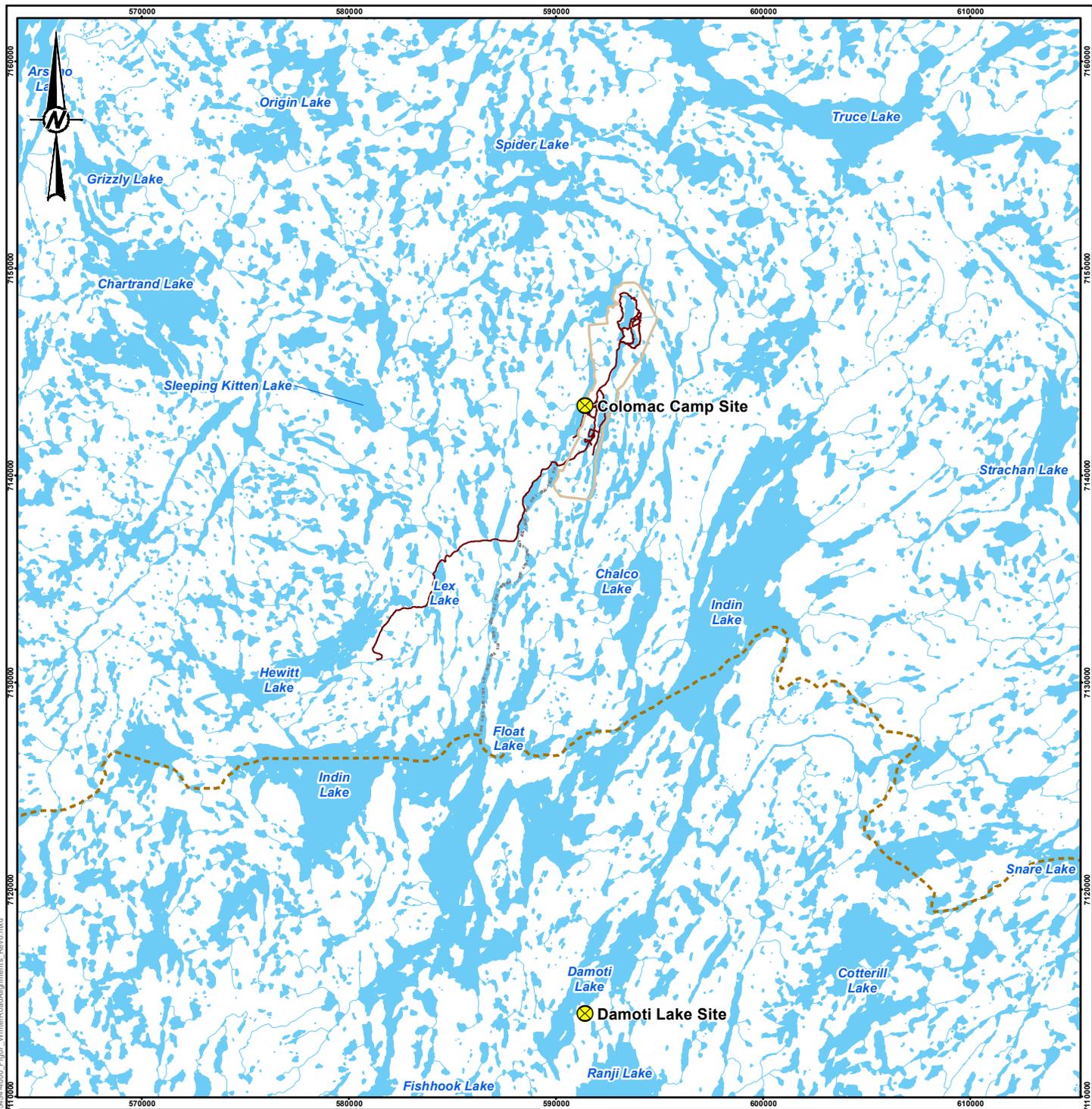
4.3.3 Winter Road Construction and Maintenance

Winter roads spurring from the winter road to Wekweèti are constructed to provide access to the Property to transport equipment and materials. Construction of winter roads involves snow clearing and flooding the ice surface, both of which promote ice thickening. Ice is also thickened at shorelines, where the ice surface transitions to land. Shorelines are susceptible to erosion and degradation due to pressure waves formed during vehicular travel on ice-covered water bodies and from the load of traffic.

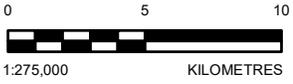
Environmental risks related to water withdrawal for winter road construction and maintenance are mitigated by the limits and source requirements described in Section 4.2, in addition to the use of screens at intake points to prevent the entrapment of fish. The pump intakes are designed and operated to minimize the disturbance to the lakebed sediment, which minimizes the generation of suspended sediment.

Erosion of shorelines is mitigated by constructing winter roads so that there is sufficient ice and snow cover over portages. The winter spur roads are inspected and approved by the Government of the Northwest Territories prior to their opening to traffic and haulage to the Property. Additionally, speed limits are implemented to minimize the loading to portages and shorelines. Winter roads will follow the same alignments yearly to constrain potential effects to a single corridor.

Once the southern portion of the winter road to Wekweèti closes for the season, Nighthawk will decommission any constructed spur roads, removing signs, markers, and other potentially deleterious materials from lakes prior to thaw and ice break-up.



- LEGEND**
- SITE LOCATION
 - EXISTING ROAD
 - COLOMAC WINTER SPUR ROAD
 - WINTER ROAD TO WEKWETI
 - WATERCOURSE
 - PREVIOUS SITE FOOTPRINT
 - WATERBODY



REFERENCE(S)
 1. BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
 PROJECTION: UTM ZONE 11 DATUM: NAD 83

CLIENT

PROJECT
 INDIN LAKE GOLD PROPERTY – WATER MANAGEMENT PLAN

TITLE
 WINTER ROAD ALIGNMENTS

CONSULTANT	YYYY-MM-DD	2024-10-28
	DESIGNED	EH
	PREPARED	MV
	REVIEWED	MI
	APPROVED	KS

PROJECT NO.	PHASE	REV.	FIGURE
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4.3.4 Damoti Lake

4.3.4.1 Water Management

Water is managed at Damoti to minimize or eliminate risk to the receiving environment through monitoring and adaptive management, as described in Section 5.1. Run-off from the area north of the rock piles discharges to Damoti Lake, 700 m north. Run-off generated from the rock pile and portal areas collects and discharges to the south to Lardass Lake, and subsequently to Unnamed Lake, Pond 1, Pond 2, and then to Damoti Lake at Damoti Bay (Figure 3; Sections 2.3.2 and 2.4.2).

The former camp at Damoti (Figure 3) was composed of 12 temporary tent buildings, six wooden plywood buildings which are raised off the ground by approximately 30 cm with wood or concrete blocks, and two wooden pads from former tent buildings. No current water management activities are associated with the former camp at Damoti.

The trails on site typically follow bedrock and do not impose restrictions on drainage or contribute toward the general erosion of the area. Culverts, ditches, or road ballast were not used in establishing the trails, and watercourses were not crossed or diverted by the trails. Regular inspections have not identified any areas of erosion (Nighthawk 2023).

The portal cut and decline ramp at Damoti were completed in 1996 to collect bulk samples of ore. The portal cut leading to the decline ramp is approximately 11 m long, 3.5 m wide at the bottom, and 4.0 m high. Approximately 2.2 m of unblasted rock covers the portal at the entrance. Following the installation of the portal and decline ramp, groundwater recovery was observed to be slow, suggesting limited permeability of the formation (Nighthawk 2023). The water table at the portal fluctuates with seasonal variations in precipitation but has been observed to be approximately 2 m below the ground surface during previous site visits. Local topography slopes towards the decline, suggesting that, if there is sufficient capacity, run-off will flow down the ramp. During periods of higher water levels, as in the fall of 2015, the water level/elevation within the portal cut has been observed to be equal to the water elevations in the ponded water areas around the portal entrance, suggesting that surficial water may migrate along the bedrock/overburden contact. Water from the portal and decline does not drain to the receiving environment.

An inactive settling pond is located near the portal and is generally dry (Figure 3), with minor volumes of water accumulating temporarily during precipitation and snowmelt. The pond has a diameter of 9 m and a maximum storage capacity of approximately 100 m³. A 15 cm diameter mine water discharge pipe (unused since 1997) is installed between the rock pile area and the settling pond, but this is not in active use. Water from the settling pond does not drain to the receiving environment under existing conditions.



4.3.4.2 Effluent Quality Criteria

Effluent quality criteria (EQC) are numerical or narrative limits for concentrations for specified parameters in the effluent discharged to the receiving environment. The EQC for Damoti are outlined in the non-federal Water Licence W2021L2-0004, Part F, Condition 12, and apply to SNP 5-6 and SNP 5-2 (WLWB 2023a). SNP 5-6 is located at the outlet of the main drainage path through the rock piles and reflects combined inputs that discharge to the receiving environment. EQC is set at this location to be conservatively protective of Lardass Lake, i.e., such that concentrations below EQC at SNP 5-6 are expected to result in meeting water quality objectives (WQO) at Lardass Lake. SNP 5-2 is at the mine water settling pond. EQC applies at this location if water is discharged from the adit to the settling pond to confirm that water quality meets EQC before discharge.

Surface water from the project that enters the receiving environment at SNP 5-6 and SNP 5-2 must have a pH value between 5.5 and 9.5 and meet EQC as outlined in the Licence (Table 4; WLWB 2023a). EQC for total petroleum hydrocarbons are also included should fuel be transported to the site, and for nitrate, as nitrogen, should explosives be transported to the site.

In addition to EQC, discharge at SNP 5-2 and SNP 5-6 must not be acutely toxic to aquatic life as determined by specified test methods referenced in Part B of the SNP and Water Licence Part F, Condition 13 (WLWB 2023a).

Table 4: Effluent Quality Criteria for Damoti Lake

Parameter	SNP 5-6		SNP 5-2	
	Maximum Average Concentration (mg/L)	Maximum Concentration of Any Grab Sample (mg/L)	Maximum Average Concentration (mg/L)	Maximum Concentration of Any Grab Sample (mg/L)
Total Ammonia	12.0	-	12.0	-
Total Arsenic	0.1	0.2	0.1	0.2
Total Cadmium	0.001	0.002	0.001	0.002
Total Copper	0.01	0.02	0.01	0.02
Total Lead	0.02	0.04	0.02	0.04
Total Nickel	0.25	0.5	0.25	0.5
Total Zinc	0.1	0.2	0.1	0.2
Total Suspended Solids	15	30	15	30
Total Petroleum Hydrocarbons	3 ^(a)	5 ^(a)	3 ^(a)	5 ^(a)
Nitrate, as N	16 ^(b)	32 ^(b)	16 ^(b)	32 ^(b)

Note:

(a) EQC for total petroleum hydrocarbons apply at SNP 5-2 and SNP 5-6 if fuel is transported to the Damoti site.

(b) EQC for nitrate apply at SNP 5-2 and SNP 5-6 if explosives are transported to the Damoti site.

SNP = Surveillance Network Program; EQC = effluent quality criteria; mg/L = milligrams per litre; - = no criteria; N = nitrogen



4.3.4.3 Water Quality Objectives

The WQO for the receiving environment at Lardass Lake (SNP 5-4) is the lowest of the CCME chronic guidelines for the protection of aquatic life or wildlife drinking water guidelines (CCME 1999; Table 5). If one or the other guideline is not available for a water quality parameter, the WQO is selected from the available guideline. The federal water quality guidelines (FWQG) are also included as WQO for cobalt and vanadium in the absence of CCME guidelines for these parameters. The WQO are considered protective of the receiving environment and maintains water quality that will allow for current and future water uses.

Table 5: Water Quality Objectives at Lardass Lake (SNP 5-4)

Parameter	Unit	Guidelines		WQO
		Chronic Aquatic Life ^(a)	Wildlife Health (Livestock) ^(a)	(SNP 5-4)
Routine/Nutrients				
pH	-	6.5 – 9.0	-	6.5 – 9.0
Dissolved oxygen	mg/L	6.5	-	6.5
Nitrate	mg-N/L	2.9	-	2.9
Nitrite	mg-N/L	0.06	10	0.06
Total ammonia	mg-N/L	1.1	-	1.1 ^(b)
Major ions				
Chloride	mg/L	120	-	120
Sulphate	mg/L	-	1,000	1,000
Calcium	mg/L	-	1,000	1,000
Magnesium	mg/L	-	-	-
Potassium	mg/L	-	-	-
Sodium	mg/L	-	-	-
Metals				
Aluminum	mg/L	0.1^(c)	5.0	0.1 ^(c)
Antimony	mg/L	-	-	-
Arsenic	mg/L	0.005	0.025	0.005
Barium	mg/L	-	-	-
Beryllium	mg/L	-	0.1	0.1
Boron	mg/L	1.5	5.0	1.5
Cadmium	mg/L	0.000068^(d)	0.08	0.000068 ^(d)
Chromium	mg/L	0.001	0.05	0.001
Cobalt	mg/L	0.00078^(e)	1.0	0.00078 ^(e)
Copper	mg/L	0.002^(d)	0.5	0.002 ^(d)
Iron	mg/L	0.3	-	0.3
Lead	mg/L	0.001^(d)	0.1	0.001 ^(d)
Manganese	mg/L	0.35^(f)	-	0.35 ^(f)
Mercury	mg/L	0.000026	0.003	0.000026
Molybdenum	mg/L	0.073	0.5	0.073
Nickel	mg/L	0.025^(d)	1.0	0.025 ^(d)



Parameter	Unit	Guidelines		WQO
		Chronic Aquatic Life ^(a)	Wildlife Health (Livestock) ^(a)	(SNP 5-4)
Selenium	mg/L	0.001	0.05	0.001
Silver	mg/L	0.00025	-	0.00025
Strontium	mg/L	2.5^(g)	-	2.5
Thallium	mg/L	0.0008	-	0.0008
Tin	mg/L	-	-	-
Uranium	mg/L	0.015	0.2	0.015
Vanadium	mg/L	0.120 ^(h)	0.1	0.1
Zinc	mg/L	0.0068⁽ⁱ⁾	50	0.0068 ^(h)

Note:

Bolded values are the WQO for each parameter at the edge of Lardass Lake (SNP 5-4), represented by the lowest of the chronic guideline for the protection of aquatic life or wildlife drinking water guideline.

- (a) Guidelines for the protection of aquatic life and wildlife health (livestock). Sources: Canadian Council of Ministers of the Environment (CCME 1999).
- (b) The water quality objective for total ammonia (chronic guideline of 1.1 mg-N/L at the edge of Lardass Lake at SNP 5-4) is based on the minimum calculated guideline using average pH and temperature in Lardass Lake and on SNP results (Nighthawk 2023).
- (c) Guideline is dependent on pH; 0.005 mg/L at pH <6.5 and 0.1 mg/L at pH ≥ 6.5.
- (d) Guideline is dependent on water hardness. The guideline shown is based on a hardness of (36 mg/L; Nighthawk 2023). During monitoring sample-specific hardness will be used for the guideline calculation.
- (e) Federal water quality guideline for cobalt is dependent on water hardness. The guideline shown is based on the minimum hardness used for guideline derivation (52 mg/L). Source: Environment and Climate Change Canada (ECCC 2017).
- (f) The chronic dissolved manganese guideline is dependent on pH and hardness and was calculated based on pH of 6.9 and hardness of 36 mg/L (Nighthawk 2023). During monitoring, sample-specific pH and hardness will be used for the manganese guideline calculations.
- (g) Federal water quality guideline (ECCC 2020).
- (h) Federal water quality guideline (ECCC 2016).
- (i) The chronic dissolved zinc guideline is dependent on pH, hardness, and DOC, and was calculated based on a pH of 6.9 and hardness of 36 mg/L and assumed DOC of 0.3 mg/L (the value that results in the most conservative zinc guideline; Nighthawk 2023). During monitoring sample-specific pH and hardness will be used for the guideline calculation.

WQO = water quality objective; SNP = Surveillance Network Program; - = no limit/guideline; mg/L = milligrams per litre; mg-N/L = milligrams of nitrogen per litre; < = less than; ≥ = greater than or equal to; DOC = dissolved organic carbon.

4.4 Water Balance

A mean monthly water balance model was developed by Nighthawk (2023) for the watershed of Lardass Lake. Because a long-term precipitation record is not available in the vicinity of the Property, a regional analysis using nearby communities and projects was used to estimate the mean annual precipitation at the Property, with the monthly precipitation distribution assumed to be the same as the monthly averages measured in Yellowknife. The sub-watersheds of Lardass Lake were delineated using Canvec (2012) topographic data. The water balance model assumes that the lake volume remains constant year-over-year, with the average outflow volume for Lardass Lake equalling the inflow minus evaporative loss from the surface. The quantities of water withdrawn are small relative to the amount of net run-off. The water balance is presented with the following assumptions:

- The Lardass Lake watershed is 80% land cover and 20% lakes and other waterbodies.
- Precipitation falls as rain from April to September and falls as snow from October to March. The snowpack accumulates over winter and melts in April and May, with each month equally contributing half of the snow water equivalent of the accumulated snowpack.
- The run-off coefficient for land is 0.70 for April and May and 0.45 for June to September, as more soil infiltration is expected with thawed ground. The run-off coefficient is 1.0 for waterbody areas.
- The annual potential evaporation is 275 mm, and the sublimation rate is 10% of the monthly snowfall total.

This water balance was adapted to be area-normalized and presented by month in terms of depth over a unit area such that it can be applicable to other watersheds in the Property (Table 6). The proportions of land area to water area of other watersheds at the Property are similar to Lardass Lake (Watershed A is 83% land and 17% water, Watershed B is 80% land and 20% water, and Watershed C is 84% land and 16% water; Figure 4). For these reasons, the water balance model for Lardass Lake can be applied to other watersheds at the Property. Because there are no project activities that involve diversions or alterations to drainage at a watershed level, nor are there discharges of groundwater to the surface, the water balance is presented as net run-off, i.e., the difference between the inputs of water to the system as precipitation and losses from evaporation and infiltration.

Current project activities involve water withdrawals that are governed by approved maximum withdrawal quantities (Appendix A). The quantities of water withdrawn are small relative to the amount of net run-off. For example, in 2023, Nighthawk used 427 m³ of water from Steeves Lake to operate Colomac camp (STLLR 2024). The catchment area of Steeves Lake is approximately 48 km² (Watershed B), with water usage representing a reduction to the net run-off of less than 0.01 mm in the watershed. Also, in 2023, Nighthawk used 2,292 m³ from Hewitt Lake (STLLR 2024). The catchment area of Hewitt Lake is approximately 103 km² (Watershed F), with water usage representing a reduction to the net run-off of approximately 0.02 mm.



The water balance will be recalculated at any time planned project activities would involve alterations to drainage patterns at a watershed-scale or large-scale groundwater/surface water interchange, which would also trigger a revision of the Plan. Revisions or updates to the water balance will be considered during annual reviews of the Plan.



Table 6: Mean Monthly Water Balance

Parameter (mm)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Precipitation	22.5	18.5	17.8	13.9	19.2	27.4	38.1	45.0	37.2	36.5	36.1	25.9	338.1
Rainfall	0	0	0	13.9	19.2	27.4	38.1	45.0	37.2	0	0	0	180.8
Snowfall as SWE	22.5	18.5	17.8	0	0	0	0	0	0	36.5	36.1	25.9	157.3
Losses due to Sublimation	2.2	1.8	1.8	0	0	0	0	0	0	3.6	3.6	2.6	15.6
Net Snowfall as SWE	20.3	16.7	16.0	0	0	0	0	0	0	32.9	32.5	23.3	141.7
Cumulative Snowpack as SWE	109.0	125.7	141.7	0	0	0	0	0	0	32.9	65.4	88.7	n/a
Snowmelt	0	0	0	70.8	70.9	0	0	0	0	0	0	0	141.7
Total Input to Watershed	0	0	0	84.7	90.1	27.4	38.1	45.0	37.2	0	0	0	322.5
Run-off from Snowmelt	0	0	0	53.7	53.7	0	0	0	0	0	0	0	107.4
Run-off from Rainfall	0	0	0	10.5	14.6	15.3	21.2	25.1	20.8	0	0	0	107.5
Total Run-off	0	0	0	64.2	68.3	15.3	21.2	25.1	20.8	0	0	0	214.9
Evaporation from Waterbodies	0	0	0	5.5	9.9	13.2	13.8	8.8	3.3	0.5	0	0	55.0
Net Run-off	0	0	0	58.7	58.4	2.1	7.4	16.3	17.5	-0.5	0	0	159.9

Note:

mm = millimetres; SWE = snow water equivalent



5.0 MONITORING AND RESPONSE FRAMEWORK

Water quantity and quality monitoring programs described in Sections 5.1.1 and 5.2.1 are designed to monitor water use, confirm compliance with discharge criteria, define and promptly implement strategies to limit impacts and identify opportunities for adaptive management and updates to the Plan in future years.

The objective of the response framework for these monitoring programs (as described in Sections 5.1.2 and 5.2.2) is to meet the requirements of Schedule 4, Condition 1(d) of W2021L2-0004, and Schedule 4, Condition 1(e) of W2021L2-0005 that require Nighthawk to provide “a description of the response and actions that the Licensee will implement to link the results of monitoring to those corrective actions necessary to ensure that the objectives referred to in Part F, Condition 1 of the Licence are met”. Part F, Condition 1 requires that the “Licensee shall manage Waste and Water with the objective of minimizing the impacts of the project on the quantity and quality of Water in the Receiving Environment through the use of appropriate mitigation measures, monitoring, and follow-up actions.”

5.1 *Water Quality*

5.1.1 **Water Quality Monitoring**

Water quality monitoring will be conducted at the Damoti site per the SNP annexed to Water Licence W2021L2-0004 (Annex A; WLWB 2023a) and Water Licence W2021L2-0005 should an artesian aquifer be encountered (Annex A; WLWB 2023b). Nighthawk has installed signs at each SNP station, and these will be regularly maintained and inspected to the satisfaction of an Inspector.

Monitoring details, including SNP station identifiers and descriptions, sampling frequency, and sampling parameters, are provided in Table 7. Most stations are sampled in spring and fall only, with more frequent sampling required at SNP 5-1, SNP 5-2, SNP 5-4, and SNP 5-5 if the settling pond is active and discharging. Pass/fail acute toxicity testing is completed only in spring at SNP 5-6.

After analytical results from each program have been received and quality assurance steps completed, results from SNP 5-6 (the point of discharge) are compared to EQC (Table 4) and results for SNP 5-4 (the receiving environment; Lardass Lake) are compared to WQO (Table 5). In future years, if any water is released from SNP 5-2 (the settling pond), the results will be compared to EQC for this station (Table 4).

Visual inspections for signs of erosion are to be conducted near the discharge location (SNP 5-6) and documented during spring and fall SNP monitoring programs.

During drilling activities, water clarity will be visually monitored and compared to background water conditions (e.g., during drilling from the ice-surface through a waterbody). Monitoring of artesian aquifer water quality will occur if an aquifer is encountered during exploration activities (Table 7).



