

# GLENCORE

December 9, 2020

Richard Dwyer  
Manager of Licensing  
Nunavut Water Board  
PO Box 119  
Gjoa Haven, NU  
X0B 1J0

## **Re: Application for Renewal of Water Licence 2BE-HAK1621**

Dear Richard,

Glencore Canada Corp. (Glencore) would like to request a five year renewal of water license 2BE- HAK1621 for the Hackett River Project, from March 31, 2021 to March 31, 2026. This will allow for the potential of continued exploration in this area.

No modifications or amendments to 2BE-HAK1621 have been identified as being necessary for the purposes of this renewal. An overview of the application is provided below.

### **Application Form**

A completed renewal application form is included as Attachment 1. Maps showing the Project location are included as Attachment 2.

### **Scope of Activities Proposed Under the Water Licence Renewal**

This renewal does not represent a change in scope for the Project. Camp operations, population, and water use will be consistent with the current licence and activities undertaken in previous years. At present the camp is in care and maintenance but drilling activities may be resumed during the renewed licence term.

### **Previous Land Use Planning Conformity and NIRB Screenings**

As per the requirements of the Nunavut Planning and Project Assessment Act, this application has also been submitted to the Nunavut Planning Commission (NPC) for a land use plan conformity review and determination of whether a screening by Nunavut Impact Review Board (NIRB) is required. This Project was last reviewed by the NPC during the 2015 renewal of this Licence (NPC file 148168). An NPC determination concluding that no further review was required was issued on December 10, 2015 (Attachment 3).

The Hackett River Project and associated exploration activities has been evaluated by the NIRB several times under NIRB File Numbers 04EN012, 06EN033 and 08EA084. This Project was initially screened by the NIRB in 2004 and a screening decision was issued on April 1, 2004 (Attachment 4). NIRB also issued

subsequent determinations that the Project was exempt from further screening in relation to various licence renewals and amendments (see Attachment 5 & 6).

Glencore notes that the Hackett River Project still lies outside of a planning region with an approved regional land use plan. Also, being a renewal application without change, it is anticipated that neither a NPC conformity review or a NIRB screening will be required for this application, as was the case when last renewed.

### **Updated Plans and Reports**

Glencore's environmental management plans for the Hackett River Project Water Licence have been reviewed and no updates have been identified as being necessary, with the exception of an update to the Abandonment and Restoration Plan. This update is provided in Attachment 7.

A list of environmental studies and reports prepared for the Hackett River Project are provided in Attachment 8.

Annual reports are also prepared by Glencore and submitted to the NWB each year and can be found on the NWB public registry. These reports include information on the progressive reclamation activities Glencore has undertaken during care and maintenance to improve site stability and reduce environmental risk. Over the past licence term, these activities have included multiple campaigns to remove wastes, reclaim sumps and drill sites, consolidate, reduce and inventory fuel storage, undertake revegetation seeding and to bear-proof and maintain camp infrastructure.

### **Updated Security Assessment**

An updated security assessment has been prepared to support this renewal application. This assessment is based on the provided Abandonment and Restoration Plan and is included as an appendix to that plan (Attachment 7).

### **Updated Financial Statement**

Glencore's most recent financial statements can be found on its website at <https://www.glencore.com/investors/reports-results/report-archive>. Glencore remains one of the world's largest globally diversified natural resource companies comprised of over 150 mining and metallurgical sites and oil production assets.

### **Compliance Assessment / Status Reports**

A compliance review of Inspector reports as well as the Water Licence 2BE-HAK1621 has been conducted. With Glencore's submission of an updated Waste Management Plan on November 13, 2020 and the attachment here of an updated Abandonment and Restoration Plan and associated Cost Estimate (Attachment 7) there are no outstanding non-compliances with 2BE-HAK1621.

### **English and Inuktitut Summaries of Renewal Application**

Plain language summaries of the activities contemplated under the renewal are included as Attachment 9.

**Application Fee and Water Use Deposit**

The renewal application form requires submission of a \$30 application fee plus a water use fee deposit of \$30. A cheque for \$60.00 addressed to the Receiver General for Canada has been forwarded by Glencore to the Nunavut Water Board office in Gjoa Haven (Attachment 10).