Table 7: Surveillance Network Program (SNP) Stations at the Damoti Site (non-Federal Water Licence)

Station	Description	Sampling Frequency	Sampling Parameters
SNP 5-1	Mine water settling pond (adit)	Monthly during use of adit and once prior to discharge from the mine water settling pond.	Total metals ^(a) , total ammonia, total phosphorus ^(b) , total suspended solids, pH, conductivity
SNP 5-2	Mine water settling pond	Once prior to discharge of mine water from the mine water settling pond and weekly during discharge of mine water from the mine water settling pond.	Total metals ^(a) , total ammonia, total phosphorus ^(b) , nitrate ^(c) , total suspended solids, pH, conductivity, total petroleum hydrocarbons ^(d)
SNP 5-4	Inflow from wetlands into Lardass Lake	Once prior to discharge and weekly during discharge from the mine water settling pond. During periods of no discharge from mine water settling pond, once in spring (freshet) and once in fall.	Total metals ^(a) , dissolved metals ^(a) , total ammonia, nitrate, total phosphorus ^(b) , total suspended solids, sulphate, pH, conductivity
SNP 5-5	Lardass Lake	Monthly during discharge from the mine water settling pond. During periods of no discharge from mine water settling pond, once in spring (freshet) and once in fall.	Total metals ^(a) , total ammonia, nitrate, total phosphorus ^(b) , total suspended solids, sulphate, pH, conductivity
SNP 5-6	Combined run-off from Damoti rock piles	Water quality – once in spring (freshet) and once in fall Acute toxicity – once in spring, coinciding with water quality sampling.	Total metals ^(a) , dissolved metals ^(a) , total ammonia, nitrate ^(c) , total phosphorus ^(b) , total suspended solids, sulphate, pH, conductivity, total petroleum hydrocarbons ^(d) Acute toxicity – Rainbow Trout and <i>Daphnia magna</i> ^(e)
SNP 5-8	Damoti Lake Site decline ramp (mine water pooled at the entrance of adit)	Once in spring (freshet) and once in fall	Total metals ^(a) , total ammonia, total phosphorus ^(b) , total suspended solids, sulphate, pH, conductivity
SNP 5-9	Pool of standing water immediately west of waste rock pile	Once in spring (freshet) and once in fall	Total metals ^(a) , total ammonia, total phosphorus ^(b) , total suspended solids, sulphate, pH, conductivity
SNP 5-11	Pool of standing water between waste rock / ore stockpiles	Once in spring (freshet) and once in fall	Total metals ^(a) , total ammonia, total phosphorus ^(b) , total suspended solids, sulphate, pH, conductivity
SNP 5-12	Pool of standing water in rock pile area	Once in spring (freshet) and once in fall	Total metals ^(a) , total ammonia, total phosphorus ^(b) , total suspended solids, sulphate, pH, conductivity



Station	Description	Sampling Frequency	Sampling Parameters
SNP 5-13	Pool of standing water in rock pile area	Once in spring (freshet) and once in fall	Total metals ^(a) , total ammonia, total phosphorus ^(b) , total suspended solids, sulphate, pH, conductivity
SNP 5-14 ^(f)	Flow pathway between rock / ore pile area and Lardass Lake	Once in spring (freshet) and once in fall	Total metals ^(a) , total ammonia, total phosphorus ^(b) , total suspended solids, sulphate, pH, conductivity
SNP 5-15 ^(g)	Artesian aquifer	When/if an artesian aquifer is encountered	Total metals ^(a) , dissolved metals ^(a) , total ammonia, total phosphorus ^(b) , total suspended solids, nitrate, sulphate, pH, conductivity

- Note:
- (a) Total metals and dissolved metals – total elemental analysis of aluminum, antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, chromium, cesium, iron, lead, lithium, manganese, molybdenum, nickel, rubidium, selenium, strontium, titanium, thallium, uranium, vanadium, and zinc.
 - (b) Total phosphorus analysis using the low-level (colourimetric) method.
 - (c) Nitrate analysis at SNP 5-2 and SNP 5-6 only required if explosives are shipped to the Damoti site.
 - (d) Total petroleum hydrocarbon (TPH) analysis shall include volatile organic compounds, i.e., benzene, toluene, ethylbenzene, and xylenes (BTEX) and petroleum hydrocarbons (PHC) fractions F1 to F4. TPH is not required to be analyzed in samples from SNP 5-6 unless fuel is brought to the Damoti site.
 - (e) Water samples for toxicity testing shall be provided to an accredited laboratory for the purpose of performing static pass/fail (single-concentration) test for Rainbow Trout and *Daphnia magna* per Environment Canada’s Biological Test Methods, Environment Protection Series (EPS 1/RM/13 – Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout [Environment Canada 2007], and EPS 1/RM/14 – Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna* [Environment Canada 2000]). If greater than 50% mortality occurs to either Rainbow Trout or *Daphnia magna* in the single-concentration test, then a follow-up sample should be collected and a multi-concentration test conducted to determine the median lethal concentration (i.e., LC50) for the species for which greater than 50 percent mortality was observed.
 - (f) Previously referred to as FB-100.
 - (g) Referred to as SNP 4-1 in federal Water Licence W2021L2-0005 (WLWB 2023b).



5.1.2 Water Quality Mitigation and Response Plan

Approach

The Plan utilizes a systematic tiered approach for responding to monitoring results at the Damoti site, which includes action levels, triggers, and responses. Triggers are based on water quality or toxicity results and have been set to initiate responses that would be taken if there were changes in conditions related to water management activities. This approach links monitoring results to responses to trigger actions to be completed before EQC are exceeded and maintaining or improving water quality in the receiving environment for current and future uses.

Water quality triggers and response actions are provided in Table 8 for the discharge station (SNP 5-6) and in Table 9 for the receiving environment stations (SNP 5-4 and SNP 5-5). The response framework for the discharge station has been developed primarily for discharge at SNP 5-6 (point of discharge from the rock pile area) because the mine water settling pond is not active. If the settling pond were be used in the future, then the response framework would also apply to results from SNP 5-2 and applicable EQC for that station.

Potential responses would be implemented based on the trigger and action level, the scale and magnitude of monitoring results, and include appropriate reporting to the Inspector and WLWB. Action levels have been set so that responses will occur in a timely way to minimize the potential for adverse effects to the receiving environment. Triggers and responses in Table 8 for the discharge location and Table 9 for the receiving environment may occur independently or concurrently, i.e., results may or may not be linked.

Discharge Location

EQC at the discharge location was set to be conservatively protective of Lardass Lake (Section 4.3.4.2). As a result, if concentrations at SNP 5-6 are below EQC, it is expected that water quality in Lardass Lake will meet WQO and therefore remain protective of aquatic life and wildlife. Concentrations approaching EQC serve as an early warning of potential future impacts to water quality at Lardass Lake. As such, action levels at the discharge location have been set for parameter concentrations below EQC so that response actions can be implemented to reverse any upward trends so that Nighthawk remains in compliance with the Water Licence.

A Low Action Level is triggered when a concentration in a grab sample from either a spring or fall SNP event is above the maximum average concentration (MAC), which is equivalent to 50% of the maximum grab concentration (MGC), or the pH value is less than 5.8. A Low Action Level exceedance could be due to sampling or laboratory error or a change in water quality that warrants further monitoring.



The initial response for a Low Action Level exceedance will be to confirm the concentration (or low pH measurement) and check for any sampling or laboratory issues. These checks will include reviewing the following:

- field notes and site conditions at the time of sampling (e.g., low water levels or upset conditions)
- results from QC samples (blanks and duplicates) to identify any potential contamination from sampling or handling or intrastation variability (e.g., a high concentration in the primary sample but relatively low concentration in the duplicate)
- laboratory reports and qualifiers

If the result is confirmed, an additional response for a Low Action Level exceedance would include comparing the result with the expected range from the historical dataset at SNP 5-6. Results will be reported in the SNP report.

A Moderate Action Level is triggered when a parameter concentration in two consecutive grab samples is above 75% of the MGC or two consecutive pH values are less than 5.7. In both cases, these results must also be linked to discharge from the rock pile area. A potential source from the rock pile area will be identified by comparing results with other stations from the rock pile area (spatial analysis). If a source linked to the rock pile area is not identified, Nighthawk will investigate other underlying factors that may have caused the observed change in water quality, such as an extreme dry or wet year in the climate record, a regional event (e.g., wildfire), or other upset condition that may have impacted water quality across the site. The results of this investigation will be provided with supporting evidence in the SNP report.

If a source from the rock pile area is identified, responses for a Moderate Action Level include those for the Low Action Level along with additional responses, which include reviewing the results in the context of the SNP dataset (visual analysis of temporal trends) and enhanced monitoring. Nighthawk would work with the Inspector and WLWB to confirm the details of the enhanced monitoring, which may include an increase in the sampling frequency (depending on the time of year), collection of an additional sample for acute toxicity testing at SNP 5-6, or expanding the monitoring area to investigate further the source, e.g., the upper flow path or bog area to the east of the rock pile. Based on the expanded monitoring data, Nighthawk would also review or refine the Moderate and High action levels if warranted and scientifically defensible. The results of any enhanced monitoring in response to a Moderate Action Level exceedance will be provided in SNP reports.



A High Action Level is triggered when a parameter concentration in three consecutive grab samples is above 75% of the MGC or three consecutive pH values are less than 5.7. In both cases, the High Action Level would only be triggered if concentrations are also trending upward (or downward for pH), based on visual analysis, and the results are linked to discharge from the rock pile area. A potential source from the rock pile area will be identified using the same approach as for the Moderate Action Level.

Response actions for the High Action Level include those for the Low and Moderate action levels. In addition, trends will be extrapolated to estimate when an EQC may be exceeded. This information will be used to engage with the WLWB and other parties on potential engineering solutions that could be used to reverse the trend (e.g., containment and treatment, grading/diversion, temporary covers, alkaline fill material). A Response Plan will be developed as part of responses to a High Action Level trigger. It will include methods to examine the ecological significance of the results, details on enhanced monitoring, and potential engineering solutions. The Response Plan will be submitted to WLWB for approval within 6 weeks of the High Action Level exceedance, with responses to be implemented according to the timeframe specified in the Response Plan.

Exceedance of Effluent Quality Criteria or Acute Toxicity

An EQC exceedance is not included in the response framework shown in Table 8 because the action levels intend to reverse any upward trend in parameter concentrations prior to an EQC exceedance. An exceedance of an MGC (or a pH value of less than 5.5), a running average of four consecutive parameter concentrations above the MAC, or acute lethality (i.e., greater than 50% mortality for an applicable test species) indicates that Nighthawk is out of compliance with the Water Licence. In this case, responses required by Part F, Condition 14 of Water Licence W2021L2-0004 include notifying the WLWB and Inspector immediately, reporting the spill immediately in accordance with the Spill Contingency Plan, complying with applicable procedures and contingencies outlined in the Water Management Plan, and submitting a detailed report within 30 days of initially reporting the incident or within a timeframe authorized by the Inspector.

Additional response actions for an EQC exceedance are also expected to include:

- responses for the Low, Moderate, and High action levels, as applicable
- resampling to verify the exceedance as soon as possible
- increasing the frequency of sampling
- reviewing results at the receiving environment stations (SNP 5-4 and SNP 5-5)
- if a sample is found to be acutely toxic, conducting a follow-up multi-concentration test to determine the median lethal concentration for the species for which greater than 50% mortality was observed



- if the EQC exceedance is verified in follow-up samples, considering corrective actions and engineered solutions, in consultation with the Inspector and WLWB, including closure of the rock piles. Refer to the Damori Lake Interim Closure and Reclamation Plan for guidance on final closure options (Nighthawk 2023).

Table 8: Response Actions for Water Quality and Toxicity Action Level Triggers at Point of Discharge

Action Level	Trigger	Types of Responses to Be Taken
Low	Concentration in any grab sample is above the MAC ^(a) OR pH < 5.8	<ul style="list-style-type: none"> • Confirm result and check for sampling, laboratory, or data quality issues (e.g., disturbed sediment while sampling, quality control results, sample contamination concerns). • If result is confirmed, review data and compare results at SNP 5-6 with previous SNP sampling event(s) to evaluate if there has been a change in water quality. • Report results in the next SNP report.
Moderate	Concentrations for a given parameter in two consecutive grab samples >75% of the MGC ^(b) OR Two consecutive pH results < 5.7 AND Results linked to discharge from the rock pile area ^(c)	<ul style="list-style-type: none"> • Implement response actions for the Low Action Level above. • Where appropriate based on SNP data availability, conduct visual temporal trend analysis^(d). • Enhance monitoring, e.g., increase the monitoring frequency, expand the monitoring area for water quality, and/or additional pass/fail acute toxicity testing, as approved by the Inspector. • Review and refine Moderate and High action levels if warranted and scientifically defensible. • Report results in the next SNP report, including results of any enhanced monitoring.



Action Level	Trigger	Types of Responses to Be Taken
High	Concentrations for a given parameter in three consecutive grab samples >75% of the MGC ^(b)	<ul style="list-style-type: none"> Implement response actions for the Low and Moderate Action Levels above. Where appropriate based on data availability, use statistical tests to predict time to exceed an EQC. Based on predicted time to reach an EQC and engagement with WLWB and other parties, implement mitigation(s) to stop or reverse the trend within appropriate timeframe. Implement mitigations, which may include engineered solutions, e.g., containment and treatment, grading/diversion, temporary covers, alkaline fill material. Develop a Response Plan, including a review of ecological significance of the results, details of enhanced monitoring, and potential engineering solutions. Submit the Response Plan to the WLWB within 6 weeks of receiving final analytical results. Implement the approved Response Plan and report results in a follow-up Investigative Report.
	OR	
	Three consecutive pH results < 5.7	
	AND	
	Concentrations are trending upward (or pH is trending downward) ^(d)	
AND		
	Results are linked discharge from the rock pile area ^(c)	

Notes:

- (a) The MAC is the concentration of a parameter that cannot be exceeded by the running average of any four consecutive analytical results as outlined in W2021L2-0004.
- (b) The MGC is the maximum concentration of any grab sample, as outlined in W2021L2-0004.
- (c) Results linked to discharge from the rock pile area are evaluated by spatial analysis of results from other SNP stations to identify a potential source from the rock pile area (i.e., by comparing SNP monitoring water quality results along the flow path through the site to Lardass Lake, to identify potential source(s) linked to discharge from the rock pile area). Other underlying factors may also cause observed changes in water quality (e.g., dry or wet year, regional event, other upset condition).
- (d) Temporal trends to be evaluated visually. Trends will be evaluated first for short term periods (e.g., 2 to 3 years) and longer-term periods if required.

MAC = maximum average concentration; < = less than; SNP = Surveillance Network Station; > = greater than; % = percent; MGC = maximum concentration of any grab sample; EQC = effluent quality criteria; WLWB = Wek'èezhii Land and Water Board.

Receiving Environment

For the Lardass Lake receiving environment (SNP 5-4 and SNP 5-5), a Low Action Level is triggered by a single exceedance of a WQO (Section 4.3.4.3). Potential responses for a Low Action Level include reviewing results for sampling or data quality issues (e.g., disturbed sediment while sampling, quality control results, sample contamination concerns) and an examination of spatial or temporal trends.

A spatial trend will be evaluated by comparing SNP monitoring water quality results along the flow path through the rock piles to Lardass Lake to identify potential source(s). A temporal trend will include a visual analysis of the results. If a trend is observed, enhanced monitoring may be warranted, with recommendations to be provided in the SNP report.

A Moderate Action Level is triggered when concentrations of the same parameter are above a WQO for two consecutive seasonal sampling events (i.e., two consecutive spring events or two consecutive fall events). Response actions would include those for a Low Action Level trigger, as well as additional potential response actions such as notifying the Inspector, developing a Response Plan, and initiating chronic toxicity testing. Test species for chronic toxicity testing would be *Pseudokirchneriella*



subcapitata, *Lemna minor*, *Ceriodaphnia dubia*, and *Pimephales promelas*. If required, the Response Plan would outline requirements for follow-up sampling, which could include increased frequency of SNP sampling (e.g., a full SNP program each month during the open water season) and/or expanding the monitoring area to additional locations.

A High Action Level is triggered if all three of the following criteria are met: i) confirmed chronic toxicity, ii) exceedance of WQO for a consistent parameter in follow-up samples, and iii) linkage to the rock pile area (site). Chronic toxicity is identified by an adverse chronic response of a lethal concentration (LC₂₅) or inhibitory concentration (IC₂₅) < 100%. A Response Plan submitted to the Board for approval would include responses such as expanded monitoring and sampling (e.g., sediment sampling or expanded water quality program in Lardass Lake), additional studies to examine ecological significance (e.g., toxicity literature), causation, and/or linkage to the site, and re-evaluation of EQC.

Table 9: Response Actions for Water Quality and Toxicity Action Level Triggers at Lardass Lake

Action Level	Trigger	Types of Responses to Be Taken
Low	One-time exceedance of a water quality objective	<ul style="list-style-type: none"> Confirm result: Check for sampling or data quality issues (e.g., disturbed sediment while sampling, quality control results, sample contamination concerns). <p>If water quality result confirmed, potential additional responses may include:</p> <ul style="list-style-type: none"> Compare results at SNP 5-4 and SNP 5-5 with results from previous SNP sampling events for all parameters to evaluate if there has been a change in water quality. Evaluate results from other stations to identify spatial trends^(a). Conduct trend analysis to determine if there has been an ongoing increase in concentrations^(a). Report results in SNP report. Enhanced monitoring may be recommended in the SNP report if there was an exceedance of a WQO and increasing trend for the applicable parameter.
Moderate	Concentration of the same parameter is above a water quality objective for two consecutive seasonal sampling events (i.e., two consecutive spring events or two consecutive fall events)	<ul style="list-style-type: none"> Implement response actions for the trigger above (one-time concentration exceeding a WQO). Collect follow-up water quality sample as soon as site access is possible. Initiate chronic toxicity testing as soon as site access is possible and test for chronic effects using <i>Pseudokirchneriella subcapitata</i>, <i>Lemna minor</i>, <i>Ceriodaphnia dubia</i>, and <i>Pimephales promelas</i>. Report results in SNP report. <p>Potential additional responses if confirmed water quality result (no confirmed chronic toxicity):</p> <ul style="list-style-type: none"> Work with the Inspectors to determine next steps. Submit a Response Plan to the Inspector and Board for approval within 2 weeks of receiving final analytical results from the follow-up water quality and toxicity samples. Increase the monitoring frequency or expand the monitoring area for water quality and/or toxicity (details to be provided in the Response Plan). Report the results of the Response Plan in the next SNP report, or at the direction of the Inspector.

Action Level	Trigger	Types of Responses to Be Taken
High	An adverse chronic response of a lethal concentration (LC ₂₅) or inhibitory concentration (IC ₂₅) < 100%	<ul style="list-style-type: none"> Implement response actions for the triggers above (concentration exceeding a WQO two consecutive seasonal sampling events). Work with the Inspectors to determine next steps. Submit a Response Plan to the Inspector and Board for approval within 2 weeks of receiving final analytical results from the follow up water quality and toxicity samples. <p>Potential additional responses:</p> <ul style="list-style-type: none"> Undertake a desktop and/or field special study to examine ecological significance (e.g., review toxicity literature), causation, and/or linkage to site. Evaluate the EQC values and provide recommendations for whether EQC need to be adjusted to account for observed changes in water quality in Lardass Lake. Expand the sampling program into Lardass Lake to assess the spatial impact at surface and at depth (details to be provided in the Response Plan). Compare to regional/nearby samples, if available. Report the results of the Response Plan in the next SNP report, or at the direction of the Inspector.
	AND	
	Concentration of a parameter is above a water quality objective in follow-up sampling(s)	
	AND	
	Linked to the site (rock pile area)	

Note:

(a) A spatial trend is evaluated by comparing SNP monitoring water quality results along the flow path through the rock piles to Lardass Lake to identify potential source(s). A temporal trend analysis will include a visual assessment across at least two years.

SNP = Surveillance Network Program; Board = Wek'èezhii Land and Water Board; WQO = water quality objective; EQC = effluent quality criteria; < = less than.

5.2 Water Quantity

5.2.1 Water Quantity Monitoring

The primary controls for impacts related to water quantity are daily and annual withdrawal limits; thus, the measurement of withdrawals is critical to the Plan. Nighthawk will measure and record withdrawn quantities using in-line flow meters. On a daily basis, amounts used by date and by source will be compiled and monitored to confirm they do not exceed daily withdrawal limits from all sources or annual limits for a given water source. At Damoti, if water from the adit is discharged to the Mine water Settling Pond (SNP 5-1), the quantity discharged will be measured and recorded using an in-line flow meter and reported as part of SNP reporting.

Routine visual inspections are also important to the successful implementation of the Plan to document the intended function and performance of water management controls. Table 10 summarizes visual inspections.

Table 10: Visual Inspections of Water Management Controls

Subject of Visual Inspection	Frequency	Objective of Inspection
Camp Gray Water Discharge	Daily	Verify that water infiltrates fully, and that there are no deleterious materials visible at surface.
Core Saw Cooling System	Daily	Verify water is circulating as intended, not leaking, and does not need to be emptied.
Exploration Drilling Discharge and Lines	During Shift Change	Confirm drill water is directed to, and contained, by the natural depressions, and there are no leaks in lines.
Winter Road Portages	Weekly	Identify signs of ice or packed snow degradation, such as moating, overflow, or rutting, and coordinate maintenance accordingly.
Drainage at Damoti	During Damoti SNP Sampling	Confirm that drainage paths at Damoti follow the expected pattern and discharge to the environment at SNP 5-6.

5.2.2 Water Quantity Mitigation and Response Plan

Flow meters will be checked daily. If the quantity logged by the flow meter deviates from the expected water usage, a response will be triggered to check for leaks, troubleshoot the flow meter, and investigate to confirm the departure from the expected consumption.

Quantities of water withdrawal by source will be tracked against thresholds of the total annual allowable usage (e.g., 50% and 75% of total allowable usage) to provide early advisory of consumption to inform planning and forecasting of use and for early identification of sources under higher demand. If these thresholds are exceeded, it will signal the need to more closely monitor and plan around the use of these sources. Exceeding the total annual allowable usage is not expected to occur.

Visual inspections (Table 10) will be completed to verify that water intake, discharge of waste, and water management controls are functioning as intended. If these are not working as intended, the impacted operation will cease until the condition is rectified:

- If water withdrawal results in the intake of unexpected turbid water, the cause will be investigated and rectified before withdrawal continues.
- If a discharge area is observed to not fully contain camp grey water or drill water, or if a leak is observed, the discharge will cease until an alternative discharge location is established or the leak is repaired. This may also trigger a response described in the *Spill Contingency Plan*.
- If degradation of ice conditions is observed at winter roads, such as rutting, exposed ground, overflow, or other deficiencies, particularly at portages, these areas will be closed to traffic or routed around until the surface can be repaired and brought to conditions suitable for traffic and haulage. Other responses, such as reducing the maximum weight of loads or speed limits, may be used to mitigate degradation.



- If unexpected drainage patterns at Damoti are identified during SNP sampling, the release point will be documented, the location will be recorded, and the released water will be sampled for analysis. The Inspector will be notified immediately. Immediate action will be taken to prevent further release and restore the expected drainage.

6.0 REPORTING AND DOCUMENTATION

For normal operational conditions (i.e., no compliance concerns or response actions required for water quality or quantity), all data and information required by the SNP for Damoti are reported to the Board within 30 days following the month being reported, including the results of the approved QAQC Plan, as outlined in each the non-federal licence SNP (Annex A, Part C; WLWB 2023a) and federal licence SNP (Annex A, Part B; WLWB 2023b).

Details on water management, water use, and water quality, including results of SNP monitoring, are to be included in the annual Water Licence reports as required by Part B, Condition 19, and outlined in Schedule 1 of both licences (WLWB 2023a,b). Any observed erosion at the discharge location at Damoti (SNP 5-6) and/or during other water management activities will also be documented and included in the Annual Report, and details will be provided to the Inspector on request.

Details of encountered artesian aquifers will be included in SNP monitoring, sampling, and reporting, as outlined in SNPs for both the non-federal and federal water licences (WLWB 2023a,b). If an artesian aquifer is encountered and producing water at the ground surface, as required in Part F, Condition 15 of non-federal Water Licence (WLWB 2023a) and Part F, Condition 11 of the federal Water Licence (WLWB 2023b), Nighthawk will:

- Within 48 hours, notify the Board and an Inspector in writing, including the flow rate in cubic metres.
- Deposit artesian aquifer water to a snow-bermed or self-contained area, unless otherwise authorized by an Inspector.
- Collect a sample of no less than 10 L of artesian aquifer water and provide 5 L of the sample to an Inspector for analysis.
- Analyze the remaining sample for the parameters required at SNP 5-15 (WLWB 2023a) and SNP 4-1 (WLWB 2023b) and provide the analytical results to the Board and an Inspector.
- Seal the borehole to permanently prevent any further outflow of water and to the satisfaction of an Inspector.
- Within 24 hours following cessation of the flow of artesian aquifer water, submit a detailed report of the event to the Board and an Inspector, including the total amount of water in cubic metres that has been released and the total amount of water in cubic metres stored.



7.0 WATER MANAGEMENT PLAN REVIEW AND UPDATES

The Plan will be reviewed annually, and any required revisions will be made to reflect changes in operations, contact information, or other details (e.g., linkages to other management plans), per Part B, Condition 9 of both Water Licences (WLWB 2023a,b). Updates to the Plan will be proposed and submitted to the WLWB for approval a minimum of 90 days prior to the proposed implementation date for the changes, as per Part B, Condition 10 of both Water Licences (WLWB 2023a,b). If the Plan does not require revisions, Nighthawk will notify WLWB in writing that it has been reviewed no later than March 31 each year.

8.0 REFERENCES

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APPENDIX A

Proposed Water Sources



Table A-1: Lake Names and Locations of Proposed Water Sources with Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Mean Depth (m)	Max Depth (m)	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing							
Baton Lake	591960	7140565	1,596,714	NWT Mineral Claim	10.00 (Beak 1989)	> 35.00	Ice Road/Drilling	1,596,714	159,671
				Federal Mineral Lease					
Indin Lake	589687	7127234	133,235,774	NWT Mineral Lease	34.80 (Faulk 1979)	71.00	Ice Road/Drilling	133,235,774	13,323,577
				NWT Mineral Claim					
				Federal Mineral Lease					
Lardass Lake	591853	7113196	149,467	NWT Mineral Lease	1.82 (Gartner Lee 2007)	4.55	Ice Road/Drilling	149,467	14,947
Steeves Lake	590969	7142902	1,421,231	NWT Mineral Lease	5.50 (Beak 1989)	> 20.00	Camp/Ice Road/Drilling	1,421,231	142,123
				Federal Mineral Lease					

*Lake surface area was computed using Global Mapper v18.0 GIS software from publicly available 1:50,000 scale CanVec hydrographic feature data published by Natural Resources Canada (2017) unless otherwise indicated.



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Apex Lake	585553	7139458	400,768	NWT Mineral Lease	Ice Road/Drilling	400,768	40,077
Bow Lake	591688	7130502	433,220	NWT Mineral Claim	Ice Road/Drilling	433,220	43,322
Chalco Lake	593608	7134050	8,624,668	NWT Mineral Claim	Ice Road/Drilling	8,624,668	862,467
Chuck Lake	586547	7112166	292,848	NWT Mineral Claim	Ice Road/Drilling	292,848	29,285
Corner Lake	588120	7134181	514,700	NWT Mineral Claim	Ice Road/Drilling	514,700	51,470
Cranston Lake	587451	7138016	379,761	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	379,761	37,976
Damoti Lake	592130	7115951	12,830,366	NWT Mineral Lease NWT Mineral Claim	Camp/Ice Camp/Ice	12,830,366	1,283,037
Daran Lake	594787	7101814	20,683,227	NWT Mineral Claim	Ice Road/Drilling	20,683,227	2,068,323
Echo Lake	582667	7137349	404,010	NWT Mineral Lease	Ice Road/Drilling	404,010	40,401
Fault Lake	587207	7111786	59,110	NWT Mineral Claim	Ice Road/Drilling	59,110	5,911
Fishhook Lake	586012	7105122	8,351,594	NWT Mineral Claim	Ice Road/Drilling	8,351,594	835,159
Float Lake	588276	7128234	4,948,497	NWT Mineral Lease	Ice Road/Drilling	4,948,497	494,850
Fortune Lake	586749	7149461	642,364	NWT Mineral Lease	Ice Road/Drilling	642,364	64,236
Gamey Lake	587425	7113299	488,459	NWT Mineral Claim	Ice Road/Drilling	488,459	48,846
Hewitt Lake	577332	7131065	13,507,233	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	13,507,233	1,350,723
Knob Lake	588563	7133922	83,473	NWT Mineral Claim	Ice Road/Drilling	83,473	8,347
Laurie Lake	586130	7151911	445,511	NWT Mineral Lease	Ice Road/Drilling	445,511	44,551
Lex Lake	584254	7134078	1,264,996	NWT Mineral Lease	Ice Road/Drilling	1,264,996	126,500
Nautilus Lake	586797	7147331	780,715	NWT Mineral Lease	Ice Road/Drilling	780,715	78,072
Parker Lake	583335	7128694	399,190	NWT Mineral Lease	Ice Road/Drilling	399,190	39,919
Pete Lake	588034	7111049	184,566	NWT Mineral Claim	Ice Road/Drilling	184,566	18,457
Pistol Lake	588753	7133286	366,048	NWT Mineral Claim	Ice Road/Drilling	366,048	36,605
Ranji Lake	593044	7109706	15,354,759	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	15,354,759	1,535,476
Riss Lake	583980	7145753	1,580,444	NWT Mineral Lease	Ice Road/Drilling	1,580,444	158,044
Schwerdt Lake	583731	7141968	1,130,015	NWT Mineral Lease	Ice Road/Drilling	1,130,015	113,002
Slip Lake	586708	7145438	125,473	NWT Mineral Lease	Ice Road/Drilling	125,473	12,547
Spider Lake	588942	7154724	16,261,527	NWT Mineral Lease NWT Mineral Claim Federal Mineral Lease	Ice Road/Drilling	16,261,527	1,626,153
Truce Lake	601258	7157944	27,712,244	NWT Mineral Claim	Drilling	27,712,244	2,771,224
Turnpike Lake	585874	7143610	652,518	NWT Mineral Lease	Ice Road/Drilling	652,518	65,252
Unnamed 10049	595536	7126180	695,376	NWT Mineral Claim	Ice Road/Drilling	695,376	69,538
Unnamed 10082	578784	7127209	3,531	NWT Mineral Claim	Ice Road/Drilling	3,531	353
Unnamed 10088	596585	7127027	88,900	NWT Mineral Claim	Ice Road/Drilling	88,900	8,890
Unnamed 10099	594752	7126912	106,534	NWT Mineral Claim	Ice Road/Drilling	106,534	10,653
Unnamed 10114	578299	7127259	35,459	NWT Mineral Claim	Ice Road/Drilling	35,459	3,546
Unnamed 10122	578819	7127405	9,422	NWT Mineral Claim	Ice Road/Drilling	9,422	942
Unnamed 10126	594629	7127394	7,390	NWT Mineral Claim	Ice Road/Drilling	7,390	739
Unnamed 10134	607082	7122987	22,384,886	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	22,384,886	2,238,489
Unnamed 10158	595634	7127397	64,930	NWT Mineral Claim	Ice Road/Drilling	64,930	6,493
Unnamed 10165	583537	7127574	38,895	NWT Mineral Lease	Ice Road/Drilling	38,895	3,890
Unnamed 10166	591041	7127656	8,793	NWT Mineral Claim	Ice Road/Drilling	8,793	879
Unnamed 10168	579557	7127660	11,187	NWT Mineral Claim	Ice Road/Drilling	11,187	1,119
Unnamed 10183	579750	7127769	3,900	NWT Mineral Claim	Ice Road/Drilling	3,900	390
Unnamed 10189	575493	7127689	35,789	NWT Mineral Claim	Ice Road/Drilling	35,789	3,579
Unnamed 10193	595192	7127683	41,670	NWT Mineral Claim	Ice Road/Drilling	41,670	4,167
Unnamed 10194	582193	7127671	74,457	NWT Mineral Lease	Ice Road/Drilling	74,457	7,446
Unnamed 10196	583725	7127805	15,358	NWT Mineral Lease	Ice Road/Drilling	15,358	1,536
Unnamed 10197	578119	7127651	129,390	NWT Mineral Claim	Ice Road/Drilling	129,390	12,939
Unnamed 10204	575737	7127876	5,497	NWT Mineral Claim	Ice Road/Drilling	5,497	550
Unnamed 10216	579689	7127925	4,461	NWT Mineral Claim	Ice Road/Drilling	4,461	446
Unnamed 10219	578863	7127946	4,598	NWT Mineral Claim	Ice Road/Drilling	4,598	460
Unnamed 10223	579773	7127972	1,812	NWT Mineral Claim	Ice Road/Drilling	1,812	181
Unnamed 10226	592624	7127970	2,071	NWT Mineral Claim	Ice Road/Drilling	2,071	207
Unnamed 10233	580262	7127932	21,354	NWT Mineral Claim	Ice Road/Drilling	21,354	2,135
Unnamed 10248	580817	7128061	11,318	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	11,318	1,132
Unnamed 10249	598717	7127971	44,466	NWT Mineral Claim	Ice Road/Drilling	44,466	4,447
Unnamed 10260	589741	7128127	4,432	NWT Mineral Claim	Ice Road/Drilling	4,432	443
Unnamed 10268	576931	7128182	1,942	NWT Mineral Claim	Ice Road/Drilling	1,942	194
Unnamed 10281	579847	7128247	4,955	NWT Mineral Claim	Ice Road/Drilling	4,955	495
Unnamed 10285	577661	7128180	27,101	NWT Mineral Claim	Ice Road/Drilling	27,101	2,710
Unnamed 10297	582269	7128133	48,191	NWT Mineral Lease	Ice Road/Drilling	48,191	4,819
Unnamed 10298	589467	7128285	3,836	NWT Mineral Claim	Ice Road/Drilling	3,836	384
Unnamed 10302	576532	7128209	35,315	NWT Mineral Claim	Ice Road/Drilling	35,315	3,531
Unnamed 10317	582667	7128366	6,625	NWT Mineral Lease	Ice Road/Drilling	6,625	662
Unnamed 10318	579578	7128310	42,483	NWT Mineral Claim	Ice Road/Drilling	42,483	4,248
Unnamed 10320	589771	7128376	11,288	NWT Mineral Claim	Ice Road/Drilling	11,288	1,129
Unnamed 10329	581594	7128293	34,286	NWT Mineral Lease	Ice Road/Drilling	34,286	3,429
Unnamed 10332	589668	7128440	1,354	NWT Mineral Claim	Ice Road/Drilling	1,354	135
Unnamed 10339	579144	7128449	9,504	NWT Mineral Claim	Ice Road/Drilling	9,504	950
Unnamed 10344	576344	7128406	23,731	NWT Mineral Claim	Ice Road/Drilling	23,731	2,373
Unnamed 10345	589593	7128499	1,025	NWT Mineral Claim	Ice Road/Drilling	1,025	103
Unnamed 10348	577275	7128434	15,655	NWT Mineral Claim	Ice Road/Drilling	15,655	1,565
Unnamed 10354	589667	7128537	2,785	NWT Mineral Claim	Ice Road/Drilling	2,785	279
Unnamed 10357	581588	7128555	4,794	NWT Mineral Lease	Ice Road/Drilling	4,794	479
Unnamed 10360	590477	7128244	192,333	NWT Mineral Claim	Ice Road/Drilling	192,333	19,233
Unnamed 10363	576016	7128584	3,520	NWT Mineral Claim	Ice Road/Drilling	3,520	352
Unnamed 10367	577831	7128540	13,586	NWT Mineral Claim	Ice Road/Drilling	13,586	1,359
Unnamed 10368	590297	7128574	9,686	NWT Mineral Claim	Ice Road/Drilling	9,686	969
Unnamed 10375	582866	7128654	5,063	NWT Mineral Lease	Ice Road/Drilling	5,063	506
Unnamed 10376	589632	7128673	2,668	NWT Mineral Claim	Ice Road/Drilling	2,668	267
Unnamed 10377	579074	7128670	6,081	NWT Mineral Claim	Ice Road/Drilling	6,081	608
Unnamed 10387	577743	7128683	3,716	NWT Mineral Claim	Ice Road/Drilling	3,716	372
Unnamed 10391	579868	7128718	6,353	NWT Mineral Claim	Ice Road/Drilling	6,353	635
Unnamed 10400	584433	7128474	90,756	NWT Mineral Lease	Ice Road/Drilling	90,756	9,076
Unnamed 10402	590225	7128734	8,090	NWT Mineral Claim	Ice Road/Drilling	8,090	809



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 10410	580594	7128813	2,588	NWT Mineral Lease	Ice Road/Drilling	2,588	259
				NWT Mineral Claim			
Unnamed 10414	579286	7128835	7,769	NWT Mineral Lease	Ice Road/Drilling	7,769	777
				NWT Mineral Claim			
Unnamed 10417	582096	7128768	27,888	NWT Mineral Lease	Ice Road/Drilling	27,888	2,789
Unnamed 10424	581953	7128893	8,734	NWT Mineral Lease	Ice Road/Drilling	8,734	873
Unnamed 10427	592811	7128845	22,617	NWT Mineral Claim	Ice Road/Drilling	22,617	2,262
Unnamed 10428	592334	7128856	21,396	NWT Mineral Claim	Ice Road/Drilling	21,396	2,140
Unnamed 10436	591637	7128983	2,426	NWT Mineral Claim	Ice Road/Drilling	2,426	243
Unnamed 10437	581597	7128917	9,338	NWT Mineral Lease	Ice Road/Drilling	9,338	934
Unnamed 10438	576934	7128975	3,576	NWT Mineral Claim	Ice Road/Drilling	3,576	358
Unnamed 10445	579830	7128965	23,982	NWT Mineral Lease	Ice Road/Drilling	23,982	2,398
Unnamed 10449	577498	7129023	4,484	NWT Mineral Claim	Ice Road/Drilling	4,484	448
Unnamed 10452	589766	7129047	2,866	NWT Mineral Claim	Ice Road/Drilling	2,866	287
Unnamed 10457	587328	7129077	2,007	NWT Mineral Lease	Ice Road/Drilling	2,007	201
Unnamed 10469	592461	7129140	2,413	NWT Mineral Claim	Ice Road/Drilling	2,413	241
Unnamed 10476	590079	7129171	12,814	NWT Mineral Claim	Ice Road/Drilling	12,814	1,281
Unnamed 10479	577673	7129082	22,861	NWT Mineral Claim	Ice Road/Drilling	22,861	2,286
Unnamed 10485	581163	7129197	36,834	NWT Mineral Lease	Ice Road/Drilling	36,834	3,683
Unnamed 10487	580289	7129199	12,478	NWT Mineral Lease	Ice Road/Drilling	12,478	1,248
Unnamed 10491	590548	7129225	6,209	NWT Mineral Claim	Ice Road/Drilling	6,209	621
Unnamed 10492	591756	7129249	4,337	NWT Mineral Claim	Ice Road/Drilling	4,337	434
Unnamed 10493	578242	7129152	29,109	NWT Mineral Claim	Ice Road/Drilling	29,109	2,911
Unnamed 10496	589979	7129306	2,060	NWT Mineral Claim	Ice Road/Drilling	2,060	206
Unnamed 10500	581974	7129256	27,101	NWT Mineral Lease	Ice Road/Drilling	27,101	2,710
Unnamed 10507	598406	7128709	677,255	NWT Mineral Claim	Ice Road/Drilling	677,255	67,726
Unnamed 10512	581060	7129383	6,272	NWT Mineral Lease	Ice Road/Drilling	6,272	627
Unnamed 10522	591820	7129392	5,133	NWT Mineral Claim	Ice Road/Drilling	5,133	513
Unnamed 10524	579863	7129433	1,983	NWT Mineral Lease	Ice Road/Drilling	1,983	198
Unnamed 10535	590305	7129416	22,830	NWT Mineral Claim	Ice Road/Drilling	22,830	2,283
Unnamed 10539	580994	7129494	2,645	NWT Mineral Lease	Ice Road/Drilling	2,645	264
Unnamed 10547	577605	7129488	8,343	NWT Mineral Claim	Ice Road/Drilling	8,343	834
Unnamed 10548	579055	7129218	137,646	NWT Mineral Lease	Ice Road/Drilling	137,646	13,765
Unnamed 10549	581469	7129559	1,371	NWT Mineral Lease	Ice Road/Drilling	1,371	137
Unnamed 10551	592620	7129484	15,647	NWT Mineral Claim	Ice Road/Drilling	15,647	1,565
Unnamed 10559	582401	7129331	104,899	NWT Mineral Lease	Ice Road/Drilling	104,899	10,490
Unnamed 10566	589201	7129348	68,850	NWT Mineral Claim	Ice Road/Drilling	68,850	6,885
Unnamed 10584	590432	7129741	2,750	NWT Mineral Claim	Ice Road/Drilling	2,750	275
Unnamed 10588	581609	7129772	1,251	NWT Mineral Lease	Ice Road/Drilling	1,251	125
Unnamed 10601	580061	7129775	25,597	NWT Mineral Lease	Ice Road/Drilling	25,597	2,560
Unnamed 10605	589636	7129851	5,888	NWT Mineral Claim	Ice Road/Drilling	5,888	589
Unnamed 10610	584615	7129734	139,340	NWT Mineral Lease	Ice Road/Drilling	139,340	13,934
Unnamed 10615	587089	7129791	17,418	NWT Mineral Lease	Ice Road/Drilling	17,418	1,742
				NWT Mineral Claim			
Unnamed 10638	589932	7129973	10,828	NWT Mineral Claim	Ice Road/Drilling	10,828	1,083
Unnamed 10645	582750	7129936	23,247	NWT Mineral Lease	Ice Road/Drilling	23,247	2,325
Unnamed 10661	580909	7129981	63,740	NWT Mineral Lease	Ice Road/Drilling	63,740	6,374
Unnamed 10671	580349	7130175	9,006	NWT Mineral Lease	Ice Road/Drilling	9,006	901
Unnamed 10673	582282	7129963	42,672	NWT Mineral Lease	Ice Road/Drilling	42,672	4,267
Unnamed 10683	587955	7130195	10,907	NWT Mineral Claim	Ice Road/Drilling	10,907	1,091
Unnamed 10686	591851	7130088	48,382	NWT Mineral Claim	Ice Road/Drilling	48,382	4,838
Unnamed 10692	580967	7130243	16,684	NWT Mineral Lease	Ice Road/Drilling	16,684	1,668
Unnamed 10694	583391	7130128	44,464	NWT Mineral Lease	Ice Road/Drilling	44,464	4,446
Unnamed 10699	579032	7130010	321,835	NWT Mineral Lease	Ice Road/Drilling	321,835	32,184
				NWT Mineral Claim			
Unnamed 10706	581668	7130378	3,162	NWT Mineral Lease	Ice Road/Drilling	3,162	316
Unnamed 10709	598798	7130201	41,772	NWT Mineral Claim	Ice Road/Drilling	41,772	4,177
Unnamed 10711	592532	7130336	16,456	NWT Mineral Claim	Ice Road/Drilling	16,456	1,646
Unnamed 10716	584483	7130201	35,195	NWT Mineral Lease	Ice Road/Drilling	35,195	3,520
Unnamed 10735	579217	7130433	11,608	NWT Mineral Lease	Ice Road/Drilling	11,608	1,161
Unnamed 10744	589199	7130551	1,533	NWT Mineral Claim	Ice Road/Drilling	1,533	153
Unnamed 10757	593183	7130193	248,705	NWT Mineral Claim	Ice Road/Drilling	248,705	24,871
Unnamed 10774	594553	7130703	8,017	NWT Mineral Claim	Ice Road/Drilling	8,017	802
Unnamed 10777	585573	7130545	74,930	NWT Mineral Lease	Ice Road/Drilling	74,930	7,493
Unnamed 10780	593814	7130574	43,053	NWT Mineral Claim	Ice Road/Drilling	43,053	4,305
Unnamed 10795	589811	7130546	49,845	NWT Mineral Claim	Ice Road/Drilling	49,845	4,985
Unnamed 10809	595941	7130852	10,688	NWT Mineral Claim	Ice Road/Drilling	10,688	1,069
Unnamed 10813	594333	7130874	9,643	NWT Mineral Claim	Ice Road/Drilling	9,643	964
Unnamed 10814	582335	7130832	54,511	NWT Mineral Lease	Ice Road/Drilling	54,511	5,451
Unnamed 10816	581044	7130930	19,697	NWT Mineral Lease	Ice Road/Drilling	19,697	1,970
Unnamed 10822	587234	7130517	137,636	NWT Mineral Claim	Ice Road/Drilling	137,636	13,764
Unnamed 10838	587694	7131097	11,775	NWT Mineral Claim	Ice Road/Drilling	11,775	1,177
Unnamed 10839	588320	7130937	39,187	NWT Mineral Claim	Ice Road/Drilling	39,187	3,919
Unnamed 10842	591099	7130890	85,886	NWT Mineral Claim	Ice Road/Drilling	85,886	8,589
Unnamed 10846	584536	7131031	23,275	NWT Mineral Lease	Ice Road/Drilling	23,275	2,328
Unnamed 10849	582097	7131105	15,704	NWT Mineral Lease	Ice Road/Drilling	15,704	1,570
Unnamed 10855	582436	7131140	10,792	NWT Mineral Lease	Ice Road/Drilling	10,792	1,079
Unnamed 10857	591010	7131149	14,446	NWT Mineral Claim	Ice Road/Drilling	14,446	1,445
Unnamed 10864	586183	7131154	17,841	NWT Mineral Lease	Ice Road/Drilling	17,841	1,784
Unnamed 10896	590718	7131277	69,713	NWT Mineral Claim	Ice Road/Drilling	69,713	6,971
Unnamed 10897	587575	7131368	39,558	NWT Mineral Claim	Ice Road/Drilling	39,558	3,956
Unnamed 10906	587725	7131498	3,466	NWT Mineral Claim	Ice Road/Drilling	3,466	347
Unnamed 10908	584501	7131382	24,067	NWT Mineral Lease	Ice Road/Drilling	24,067	2,407
Unnamed 10929	589360	7131585	20,493	NWT Mineral Claim	Ice Road/Drilling	20,493	2,049
Unnamed 10930	595549	7131137	221,897	NWT Mineral Claim	Ice Road/Drilling	221,897	22,190
Unnamed 10932	583048	7131627	3,719	NWT Mineral Lease	Ice Road/Drilling	3,719	372
Unnamed 10933	594397	7131556	24,768	NWT Mineral Claim	Ice Road/Drilling	24,768	2,477
Unnamed 10939	585370	7131617	18,093	NWT Mineral Lease	Ice Road/Drilling	18,093	1,809
Unnamed 10941	585082	7131448	46,241	NWT Mineral Lease	Ice Road/Drilling	46,241	4,624
Unnamed 10942	582656	7131561	43,911	NWT Mineral Lease	Ice Road/Drilling	43,911	4,391
Unnamed 10952	583200	7131240	131,684	NWT Mineral Lease	Ice Road/Drilling	131,684	13,168
Unnamed 10957	594862	7131534	48,821	NWT Mineral Claim	Ice Road/Drilling	48,821	4,882