Should you have any questions or concerns or require additional information, please do not hesitate to contact me.

Regards,

Rick Schwenger

506 547-3288

Rick.schwenger@glencore.ca

*Enclosed:*

*Attachment 1 – Application Form*

*Attachment 2 – Project Map*

*Attachment 3 – Dec 10, 2015 NPC Conformity Determination*

*Attachment 4 – April 1, 2004 NIRB Screening Decision Report (File No. 04EN012)*

*Attachment 5 – November 2, 2009 NIRB letter Re: Exemption from Screening (File No. 04EN012, 06EN033 & 08EA084)*

*Attachment 6 – December 10, 2009 NIRB letter Re: Exemption from Screening (File No. 04EN012, 06EN033 & 08EA084)*

*Attachment 7 – Abandonment and Restoration Plan and Cost Estimate*

*Attachment 8 – Summary of Environmental Reports and Studies*

*Attachment 9 – Plain Language Summaries*

*Attachment 10 – Payment of NWB Application Fee and Deposit*

*Attachment 11 – Table of Leases and Authorizations*

*Attachment 12 – Certificate of Name Change*

*Attachment 13 – Consultation Record*

## **ATTACHMENT 1 – APPLICATION FORM**

**ATTACHMENT 1**



Application for Water Licence Renewal

Document Date: April 2013

Application Submission Date:

12/15/2020

Month/Day/Year

P.O. BOX 119  
GJOA HAVEN, NUNAVUT  
XOB 1J0  
TEL: (867)360-6338  
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NUNAVUT WATER BOARD  
OFFICE DES EAUX DU NUNAVUT

## DOCUMENT MANAGEMENT

Original Document Date: April 2010

### DOCUMENT AMENDMENTS

|      | Description  | Date       |
|------|--|------------|
| (1)  | Updated for public distribution as separate document from NWB Guide 7      | June 2010  |
| (2)  | Updated NWB logos and reformatted table to allow rows to break across page | May 2011   |
| (3)  | New NWB logo and request for background information                        | April 2013 |
| (4)  |  |            |
| (5)  |  |            |
| (6)  |  |            |
| (7)  |  |            |
| (8)  |  |            |
| (9)  |  |            |
| (10) |  |            |



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## APPLICATION FOR WATER LICENCE RENEWAL

Your application may be classified as a **renewal** only if all operations remain the same as previously licensed and only the term of the licence requires change. If your application contemplates:

- a change to the volume of water authorized for use;
- a new activity related to water use or waste disposal;
- a new component related to water use or waste disposal;
- a change in predicted environmental impacts(s); and/or
- a change to any term or condition of the original licence

your application is **NOT** classified as a renewal but rather an amendment and will require submission of an Application for Water Licence Amendment. Licensees applying for combined renewal / amendment are also referred to the Application for Water Licence Amendment.

The applicant is referred to the NWB's Guide 7: Licensee Requirements Following the Issuance of a Water Licence for more information about this application form.

Where possible, provide background information regarding the original licence application or attach previously submitted information.

EXISTING LICENCE NO: 2BE-HAK1621

### 1. LICENSEE CONTACT INFORMATION

Is the licensee the same as that referred to on the existing licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB. **A renewal will only be issued in the name of the current licensee in the absence of assignment of the licence.**

If the licensee is the same, but the name of the licensee has changed, attach a certificate of name change.

Name: Glencore Canada Corporation

Address: 8801 Transcanadienne, Suite 400, St. Laurent, QC, H4S-1Z6

Phone: 506 547-3288

Fax: \_\_\_\_\_

e-mail: Rick.Schwenger@glencore.ca



**2. LICENSEE REPRESENTATIVE CONTACT INFORMATION** – If different from Block 1.

Name:

Address:

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

e-mail: \_\_\_\_\_

(Attach authorization letter.)

**3. NAME OF PROJECT**

Is the name of the project the same as that considered in the existing water licence?