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 10959	586781	7131700	12,081	NWT Mineral Lease	Ice Road/Drilling	12,081	1,208
Unnamed 10979	592078	7131521	119,223	NWT Mineral Claim	Ice Road/Drilling	119,223	11,922
Unnamed 10991	582812	7131838	23,701	NWT Mineral Lease	Ice Road/Drilling	23,701	2,370
Unnamed 11009	590993	7131911	30,303	NWT Mineral Claim	Ice Road/Drilling	30,303	3,030
Unnamed 11014	588739	7131953	16,776	NWT Mineral Claim	Ice Road/Drilling	16,776	1,678
Unnamed 11026	582189	7132122	7,302	NWT Mineral Lease	Ice Road/Drilling	7,302	730
Unnamed 11033	585193	7132096	18,678	NWT Mineral Lease	Ice Road/Drilling	18,678	1,868
Unnamed 11035	585862	7131993	42,244	NWT Mineral Lease	Ice Road/Drilling	42,244	4,224
Unnamed 11039	586347	7132158	9,198	NWT Mineral Lease	Ice Road/Drilling	9,198	920
Unnamed 11040	584477	7132086	28,453	NWT Mineral Lease	Ice Road/Drilling	28,453	2,845
Unnamed 11047	592736	7132238	3,665	NWT Mineral Claim	Ice Road/Drilling	3,665	366
Unnamed 11050	588386	7132023	67,476	NWT Mineral Claim	Ice Road/Drilling	67,476	6,748
Unnamed 11063	583834	7132302	7,852	NWT Mineral Lease	Ice Road/Drilling	7,852	785
Unnamed 11068	592666	7132363	1,419	NWT Mineral Claim	Ice Road/Drilling	1,419	142
Unnamed 11083	582823	7132320	15,789	NWT Mineral Lease	Ice Road/Drilling	15,789	1,579
Unnamed 11085	582008	7132363	45,963	NWT Mineral Lease	Ice Road/Drilling	45,963	4,596
Unnamed 11109	592652	7132519	9,862	NWT Mineral Claim	Ice Road/Drilling	9,862	986
Unnamed 11126	594899	7132282	85,956	NWT Mineral Claim	Ice Road/Drilling	85,956	8,596
Unnamed 11140	583225	7132732	3,687	NWT Mineral Lease	Ice Road/Drilling	3,687	369
Unnamed 11144	591802	7132783	1,291	NWT Mineral Claim	Ice Road/Drilling	1,291	129
Unnamed 11146	595273	7132745	6,365	NWT Mineral Claim	Ice Road/Drilling	6,365	636
Unnamed 11170	595965	7132802	34,116	NWT Mineral Claim	Ice Road/Drilling	34,116	3,412
Unnamed 11172	585873	7132925	1,839	NWT Mineral Lease	Ice Road/Drilling	1,839	184
Unnamed 11173	589756	7132919	6,990	NWT Mineral Claim	Ice Road/Drilling	6,990	699
Unnamed 11195	590794	7132863	83,053	NWT Mineral Claim	Ice Road/Drilling	83,053	8,305
Unnamed 11204	586594	7133075	1,169	NWT Mineral Lease	Ice Road/Drilling	1,169	117
Unnamed 11212	583519	7132890	26,851	NWT Mineral Lease	Ice Road/Drilling	26,851	2,685
Unnamed 11216	583254	7133085	3,318	NWT Mineral Lease	Ice Road/Drilling	3,318	332
Unnamed 11217	589301	7133072	8,834	NWT Mineral Claim	Ice Road/Drilling	8,834	883
Unnamed 11222	591897	7133027	27,181	NWT Mineral Claim	Ice Road/Drilling	27,181	2,718
Unnamed 11231	581881	7133159	9,639	NWT Mineral Lease	Ice Road/Drilling	9,639	964
Unnamed 11238	586723	7133259	1,532	NWT Mineral Lease	Ice Road/Drilling	1,532	153
Unnamed 11241	587502	7133018	62,544	NWT Mineral Claim	Ice Road/Drilling	62,544	6,254
Unnamed 11250	590138	7132654	350,646	NWT Mineral Claim	Ice Road/Drilling	350,646	35,065
Unnamed 11256	583340	7133239	24,855	NWT Mineral Lease	Ice Road/Drilling	24,855	2,485
Unnamed 11264	587322	7133295	21,487	NWT Mineral Claim	Ice Road/Drilling	21,487	2,149
Unnamed 11281	585322	7133118	87,920	NWT Mineral Lease	Ice Road/Drilling	87,920	8,792
Unnamed 11299	591246	7133432	43,170	NWT Mineral Claim	Ice Road/Drilling	43,170	4,317
Unnamed 11308	581408	7133641	2,410	NWT Mineral Lease	Ice Road/Drilling	2,410	241
Unnamed 11309	585055	7133626	5,264	NWT Mineral Lease	Ice Road/Drilling	5,264	526
Unnamed 11318	589623	7133676	4,170	NWT Mineral Claim	Ice Road/Drilling	4,170	417
Unnamed 11320	595925	7133495	95,705	NWT Mineral Claim	Ice Road/Drilling	95,705	9,571
Unnamed 11370	591165	7133783	51,753	NWT Mineral Claim	Ice Road/Drilling	51,753	5,175
Unnamed 11380	581775	7133944	18,378	NWT Mineral Lease	Ice Road/Drilling	18,378	1,838
Unnamed 11381	589561	7134003	4,067	NWT Mineral Claim	Ice Road/Drilling	4,067	407
Unnamed 11386	595336	7133997	14,730	NWT Mineral Claim	Ice Road/Drilling	14,730	1,473
Unnamed 11409	595942	7134140	7,641	NWT Mineral Claim	Ice Road/Drilling	7,641	764
Unnamed 11438	591313	7134345	10,670	NWT Mineral Claim	Ice Road/Drilling	10,670	1,067
Unnamed 11451	583144	7134309	51,955	NWT Mineral Lease	Ice Road/Drilling	51,955	5,196
Unnamed 11455	585237	7134263	27,690	NWT Mineral Lease	Ice Road/Drilling	27,690	2,769
Unnamed 11456	586312	7134474	2,501	NWT Mineral Lease	Ice Road/Drilling	2,501	250
Unnamed 11465	584924	7134467	11,067	NWT Mineral Lease	Ice Road/Drilling	11,067	1,107
Unnamed 11472	587037	7133303	536,995	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	536,995	53,700
Unnamed 11486	595692	7134544	31,211	NWT Mineral Claim	Ice Road/Drilling	31,211	3,121
Unnamed 11487	583328	7134641	7,771	NWT Mineral Lease	Ice Road/Drilling	7,771	777
Unnamed 11490	581742	7134594	17,251	NWT Mineral Lease	Ice Road/Drilling	17,251	1,725
Unnamed 11492	589383	7134657	4,958	NWT Mineral Claim	Ice Road/Drilling	4,958	496
Unnamed 11496	586115	7134454	97,399	NWT Mineral Lease	Ice Road/Drilling	97,399	9,740
Unnamed 11514	581050	7134696	23,070	NWT Mineral Lease	Ice Road/Drilling	23,070	2,307
Unnamed 11516	587174	7134764	23,679	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	23,679	2,368
Unnamed 11523	589919	7134865	10,972	NWT Mineral Claim	Ice Road/Drilling	10,972	1,097
Unnamed 11529	582395	7134916	8,319	NWT Mineral Lease	Ice Road/Drilling	8,319	832
Unnamed 11537	587669	7134747	114,250	NWT Mineral Claim	Ice Road/Drilling	114,250	11,425
Unnamed 11546	582052	7134993	13,071	NWT Mineral Lease	Ice Road/Drilling	13,071	1,307
Unnamed 11552	586096	7134961	13,363	NWT Mineral Lease	Ice Road/Drilling	13,363	1,336
Unnamed 11556	583475	7134934	23,196	NWT Mineral Lease	Ice Road/Drilling	23,196	2,320
Unnamed 11573	581400	7135147	8,517	NWT Mineral Lease	Ice Road/Drilling	8,517	852
Unnamed 11578	588163	7134904	79,597	NWT Mineral Claim	Ice Road/Drilling	79,597	7,960
Unnamed 11579	587325	7135142	10,935	NWT Mineral Claim	Ice Road/Drilling	10,935	1,093
Unnamed 11580	585770	7135109	53,036	NWT Mineral Lease	Ice Road/Drilling	53,036	5,304
Unnamed 11581	589854	7135089	61,250	NWT Mineral Claim	Ice Road/Drilling	61,250	6,125
Unnamed 11589	588847	7135211	22,912	NWT Mineral Claim	Ice Road/Drilling	22,912	2,291
Unnamed 11593	581270	7135197	14,765	NWT Mineral Lease	Ice Road/Drilling	14,765	1,476
Unnamed 11594	582982	7135204	23,046	NWT Mineral Lease	Ice Road/Drilling	23,046	2,305
Unnamed 11602	581133	7135279	8,625	NWT Mineral Lease	Ice Road/Drilling	8,625	863
Unnamed 11606	591393	7135314	6,763	NWT Mineral Claim	Ice Road/Drilling	6,763	676
Unnamed 11607	583537	7135305	4,579	NWT Mineral Lease	Ice Road/Drilling	4,579	458
Unnamed 11612	591512	7135372	2,731	NWT Mineral Claim	Ice Road/Drilling	2,731	273
Unnamed 11618	580907	7135242	23,590	NWT Mineral Lease	Ice Road/Drilling	23,590	2,359
Unnamed 11622	582499	7135386	5,479	NWT Mineral Lease	Ice Road/Drilling	5,479	548
Unnamed 11634	586385	7135250	84,106	NWT Mineral Lease	Ice Road/Drilling	84,106	8,411
Unnamed 11673	592110	7135586	29,040	NWT Mineral Claim	Ice Road/Drilling	29,040	2,904
Unnamed 11674	590731	7135526	33,019	NWT Mineral Claim	Ice Road/Drilling	33,019	3,302
Unnamed 11678	587650	7135606	46,690	NWT Mineral Claim	Ice Road/Drilling	46,690	4,669
Unnamed 11683	596323	7135350	81,245	NWT Mineral Claim	Ice Road/Drilling	81,245	8,124
Unnamed 11688	590555	7134738	647,757	NWT Mineral Claim	Ice Road/Drilling	647,757	64,776
Unnamed 11691	586322	7135708	9,961	NWT Mineral Lease	Ice Road/Drilling	9,961	996
Unnamed 11695	580551	7135795	1,823	NWT Mineral Lease	Ice Road/Drilling	1,823	182
Unnamed 11711	585478	7135761	18,724	NWT Mineral Lease	Ice Road/Drilling	18,724	1,872
Unnamed 11742	590778	7135897	15,961	NWT Mineral Claim	Ice Road/Drilling	15,961	1,596
Unnamed 11744	595477	7135973	4,851	NWT Mineral Claim	Ice Road/Drilling	4,851	485
Unnamed 11746	595785	7135990	4,355	NWT Mineral Claim	Ice Road/Drilling	4,355	435



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 11755	591227	7136032	5,917	NWT Mineral Claim	Ice Road/Drilling	5,917	592
Unnamed 11759	580810	7136029	5,429	NWT Mineral Lease	Ice Road/Drilling	5,429	543
Unnamed 11776	596488	7136055	13,685	NWT Mineral Claim	Ice Road/Drilling	13,685	1,369
Unnamed 11792	592479	7136030	48,819	NWT Mineral Claim	Ice Road/Drilling	48,819	4,882
Unnamed 11801	588746	7135872	198,984	NWT Mineral Claim	Ice Road/Drilling	198,984	19,898
Unnamed 11803	595707	7136183	4,140	NWT Mineral Claim	Ice Road/Drilling	4,140	414
Unnamed 11810	590956	7136173	13,537	NWT Mineral Claim	Ice Road/Drilling	13,537	1,354
Unnamed 11816	585873	7136148	40,710	NWT Mineral Lease	Ice Road/Drilling	40,710	4,071
Unnamed 11827	589133	7136229	20,345	NWT Mineral Claim	Ice Road/Drilling	20,345	2,035
Unnamed 11829	585402	7136274	20,714	NWT Mineral Lease	Ice Road/Drilling	20,714	2,071
Unnamed 11834	584714	7136302	9,533	NWT Mineral Lease	Ice Road/Drilling	9,533	953
Unnamed 11842	585618	7136439	2,102	NWT Mineral Lease	Ice Road/Drilling	2,102	210
Unnamed 11846	593313	7136329	20,385	NWT Mineral Claim	Ice Road/Drilling	20,385	2,039
Unnamed 11849	590968	7136388	12,516	NWT Mineral Claim	Ice Road/Drilling	12,516	1,252
Unnamed 11855	589619	7136472	7,761	NWT Mineral Claim	Ice Road/Drilling	7,761	776
Unnamed 11856	588600	7136416	15,075	NWT Mineral Claim	Ice Road/Drilling	15,075	1,507
Unnamed 11857	588055	7136194	88,377	NWT Mineral Claim	Ice Road/Drilling	88,377	8,838
Unnamed 11864	581940	7135957	244,703	NWT Mineral Lease	Ice Road/Drilling	244,703	24,470
Unnamed 11894	590504	7136529	79,434	NWT Mineral Claim	Ice Road/Drilling	79,434	7,943
Unnamed 11895	580420	7136476	137,989	NWT Mineral Lease	Ice Road/Drilling	137,989	13,799
Unnamed 11901	585125	7136599	37,078	NWT Mineral Lease	Ice Road/Drilling	37,078	3,708
Unnamed 11909	588164	7136706	6,533	NWT Mineral Claim	Ice Road/Drilling	6,533	653
Unnamed 11915	596679	7136608	34,474	NWT Mineral Claim	Ice Road/Drilling	34,474	3,447
Unnamed 11917	587147	7136524	118,769	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	118,769	11,877
Unnamed 11935	591585	7136716	66,557	NWT Mineral Claim	Ice Road/Drilling	66,557	6,656
Unnamed 11945	581800	7136687	46,591	NWT Mineral Lease	Ice Road/Drilling	46,591	4,659
Unnamed 11947	584870	7136838	35,292	NWT Mineral Lease	Ice Road/Drilling	35,292	3,529
Unnamed 11949	592917	7136939	9,286	NWT Mineral Claim	Ice Road/Drilling	9,286	929
Unnamed 11950	590547	7136912	17,037	NWT Mineral Claim	Ice Road/Drilling	17,037	1,704
Unnamed 11973	593283	7136962	43,514	NWT Mineral Claim	Ice Road/Drilling	43,514	4,351
Unnamed 11980	593561	7137123	2,191	NWT Mineral Claim	Ice Road/Drilling	2,191	219
Unnamed 11982	595189	7136960	47,026	NWT Mineral Claim	Ice Road/Drilling	47,026	4,703
Unnamed 11984	595871	7137039	18,889	NWT Mineral Claim	Ice Road/Drilling	18,889	1,889
Unnamed 11985	592564	7137144	3,468	NWT Mineral Claim	Ice Road/Drilling	3,468	347
Unnamed 12003	594879	7137167	25,099	NWT Mineral Claim	Ice Road/Drilling	25,099	2,510
Unnamed 12019	590598	7137224	31,678	NWT Mineral Claim	Ice Road/Drilling	31,678	3,168
Unnamed 12035	592962	7137316	12,885	NWT Mineral Claim	Ice Road/Drilling	12,885	1,288
Unnamed 12037	594315	7136797	114,372	NWT Mineral Claim	Ice Road/Drilling	114,372	11,437
Unnamed 12055	581575	7137493	2,645	NWT Mineral Lease	Ice Road/Drilling	2,645	265
Unnamed 12077	596948	7137313	46,802	NWT Mineral Claim	Ice Road/Drilling	46,802	4,680
Unnamed 12098	584184	7137403	241,448	NWT Mineral Lease	Ice Road/Drilling	241,448	24,145
Unnamed 12098	584184	7137403	241,448	NWT Mineral Lease	Ice Road/Drilling	241,448	24,145
Unnamed 12101	593648	7137726	9,046	NWT Mineral Claim	Ice Road/Drilling	9,046	905
Unnamed 12108	590080	7137158	247,740	NWT Mineral Claim	Ice Road/Drilling	247,740	24,774
Unnamed 12113	592376	7137743	12,052	NWT Mineral Claim	Ice Road/Drilling	12,052	1,205
Unnamed 12119	596297	7137801	6,408	NWT Mineral Claim	Ice Road/Drilling	6,408	641
Unnamed 12145	584421	7137921	13,206	NWT Mineral Lease	Ice Road/Drilling	13,206	1,321
Unnamed 12149	584686	7137870	28,386	NWT Mineral Lease	Ice Road/Drilling	28,386	2,839
Unnamed 12150	582619	7137902	30,546	NWT Mineral Lease	Ice Road/Drilling	30,546	3,055
Unnamed 12156	590549	7137906	32,941	NWT Mineral Claim	Ice Road/Drilling	32,941	3,294
Unnamed 12167	585180	7137406	225,839	NWT Mineral Lease NWT Mineral Lease	Ice Road/Drilling	225,839	22,584
Unnamed 12180	588463	7137670	189,667	NWT Mineral Claim NWT Mineral Claim	Ice Road/Drilling	189,667	18,967
Unnamed 12191	590962	7137994	84,813	NWT Mineral Claim	Ice Road/Drilling	84,813	8,481
Unnamed 12193	590268	7138168	1,189	NWT Mineral Claim	Ice Road/Drilling	1,189	119
Unnamed 12195	593410	7138164	3,055	NWT Mineral Claim	Ice Road/Drilling	3,055	305
Unnamed 12198	583646	7138170	2,613	NWT Mineral Lease	Ice Road/Drilling	2,613	261
Unnamed 12223	584557	7138272	8,436	NWT Mineral Lease	Ice Road/Drilling	8,436	844
Unnamed 12231	590778	7138310	3,082	NWT Mineral Claim	Ice Road/Drilling	3,082	308
Unnamed 12249	590057	7138176	34,929	NWT Mineral Claim	Ice Road/Drilling	34,929	3,493
Unnamed 12258	589057	7138335	20,644	NWT Mineral Claim	Ice Road/Drilling	20,644	2,064
Unnamed 12262	585024	7138368	18,094	NWT Mineral Lease	Ice Road/Drilling	18,094	1,809
Unnamed 12269	583597	7138437	4,742	NWT Mineral Lease	Ice Road/Drilling	4,742	474
Unnamed 12279	593219	7138504	4,400	NWT Mineral Claim	Ice Road/Drilling	4,400	440
Unnamed 12287	584382	7138486	13,142	NWT Mineral Lease	Ice Road/Drilling	13,142	1,314
Unnamed 12302	591068	7138441	66,488	NWT Mineral Claim	Ice Road/Drilling	66,488	6,649
Unnamed 12304	592122	7137991	236,994	NWT Mineral Claim	Ice Road/Drilling	236,994	23,699
Unnamed 12305	582950	7138618	5,512	NWT Mineral Lease	Ice Road/Drilling	5,512	551
Unnamed 12307	590843	7138618	4,451	NWT Mineral Claim	Ice Road/Drilling	4,451	445
Unnamed 12322	589844	7138666	12,224	NWT Mineral Claim	Ice Road/Drilling	12,224	1,222
Unnamed 12324	594695	7138173	171,747	NWT Mineral Claim	Ice Road/Drilling	171,747	17,175
Unnamed 12333	588084	7138736	5,694	NWT Mineral Claim	Ice Road/Drilling	5,694	569
Unnamed 12342	582556	7138523	194,332	NWT Mineral Lease	Ice Road/Drilling	194,332	19,433
Unnamed 12362	594045	7138086	413,273	NWT Mineral Claim	Ice Road/Drilling	413,273	41,327
Unnamed 12364	589715	7138846	15,371	NWT Mineral Claim Federal Mineral Lease	Ice Road/Drilling	15,371	1,537
Unnamed 12368	591915	7138919	1,540	Federal Mineral Lease	Ice Road/Drilling	1,540	154
Unnamed 12377	596278	7138957	2,472	NWT Mineral Claim	Ice Road/Drilling	2,472	247
Unnamed 12395	603479	7138845	64,944	NWT Mineral Claim	Ice Road/Drilling	64,944	6,494
Unnamed 12400	591952	7139063	3,584	Federal Mineral Lease	Ice Road/Drilling	3,584	358
Unnamed 12407	583833	7138794	26,938	NWT Mineral Lease	Ice Road/Drilling	26,938	2,694
Unnamed 12420	582572	7138986	170,521	NWT Mineral Lease	Ice Road/Drilling	170,521	17,052
Unnamed 12427	587533	7139244	1,626	NWT Mineral Claim	Ice Road/Drilling	1,626	163
Unnamed 12437	590183	7139256	8,584	Federal Mineral Lease	Ice Road/Drilling	8,584	858
Unnamed 12446	591364	7139304	12,791	Federal Mineral Lease	Ice Road/Drilling	12,791	1,279
Unnamed 12448	585111	7139260	17,323	NWT Mineral Lease	Ice Road/Drilling	17,323	1,732
Unnamed 12451	586393	7138217	653,622	NWT Mineral Lease	Ice Road/Drilling	653,622	65,362
Unnamed 12459	587614	7139376	4,412	NWT Mineral Claim	Ice Road/Drilling	4,412	441
Unnamed 12465	587791	7139440	3,479	NWT Mineral Claim	Ice Road/Drilling	3,479	348
Unnamed 12466	590824	7139341	17,331	Federal Mineral Lease	Ice Road/Drilling	17,331	1,733
Unnamed 12471	586177	7139381	15,847	NWT Mineral Lease	Ice Road/Drilling	15,847	1,585
Unnamed 12474	582971	7139455	35,841	NWT Mineral Lease	Ice Road/Drilling	35,841	3,584