☒ Yes ☐ No

Indicate the name of the project including the name of the location: Hackett River Project, located approximately 104 km south of the community of Bathurst Inlet, Kitikmeot Region, Nunavut

**4. LOCATION OF UNDERTAKING**

Is the location of the undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

**Project Extents**

NW: Latitude: (66 ° 10' N) Longitude: (108 ° 45' W)

NE: Latitude: (66 ° 10' N) Longitude: (106° 45' W)

SE: Latitude: (65 ° 10' N) Longitude: (108 ° 45' W)

SW: Latitude: (65 ° 10' N) Longitude: (106° 45' W)

**Camp Location(s)**

Latitude: 65° 55' N Longitude: 108° 22' W

**5. MAP**

Are the locations of the main components of the undertaking the same as those considered in the existing licence?

☒ Yes   ☐ No

Attach a topographical map, indicating the main components of the undertaking.  
See Project maps (Attachment 2)

NTS Map Sheet No.: #76G/03, 04, 05, 06, 07, 08, 12, 13, #76F/08, 09, 15, 16  
and Prospector Permits \_\_\_\_\_ Map Scale: 1:250,000

Map Name: Claims Leases

## 6. NATURE OF INTEREST IN THE LAND

Is the nature of the interest in the land the same as that considered in the existing water licence?

☒ Yes ☐ No

Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

### Sub-surface

☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☒ Mineral Lease from Indian and Northern Affairs Canada (INAC)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

### Surface

☒ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☒ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ IOL Authorization from Kivalliq Inuit Association (KivIA)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ IOL Authorization from Qikiqtani Inuit Association (QIA)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Commissioner's Land Use Authorization

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Other \_\_\_\_\_

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

Glencore holds a number of mineral leases and land use authorizations associated with this Water Licence. These are provided in Attachment 11.

Is the name of the entity(s) holding authorizations the same as that considered in the existing water licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB.

Name of entity(s) holding authorizations: Glencore Canada Corporation

## 7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Is the undertaking located in the same land use planning area as that considered in the existing licence?

☒ Yes ☐ No

Indicate the land use planning area in which the project is located.

☐ North Baffin  
☐ South Baffin  
☐ Akunnig

☐ Keewatin  
☐ Sanikiluaq  
☒ West Kitikmeot

Was a land use plan conformity determination required from NPC prior to the issuance of the existing water licence?

☒ Yes ☐ No

If Yes, indicate date issued and attach copy. December 10, 2015 (Attachment 3)

Does the proposed renewal change the original NPC conformity determination or the need to obtain one?

☒ Yes ☐ No

If Yes, indicate date issued (or expected) and attach a copy. Expected late December, 2020

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

## 8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Was a screening determination required from NIRB prior to the issuance of the existing water licence?

☐ Yes ☒ No

If Yes, indicate date issued and attach copy. See NIRB Screening Decision Report (Attachment 4) as well as subsequent reviews (Attachments 5 and 6). On the previous renewal of this licence (in 2015) the NPC determined a NIRB screening was not required (Attachment 3)

Does the proposed renewal change the original NIRB screening determination or the need to obtain one?

☐ Yes ☒ No

If Yes, indicate date issued (or expected) and attach a copy. \_\_\_\_\_  
If No, provide written confirmation from NIRB confirming that a screening determination is not required. The NPC confirmed on December 10, 2015 that the Project falls outside of an area with an approved Land Use Plan in place and that further screening from the Nunavut Impact Review Board (NIRB) was not required as the previous screening decision(s) still applied to Project (see Attachment 3). An application has been provided to the NPC to make a determination on whether a screening is required by the NIRB. This determination is anticipated to be issued in late December 2020 or early January 2021. As this renewal is being submitted without amendment, it is anticipated that NPC's determination will remain the same as that issued on the previous renewal.

## 9. DESCRIPTION OF UNDERTAKING

Is the description of the undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

List and attach plans and drawings or project proposal.

*No changes to the undertakings are proposed. A plain language summary of the renewal is provided in Attachment 9.*

## 10. OPTIONS

Are the alternative methods and locations that were considered to carry out the project the same as those considered in the existing water licence?

☒ Yes ☐ No

Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.  
The location of the project is defined by the geology of the site and the historical geological exploration of the area and therefore cannot be located elsewhere. The camp is situated based on historical use of the site and has not been relocated given that this would increase the footprint of disturbance. At this time, no further no changes to this already-established Project are recommended.