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 12475	603965	7139350	41,060	NWT Mineral Claim	Ice Road/Drilling	41,060	4,106
Unnamed 12488	581240	7138398	800,756	NWT Mineral Lease	Ice Road/Drilling	800,756	80,076
Unnamed 12501	604638	7139505	31,140	NWT Mineral Claim	Ice Road/Drilling	31,140	3,114
Unnamed 12505	583437	7139612	21,107	NWT Mineral Lease	Ice Road/Drilling	21,107	2,111
Unnamed 12508	587928	7139539	25,744	NWT Mineral Claim	Ice Road/Drilling	25,744	2,574
Unnamed 12509	597280	7139498	31,075	NWT Mineral Claim	Ice Road/Drilling	31,075	3,108
Unnamed 12511	594669	7139607	32,179	Federal Mineral Lease	Ice Road/Drilling	32,179	3,218
Unnamed 12516	596065	7139731	5,223	NWT Mineral Claim	Ice Road/Drilling	5,223	522
Unnamed 12521	588891	7139055	537,298	NWT Mineral Claim	Ice Road/Drilling	537,298	53,730
				Federal Mineral Lease			
Unnamed 12530	590573	7139782	21,756	Federal Mineral Lease	Ice Road/Drilling	21,756	2,176
Unnamed 12544	596683	7139860	28,541	NWT Mineral Claim	Ice Road/Drilling	28,541	2,854
Unnamed 12561	583561	7139871	34,132	NWT Mineral Lease	Ice Road/Drilling	34,132	3,413
Unnamed 12565	583401	7140054	4,516	NWT Mineral Lease	Ice Road/Drilling	4,516	452
Unnamed 12567	589403	7140051	10,045	Federal Mineral Lease	Ice Road/Drilling	10,045	1,005
Unnamed 12578	584564	7140133	2,899	NWT Mineral Lease	Ice Road/Drilling	2,899	290
Unnamed 12585	582819	7140095	40,198	NWT Mineral Lease	Ice Road/Drilling	40,198	4,020
Unnamed 12607	591079	7140012	74,031	Federal Mineral Lease	Ice Road/Drilling	74,031	7,403
Unnamed 12608	604574	7140306	8,415	NWT Mineral Claim	Ice Road/Drilling	8,415	841
Unnamed 12609	605001	7140073	135,553	NWT Mineral Claim	Ice Road/Drilling	135,553	13,555
Unnamed 12613	596057	7140334	7,164	NWT Mineral Claim	Ice Road/Drilling	7,164	716
Unnamed 12623	592510	7140335	14,364	Federal Mineral Lease	Ice Road/Drilling	14,364	1,436
Unnamed 12625	594577	7140342	16,416	Federal Mineral Lease	Ice Road/Drilling	16,416	1,642
Unnamed 12626	591516	7139995	89,133	Federal Mineral Lease	Ice Road/Drilling	89,133	8,913
Unnamed 12634	586197	7140190	62,184	NWT Mineral Lease	Ice Road/Drilling	62,184	6,218
Unnamed 12635	587632	7140284	80,420	NWT Mineral Claim	Ice Road/Drilling	80,420	8,042
Unnamed 12643	582954	7140486	3,602	NWT Mineral Lease	Ice Road/Drilling	3,602	360
Unnamed 12644	582129	7140404	22,809	NWT Mineral Lease	Ice Road/Drilling	22,809	2,281
Unnamed 12647	587447	7140523	4,622	NWT Mineral Claim	Ice Road/Drilling	4,622	462
Unnamed 12655	589832	7140051	308,657	Federal Mineral Lease	Ice Road/Drilling	308,657	30,866
Unnamed 12658	604962	7140448	41,644	NWT Mineral Claim	Ice Road/Drilling	41,644	4,164
Unnamed 12659	586625	7140044	274,818	NWT Mineral Lease	Ice Road/Drilling	274,818	27,482
Unnamed 12660	584390	7140125	96,010	NWT Mineral Lease	Ice Road/Drilling	96,010	9,601
Unnamed 12662	590652	7140536	9,437	Federal Mineral Lease	Ice Road/Drilling	9,437	944
Unnamed 12664	592309	7140580	2,050	Federal Mineral Lease	Ice Road/Drilling	2,050	205
Unnamed 12672	604736	7140603	6,969	NWT Mineral Claim	Ice Road/Drilling	6,969	697
Unnamed 12676	593965	7140642	2,245	Federal Mineral Lease	Ice Road/Drilling	2,245	224
Unnamed 12679	589737	7140681	1,382	Federal Mineral Lease	Ice Road/Drilling	1,382	138
Unnamed 12687	603976	7140638	38,818	NWT Mineral Claim	Ice Road/Drilling	38,818	3,882
Unnamed 12700	584517	7140732	9,098	NWT Mineral Lease	Ice Road/Drilling	9,098	910
Unnamed 12718	597718	7140666	85,914	NWT Mineral Claim	Ice Road/Drilling	85,914	8,591
Unnamed 12726	590316	7140826	12,920	Federal Mineral Lease	Ice Road/Drilling	12,920	1,292
Unnamed 12736	585958	7140971	16,352	NWT Mineral Lease	Ice Road/Drilling	16,352	1,635
Unnamed 12743	596467	7141014	2,075	NWT Mineral Claim	Ice Road/Drilling	2,075	208
Unnamed 12749	583591	7140827	79,001	NWT Mineral Lease	Ice Road/Drilling	79,001	7,900
Unnamed 12754	603258	7140506	340,016	NWT Mineral Claim	Ice Road/Drilling	340,016	34,002
Unnamed 12755	582958	7140960	46,041	NWT Mineral Lease	Ice Road/Drilling	46,041	4,604
Unnamed 12764	590542	7141021	21,886	Federal Mineral Lease	Ice Road/Drilling	21,886	2,189
Unnamed 12766	588754	7141106	7,213	NWT Mineral Claim	Ice Road/Drilling	7,213	721
Unnamed 12775	591097	7141137	6,201	Federal Mineral Lease	Ice Road/Drilling	6,201	620
Unnamed 12785	597971	7141091	31,813	NWT Mineral Claim	Ice Road/Drilling	31,813	3,181
Unnamed 12788	604335	7141151	15,803	NWT Mineral Claim	Ice Road/Drilling	15,803	1,580
Unnamed 12789	591389	7140821	111,111	Federal Mineral Lease	Ice Road/Drilling	111,111	11,111
Unnamed 12790	605547	7141095	39,817	NWT Mineral Claim	Ice Road/Drilling	39,817	3,982
Unnamed 12791	587470	7141084	26,045	NWT Mineral Claim	Ice Road/Drilling	26,045	2,604
Unnamed 12800	586153	7141246	8,297	NWT Mineral Lease	Ice Road/Drilling	8,297	830
Unnamed 12801	593758	7141205	14,104	NWT Mineral Claim	Ice Road/Drilling	14,104	1,410
				Federal Mineral Lease			
Unnamed 12814	605328	7141336	2,861	NWT Mineral Claim	Ice Road/Drilling	2,861	286
Unnamed 12816	596924	7141180	53,224	NWT Mineral Claim	Ice Road/Drilling	53,224	5,322
Unnamed 12834	589153	7141377	18,760	NWT Mineral Claim	Ice Road/Drilling	18,760	1,876
				Federal Mineral Lease			0
Unnamed 12840	585015	7141427	7,890	NWT Mineral Lease	Ice Road/Drilling	7,890	789
Unnamed 12845	589675	7141348	25,236	Federal Mineral Lease	Ice Road/Drilling	25,236	2,524
Unnamed 12847	597886	7141424	15,888	NWT Mineral Claim	Ice Road/Drilling	15,888	1,589
Unnamed 12848	593590	7141304	51,371	NWT Mineral Claim	Ice Road/Drilling	51,371	5,137
				Federal Mineral Lease			
Unnamed 12857	590683	7141506	8,617	Federal Mineral Lease	Ice Road/Drilling	8,617	862
Unnamed 12862	603054	7141273	127,391	NWT Mineral Claim	Ice Road/Drilling	127,391	12,739
Unnamed 12867	597326	7141492	44,075	NWT Mineral Claim	Ice Road/Drilling	44,075	4,407
Unnamed 12889	590833	7141703	3,015	Federal Mineral Lease	Ice Road/Drilling	3,015	302
Unnamed 12891	587536	7141613	24,152	NWT Mineral Claim	Ice Road/Drilling	24,152	2,415
Unnamed 12910	596221	7141764	6,204	NWT Mineral Claim	Ice Road/Drilling	6,204	620
Unnamed 12918	604983	7141797	9,773	NWT Mineral Claim	Drilling	9,773	977
Unnamed 12920	597398	7141874	4,377	NWT Mineral Claim	Ice Road/Drilling	4,377	438
Unnamed 12927	598104	7141757	30,583	NWT Mineral Claim	Ice Road/Drilling	30,583	3,058
Unnamed 12928	605423	7141827	46,521	NWT Mineral Claim	Drilling	46,521	4,652
Unnamed 12930	592848	7141872	19,742	Federal Mineral Lease	Ice Road/Drilling	19,742	1,974
Unnamed 12933	585232	7141562	208,775	NWT Mineral Lease	Ice Road/Drilling	208,775	20,877
Unnamed 12941	604332	7141953	6,251	NWT Mineral Claim	Ice Road/Drilling	6,251	625
Unnamed 12942	593637	7140041	1,588,957	NWT Mineral Claim	Ice Road/Drilling	1,588,957	158,896
				Federal Mineral Lease			
Unnamed 12949	593865	7141964	10,786	NWT Mineral Claim	Ice Road/Drilling	10,786	1,079
Unnamed 12961	586817	7141449	384,140	NWT Mineral Lease	Ice Road/Drilling	384,140	38,414
				NWT Mineral Claim			
Unnamed 12974	594896	7142108	4,436	NWT Mineral Claim	Ice Road/Drilling	4,436	444
Unnamed 12984	592640	7142179	1,342	Federal Mineral Lease	Ice Road/Drilling	1,342	134
Unnamed 12985	585539	7142068	41,127	NWT Mineral Lease	Ice Road/Drilling	41,127	4,113
Unnamed 12987	584916	7142182	2,372	NWT Mineral Lease	Ice Road/Drilling	2,372	237
Unnamed 12992	588077	7141727	112,754	NWT Mineral Claim	Ice Road/Drilling	112,754	11,275
Unnamed 12997	592782	7142191	16,759	Federal Mineral Lease	Ice Road/Drilling	16,759	1,676
Unnamed 12998	587063	7142177	27,663	NWT Mineral Lease	Ice Road/Drilling	27,663	2,766
Unnamed 13000	591401	7142233	4,152	Federal Mineral Lease	Ice Road/Drilling	4,152	415



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 13002	593093	7141190	432,983	NWT Mineral Claim	Ice Road/Drilling	432,983	43,298
				Federal Mineral Lease			
Unnamed 13011	602947	7142318	2,626	NWT Mineral Claim	Ice Road/Drilling	2,626	263
Unnamed 13020	585282	7142316	10,543	NWT Mineral Lease	Ice Road/Drilling	10,543	1,054
Unnamed 13022	587204	7142343	4,996	NWT Mineral Lease	Ice Road/Drilling	4,996	500
				NWT Mineral Claim			
Unnamed 13027	598516	7142367	9,026	NWT Mineral Claim	Ice Road/Drilling	9,026	903
Unnamed 13028	583253	7142403	1,725	NWT Mineral Lease	Ice Road/Drilling	1,725	173
Unnamed 13033	591564	7141802	202,635	Federal Mineral Lease	Ice Road/Drilling	202,635	20,263
Unnamed 13037	599156	7142351	52,078	NWT Mineral Claim	Ice Road/Drilling	52,078	5,208
Unnamed 13038	601554	7142360	30,236	NWT Mineral Claim	Ice Road/Drilling	30,236	3,024
Unnamed 13042	583448	7142465	1,899	NWT Mineral Lease	Ice Road/Drilling	1,899	190
Unnamed 13043	599609	7142473	5,097	NWT Mineral Claim	Ice Road/Drilling	5,097	510
Unnamed 13046	586458	7142438	9,001	NWT Mineral Lease	Ice Road/Drilling	9,001	900
Unnamed 13048	597121	7142452	12,690	NWT Mineral Claim	Ice Road/Drilling	12,690	1,269
Unnamed 13052	589415	7142381	54,999	Federal Mineral Lease	Ice Road/Drilling	54,999	5,500
Unnamed 13056	593963	7142319	33,322	NWT Mineral Claim	Ice Road/Drilling	33,322	3,332
Unnamed 13069	597841	7142566	1,731	NWT Mineral Claim	Ice Road/Drilling	1,731	173
Unnamed 13077	586345	7142585	2,455	NWT Mineral Lease	Ice Road/Drilling	2,455	246
Unnamed 13080	592987	7142559	10,253	Federal Mineral Lease	Ice Road/Drilling	10,253	1,025
Unnamed 13082	594229	7142620	1,541	NWT Mineral Claim	Ice Road/Drilling	1,541	154
Unnamed 13087	585445	7142601	16,700	NWT Mineral Lease	Ice Road/Drilling	16,700	1,670
Unnamed 13091	587943	7142391	94,406	NWT Mineral Claim	Ice Road/Drilling	94,406	9,441
Unnamed 13107	605390	7142491	75,260	NWT Mineral Claim	Drilling	75,260	7,526
Unnamed 13109	584768	7142746	3,713	NWT Mineral Lease	Ice Road/Drilling	3,713	371
Unnamed 13124	596373	7142842	5,731	NWT Mineral Claim	Ice Road/Drilling	5,731	573
Unnamed 13130	595511	7142825	6,625	NWT Mineral Claim	Ice Road/Drilling	6,625	662
Unnamed 13136	589879	7142917	1,401	NWT Mineral Lease	Ice Road/Drilling	1,401	140
Unnamed 13139	595245	7142879	13,053	NWT Mineral Claim	Ice Road/Drilling	13,053	1,305
Unnamed 13140	589615	7142846	16,952	NWT Mineral Lease	Ice Road/Drilling	16,952	1,695
Unnamed 13142	593192	7142905	7,407	Federal Mineral Lease	Ice Road/Drilling	7,407	741
Unnamed 13152	599801	7142981	9,112	NWT Mineral Claim	Ice Road/Drilling	9,112	911
Unnamed 13154	594025	7142994	7,238	NWT Mineral Claim	Ice Road/Drilling	7,238	724
Unnamed 13157	596657	7142942	30,591	NWT Mineral Claim	Ice Road/Drilling	30,591	3,059
Unnamed 13177	593815	7142854	45,905	NWT Mineral Claim	Ice Road/Drilling	45,905	4,590
Unnamed 13178	593444	7142717	59,443	Federal Mineral Lease	Ice Road/Drilling	59,443	5,944
				NWT Mineral Claim			
Unnamed 13184	588709	7142746	275,442	NWT Mineral Lease	Ice Road/Drilling	275,442	27,544
				NWT Mineral Claim			
				Federal Mineral Lease			
				NWT Mineral Claim			
Unnamed 13204	583508	7143048	57,016	NWT Mineral Lease	Ice Road/Drilling	57,016	5,702
Unnamed 13205	602888	7143204	1,094	NWT Mineral Claim	Drilling	1,094	109
Unnamed 13211	595118	7143168	8,024	NWT Mineral Claim	Ice Road/Drilling	8,024	802
Unnamed 13217	605150	7143273	2,588	NWT Mineral Claim	Drilling	2,588	259
Unnamed 13219	593859	7143266	3,450	NWT Mineral Claim	Ice Road/Drilling	3,450	345
Unnamed 13229	587324	7143345	3,808	NWT Mineral Lease	Ice Road/Drilling	3,808	381
Unnamed 13236	594558	7142851	207,614	NWT Mineral Claim	Ice Road/Drilling	207,614	20,761
Unnamed 13237	596266	7143378	1,719	NWT Mineral Claim	Ice Road/Drilling	1,719	172
Unnamed 13239	598077	7143384	1,689	NWT Mineral Claim	Ice Road/Drilling	1,689	169
Unnamed 13240	605339	7143198	58,188	NWT Mineral Claim	Drilling	58,188	5,819
Unnamed 13246	586996	7143367	30,814	NWT Mineral Lease	Ice Road/Drilling	30,814	3,081
Unnamed 13251	601239	7142865	641,670	NWT Mineral Claim	Ice Road/Drilling	641,670	64,167
Unnamed 13263	589798	7143348	106,607	NWT Mineral Lease	Ice Road/Drilling	106,607	10,661
Unnamed 13265	598227	7143497	9,854	NWT Mineral Claim	Ice Road/Drilling	9,854	985
Unnamed 13271	597047	7143489	12,285	NWT Mineral Claim	Ice Road/Drilling	12,285	1,229
Unnamed 13297	584358	7143531	30,442	NWT Mineral Lease	Ice Road/Drilling	30,442	3,044
Unnamed 13307	597744	7143665	32,625	NWT Mineral Claim	Ice Road/Drilling	32,625	3,263
Unnamed 13311	602725	7143229	94,720	NWT Mineral Claim	Drilling	94,720	9,472
Unnamed 13322	600191	7143539	77,332	NWT Mineral Claim	Ice Road/Drilling	77,332	7,733
Unnamed 13331	599399	7143821	9,388	NWT Mineral Claim	Ice Road/Drilling	9,388	939
Unnamed 13338	598138	7143819	17,669	NWT Mineral Claim	Ice Road/Drilling	17,669	1,767
Unnamed 13347	590317	7143914	3,218	NWT Mineral Lease	Ice Road/Drilling	3,218	322
Unnamed 13352	590619	7143890	8,560	NWT Mineral Lease	Ice Road/Drilling	8,560	856
Unnamed 13353	593440	7143701	63,975	NWT Mineral Claim	Ice Road/Drilling	63,975	6,397
				Federal Mineral Lease			
Unnamed 13361	589130	7143946	6,372	NWT Mineral Lease	Ice Road/Drilling	6,372	637
Unnamed 13362	583210	7143743	56,365	NWT Mineral Lease	Ice Road/Drilling	56,365	5,637
Unnamed 13364	598487	7143976	2,606	NWT Mineral Claim	Ice Road/Drilling	2,606	261
Unnamed 13372	597455	7144001	14,919	NWT Mineral Claim	Ice Road/Drilling	14,919	1,492
Unnamed 13374	596941	7143969	24,193	NWT Mineral Claim	Ice Road/Drilling	24,193	2,419
Unnamed 13379	589359	7143942	55,926	NWT Mineral Lease	Ice Road/Drilling	55,926	5,593
Unnamed 13385	597275	7144063	3,458	NWT Mineral Claim	Ice Road/Drilling	3,458	346
Unnamed 13387	593391	7144044	7,188	NWT Mineral Claim	Ice Road/Drilling	7,188	719
				Federal Mineral Lease			
Unnamed 13389	594548	7143836	184,248	NWT Mineral Claim	Ice Road/Drilling	184,248	18,425
Unnamed 13393	588182	7143930	23,045	NWT Mineral Lease	Ice Road/Drilling	23,045	2,304
Unnamed 13394	597443	7144132	1,142	NWT Mineral Claim	Ice Road/Drilling	1,142	114
Unnamed 13397	592908	7143479	180,403	Federal Mineral Lease	Ice Road/Drilling	180,403	18,040
Unnamed 13398	596290	7144051	11,153	NWT Mineral Claim	Ice Road/Drilling	11,153	1,115
Unnamed 13415	597147	7144179	5,982	NWT Mineral Claim	Ice Road/Drilling	5,982	598
Unnamed 13416	601689	7144194	3,152	NWT Mineral Claim	Drilling	3,152	315
Unnamed 13418	589085	7144156	11,203	NWT Mineral Lease	Ice Road/Drilling	11,203	1,120
Unnamed 13419	596844	7144177	5,995	NWT Mineral Claim	Ice Road/Drilling	5,995	599
Unnamed 13423	584226	7144042	54,875	NWT Mineral Lease	Ice Road/Drilling	54,875	5,487
Unnamed 13429	600276	7144224	8,680	NWT Mineral Claim	Ice Road/Drilling	8,680	868
Unnamed 13433	590309	7144249	7,300	NWT Mineral Lease	Ice Road/Drilling	7,300	730
Unnamed 13435	590141	7144274	2,355	NWT Mineral Lease	Ice Road/Drilling	2,355	235
Unnamed 13440	595163	7144315	4,400	NWT Mineral Claim	Ice Road/Drilling	4,400	440
Unnamed 13451	592794	7144305	10,566	Federal Mineral Lease	Ice Road/Drilling	10,566	1,057
Unnamed 13455	584506	7144302	26,603	NWT Mineral Lease	Ice Road/Drilling	26,603	2,660
Unnamed 13457	604063	7144353	18,898	NWT Mineral Claim	Drilling	18,898	1,890
Unnamed 13458	596536	7144367	15,731	NWT Mineral Claim	Ice Road/Drilling	15,731	1,573
Unnamed 13459	586910	7144244	111,811	NWT Mineral Lease	Ice Road/Drilling	111,811	11,181
Unnamed 13460	601455	7144392	4,984	NWT Mineral Claim	Drilling	4,984	498