## 11. CLASSIFICATION OF PRIMARY UNDERTAKING

Is the primary undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

Indicate the primary classification of undertaking by checking one of the following boxes.

- |  |   |
|--|---|
| <input type="checkbox"/> Industrial  | <input type="checkbox"/> Agricultural                             |
| <input checked="" type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps) |   |
| <input type="checkbox"/> Conservation  |   |
| <input type="checkbox"/> Municipal (includes camps/lodges)   | <input type="checkbox"/> Recreational                             |
| <input type="checkbox"/> Power   | <input type="checkbox"/> Miscellaneous (describe below):<br>_____ |

See Schedule II of the *Northwest Territories Waters Regulations* for Description of Undertakings.

**12. WATER USE**

Is the type(s) of water use(s) the same as that considered in the existing water licence?

☒ Yes    ☐ No

Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> To obtain water for camp/ municipal purposes                                       |   |
| <input type="checkbox"/> To obtain water for industrial purposes   | <input type="checkbox"/> To divert a watercourse                    |
| <input type="checkbox"/> To cross a watercourse  | <input type="checkbox"/> To modify the bed or bank of a watercourse |
| <input checked="" type="checkbox"/> To alter the flow of, or store water   | <input type="checkbox"/> Flood control                              |
| <input checked="" type="checkbox"/> Other: __Exploration drilling purposes and ice strip construction/maintenance_____ |   |

### 13. QUANTITY OF WATER INVOLVED

Is the source of water the same as that considered in the existing licence?

☒ Yes

☐ No

Name of water source(s): Camp Lake and/or lakes proximal to the drilling targets or any ice strip(s)  
(show location(s) on map)

Is the quality of the water source and its available capacity the same as that considered in the existing licence?

☒ Yes ☐ No

Describe the quality of the water source(s) and the available capacity(s): Camp Lake has been the historic drinking water source for the existing Hackett River camp since 1980s/1990s and has sufficient drinking water quality (as defined by Health Canada).

Since the 2014 Esker Breach, Camp Lake volume is approximately 1,350,000 m<sup>3</sup>. This is sufficient capacity to support the minimal use for camp use allocated under this Licence (30 m<sup>3</sup>/day). Should exploration resume, water for other purposes will preferentially be obtained from other waterbodies or the Camp Lake water balance will be examined in more detail.

Drill water will be obtained from lakes or ponds of sufficient volume upon identification of drilling locations.

Is the overall estimated quantity of water to be used the same as that considered in the existing licence?

☒ Yes ☐ No

Provide the overall estimated quantity of water to be used: 299\* m<sup>3</sup>/day

\*This value is associated with seasonal use during the exploration (drilling) phase. Care and maintenance activities would only use a portion of this related to camp use.

Are the quantity(s) of water to be used from each source the same as those considered in the existing licence?

☒ Yes ☐ No

Provide the estimated quantity(s) of water to be used from each source:

As per Part C, Item 1 of the Water Licence, Glencore "...shall obtain all Water for domestic camp use from Camp Lake. Total camp Water use shall not exceed thirty (30) cubic metres per day. Water use for ice airstrip(s) and for drilling shall be obtained from proximal source(s) as outlined in the Application and shall not exceed two hundred and sixty-nine (269) cubic metres per day. The total volume of Water for all purposes under this Licence shall not exceed two hundred and ninety-nine (299) cubic metres per day."

For ponds and lakes near drill targets which will provide water for drilling during the exploration activities, coordinates of the potential water sources to be used for water supply for exploration will be provided to the inspector at least 10 days prior to using the water source.

Are the quantity(s) of water to be used for each purpose the same as those considered in the existing licence?  
☒ Yes ☐ No

Provide the estimated quantities to be used for each purpose (camp, drilling, etc.): Camp Use (during care and maintenance or drilling exploration): 30 m<sup>3</sup>/day; Drilling and Ice Strip Use (during exploration activities): 269 m<sup>3</sup>/d.

Describe the quality(s) of water(s) returned to source(s): All water used for ice strip construction or maintenance is returned to the source on melt. Water recirculated during drilling but not used down hole will be returned to the water source unaltered.

Are the method(s) of extraction the same as those considered in the existing licence? ☒ Yes ☐ No

Describe the method(s) of extraction: Same as existing licence; Camp water is pumped from Camp Lake to the camp surge tanks using an electric pump. Drill water is pumped from the nearby pond or lake to the drill using an electric pump. All intake hoses are fitted with a screen of appropriate mesh size to ensure that fish are not entrained, and water will be withdrawn at a rate that fish do not become impinged on screen.

Are the quantity(s) of water returned to source(s) the same as those considered in the existing licence?  
☒ Yes ☐ No

Estimated quantity(s) of water returned to source(s): Ice strip maintenance is estimated at 60 m<sup>3</sup>/day and drill recirculation may be 0 to 100 + m<sup>3</sup>/day

Are the quality(s) of water(s) returned to source(s) the same as those considered in the existing licence?  
☐ N/A ☒ Yes ☐ No

#### 14. WASTE

Are the type(s) of waste(s) to be generated and/ or deposited the same as those considered in the existing licence?

☒ Yes ☐ No

Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Sewage                  | <input checked="" type="checkbox"/> Waste oil           |
| <input checked="" type="checkbox"/> Solid Waste             | <input checked="" type="checkbox"/> Greywater           |
| <input checked="" type="checkbox"/> Hazardous               | <input checked="" type="checkbox"/> Sludges             |
| <input checked="" type="checkbox"/> Bulky Items/Scrap Metal | <input type="checkbox"/> Contaminated soil and/or water |
| <input type="checkbox"/> Animal Waste                       |   |
| <input type="checkbox"/> Other (describe): _____            |   |



# 15. QUANTITY AND QUALITY OF WASTE INVOLVED

Are the quantity(s) of the types of wastes involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the composition(s) of the types of wastes involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the method(s) of treatment for the types of waste involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the method(s) of disposal for the types of waste involved the same as those considered in the existing licence?

☒ Yes ☐ No

For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

| Type of Waste           | Composition   | Quantity Generated   | Treatment Method  | Disposal Method                                       |
|-------------------------|---|--|---|---|
| Sewage                  | Pacto toilet waste in bags  | Up to 90 kg/day  | Incineration*   | Ash backhauled to licenced landfill offsite           |
| Solid Waste             | paper, cardboard, plastic, wood, burlap cloth, fuel or oil soaked absorbent material, semi-solid waste from Pacto toilets and food preparation waste. | 180 kg/day   | Incineration* and/or Open burning (untreated wood and cardboard only) | Ash backhauled to licenced landfill offsite           |
| Hazardous               | Batteries, contaminated materials, spent oil filters,   | Variable, estimated 0.02 m <sup>3</sup> /day oily hazardous waste, 1.66 lbs/day  | Backhauled to Yellowknife   | Landfilled at licenced Offsite Landfill               |
| Bulk Items/ Scrap Metal | Empty drums, drill steel, broken or worn out mechanical parts; aluminum pop cans, and all non-dairy plastic containers                                | one Twin Otter plane load every week (0.02 m <sup>3</sup> /day) plus 8 - 10 121 L bags (10 x 0.121 m <sup>3</sup> = 1.21 m <sup>3</sup> ) of recycling | Drums are drained, crushed and strapped or shipped whole              | Transferred to recycling or licenced landfill offsite |

|           |  |  |  |  |
|-----------|--|--|--|--|
| Waste Oil | Waste motor oil, transmission fluid and other petroleum fluids | 150 L (0.150 m <sup>3</sup> ) a season during exploration = 0.006 m <sup>3</sup> /day  | Backhauled to Yellowknife or incinerated in camp | Ash or waste oil landfilled at licenced offsite Landfill   |
| Greywater | Kitchen, bathing and laundry water                             | 15-20 m <sup>3</sup> /d at camp capacity   | Collected in container                           | Transferred periodically to settling sump > 31m from water   |
| Sludges   | Rock saw and drilling mud cuttings and brine water             | 1 to 2 m <sup>3</sup> of sludge cleaned from the bottom of the rock saw settling container annually; drill cuttings estimated at 0.65 and 1.91 m <sup>3</sup> per drill hole | Settling container and/or sump                   | Rock saw cuttings dried and shipped offsite for disposal; drill cuttings transferred to sump or boulder field >31 m from water |

*\* Incinerator is an Eco Waste Solutions two stage batch incinerator model CA-50 and has been confirmed by the manufacturer as being suitable for incinerating waste from Pacto toilets*

#### 16. OTHER AUTHORIZATIONS

In addition to the sub-surface and surface land use authorizations provided in Block 6, are the same authorizations required as considered in the existing licence?