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 13471	587652	7144350	33,733	NWT Mineral Lease	Ice Road/Drilling	33,733	3,373
Unnamed 13472	597320	7144448	7,727	NWT Mineral Claim	Ice Road/Drilling	7,727	773
Unnamed 13477	602692	7144300	99,981	NWT Mineral Claim	Drilling	99,981	9,998
Unnamed 13478	585095	7144368	53,539	NWT Mineral Lease	Ice Road/Drilling	53,539	5,354
Unnamed 13485	602139	7144235	74,288	NWT Mineral Claim	Drilling	74,288	7,429
Unnamed 13524	591180	7144671	7,199	NWT Mineral Lease	Ice Road/Drilling	7,199	720
Unnamed 13525	601877	7144651	13,085	NWT Mineral Claim	Drilling	13,085	1,308
Unnamed 13539	589794	7144746	4,453	NWT Mineral Lease	Ice Road/Drilling	4,453	445
Unnamed 13540	591356	7144708	13,419	NWT Mineral Lease	Ice Road/Drilling	13,419	1,342
Unnamed 13543	583121	7144481	177,181	NWT Mineral Lease	Ice Road/Drilling	177,181	17,718
Unnamed 13564	604905	7144951	9,452	NWT Mineral Claim	Drilling	9,452	945
Unnamed 13565	583348	7144884	17,978	NWT Mineral Lease	Ice Road/Drilling	17,978	1,798
Unnamed 13584	591967	7145097	1,767	Federal Mineral Lease	Ice Road/Drilling	1,767	177
Unnamed 13585	605070	7145088	1,746	NWT Mineral Claim	Drilling	1,746	175
Unnamed 13596	591294	7145113	5,902	NWT Mineral Lease	Ice Road/Drilling	5,902	590
Unnamed 13603	603791	7145095	48,446	NWT Mineral Claim	Drilling	48,446	4,845
Unnamed 13624	587869	7145135	66,604	NWT Mineral Lease	Ice Road/Drilling	66,604	6,660
Unnamed 13625	584533	7145307	1,734	NWT Mineral Lease	Ice Road/Drilling	1,734	173
Unnamed 13628	597718	7145192	30,994	NWT Mineral Claim	Ice Road/Drilling	30,994	3,099
Unnamed 13629	601625	7145264	11,439	NWT Mineral Claim	Drilling	11,439	1,144
Unnamed 13630	592129	7145300	2,977	Federal Mineral Lease	Ice Road/Drilling	2,977	298
Unnamed 13632	595999	7145108	41,159	NWT Mineral Claim	Ice Road/Drilling	41,159	4,116
Unnamed 13640	604301	7145332	8,255	NWT Mineral Claim	Drilling	8,255	826
Unnamed 13646	602588	7145298	26,485	NWT Mineral Claim	Drilling	26,485	2,649
Unnamed 13650	590930	7145191	23,323	NWT Mineral Lease	Ice Road/Drilling	23,323	2,332
Unnamed 13652	598591	7145402	1,051	NWT Mineral Claim	Ice Road/Drilling	1,051	105
Unnamed 13661	587486	7145023	154,731	NWT Mineral Lease	Ice Road/Drilling	154,731	15,473
Unnamed 13666	588303	7145253	108,208	NWT Mineral Lease	Ice Road/Drilling	108,208	10,821
Unnamed 13668	589632	7145013	188,590	NWT Mineral Lease	Ice Road/Drilling	188,590	18,859
Unnamed 13680	605178	7145560	1,199	NWT Mineral Claim	Drilling	1,199	120
Unnamed 13707	603948	7145469	96,461	NWT Mineral Claim	Drilling	96,461	9,646
Unnamed 13710	592465	7145517	93,653	Federal Mineral Lease	Ice Road/Drilling	93,653	9,365
Unnamed 13711	587963	7145594	28,738	NWT Mineral Lease	Ice Road/Drilling	28,738	2,874
Unnamed 13713	589210	7145591	57,579	NWT Mineral Lease	Ice Road/Drilling	57,579	5,758
Unnamed 13715	583356	7145655	19,788	NWT Mineral Lease	Ice Road/Drilling	19,788	1,979
Unnamed 13719	591339	7145750	3,266	NWT Mineral Lease	Ice Road/Drilling	3,266	327
Unnamed 13724	590714	7145724	17,110	NWT Mineral Lease	Ice Road/Drilling	17,110	1,711
Unnamed 13726	601958	7145780	10,307	NWT Mineral Claim	Drilling	10,307	1,031
Unnamed 13729	596967	7145787	3,492	NWT Mineral Claim	Ice Road/Drilling	3,492	349
Unnamed 13746	593840	7145621	75,852	Federal Mineral Lease	Ice Road/Drilling	75,852	7,585
Unnamed 13753	594287	7144786	1,116,755	NWT Mineral Claim	Ice Road/Drilling	1,116,755	111,675
Unnamed 13761	585681	7145987	2,006	NWT Mineral Lease	Ice Road/Drilling	2,006	201
Unnamed 13770	586252	7145938	72,627	NWT Mineral Lease	Ice Road/Drilling	72,627	7,263
Unnamed 13775	591406	7146028	10,015	NWT Mineral Lease Federal Mineral Lease	Ice Road/Drilling	10,015	1,002
Unnamed 13780	584999	7145745	130,493	NWT Mineral Lease	Ice Road/Drilling	130,493	13,049
Unnamed 13791	602510	7145950	47,733	NWT Mineral Claim	Drilling	47,733	4,773
Unnamed 13792	587543	7146016	42,801	NWT Mineral Lease	Ice Road/Drilling	42,801	4,280
Unnamed 13799	592596	7146097	35,442	Federal Mineral Lease	Ice Road/Drilling	35,442	3,544
Unnamed 13809	586999	7146062	39,581	NWT Mineral Lease	Ice Road/Drilling	39,581	3,958
Unnamed 13816	587584	7146303	1,372	NWT Mineral Lease	Ice Road/Drilling	1,372	137
Unnamed 13818	584114	7146300	3,758	NWT Mineral Lease	Ice Road/Drilling	3,758	376
Unnamed 13822	586034	7146334	6,447	NWT Mineral Lease	Ice Road/Drilling	6,447	645
Unnamed 13824	587455	7146361	5,306	NWT Mineral Lease	Ice Road/Drilling	5,306	531
Unnamed 13825	593230	7146288	37,017	Federal Mineral Lease	Ice Road/Drilling	37,017	3,702
Unnamed 13829	594440	7146376	12,146	Federal Mineral Lease	Ice Road/Drilling	12,146	1,215
Unnamed 13831	595205	7146288	24,840	Federal Mineral Lease	Ice Road/Drilling	24,840	2,484
Unnamed 13833	596682	7146346	20,825	NWT Mineral Claim	Ice Road/Drilling	20,825	2,082
Unnamed 13836	584132	7146414	4,060	NWT Mineral Lease	Ice Road/Drilling	4,060	406
Unnamed 13844	594240	7146430	11,065	Federal Mineral Lease	Ice Road/Drilling	11,065	1,106
Unnamed 13847	595528	7146373	25,506	Federal Mineral Lease	Ice Road/Drilling	25,506	2,551
Unnamed 13848	592601	7146451	12,274	Federal Mineral Lease	Ice Road/Drilling	12,274	1,227
Unnamed 13856	586233	7146328	34,883	NWT Mineral Lease	Ice Road/Drilling	34,883	3,488
Unnamed 13861	590612	7146201	72,964	NWT Mineral Lease	Ice Road/Drilling	72,964	7,296
Unnamed 13867	592094	7146528	23,248	Federal Mineral Lease	Ice Road/Drilling	23,248	2,325
Unnamed 13880	585899	7146671	4,730	NWT Mineral Lease	Ice Road/Drilling	4,730	473
Unnamed 13882	583974	7146651	20,024	NWT Mineral Lease	Ice Road/Drilling	20,024	2,002
Unnamed 13883	587494	7146663	19,926	NWT Mineral Lease	Ice Road/Drilling	19,926	1,993
Unnamed 13899	594669	7146732	4,578	Federal Mineral Lease	Ice Road/Drilling	4,578	458
Unnamed 13907	598161	7146641	68,368	NWT Mineral Claim	Ice Road/Drilling	68,368	6,837
Unnamed 13921	595787	7145972	543,669	NWT Mineral Claim	Ice Road/Drilling	543,669	54,367
Unnamed 13921	595787	7145972	543,669	Federal Mineral Lease	Ice Road/Drilling	543,669	54,367
Unnamed 13923	587902	7146713	44,006	NWT Mineral Lease	Ice Road/Drilling	44,006	4,401
Unnamed 13925	605054	7146845	33,933	NWT Mineral Claim	Ice Road/Drilling	33,933	3,393
Unnamed 13938	593124	7146730	66,101	Federal Mineral Lease	Ice Road/Drilling	66,101	6,610
Unnamed 13945	589405	7146566	529,623	NWT Mineral Lease	Drilling	529,623	52,962
Unnamed 13949	585591	7147060	2,791	NWT Mineral Lease	Ice Road/Drilling	2,791	279
Unnamed 13964	595343	7146798	111,566	Federal Mineral Lease	Ice Road/Drilling	111,566	11,157
Unnamed 13965	592327	7147047	14,198	Federal Mineral Lease	Ice Road/Drilling	14,198	1,420
Unnamed 13970	585703	7147145	4,585	NWT Mineral Lease	Ice Road/Drilling	4,585	459
Unnamed 13981	587748	7147131	27,973	NWT Mineral Lease	Ice Road/Drilling	27,973	2,797
Unnamed 13985	603794	7147137	40,434	NWT Mineral Claim	Ice Road/Drilling	40,434	4,043
Unnamed 13997	589361	7147230	41,534	NWT Mineral Lease	Ice Road/Drilling	41,534	4,153
Unnamed 14031	584131	7147431	3,053	NWT Mineral Lease	Ice Road/Drilling	3,053	305
Unnamed 14033	598326	7147449	2,209	NWT Mineral Claim	Drilling	2,209	221
Unnamed 14035	585692	7147451	6,841	NWT Mineral Lease	Ice Road/Drilling	6,841	684
Unnamed 14038	583321	7147442	8,738	NWT Mineral Lease	Ice Road/Drilling	8,738	874
Unnamed 14053	594974	7147370	66,544	Federal Mineral Lease	Ice Road/Drilling	66,544	6,654
Unnamed 14068	596766	7147607	2,241	NWT Mineral Claim	Ice Road/Drilling	2,241	224
Unnamed 14078	597162	7147661	2,022	NWT Mineral Claim	Ice Road/Drilling	2,022	202
Unnamed 14106	588516	7146902	445,819	NWT Mineral Lease	Ice Road/Drilling	445,819	44,582
Unnamed 14109	596488	7147771	11,480	NWT Mineral Claim	Ice Road/Drilling	11,480	1,148
Unnamed 14121	598798	7147926	1,786	NWT Mineral Claim	Ice Road/Drilling	1,786	179
Unnamed 14124	589707	7147683	111,347	NWT Mineral Lease	Ice Road/Drilling	111,347	11,135



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 14128	590491	7147122	495,517	Federal Mineral Lease NWT Mineral Lease	Ice Road/Drilling	495,517	49,552
Unnamed 14130	591507	7147939	14,066	Federal Mineral Lease	Ice Road/Drilling	14,066	1,407
Unnamed 14137	598961	7147820	68,256	NWT Mineral Claim	Ice Road/Drilling	68,256	6,826
Unnamed 14149	585677	7147839	124,198	NWT Mineral Lease	Ice Road/Drilling	124,198	12,420
Unnamed 14150	583598	7147943	34,696	NWT Mineral Lease	Ice Road/Drilling	34,696	3,470
Unnamed 14151	587812	7147766	84,427	NWT Mineral Lease	Ice Road/Drilling	84,427	8,443
Unnamed 14156	587314	7147918	54,804	NWT Mineral Lease	Ice Road/Drilling	54,804	5,480
Unnamed 14157	600410	7145985	6,949,379	NWT Mineral Claim	Ice Road/Drilling	6,949,379	694,938
Unnamed 14158	585336	7148101	3,519	NWT Mineral Lease	Ice Road/Drilling	3,519	352
Unnamed 14161	591699	7148121	7,676	Federal Mineral Lease	Ice Road/Drilling	7,676	768
Unnamed 14162	588412	7148095	10,628	NWT Mineral Lease	Ice Road/Drilling	10,628	1,063
Unnamed 14175	589003	7148212	14,390	NWT Mineral Lease	Ice Road/Drilling	14,390	1,439
Unnamed 14179	604665	7148044	66,400	NWT Mineral Claim	Ice Road/Drilling	66,400	6,640
Unnamed 14187	595408	7147966	107,625	Federal Mineral Lease	Ice Road/Drilling	107,625	10,762
Unnamed 14188	585620	7148324	1,858	NWT Mineral Lease	Ice Road/Drilling	1,858	186
Unnamed 14191	598750	7148211	33,884	NWT Mineral Claim	Drilling	33,884	3,388
Unnamed 14194	585491	7148365	1,311	NWT Mineral Lease	Ice Road/Drilling	1,311	131
Unnamed 14202	584257	7148386	1,710	NWT Mineral Lease	Ice Road/Drilling	1,710	171
Unnamed 14206	583408	7148392	2,853	NWT Mineral Lease	Ice Road/Drilling	2,853	285
Unnamed 14217	584792	7148065	129,191	NWT Mineral Lease	Ice Road/Drilling	129,191	12,919
Unnamed 14219	583683	7148398	7,344	NWT Mineral Lease	Ice Road/Drilling	7,344	734
Unnamed 14222	594857	7148417	11,490	Federal Mineral Lease	Ice Road/Drilling	11,490	1,149
Unnamed 14233	587681	7148446	12,353	NWT Mineral Lease	Ice Road/Drilling	12,353	1,235
Unnamed 14237	594597	7148371	30,086	Federal Mineral Lease	Ice Road/Drilling	30,086	3,009
Unnamed 14240	603598	7148245	136,498	NWT Mineral Claim	Ice Road/Drilling	136,498	13,650
Unnamed 14242	583816	7148514	1,532	NWT Mineral Lease	Ice Road/Drilling	1,532	153
Unnamed 14244	596804	7148372	54,201	NWT Mineral Claim	Ice Road/Drilling	54,201	5,420
Unnamed 14248	584298	7148542	2,368	NWT Mineral Lease	Drilling	2,368	237
Unnamed 14251	596484	7148544	4,254	NWT Mineral Claim	Ice Road/Drilling	4,254	425
Unnamed 14260	591034	7148505	27,309	Federal Mineral Lease	Ice Road/Drilling	27,309	2,731
Unnamed 14262	583367	7148583	14,488	NWT Mineral Lease	Ice Road/Drilling	14,488	1,449
Unnamed 14272	598403	7148648	2,383	NWT Mineral Claim	Ice Road/Drilling	2,383	238
Unnamed 14284	586264	7148631	36,761	NWT Mineral Lease	Ice Road/Drilling	36,761	3,676
Unnamed 14285	602281	7148633	17,901	NWT Mineral Claim	Ice Road/Drilling	17,901	1,790
Unnamed 14287	584145	7148685	6,694	NWT Mineral Lease	Ice Road/Drilling	6,694	669
Unnamed 14289	593907	7148673	8,782	Federal Mineral Lease	Ice Road/Drilling	8,782	878
Unnamed 14290	600911	7148164	684,682	NWT Mineral Claim	Drilling	684,682	68,468
Unnamed 14292	602973	7148702	14,408	NWT Mineral Claim	Ice Road/Drilling	14,408	1,441
Unnamed 14313	583660	7148799	6,730	NWT Mineral Lease	Drilling	6,730	673
Unnamed 14316	593941	7148869	4,289	Federal Mineral Lease	Drilling	4,289	429
Unnamed 14327	590082	7148568	235,325	NWT Mineral Lease	Drilling	235,325	23,533
Unnamed 14334	598979	7148773	44,101	NWT Mineral Claim	Ice Road/Drilling	44,101	4,410
Unnamed 14339	599660	7148612	288,737	NWT Mineral Claim	Ice Road/Drilling	288,737	28,874
Unnamed 14342	593605	7148944	12,245	Federal Mineral Lease	Ice Road/Drilling	12,245	1,225
Unnamed 14349	591353	7148970	18,094	Federal Mineral Lease	Ice Road/Drilling	18,094	1,809
Unnamed 14352	585194	7148786	239,664	NWT Mineral Lease	Ice Road/Drilling	239,664	23,966
Unnamed 14356	587477	7148668	301,513	NWT Mineral Lease	Ice Road/Drilling	301,513	30,151
Unnamed 14367	596292	7149016	16,967	NWT Mineral Claim	Ice Road/Drilling	16,967	1,697
Unnamed 14376	604676	7148746	306,431	NWT Mineral Claim	Ice Road/Drilling	306,431	30,643
Unnamed 14386	590687	7149099	27,753	NWT Mineral Lease Federal Mineral Lease	Ice Road/Drilling	27,753	2,775
Unnamed 14395	589196	7149078	57,794	NWT Mineral Lease	Drilling	57,794	5,779
Unnamed 14398	588693	7148691	326,373	NWT Mineral Lease	Ice Road/Drilling	326,373	32,637
Unnamed 14402	605166	7149195	14,077	NWT Mineral Claim	Ice Road/Drilling	14,077	1,408
Unnamed 14403	589684	7148967	86,920	NWT Mineral Lease	Ice Road/Drilling	86,920	8,692
Unnamed 14414	588990	7149332	3,441	NWT Mineral Lease	Ice Road/Drilling	3,441	344
Unnamed 14416	595600	7148889	128,435	NWT Mineral Lease NWT Mineral Claim Federal Mineral Lease	Ice Road/Drilling	128,435	12,844
Unnamed 14417	584014	7149203	51,356	NWT Mineral Lease	Ice Road/Drilling	51,356	5,136
Unnamed 14427	596606	7149382	4,262	NWT Mineral Claim	Ice Road/Drilling	4,262	426
Unnamed 14434	604229	7149145	92,765	NWT Mineral Claim	Ice Road/Drilling	92,765	9,277
Unnamed 14435	594536	7149320	54,898	NWT Mineral Lease Federal Mineral Lease	Ice Road/Drilling	54,898	5,490
Unnamed 14451	603958	7149489	15,352	NWT Mineral Claim	Drilling	15,352	1,535
Unnamed 14452	599697	7149336	51,169	NWT Mineral Claim	Ice Road/Drilling	51,169	5,117
Unnamed 14458	583475	7149453	50,023	NWT Mineral Lease	Drilling	50,023	5,002
Unnamed 14473	590954	7149514	38,945	Federal Mineral Lease	Ice Road/Drilling	38,945	3,894
Unnamed 14475	588745	7149564	27,569	NWT Mineral Lease	Ice Road/Drilling	27,569	2,757
Unnamed 14480	585712	7149646	4,395	NWT Mineral Lease	Ice Road/Drilling	4,395	439
Unnamed 14484	599388	7149668	3,089	NWT Mineral Claim	Ice Road/Drilling	3,089	309
Unnamed 14488	598590	7149649	8,061	NWT Mineral Claim	Ice Road/Drilling	8,061	806
Unnamed 14501	582951	7149732	10,170	NWT Mineral Lease	Ice Road/Drilling	10,170	1,017
Unnamed 14502	588531	7149710	15,041	NWT Mineral Lease	Drilling	15,041	1,504
Unnamed 14503	603946	7149744	13,578	NWT Mineral Claim	Ice Road/Drilling	13,578	1,358
Unnamed 14509	605225	7149731	27,458	NWT Mineral Claim	Drilling	27,458	2,746
Unnamed 14512	583282	7149720	34,433	NWT Mineral Lease	Ice Road/Drilling	34,433	3,443
Unnamed 14519	604320	7149809	6,262	NWT Mineral Claim	Drilling	6,262	626
Unnamed 14521	583694	7149783	6,296	NWT Mineral Lease	Drilling	6,296	630
Unnamed 14534	589801	7149803	29,141	NWT Mineral Lease	Ice Road/Drilling	29,141	2,914
Unnamed 14545	599979	7149909	12,465	NWT Mineral Claim	Drilling	12,465	1,246
Unnamed 14549	592591	7149928	15,752	NWT Mineral Lease	Ice Road/Drilling	15,752	1,575
Unnamed 14551	589112	7149845	134,328	NWT Mineral Lease	Ice Road/Drilling	134,328	13,433
Unnamed 14553	593873	7149983	6,830	NWT Mineral Lease	Drilling	6,830	683
Unnamed 14558	595953	7149906	57,439	NWT Mineral Claim	Ice Road/Drilling	57,439	5,744
Unnamed 14559	591621	7149773	143,275	NWT Mineral Lease Federal Mineral Lease	Ice Road/Drilling	143,275	14,328
Unnamed 14560	602505	7149480	674,256	NWT Mineral Claim	Ice Road/Drilling	674,256	67,426
Unnamed 14568	584410	7149921	33,281	NWT Mineral Lease	Ice Road/Drilling	33,281	3,328
Unnamed 14569	604316	7150075	5,404	NWT Mineral Claim	Ice Road/Drilling	5,404	540
Unnamed 14570	600361	7149713	208,626	NWT Mineral Claim	Drilling	208,626	20,863
Unnamed 14578	594249	7149413	201,531	NWT Mineral Lease	Ice Road/Drilling	201,531	20,153
Unnamed 14578	594249	7149413	201,531	Federal Mineral Lease	Drilling	201,531	20,153



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 14580	600616	7150143	6,362	NWT Mineral Claim	Drilling	6,362	636
Unnamed 14584	585019	7150185	1,416	NWT Mineral Lease	Ice Road/Drilling	1,416	142
Unnamed 14586	588145	7149880	88,693	NWT Mineral Lease	Ice Road/Drilling	88,693	8,869
Unnamed 14591	583770	7149990	55,289	NWT Mineral Lease	Drilling	55,289	5,529
Unnamed 14596	594044	7150208	7,157	NWT Mineral Lease	Ice Road/Drilling	7,157	716
Unnamed 14598	595768	7150239	7,676	NWT Mineral Claim	Ice Road/Drilling	7,676	768
Unnamed 14601	587314	7150181	30,734	NWT Mineral Lease	Ice Road/Drilling	30,734	3,073
Unnamed 14609	583617	7150275	1,169	NWT Mineral Lease	Ice Road/Drilling	1,169	117
Unnamed 14610	585518	7150042	148,481	NWT Mineral Lease	Ice Road/Drilling	148,481	14,848
Unnamed 14615	600545	7150264	6,353	NWT Mineral Claim	Ice Road/Drilling	6,353	635
Unnamed 14625	584188	7150324	1,831	NWT Mineral Lease	Drilling	1,831	183
Unnamed 14626	584703	7150300	4,205	NWT Mineral Lease	Ice Road/Drilling	4,205	420
Unnamed 14627	593978	7150301	3,110	NWT Mineral Lease	Drilling	3,110	311
Unnamed 14635	601878	7150363	9,562	NWT Mineral Claim	Ice Road/Drilling	9,562	956
Unnamed 14637	598974	7150354	8,277	NWT Mineral Claim	Ice Road/Drilling	8,277	828
Unnamed 14638	590818	7150257	56,793	NWT Mineral Lease	Ice Road/Drilling	56,793	5,679
Unnamed 14652	601037	7150351	39,543	NWT Mineral Claim	Drilling	39,543	3,954
Unnamed 14659	604645	7150101	167,746	NWT Mineral Claim	Drilling	167,746	16,775
Unnamed 14663	589696	7150283	73,710	NWT Mineral Lease	Ice Road/Drilling	73,710	7,371
Unnamed 14666	588512	7150438	20,314	NWT Mineral Lease	Drilling	20,314	2,031
Unnamed 14670	598322	7150198	283,404	NWT Mineral Claim	Drilling	283,404	28,340
Unnamed 14674	584634	7150379	40,852	NWT Mineral Lease	Ice Road/Drilling	40,852	4,085
Unnamed 14677	588898	7150480	23,449	NWT Mineral Lease	Ice Road/Drilling	23,449	2,345
Unnamed 14678	583107	7150415	33,242	NWT Mineral Lease	Ice Road/Drilling	33,242	3,324
Unnamed 14685	592981	7150510	21,112	NWT Mineral Lease	Ice Road/Drilling	21,112	2,111
Unnamed 14690	585728	7150626	1,144	NWT Mineral Lease	Ice Road/Drilling	1,144	114
Unnamed 14692	593497	7150619	1,537	NWT Mineral Lease	Drilling	1,537	154
Unnamed 14702	583878	7150659	1,324	NWT Mineral Lease	Ice Road/Drilling	1,324	132
Unnamed 14708	604816	7150644	15,514	NWT Mineral Claim	Ice Road/Drilling	15,514	1,551
Unnamed 14715	591603	7150541	129,211	NWT Mineral Lease	Ice Road/Drilling	129,211	12,921
Unnamed 14716	584619	7150676	7,299	NWT Mineral Lease	Drilling	7,299	730
Unnamed 14719	604563	7150728	1,048	NWT Mineral Claim	Drilling	1,048	105
Unnamed 14728	589724	7150705	10,108	NWT Mineral Lease	Ice Road/Drilling	10,108	1,011
Unnamed 14732	586690	7150637	21,908	NWT Mineral Lease	Ice Road/Drilling	21,908	2,191
Unnamed 14741	599240	7150469	117,926	NWT Mineral Claim	Drilling	117,926	11,793
Unnamed 14743	595578	7150653	126,611	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	126,611	12,661
Unnamed 14745	590423	7150822	2,136	NWT Mineral Lease	Drilling	2,136	214
Unnamed 14747	597832	7150774	15,989	NWT Mineral Claim	Ice Road/Drilling	15,989	1,599
Unnamed 14769	586035	7150588	148,103	NWT Mineral Lease	Ice Road/Drilling	148,103	14,810
Unnamed 14774	593849	7150938	11,181	NWT Mineral Lease	Ice Road/Drilling	11,181	1,118
Unnamed 14776	603448	7150765	110,742	NWT Mineral Claim	Ice Road/Drilling	110,742	11,074
Unnamed 14784	586811	7150986	10,732	NWT Mineral Lease	Ice Road/Drilling	10,732	1,073
Unnamed 14787	592705	7150894	35,081	NWT Mineral Lease	Ice Road/Drilling	35,081	3,508
Unnamed 14791	599632	7150892	48,796	NWT Mineral Claim	Drilling	48,796	4,880
Unnamed 14792	589529	7151019	21,158	NWT Mineral Lease	Ice Road/Drilling	21,158	2,116
Unnamed 14804	587118	7150991	23,053	NWT Mineral Lease	Ice Road/Drilling	23,053	2,305
Unnamed 14814	603254	7151108	9,391	NWT Mineral Claim	Drilling	9,391	939
Unnamed 14818	597438	7150867	79,980	NWT Mineral Claim	Ice Road/Drilling	79,980	7,998
Unnamed 14822	585157	7150742	116,002	NWT Mineral Lease	Ice Road/Drilling	116,002	11,600
Unnamed 14823	600176	7150617	254,485	NWT Mineral Claim	Drilling	254,485	25,448
Unnamed 14824	583005	7150848	144,755	NWT Mineral Lease	Ice Road/Drilling	144,755	14,475
Unnamed 14850	598461	7151209	48,876	NWT Mineral Claim	Ice Road/Drilling	48,876	4,888
Unnamed 14867	591037	7151099	155,096	NWT Mineral Lease	Drilling	155,096	15,510
Unnamed 14868	594002	7151359	3,387	NWT Mineral Lease	Drilling	3,387	339
Unnamed 14890	594472	7151338	30,779	NWT Mineral Lease	Drilling	30,779	3,078
Unnamed 14893	593119	7151438	3,377	NWT Mineral Lease	Ice Road/Drilling	3,377	338
Unnamed 14909	586459	7151214	92,168	NWT Mineral Lease	Ice Road/Drilling	92,168	9,217
Unnamed 14922	603202	7151464	21,040	NWT Mineral Claim	Ice Road/Drilling	21,040	2,104
Unnamed 14924	593661	7151521	5,720	NWT Mineral Lease	Ice Road/Drilling	5,720	572
Unnamed 14927	602555	7151213	239,624	NWT Mineral Claim	Ice Road/Drilling	239,624	23,962
Unnamed 14929	599344	7151547	9,504	NWT Mineral Claim	Drilling	9,504	950
Unnamed 14935	593475	7151517	21,936	NWT Mineral Lease	Ice Road/Drilling	21,936	2,194
Unnamed 14937	585405	7151463	31,442	NWT Mineral Lease	Drilling	31,442	3,144
Unnamed 14938	591639	7151538	20,967	NWT Mineral Lease	Drilling	20,967	2,097
Unnamed 14951	590347	7151570	50,313	NWT Mineral Lease	Ice Road/Drilling	50,313	5,031
Unnamed 14952	599014	7151350	109,402	NWT Mineral Claim	Ice Road/Drilling	109,402	10,940
Unnamed 14955	604533	7151482	78,884	NWT Mineral Claim	Ice Road/Drilling	78,884	7,888
Unnamed 14956	598644	7151535	45,333	NWT Mineral Claim	Ice Road/Drilling	45,333	4,533
Unnamed 14960	595491	7151620	23,529	NWT Mineral Lease NWT Mineral Claim	Drilling	23,529	2,353
Unnamed 14979	587496	7151592	32,712	NWT Mineral Lease	Drilling	32,712	3,271
Unnamed 14989	593651	7151735	32,495	NWT Mineral Lease	Ice Road/Drilling	32,495	3,250
Unnamed 14993	591973	7151705	35,986	NWT Mineral Lease	Ice Road/Drilling	35,986	3,599
Unnamed 14997	594977	7151809	7,613	NWT Mineral Lease	Ice Road/Drilling	7,613	761
Unnamed 15000	597492	7151796	64,457	NWT Mineral Claim	Ice Road/Drilling	64,457	6,446
Unnamed 15006	602215	7151831	27,410	NWT Mineral Claim	Ice Road/Drilling	27,410	2,741
Unnamed 15014	583053	7151915	6,639	NWT Mineral Lease	Ice Road/Drilling	6,639	664
Unnamed 15015	599719	7151938	3,561	NWT Mineral Claim	Drilling	3,561	356
Unnamed 15017	596686	7151842	42,972	NWT Mineral Claim	Drilling	42,972	4,297
Unnamed 15022	587009	7151545	187,739	NWT Mineral Lease	Drilling	187,739	18,774
Unnamed 15036	602844	7151967	33,139	NWT Mineral Claim	Drilling	33,139	3,314
Unnamed 15050	587625	7152039	25,679	NWT Mineral Lease	Ice Road/Drilling	25,679	2,568
Unnamed 15054	601057	7152120	11,951	NWT Mineral Claim	Ice Road/Drilling	11,951	1,195
Unnamed 15059	600895	7152182	2,102	NWT Mineral Claim	Drilling	2,102	210
Unnamed 15060	591756	7152097	34,917	NWT Mineral Lease	Ice Road/Drilling	34,917	3,492
Unnamed 15065	603352	7152089	28,123	NWT Mineral Claim	Drilling	28,123	2,812
Unnamed 15074	590670	7152130	39,463	NWT Mineral Lease	Drilling	39,463	3,946
Unnamed 15080	591256	7152161	27,845	NWT Mineral Lease	Ice Road/Drilling	27,845	2,785
Unnamed 15084	601579	7152227	21,066	NWT Mineral Claim	Drilling	21,066	2,107
Unnamed 15086	585281	7152307	3,573	NWT Mineral Lease	Ice Road/Drilling	3,573	357
Unnamed 15087	592918	7152101	101,200	NWT Mineral Lease	Ice Road/Drilling	101,200	10,120
Unnamed 15094	585757	7152223	17,162	NWT Mineral Lease	Drilling	17,162	1,716
Unnamed 15096	591580	7152302	14,096	NWT Mineral Lease	Drilling	14,096	1,410