✓ Yes ☐ No

For each provide the following:

Authorization: \_\_\_\_\_

Administering Agency: \_\_\_\_\_

Project Activity: \_\_\_\_\_

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

A full list of authorizations associated with the Hackett River Project is provided in Attachment 11 (Leases and Authorizations).

**17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES**

Are predicted environmental impacts of the undertaking and proposed mitigation measures the same as those considered in the existing water licence?

✓ Yes    ☐ No

Describe direct, indirect, and cumulative impacts related to water and waste.

Potential impacts are described below for both care and maintenance as well as exploration and are the same as considered in the existing water licence. The proposed activities have been previously reviewed by the Nunavut Planning Commission and screened by the Nunavut Impact Review Board (NIRB) (files 04EN021, 06EN033 and 08EA084, EX186). The most recent previous renewal application was determined not to require further screening by the NIRB given that previous Screening Decision(s) still applied (NPC December 10, 2015 Conformity Determination, Attachment 3). All activities will be the same as have taken place over the previous terms of this Licence.

**1. Care and Maintenance (current)**

It is expected that activities associated with care and maintenance will have minimal impact on the land, water, flora and fauna and socio-economic areas. There will be minimal trips to the Hackett River camp for the purpose of site inspections and ongoing progressive reclamation.

When camp is occupied during care and maintenance, water impacts for camp use are minimal. DFO guidance is adhered to as applicable to ensure compliance with the Fisheries Act. Water intakes are screened to prevent fish entrainment or impingement. Greywater from the camp is deposited in a sump more than 31 m from any waterbody where it can percolate through the moss and soil. Box#15 outlines waste management during care and maintenance.

All equipment is stored and tents are winterized and protected against wildlife access. Any facilities used in a given year are similarly stored or winterized after use. All waste is removed from the camp where possible or incinerated, and any supplies left on site are stored so as to minimize wildlife attraction, damage from winter storms, ice or snow accumulations.

**2. Exploration (potential)**

Should exploration be resumed, it is expected to have minimal impact on the land, water, flora and fauna and socio-economic areas. The reuse of the existing camp and airstrip is expected to cause minimal additional environmental impact to the land.

Drilling will result in some compressed vegetation where wooden beams or supplies are placed on the ground. Drilling will also result in the distribution of some drill cuttings being deposited near the drill hole collar. All drill hole additives are biodegradable. Where drilling occurs on or near lakes, the return water containing drill cuttings will be pumped well back (> 31 m) from the shore of the lake into a natural depression. Because drill cuttings are mechanically pulverized rock they are geologically similar to the locally present glacial till. It is expected that drill cuttings will, in time, be colonized by plants and lichen.

The occasional use of salt at the drill site is expected to have minimal impact as any brine will be effectively diluted by water pumped to the drill site at a rate of approximately 12 gallons per minute. Salt is required to prevent permafrost from freezing the hole closed when drilling is halted for a significant length of time. Upon drilling completion, all waste is taken back to camp and disposed in a manner appropriate to the waste streams. Any unused material, fuel and supplies are transported to the next drill site, or taken back to camp for storage or disposal.

Effects to local water quantity and quality due to drilling and camp use are expected to be minimal. Water intakes are screened to prevent juvenile fish entrainment or impingement. Each drill is additionally equipped with water meters tracking both water pumped from source and water consumed by drilling. Both readings are recorded at the end of each shift and reported to the Geology Program Manager and are documented in a spreadsheet with values reported monthly to the NWB. Drilling requires the use of water from a nearby lake to generate the necessary drilling mud. A significant portion of the drilling mud/water is recirculated; however, there is a release of drilling mud to a sump near each drill site that percolates through the moss and soil. Greywater from the camp is pumped away from the camp to a location where it can percolate through the moss and soil. Box#15 outlines waste management during exploration Project. To manage wildlife attractants to camp, all garbage will be flown out of camp or will be incinerated on site.

Once drilling and exploration sampling is complete at each site, drill casing is pulled out of all holes drilled on ice, and the holes are cemented and plugged (with fast-drying cement and a rubber plug). Where significant mineralization is encountered the drill casing is left in the holes and cut to ground level and capped. The cut portions are disposed of in an approved facility in Yellowknife or recycled as scrap metal. The collar locations of all drill holes are surveyed and recorded in exploration reports. Drill core and core boxes are moved to the designated storage areas and properly secured. It is anticipated that the drill sites will naturally re-vegetate. At the close of the field season tents and equipment would be stored or winterized for use the following year. All waste is removed from the camp at the end of each field season, and any supplies left on site are stored to minimize damage from winter storms, ice, snow or animals.

## **18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS**

Are the effects of the undertaking on any known persons or property including those that hold licences for water use in precedence to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature, the same as those considered in the existing water licence?

✓ Yes    ☐ No

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

No significant adverse effects are anticipated on other potential users related to the proposed undertaking. This undertaking has been previously screened by the NIRB (Attachments 4, 5, and 6).

**19. INUIT WATER RIGHTS**

Are the effects of the undertaking on the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL) the same as those considered in the existing water licence?

☒ Yes ☐ No

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

No substantial effects to the quality, quantity or flow of waters through IOL is expected to occur from water use and waste disposal contemplated in this licence renewal.

**20. CONSULTATION** - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

No consultation meetings were held specific to this water licence renewal application. However, consultation has been conducted with nearby communities regarding the Hackett River Project. A consultation log is provided in Appendix 13.

**21. SECURITY INFORMATION**

Is the financial security assessment the same as that considered in the existing water licence?

☐ Yes ☒ No

Is the estimate of the total financial security for final reclamation the same as that considered in the existing water licence?

☐ Yes ☒ No

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

An updated security assessment for the Hackett River Project is provided in the updated Abandonment and Restoration Plan submitted as Attachment 7.

## 22. FINANCIAL INFORMATION

Is the statement of financial security the same as that considered in the existing water licence?

☐ Yes    ☒ No

Provide an updated statement of financial security.

*Glencore's most recent financial statements can be found on it's website at:*

<https://www.glencore.com/investors/reports-results/report-archive>

*The most recent annual report (2019) can be found at: <https://www.glencore.com/dam/jcr:79fd3300-ee50-4ee1-870d-6372274c71b5/glen-2019-annual-report-interactive.pdf>*

*Glencore remains one of the world's largest globally diversified natural resource companies comprised of over 150 mining and metallurgical sites and oil production assets.*

If the applicant is a business entity please answer the questions below:

Is the list of the officers of the company the same as those considered in the existing water licence?

☐ Yes    ☒ No

Provide a list of the officers of the company.

Glencore Canada Corporation is owned by Glencore plc, a Jersey company

Kenneth R. Ives- Chief Executive Officer

Michael R. Boone- Director and Chief Financial Officer

Peter Wright- Director and Vice President, Legal

George Kyrleos Vice President, Taxation

Michael Hajdu- Treasurer

Peter Wright- Corporate Secretary

Is the Certificate of Incorporation or evidence of registration of the company name the same

☒ Yes    ☐ No

Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

See Attachment 12.

### 23. STUDIES UNDERTAKEN TO DATE

List and attach updated studies, reports, research etc.

Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licence specific direction in completing the assessment and report.

If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist.

Extensive baseline studies have been conducted around the Hackett River Project in preparation for the filing of a draft environmental impact statement. A list of these study reports is provided in Attachment 8. Baseline studies were discontinued with the cessation of drilling but would be resumed again with the resumption of exploration activities.