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 15099	585601	7152367	2,757	NWT Mineral Lease	Ice Road/Drilling	2,757	276
Unnamed 15103	586079	7152357	4,274	NWT Mineral Lease	Drilling	4,274	427
Unnamed 15111	600691	7151753	374,831	NWT Mineral Claim	Ice Road/Drilling	374,831	37,483
Unnamed 15112	604043	7152379	9,851	NWT Mineral Claim	Drilling	9,851	985
Unnamed 15116	583581	7152241	113,581	NWT Mineral Lease	Drilling	113,581	11,358
Unnamed 15119	586233	7152430	17,962	NWT Mineral Lease	Drilling	17,962	1,796
Unnamed 15121	596300	7152399	13,901	NWT Mineral Claim	Drilling	13,901	1,390
Unnamed 15123	585901	7152511	1,955	NWT Mineral Lease	Drilling	1,955	195
Unnamed 15128	592514	7152387	53,989	NWT Mineral Lease	Drilling	53,989	5,399
Unnamed 15139	605184	7152479	23,946	NWT Mineral Claim	Drilling	23,946	2,395
Unnamed 15152	584498	7152412	68,595	NWT Mineral Lease	Drilling	68,595	6,859
Unnamed 15159	596417	7145666	3,342,433	NWT Mineral Lease	Ice Road/Drilling	3,342,433	334,243
				NWT Mineral Claim	Ice Road/Drilling		
				Federal Mineral Lease			
Unnamed 15177	583727	7152647	34,683	NWT Mineral Lease	Ice Road/Drilling	34,683	3,468
Unnamed 15182	604954	7152761	6,755	NWT Mineral Claim	Ice Road/Drilling	6,755	675
Unnamed 15191	585118	7152374	147,808	NWT Mineral Lease	Ice Road/Drilling	147,808	14,781
Unnamed 15199	597981	7152481	281,932	NWT Mineral Claim	Drilling	281,932	28,193
Unnamed 15200	601808	7152854	7,994	NWT Mineral Claim	Drilling	7,994	799
Unnamed 15203	603721	7152767	47,674	NWT Mineral Claim	Drilling	47,674	4,767
Unnamed 15205	601433	7152722	97,975	NWT Mineral Claim	Drilling	97,975	9,798
Unnamed 15206	602573	7152683	279,134	NWT Mineral Claim	Drilling	279,134	27,913
Unnamed 15208	599403	7152440	928,085	NWT Mineral Claim	Drilling	928,085	92,808
Unnamed 15214	583563	7152847	14,569	NWT Mineral Lease	Drilling	14,569	1,457
Unnamed 15223	603323	7152825	34,283	NWT Mineral Claim	Drilling	34,283	3,428
Unnamed 15236	583354	7153010	29,766	NWT Mineral Lease	Drilling	29,766	2,977
Unnamed 15238	585565	7152811	115,703	NWT Mineral Lease	Drilling	115,703	11,570
Unnamed 15245	599308	7153104	5,777	NWT Mineral Claim	Drilling	5,777	578
Unnamed 15258	601097	7153048	83,811	NWT Mineral Claim	Drilling	83,811	8,381
Unnamed 15266	594126	7152908	78,883	NWT Mineral Lease	Drilling	78,883	7,888
Unnamed 15279	602439	7153162	33,682	NWT Mineral Claim	Drilling	33,682	3,368
Unnamed 15283	583043	7153288	3,617	NWT Mineral Lease	Drilling	3,617	362
Unnamed 15298	592270	7153380	4,665	NWT Mineral Lease	Ice Road/Drilling	4,665	467
Unnamed 15301	599841	7153359	5,557	NWT Mineral Claim	Drilling	5,557	556
Unnamed 15302	583282	7153388	1,370	NWT Mineral Lease	Drilling	1,370	137
Unnamed 15303	602130	7153375	13,607	NWT Mineral Claim	Drilling	13,607	1,361
Unnamed 15323	598786	7153235	121,482	NWT Mineral Claim	Drilling	121,482	12,148
Unnamed 15326	592874	7153311	193,978	NWT Mineral Lease	Drilling	193,978	19,398
Unnamed 15340	586171	7153440	37,553	NWT Mineral Lease	Drilling	37,553	3,755
Unnamed 15341	595872	7152929	73,087	NWT Mineral Claim	Drilling	73,087	7,309
Unnamed 15342	600717	7153411	56,526	NWT Mineral Claim	Ice Road/Drilling	56,526	5,653
Unnamed 15343	585430	7153344	95,030	NWT Mineral Lease	Drilling	95,030	9,503
Unnamed 15346	602443	7153574	3,450	NWT Mineral Claim	Ice Road/Drilling	3,450	345
Unnamed 15347	603410	7153321	119,584	NWT Mineral Claim	Drilling	119,584	11,958
Unnamed 15352	593768	7153591	3,351	NWT Mineral Lease	Drilling	3,351	335
Unnamed 15361	598033	7153551	15,597	NWT Mineral Claim	Drilling	15,597	1,560
Unnamed 15382	602898	7153577	61,940	NWT Mineral Claim	Drilling	61,940	6,194
Unnamed 15388	596460	7153684	12,726	NWT Mineral Claim	Drilling	12,726	1,273
Unnamed 15391	595129	7153744	10,402	NWT Mineral Lease	Drilling	10,402	1,040
Unnamed 15404	597564	7153685	58,344	NWT Mineral Claim	Drilling	58,344	5,834
Unnamed 15416	594445	7153775	35,841	NWT Mineral Lease	Drilling	35,841	3,584
Unnamed 15419	592781	7153809	27,022	NWT Mineral Lease	Drilling	27,022	2,702
Unnamed 15425	584114	7153381	423,084	NWT Mineral Lease	Drilling	423,084	42,308
Unnamed 15430	600145	7153703	102,300	NWT Mineral Claim	Drilling	102,300	10,230
Unnamed 15435	597155	7153866	33,490	NWT Mineral Claim	Drilling	33,490	3,349
Unnamed 15440	595507	7153784	43,581	NWT Mineral Claim	Drilling	43,581	4,358
Unnamed 15463	599170	7153919	26,638	NWT Mineral Claim	Drilling	26,638	2,664
Unnamed 15467	583489	7154043	4,073	NWT Mineral Lease	Drilling	4,073	407
Unnamed 15468	594258	7153982	25,554	NWT Mineral Lease	Drilling	25,554	2,555
Unnamed 15480	584789	7154065	22,494	NWT Mineral Lease	Drilling	22,494	2,249
Unnamed 15497	598671	7154238	8,448	NWT Mineral Claim	Drilling	8,448	845
Unnamed 15521	594349	7154311	31,125	NWT Mineral Lease	Drilling	31,125	3,112
Unnamed 15527	598094	7154046	138,393	NWT Mineral Claim	Drilling	138,393	13,839
Unnamed 15531	585437	7154400	3,344	NWT Mineral Lease	Drilling	3,344	334
Unnamed 15538	599848	7154293	36,682	NWT Mineral Claim	Drilling	36,682	3,668
Unnamed 15548	586629	7154483	1,031	NWT Mineral Lease	Drilling	1,031	103
Unnamed 15555	599505	7154355	58,481	NWT Mineral Claim	Drilling	58,481	5,848
Unnamed 15564	598308	7154501	10,303	NWT Mineral Claim	Drilling	10,303	1,030
Unnamed 15579	585588	7154631	6,427	NWT Mineral Lease	Drilling	6,427	643
Unnamed 15581	586655	7154620	10,097	NWT Mineral Lease	Drilling	10,097	1,010
Unnamed 15596	591971	7154622	50,591	NWT Mineral Lease	Drilling	50,591	5,059
Unnamed 15597	595004	7154646	48,576	NWT Mineral Lease	Drilling	48,576	4,858
				NWT Mineral Claim			
Unnamed 15600	594281	7154655	55,888	NWT Mineral Lease	Drilling	55,888	5,589
				NWT Mineral Claim			
				NWT Mineral Claim			
Unnamed 15619	584647	7154616	72,067	NWT Mineral Lease	Drilling	72,067	7,207
Unnamed 15632	601835	7154865	17,335	NWT Mineral Claim	Drilling	17,335	1,733
Unnamed 15656	601393	7155036	23,808	NWT Mineral Claim	Drilling	23,808	2,381
Unnamed 15657	594430	7155025	26,508	NWT Mineral Claim	Drilling	26,508	2,651
Unnamed 15658	601501	7154269	619,712	NWT Mineral Claim	Drilling	619,712	61,971
Unnamed 15675	590198	7155124	43,409	NWT Mineral Lease	Drilling	43,409	4,341
Unnamed 15693	586261	7155216	22,606	NWT Mineral Lease	Drilling	22,606	2,261
Unnamed 15698	599474	7154956	144,304	NWT Mineral Claim	Drilling	144,304	14,430
Unnamed 15706	585504	7155020	271,088	NWT Mineral Lease	Drilling	271,088	27,109
Unnamed 15709	600025	7155295	10,389	NWT Mineral Claim	Drilling	10,389	1,039
Unnamed 15718	593107	7155229	286,516	NWT Mineral Lease	Drilling	286,516	28,652
				NWT Mineral Claim			
Unnamed 15727	593584	7155468	2,408	NWT Mineral Claim	Drilling	2,408	241
Unnamed 15746	600010	7155520	22,763	NWT Mineral Claim	Drilling	22,763	2,276
Unnamed 15747	599359	7155533	20,437	NWT Mineral Claim	Drilling	20,437	2,044
Unnamed 15749	600597	7155388	159,177	NWT Mineral Claim	Drilling	159,177	15,918
Unnamed 15758	586359	7155638	12,401	NWT Mineral Claim	Drilling	12,401	1,240
Unnamed 15761	598217	7155610	26,140	NWT Mineral Claim	Drilling	26,140	2,614
Unnamed 15771	594010	7155729	17,625	NWT Mineral Claim	Drilling	17,625	1,763



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 15784	582687	7155680	102,471	NWT Mineral Claim	Drilling	102,471	10,247
Unnamed 15789	594398	7155821	18,250	NWT Mineral Claim	Drilling	18,250	1,825
Unnamed 15805	590424	7155957	1,027	NWT Mineral Claim	Drilling	1,027	103
Unnamed 15811	590743	7155983	6,923	NWT Mineral Claim	Drilling	6,923	692
Unnamed 15813	597004	7155026	3,703,843	NWT Mineral Claim	Drilling	3,703,843	370,384
Unnamed 15819	593715	7155959	43,841	NWT Mineral Claim	Drilling	43,841	4,384
Unnamed 15821	600195	7155936	72,850	NWT Mineral Claim	Drilling	72,850	7,285
Unnamed 15830	599695	7156004	43,193	NWT Mineral Claim	Drilling	43,193	4,319
Unnamed 15835	591269	7155996	67,802	NWT Mineral Claim	Drilling	67,802	6,780
Unnamed 15839	590250	7156058	22,411	NWT Mineral Claim	Drilling	22,411	2,241
Unnamed 15841	590778	7156100	9,405	NWT Mineral Claim	Drilling	9,405	941
Unnamed 15842	599022	7156123	11,134	NWT Mineral Claim	Drilling	11,134	1,113
Unnamed 15846	595964	7156149	17,068	NWT Mineral Claim	Drilling	17,068	1,707
Unnamed 15847	597885	7156135	33,165	NWT Mineral Claim	Drilling	33,165	3,316
Unnamed 15848	585737	7156111	21,737	NWT Mineral Claim	Drilling	21,737	2,174
Unnamed 15856	591740	7156198	26,049	NWT Mineral Claim	Drilling	26,049	2,605
Unnamed 15871	598828	7156265	23,525	NWT Mineral Claim	Drilling	23,525	2,352
Unnamed 15886	592725	7156215	285,079	NWT Mineral Claim	Drilling	285,079	28,508
Unnamed 15909	592375	7156463	19,863	NWT Mineral Claim	Drilling	19,863	1,986
Unnamed 15911	597884	7156512	15,135	NWT Mineral Claim	Drilling	15,135	1,514
Unnamed 15913	583991	7156438	42,842	NWT Mineral Claim	Drilling	42,842	4,284
Unnamed 15915	598437	7156449	55,260	NWT Mineral Claim	Drilling	55,260	5,526
Unnamed 15916	592750	7156589	3,804	NWT Mineral Claim	Drilling	3,804	380
Unnamed 15929	593212	7156549	29,705	NWT Mineral Claim	Drilling	29,705	2,970
Unnamed 15935	585901	7156530	52,609	NWT Mineral Claim	Drilling	52,609	5,261
Unnamed 15936	594410	7156332	260,802	NWT Mineral Claim	Drilling	260,802	26,080
Unnamed 15938	596148	7156585	50,973	NWT Mineral Claim	Drilling	50,973	5,097
Unnamed 15939	593544	7156655	5,997	NWT Mineral Claim	Drilling	5,997	600
Unnamed 15940	592659	7156682	1,978	NWT Mineral Claim	Drilling	1,978	198
Unnamed 15947	592281	7156646	30,739	NWT Mineral Claim	Drilling	30,739	3,074
Unnamed 15954	596913	7156292	131,497	NWT Mineral Claim	Drilling	131,497	13,150
Unnamed 15958	593390	7156727	3,286	NWT Mineral Claim	Drilling	3,286	329
Unnamed 15965	599369	7156545	99,276	NWT Mineral Claim	Drilling	99,276	9,928
Unnamed 15971	598547	7156807	3,488	NWT Mineral Claim	Drilling	3,488	349
Unnamed 15975	593913	7156833	1,324	NWT Mineral Claim	Drilling	1,324	132
Unnamed 15983	598149	7156881	5,626	NWT Mineral Claim	Drilling	5,626	563
Unnamed 15996	596095	7156870	13,231	NWT Mineral Claim	Drilling	13,231	1,323
Unnamed 15997	594264	7156885	14,183	NWT Mineral Claim	Drilling	14,183	1,418
Unnamed 15999	593608	7156844	50,176	NWT Mineral Claim	Drilling	50,176	5,018
Unnamed 16001	593820	7156933	5,583	NWT Mineral Claim	Drilling	5,583	558
Unnamed 16005	592929	7156838	84,221	NWT Mineral Claim	Drilling	84,221	8,422
Unnamed 16008	599309	7156921	9,883	NWT Mineral Claim	Drilling	9,883	988
Unnamed 16010	586645	7156888	24,037	NWT Mineral Claim	Drilling	24,037	2,404
Unnamed 16025	583064	7156794	379,493	NWT Mineral Claim	Drilling	379,493	37,949
Unnamed 16028	597658	7156936	124,342	NWT Mineral Claim	Drilling	124,342	12,434
Unnamed 16036	596597	7157140	2,200	NWT Mineral Claim	Drilling	2,200	220
Unnamed 16041	594173	7157187	3,875	NWT Mineral Claim	Drilling	3,875	388
Unnamed 16064	593650	7157340	1,084	NWT Mineral Claim	Drilling	1,084	108
Unnamed 16091	597840	7157355	48,073	NWT Mineral Claim	Drilling	48,073	4,807
Unnamed 16093	596676	7157443	11,879	NWT Mineral Claim	Drilling	11,879	1,188
Unnamed 16102	597343	7157524	10,761	NWT Mineral Claim	Drilling	10,761	1,076
Unnamed 16115	583429	7157591	3,456	NWT Mineral Claim	Drilling	3,456	346
Unnamed 16129	593797	7157491	40,669	NWT Mineral Claim	Drilling	40,669	4,067
Unnamed 16144	584205	7155796	2,148,481	NWT Mineral Lease NWT Mineral Claim	Drilling	2,148,481	214,848
Unnamed 16147	586483	7157496	126,755	NWT Mineral Claim	Drilling	126,755	12,675
Unnamed 16180	582901	7157934	19,928	NWT Mineral Claim	Drilling	19,928	1,993
Unnamed 16234	590498	7158079	125,985	NWT Mineral Claim	Drilling	125,985	12,599
Unnamed 16236	591572	7158131	97,997	NWT Mineral Claim	Drilling	97,997	9,800
Unnamed 16242	583789	7157908	400,533	NWT Mineral Claim	Drilling	400,533	40,053
Unnamed 16284	589443	7158178	188,601	NWT Mineral Claim	Drilling	188,601	18,860
Unnamed 17246	586270	7160086	2,013,570	NWT Mineral Claim	Drilling	2,013,570	201,357
Unnamed 5573	586970	7098122	110,558	NWT Mineral Claim	Drilling	110,558	11,056
Unnamed 5577	589934	7098215	33,758	NWT Mineral Claim	Drilling	33,758	3,376
Unnamed 5582	592348	7098129	64,062	NWT Mineral Claim	Drilling	64,062	6,406
Unnamed 5601	586312	7098391	16,378	NWT Mineral Claim	Drilling	16,378	1,638
Unnamed 5614	591474	7098548	4,787	NWT Mineral Claim	Drilling	4,787	479
Unnamed 5619	592092	7098546	3,585	NWT Mineral Claim	Drilling	3,585	359
Unnamed 5665	586550	7098792	2,500	NWT Mineral Claim	Drilling	2,500	250
Unnamed 5704	587004	7099021	22,060	NWT Mineral Claim	Drilling	22,060	2,206
Unnamed 5724	590582	7099149	8,245	NWT Mineral Claim	Drilling	8,245	824
Unnamed 5731	590510	7099227	1,359	NWT Mineral Claim	Drilling	1,359	136
Unnamed 5744	586247	7099131	19,533	NWT Mineral Claim	Drilling	19,533	1,953
Unnamed 5772	586700	7099183	86,064	NWT Mineral Claim	Drilling	86,064	8,606
Unnamed 5777	590235	7099369	42,248	NWT Mineral Claim	Drilling	42,248	4,225
Unnamed 5786	586924	7099541	6,692	NWT Mineral Claim	Drilling	6,692	669
Unnamed 5811	591179	7099503	81,660	NWT Mineral Claim	Drilling	81,660	8,166
Unnamed 5866	590487	7099925	13,775	NWT Mineral Claim	Drilling	13,775	1,377
Unnamed 5877	588351	7099411	344,818	NWT Mineral Claim	Drilling	344,818	34,482
Unnamed 5889	589038	7099988	47,672	NWT Mineral Claim	Drilling	47,672	4,767
Unnamed 5916	591380	7100222	29,038	NWT Mineral Claim	Drilling	29,038	2,904
Unnamed 5940	589571	7099501	703,164	NWT Mineral Claim	Drilling	703,164	70,316
Unnamed 5955	590456	7100524	25,173	NWT Mineral Claim	Drilling	25,173	2,517
Unnamed 5961	588747	7100649	29,324	NWT Mineral Claim	Drilling	29,324	2,932
Unnamed 5967	586271	7100581	30,130	NWT Mineral Claim	Drilling	30,130	3,013
Unnamed 5995	589643	7100908	7,739	NWT Mineral Claim	Drilling	7,739	774
Unnamed 6009	585674	7100967	29,989	NWT Mineral Claim	Drilling	29,989	2,999
Unnamed 6045	587584	7100789	283,312	NWT Mineral Claim	Drilling	283,312	28,331
Unnamed 6051	589508	7101314	1,330	NWT Mineral Claim	Drilling	1,330	133
Unnamed 6057	593650	7101005	188,552	NWT Mineral Claim	Drilling	188,552	18,855
Unnamed 6087	590854	7101132	190,310	NWT Mineral Claim	Drilling	190,310	19,031
Unnamed 6102	589381	7101350	76,845	NWT Mineral Claim	Drilling	76,845	7,684
Unnamed 6145	590379	7101746	12,268	NWT Mineral Claim	Drilling	12,268	1,227
Unnamed 6173	590121	7101692	94,613	NWT Mineral Claim	Drilling	94,613	9,461