Glencore also conducts routine site inspections and maintenance and undertakes continued progressive reclamation of the Project. Information on these activities is included in annual reports submitted to the Nunavut Water Board and available on the NWB public registry. Over the past licence term, progressive reclamation activities have included multiple campaigns to remove wastes, reclaim sumps and drill sites, consolidate, reduce and inventory fuel storage, undertake revegetation seeding with northern grasses and to secure and maintain camp infrastructure.

Water Resources Inspectors conduct inspections under this water licence and Inspector reports can be found on the NWB public registry. All inspection reports as well as the Water Licence 2BE-HAK1621 have been reviewed for the purposes of this renewal application to verify Project compliance. With Glencore's submission of an updated Waste Management Plan on November 13, 2020 and the attachment here of an updated Abandonment and Restoration Plan and associated Cost Estimate (Attachment 7) there are no outstanding non-compliances with 2BE-HAK1621.

## 24. PROPOSED TIME SCHEDULE

Is the time schedule for all phases of development (construction, operations, closure and post closure) the same as that considered in the existing licence?

☐ Yes    ☒ No

Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

### Construction

Proposed Start Date: Already Constructed    Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

### Operation

Proposed Start Date: March 31, 2021    Proposed Completion Date: March 31, 2026  
(month/year) (month/year)

### Closure

Proposed Start Date: \_\_\_\_\_    Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

*Closure is not currently planned for this Project. Glencore hopes that exploration activities will be resumed in future when economic conditions are favourable.*

### Post - Closure

Proposed Start Date: \_\_\_\_\_    Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

For each applicable phase of development indicate which season(s) activities occur.

### Construction

☐ Winter    ☐ Spring    ☐ Summer    ☐ Fall    ☐ All season

### Operation

☐ Winter    ☒ Spring    ☒ Summer    ☒ Fall    ☐ All season

### Closure

☐ Winter    ☐ Spring    ☐ Summer    ☐ Fall    ☐ All season

### Post - Closure

☐ Winter    ☐ Spring    ☐ Summer    ☐ Fall    ☐ All season



**25. PROPOSED TERM OF LICENCE**

On what date does the existing licence expire? \_\_\_\_ March 31 2021 \_\_\_\_

Indicate the proposed term of the renewal (maximum of 25 years): \_\_ 5 years \_\_\_\_

Requested date of renewal issuance: \_ March 31, 2021 \_ Requested Expiry Date: \_ March 31, 2026 \_  
(month/year) (month/year)

(The requested date of renewal issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's *Guide 5: Processing Water Licence Applications* for more information)

**26. ANNUAL REPORTING**

Is the annual report template expected to be the same as that considered in the existing licence?

☒ Yes ☐ No

If not using the NWB's *Standardized Form for Annual Reporting*, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

## 27. CHECKLIST

The following must be included with the application for renewal for the water licensing process to begin.

Completed Application for Water Licence Renewal form.

✓ Yes ☐ No If no, date expected \_\_\_\_\_

Updated plans, including designs and reports (see Block 23).

✓ Yes ☐ No If no, date expected \_\_\_\_\_

Updated security assessment (see Block 21).

✓ Yes ☐ No If no, date expected \_\_\_\_\_

Updated financial statement (see Block 22).

✓ Yes ☐ No If no, date expected \_\_\_\_\_

Compliance Assessment / Status Report (see Block 23).

✓ Yes ☐ No If no, date expected \_\_\_\_\_

English Summary of Renewal Application.

✓ Yes ☐ No If no, date expected \_\_\_\_\_

Inuktitut and/or Inuinnaqtun Summary of Renewal Application.

✓ Yes ☐ No If no, date expected \_\_\_\_\_

Application fee of \$30.00 CDN (Payee Receiver General for Canada).

✓ Yes ☐ No If no, date expected \_\_\_\_\_

Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

A cheque for \$60.00 addressed to the Receiver General for Canada has been forwarded to the Nunavut Water Board office in Gjoa Haven for payment of the Application Fee and the Water Use Deposit.

✓ Yes ☐ No If no, date expected \_\_\_\_\_

**28. SIGNATURE**

I, Rick Schwenger (print name)

certify that the application requires no changes to water use or waste disposal as previously authorized and that the information given on this form is, to the best of my knowledge, correct and complete.



\_\_\_\_\_  
Signature

December 8, 2020  
Date