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 6186	588653	7101545	273,461	NWT Mineral Claim	Drilling	273,461	27,346
Unnamed 6187	586893	7101806	210,069	NWT Mineral Claim	Drilling	210,069	21,007
Unnamed 6241	590269	7102378	27,037	NWT Mineral Claim	Drilling	27,037	2,704
Unnamed 6283	588420	7102347	187,361	NWT Mineral Claim	Drilling	187,361	18,736
Unnamed 6297	589226	7102840	13,161	NWT Mineral Claim	Drilling	13,161	1,316
Unnamed 6311	587699	7102748	152,211	NWT Mineral Claim	Drilling	152,211	15,221
Unnamed 6317	591448	7102914	29,655	NWT Mineral Claim	Drilling	29,655	2,966
Unnamed 6358	588384	7103102	53,611	NWT Mineral Claim	Drilling	53,611	5,361
Unnamed 6374	591302	7103265	10,298	NWT Mineral Claim	Drilling	10,298	1,030
Unnamed 6400	590258	7103480	2,568	NWT Mineral Claim	Drilling	2,568	257
Unnamed 6437	589069	7103620	19,219	NWT Mineral Claim	Drilling	19,219	1,922
Unnamed 6448	588253	7103587	131,970	NWT Mineral Claim	Drilling	131,970	13,197
Unnamed 6521	590348	7103949	154,775	NWT Mineral Claim	Drilling	154,775	15,478
Unnamed 6542	589796	7104213	37,270	NWT Mineral Claim	Drilling	37,270	3,727
Unnamed 6565	588749	7104196	110,915	NWT Mineral Claim	Drilling	110,915	11,092
Unnamed 6711	588266	7104935	100,346	NWT Mineral Claim	Ice Road/Drilling	100,346	10,035
Unnamed 6724	589277	7105090	53,196	NWT Mineral Claim	Ice Road/Drilling	53,196	5,320
Unnamed 6738	588936	7105295	13,528	NWT Mineral Claim	Drilling	13,528	1,353
Unnamed 6837	591152	7105769	32,215	NWT Mineral Claim	Ice Road/Drilling	32,215	3,222
Unnamed 6880	587405	7106089	10,253	NWT Mineral Claim	Ice Road/Drilling	10,253	1,025
Unnamed 6886	586729	7106183	10,726	NWT Mineral Claim	Ice Road/Drilling	10,726	1,073
Unnamed 7031	592703	7104825	3,524,420	NWT Mineral Claim	Ice Road/Drilling	3,524,420	352,442
Unnamed 7034	586967	7107070	22,054	NWT Mineral Claim	Ice Road/Drilling	22,054	2,205
Unnamed 7042	590310	7106588	380,982	NWT Mineral Claim	Ice Road/Drilling	380,982	38,098
Unnamed 7047	591618	7106933	72,531	NWT Mineral Claim	Ice Road/Drilling	72,531	7,253
Unnamed 7108	587421	7107527	7,348	NWT Mineral Claim	Ice Road/Drilling	7,348	735
Unnamed 7157	585951	7107876	3,111	NWT Mineral Claim	Ice Road/Drilling	3,111	311
Unnamed 7194	590441	7108226	6,501	NWT Mineral Claim	Ice Road/Drilling	6,501	650
Unnamed 7214	589684	7106261	1,373,430	NWT Mineral Claim	Ice Road/Drilling	1,373,430	137,343
Unnamed 7236	589807	7108145	173,068	NWT Mineral Claim	Ice Road/Drilling	173,068	17,307
Unnamed 7312	589893	7108888	11,316	NWT Mineral Claim	Ice Road/Drilling	11,316	1,132
Unnamed 7496	588771	7110167	22,934	NWT Mineral Claim	Ice Road/Drilling	22,934	2,293
Unnamed 7515	589007	7110335	12,290	NWT Mineral Claim	Ice Road/Drilling	12,290	1,229
Unnamed 7524	588005	7110431	7,655	NWT Mineral Claim	Ice Road/Drilling	7,655	766
Unnamed 7533	586391	7110472	17,516	NWT Mineral Claim	Ice Road/Drilling	17,516	1,752
Unnamed 7579	588887	7110793	9,528	NWT Mineral Claim	Ice Road/Drilling	9,528	953
Unnamed 7638	588583	7111148	5,499	NWT Mineral Claim	Ice Road/Drilling	5,499	550
Unnamed 7640	585823	7109655	996,528	NWT Mineral Claim	Ice Road/Drilling	996,528	99,653
Unnamed 7652	587504	7111174	23,554	NWT Mineral Claim	Ice Road/Drilling	23,554	2,355
Unnamed 7675	586833	7111276	26,236	NWT Mineral Claim	Ice Road/Drilling	26,236	2,624
Unnamed 7700	590611	7111468	14,588	NWT Mineral Lease	Ice Road/Drilling	14,588	1,459
Unnamed 7721	589191	7111356	182,690	NWT Mineral Lease	Ice Road/Drilling	182,690	18,269
Unnamed 7724	587950	7111613	9,407	NWT Mineral Claim	Ice Road/Drilling	9,407	941
Unnamed 7730	588394	7111593	23,150	NWT Mineral Claim	Ice Road/Drilling	23,150	2,315
Unnamed 7812	588484	7112235	1,036	NWT Mineral Claim	Ice Road/Drilling	1,036	104
Unnamed 7824	590966	7111970	71,540	NWT Mineral Lease	Ice Road/Drilling	71,540	7,154
Unnamed 7827	588748	7112167	54,791	NWT Mineral Claim	Ice Road/Drilling	54,791	5,479
Unnamed 7862	587050	7112403	43,096	NWT Mineral Claim	Ice Road/Drilling	43,096	4,310
Unnamed 7883	592167	7112480	39,191	NWT Mineral Lease	Ice Road/Drilling	39,191	3,919
Unnamed 7886	591318	7112632	11,665	NWT Mineral Lease	Ice Road/Drilling	11,665	1,167
Unnamed 7945	586864	7113136	2,081	NWT Mineral Claim	Ice Road/Drilling	2,081	208
Unnamed 8004	588343	7113378	97,535	NWT Mineral Claim	Ice Road/Drilling	97,535	9,753
Unnamed 8033	588218	7113625	6,755	NWT Mineral Claim	Ice Road/Drilling	6,755	675
Unnamed 8044	592504	7113378	107,238	NWT Mineral Lease	Ice Road/Drilling	107,238	10,724
Unnamed 8046	588096	7113714	2,551	NWT Mineral Claim	Ice Road/Drilling	2,551	255
Unnamed 8060	588699	7113757	1,951	NWT Mineral Claim	Ice Road/Drilling	1,951	195
Unnamed 8072	589238	7113786	4,316	NWT Mineral Lease	Ice Road/Drilling	4,316	432
Unnamed 8105	588979	7113872	14,913	NWT Mineral Claim	Ice Road/Drilling	14,913	1,491
Unnamed 8117	586298	7113815	83,866	NWT Mineral Claim	Ice Road/Drilling	83,866	8,387
Unnamed 8118	592620	7113975	12,873	NWT Mineral Lease	Ice Road/Drilling	12,873	1,287
Unnamed 8119	594215	7113759	103,216	NWT Mineral Lease	Ice Road/Drilling	103,216	10,322
Unnamed 8121	588315	7113955	23,691	NWT Mineral Claim	Ice Road/Drilling	23,691	2,369
Unnamed 8152	588013	7114153	12,112	NWT Mineral Claim	Ice Road/Drilling	12,112	1,211
Unnamed 8171	593682	7113692	263,600	NWT Mineral Lease	Ice Road/Drilling	263,600	26,360
Unnamed 8181	592722	7114239	18,228	NWT Mineral Lease	Ice Road/Drilling	18,228	1,823
Unnamed 8182	574163	7097334	24,715,289	NWT Mineral Claim	Ice Road/Drilling	24,715,289	2,471,529
Unnamed 8184	588554	7114320	16,739	NWT Mineral Claim	Ice Road/Drilling	16,739	1,674
Unnamed 8207	593512	7114502	15,040	NWT Mineral Lease	Ice Road/Drilling	15,040	1,504
Unnamed 8222	589806	7114478	53,874	NWT Mineral Lease	Ice Road/Drilling	53,874	5,387
Unnamed 8228	589333	7114379	106,142	NWT Mineral Lease	Ice Road/Drilling	106,142	10,614
Unnamed 8229	587317	7114404	209,717	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	209,717	20,972
Unnamed 8253	587633	7114765	18,538	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	18,538	1,854
Unnamed 8261	589037	7114731	19,372	NWT Mineral Claim	Ice Road/Drilling	19,372	1,937
Unnamed 8296	588458	7114904	44,429	NWT Mineral Claim	Ice Road/Drilling	44,429	4,443
Unnamed 8312	590296	7115183	3,855	NWT Mineral Lease	Ice Road/Drilling	3,855	386
Unnamed 8319	588640	7115146	14,559	NWT Mineral Claim	Ice Road/Drilling	14,559	1,456
Unnamed 8366	588572	7115460	6,890	NWT Mineral Claim	Ice Road/Drilling	6,890	689
Unnamed 8373	586772	7115528	3,250	NWT Mineral Lease	Ice Road/Drilling	3,250	325
Unnamed 8379	586532	7115476	18,713	NWT Mineral Lease	Ice Road/Drilling	18,713	1,871
Unnamed 8385	593927	7115472	33,255	NWT Mineral Lease	Ice Road/Drilling	33,255	3,326
Unnamed 8389	587039	7115414	71,580	NWT Mineral Lease	Ice Road/Drilling	71,580	7,158
Unnamed 8404	586691	7115686	2,592	NWT Mineral Lease	Ice Road/Drilling	2,592	259
Unnamed 8406	588002	7115693	6,469	NWT Mineral Claim	Ice Road/Drilling	6,469	647
Unnamed 8450	588531	7115899	14,130	NWT Mineral Claim	Ice Road/Drilling	14,130	1,413
Unnamed 8466	589039	7115644	166,333	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	166,333	16,633
Unnamed 8468	587578	7115827	101,274	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	101,274	10,127
Unnamed 8480	586670	7115992	17,922	NWT Mineral Lease	Ice Road/Drilling	17,922	1,792
Unnamed 8504	587826	7116163	6,527	NWT Mineral Claim	Ice Road/Drilling	6,527	653
Unnamed 8560	588093	7116603	9,744	NWT Mineral Claim	Ice Road/Drilling	9,744	974
Unnamed 8568	589053	7116683	2,074	NWT Mineral Claim	Ice Road/Drilling	2,074	207



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 8580	594325	7116696	12,928	NWT Mineral Lease	Ice Road/Drilling	12,928	1,293
Unnamed 8659	588799	7117201	8,368	NWT Mineral Claim	Ice Road/Drilling	8,368	837
Unnamed 8690	588618	7117365	24,843	NWT Mineral Claim	Ice Road/Drilling	24,843	2,484
Unnamed 8758	589237	7117619	95,366	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	95,366	9,537
Unnamed 8768	589051	7118009	1,828	NWT Mineral Claim	Ice Road/Drilling	1,828	183
Unnamed 8857	595680	7118432	108,996	NWT Mineral Lease	Ice Road/Drilling	108,996	10,900
Unnamed 8860	587089	7118569	18,524	NWT Mineral Claim	Ice Road/Drilling	18,524	1,852
Unnamed 8871	590369	7118387	392,574	NWT Mineral Claim	Ice Road/Drilling	392,574	39,257
Unnamed 8878	589184	7118690	40,312	NWT Mineral Claim	Ice Road/Drilling	40,312	4,031
Unnamed 8906	588913	7118970	20,422	NWT Mineral Claim	Ice Road/Drilling	20,422	2,042
Unnamed 8913	593064	7119025	15,020	NWT Mineral Claim	Ice Road/Drilling	15,020	1,502
Unnamed 8921	595845	7119067	24,086	NWT Mineral Lease	Ice Road/Drilling	24,086	2,409
Unnamed 8950	590925	7119122	174,731	NWT Mineral Claim	Ice Road/Drilling	174,731	17,473
Unnamed 8962	593296	7119446	54,263	NWT Mineral Claim	Ice Road/Drilling	54,263	5,426
Unnamed 8971	591549	7119619	3,243	NWT Mineral Claim	Ice Road/Drilling	3,243	324
Unnamed 8982	590923	7119684	1,064	NWT Mineral Claim	Ice Road/Drilling	1,064	106
Unnamed 9017	593870	7119842	13,321	NWT Mineral Lease	Ice Road/Drilling	13,321	1,332
Unnamed 9028	591890	7119976	1,277	NWT Mineral Claim	Ice Road/Drilling	1,277	128
Unnamed 9033	591239	7119968	7,153	NWT Mineral Claim	Ice Road/Drilling	7,153	715
Unnamed 9043	590699	7119946	19,601	NWT Mineral Claim	Ice Road/Drilling	19,601	1,960
Unnamed 9045	591843	7120057	2,029	NWT Mineral Claim	Ice Road/Drilling	2,029	203
Unnamed 9046	589076	7119880	37,667	NWT Mineral Claim	Ice Road/Drilling	37,667	3,767
Unnamed 9057	596507	7119474	761,274	NWT Mineral Lease	Ice Road/Drilling	761,274	76,127
Unnamed 9059	590125	7120077	16,795	NWT Mineral Claim	Ice Road/Drilling	16,795	1,679
Unnamed 9087	590295	7120358	3,870	NWT Mineral Claim	Ice Road/Drilling	3,870	387
Unnamed 9099	587040	7120292	51,520	NWT Mineral Claim	Ice Road/Drilling	51,520	5,152
Unnamed 9103	587451	7120489	3,559	NWT Mineral Claim	Ice Road/Drilling	3,559	356
Unnamed 9108	589263	7120425	16,598	NWT Mineral Claim	Ice Road/Drilling	16,598	1,660
Unnamed 9111	592455	7120152	222,319	NWT Mineral Claim	Ice Road/Drilling	222,319	22,232
Unnamed 9125	593209	7120609	4,863	NWT Mineral Claim	Ice Road/Drilling	4,863	486
Unnamed 9128	587213	7120620	11,640	NWT Mineral Claim	Ice Road/Drilling	11,640	1,164
Unnamed 9163	588039	7120713	42,323	NWT Mineral Claim	Ice Road/Drilling	42,323	4,232
Unnamed 9166	591109	7120795	16,981	NWT Mineral Claim	Ice Road/Drilling	16,981	1,698
Unnamed 9167	589466	7120785	43,615	NWT Mineral Claim	Ice Road/Drilling	43,615	4,361
Unnamed 9168	593387	7120844	25,607	NWT Mineral Claim	Ice Road/Drilling	25,607	2,561
Unnamed 9178	587640	7120962	6,691	NWT Mineral Claim	Ice Road/Drilling	6,691	669
Unnamed 9209	592640	7121025	27,128	NWT Mineral Claim	Ice Road/Drilling	27,128	2,713
Unnamed 9225	592571	7121281	1,366	NWT Mineral Claim	Ice Road/Drilling	1,366	137
Unnamed 9241	587128	7121201	77,659	NWT Mineral Claim	Ice Road/Drilling	77,659	7,766
Unnamed 9245	587477	7121334	23,097	NWT Mineral Claim	Ice Road/Drilling	23,097	2,310
Unnamed 9247	587640	7121410	4,599	NWT Mineral Claim	Ice Road/Drilling	4,599	460
Unnamed 9271	594193	7121507	35,687	NWT Mineral Claim	Ice Road/Drilling	35,687	3,569
Unnamed 9284	593483	7121625	33,069	NWT Mineral Claim	Ice Road/Drilling	33,069	3,307
Unnamed 9286	594518	7121215	191,922	NWT Mineral Lease	Ice Road/Drilling	191,922	19,192
Unnamed 9286	594518	7121215	191,922	NWT Mineral Claim	Ice Road/Drilling	191,922	19,192
Unnamed 9287	594196	7121695	12,067	NWT Mineral Claim	Ice Road/Drilling	12,067	1,207
Unnamed 9299	587789	7121819	17,521	NWT Mineral Claim	Ice Road/Drilling	17,521	1,752
Unnamed 9304	594685	7121828	14,119	NWT Mineral Lease	Ice Road/Drilling	14,119	1,412
Unnamed 9315	593275	7121934	3,574	NWT Mineral Claim	Ice Road/Drilling	3,574	357
Unnamed 9318	591610	7121945	2,104	NWT Mineral Claim	Ice Road/Drilling	2,104	210
Unnamed 9331	592876	7121881	67,204	NWT Mineral Claim	Ice Road/Drilling	67,204	6,720
Unnamed 9355	587532	7122122	57,049	NWT Mineral Claim	Ice Road/Drilling	57,049	5,705
Unnamed 9357	593431	7122195	14,548	NWT Mineral Claim	Ice Road/Drilling	14,548	1,455
Unnamed 9382	593607	7122409	10,625	NWT Mineral Claim	Ice Road/Drilling	10,625	1,062
Unnamed 9414	587167	7122561	34,606	NWT Mineral Claim	Ice Road/Drilling	34,606	3,461
Unnamed 9430	594481	7122432	110,933	NWT Mineral Lease NWT Mineral Claim	Ice Road/Drilling	110,933	11,093
Unnamed 9467	597540	7122929	13,903	NWT Mineral Claim	Ice Road/Drilling	13,903	1,390
Unnamed 9471	593300	7123001	10,835	NWT Mineral Claim	Ice Road/Drilling	10,835	1,083
Unnamed 9476	592812	7122875	115,166	NWT Mineral Claim	Ice Road/Drilling	115,166	11,517
Unnamed 9477	597502	7123057	1,784	NWT Mineral Claim	Ice Road/Drilling	1,784	178
Unnamed 9513	583785	7123041	111,505	NWT Mineral Claim	Ice Road/Drilling	111,505	11,151
Unnamed 9519	598509	7123305	1,167	NWT Mineral Claim	Ice Road/Drilling	1,167	117
Unnamed 9536	584097	7123413	11,575	NWT Mineral Lease	Ice Road/Drilling	11,575	1,158
Unnamed 9560	597145	7123540	22,917	NWT Mineral Claim	Ice Road/Drilling	22,917	2,292
Unnamed 9565	594753	7123630	2,088	NWT Mineral Claim	Ice Road/Drilling	2,088	209
Unnamed 9573	584425	7123614	11,637	NWT Mineral Lease	Ice Road/Drilling	11,637	1,164
Unnamed 9580	593711	7122998	678,642	NWT Mineral Claim	Ice Road/Drilling	678,642	67,864
Unnamed 9584	595124	7123428	162,825	NWT Mineral Claim	Ice Road/Drilling	162,825	16,283
Unnamed 9641	597616	7124034	20,871	NWT Mineral Claim	Ice Road/Drilling	20,871	2,087
Unnamed 9654	595336	7124109	6,352	NWT Mineral Claim	Ice Road/Drilling	6,352	635
Unnamed 9655	597766	7124173	1,162	NWT Mineral Claim	Ice Road/Drilling	1,162	116
Unnamed 9664	595218	7124167	11,878	NWT Mineral Claim	Ice Road/Drilling	11,878	1,188
Unnamed 9675	594699	7124015	79,889	NWT Mineral Claim	Ice Road/Drilling	79,889	7,989
Unnamed 9709	591551	7124426	8,656	NWT Mineral Claim	Ice Road/Drilling	8,656	866
Unnamed 9710	594954	7124463	5,107	NWT Mineral Claim	Ice Road/Drilling	5,107	511
Unnamed 9713	592667	7124320	52,730	NWT Mineral Claim	Ice Road/Drilling	52,730	5,273
Unnamed 9717	598340	7124502	3,422	NWT Mineral Claim	Ice Road/Drilling	3,422	342
Unnamed 9729	595749	7124556	12,001	NWT Mineral Claim	Ice Road/Drilling	12,001	1,200
Unnamed 9740	591906	7124679	3,947	NWT Mineral Claim	Ice Road/Drilling	3,947	395
Unnamed 9742	593995	7124638	13,051	NWT Mineral Claim	Ice Road/Drilling	13,051	1,305
Unnamed 9760	599026	7124768	7,221	NWT Mineral Claim	Ice Road/Drilling	7,221	722
Unnamed 9767	594912	7124834	5,533	NWT Mineral Claim	Ice Road/Drilling	5,533	553
Unnamed 9774	594024	7124828	13,417	NWT Mineral Claim	Ice Road/Drilling	13,417	1,342
Unnamed 9776	586679	7124862	2,284	NWT Mineral Claim	Ice Road/Drilling	2,284	228
Unnamed 9793	586776	7124811	33,716	NWT Mineral Claim	Ice Road/Drilling	33,716	3,372
Unnamed 9806	597790	7124920	42,598	NWT Mineral Claim	Ice Road/Drilling	42,598	4,260
Unnamed 9811	593546	7125059	2,774	NWT Mineral Claim	Ice Road/Drilling	2,774	277
Unnamed 9812	595309	7125049	12,822	NWT Mineral Claim	Ice Road/Drilling	12,822	1,282
Unnamed 9824	595636	7124949	87,627	NWT Mineral Claim	Ice Road/Drilling	87,627	8,763
Unnamed 9832	598155	7125230	1,803	NWT Mineral Claim	Ice Road/Drilling	1,803	180
Unnamed 9835	593672	7125199	6,563	NWT Mineral Claim	Ice Road/Drilling	6,563	656
Unnamed 9853	598117	7125350	2,355	NWT Mineral Claim	Ice Road/Drilling	2,355	235



Table A-2: Lake Names and Locations of Proposed Water Sources with No Available Bathymetry

Water Source	Approx. Centroid		Surface Area (m ²)	Land Type	Proposed Use	Estimated Water Volume (m ³)	Annual Withdrawal Limit (m ³)
	Easting	Northing					
Unnamed 9868	598014	7125322	30,223	NWT Mineral Claim	Ice Road/Drilling	30,223	3,022
Unnamed 9891	588384	7125687	2,774	NWT Mineral Claim	Ice Road/Drilling	2,774	277
Unnamed 9900	593243	7125587	136,902	NWT Mineral Claim	Ice Road/Drilling	136,902	13,690
Unnamed 9920	590463	7125964	1,674	NWT Mineral Claim	Ice Road/Drilling	1,674	167
Unnamed 9925	590298	7125915	21,706	NWT Mineral Claim	Ice Road/Drilling	21,706	2,171
Unnamed 9926	593908	7125992	7,422	NWT Mineral Claim	Ice Road/Drilling	7,422	742
Unnamed 9967	594223	7125798	130,718	NWT Mineral Claim	Ice Road/Drilling	130,718	13,072



APPENDIX B

Photographs



**Photograph B-1: Example of Sediment/soil Cuttings Stored in Historic Quarry near the Airstrip.
Photo Orientation: East.**



Photograph B-2: Berm Below the Historic Quarry (Quarry on the Other Side of the Berm, to the Right of the Photo). Photo Orientation: West, towards Quarry.

NK
NIGHTHAWK
GOLD