



## General Water Licence Application (Application for a new Water Licence)

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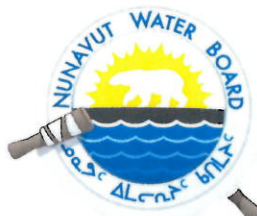
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NUNAVUT IMALIRIYIN KATIMAYIT  
NUNAVUT WATER BOARD  
OFFICE DES EAUX DU NUNAVUT

## DOCUMENT MANAGEMENT

Original Document Date: April 2010

### DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 4	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	Update NWB logo	April 2013
(4)		
(5)		
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### GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: *Guide to Completing and Submitting a Water Licence Application for a New Licence* for more information about this application form.

<b>LICENCE NO:</b> (for NWB use only)	
<b>1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION</b> (name, address)  Hamlet of Grise Fiord P.O. Box 77 Grise Fiord, NU, X0A 0J0  Phone: 867-980-9959 Fax: e-mail: gfsao@qiniq.com	<b>2. APPLICANT REPRESENTATIVE CONTACT INFORMATION</b> if different from Block 1 (name, address)  Worley Consulting 2930 Virtual Way #200 Vancouver, BC, V5M 0A6  Phone: 604-298-1616 Fax: e-mail: andre.dratwa@worley.com (Attach authorization letter.)
<b>3. NAME OF PROJECT</b> (including the name of the project location)  <b>Name:</b> <i>Pedestrian Bridge</i> <b>Location:</b> <i>Hamlet of Grise Fiord, NU, X0A 0J0</i>	
<b>4. LOCATION OF UNDERTAKING</b>  <b>Project Extents</b>  NW: Latitude: (76° 25' 14.08" N) Longitude: (82° 54' 02.87" W) UTM 450188.98 m E, 8482918.85 m N  NE: Latitude: (76° 25' 15.17" N) Longitude: (82° 53' 56.56" W) UTM 450235.99 m E, 8482951.14 m N  SE: Latitude: (76° 25' 11.88" N) Longitude: (82° 53' 47.04" W) UTM 450301.98 m E, 8482846.98 m N  SW: Latitude: (76° 25' 10.81" N) Longitude: (82° 53' 52.52" W) UTM 450261.03 m E, 8482815.12 m N  <b>Camp Location(s)</b>	

Latitude: N/A	Longitude: N/A						
<b>5. MAP</b> - Attach a topographical map, indicating the main components of the undertaking.  Refer to attachment: Topography_317086-59828-00-CI-DGA-0004							
<b>6. NATURE OF INTEREST IN THE LAND</b> - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).  <b>Sub-surface</b>  <input type="checkbox"/> Mineral Lease from Nunavut Tunngavik Incorporated (NTI) Date (expected date) of issuance: _____ Date of expiry: _____  <input type="checkbox"/> Mineral Lease from Indian and Northern Affairs Canada (INAC) Date (expected date) of issuance: _____ Date of expiry: _____  <b>Surface</b>  <input type="checkbox"/> Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC) Date (expected date) of issuance: _____ Date of expiry: _____  <input type="checkbox"/> Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA) Date (expected date) of issuance: _____ Date of expiry: _____  <input type="checkbox"/> IOL Authorization from Kivalliq Inuit Association (KivIA) Date (expected date) of issuance: _____ Date of expiry: _____  <input type="checkbox"/> IOL Authorization from Qikiqtani Inuit Association (QIA) Date (expected date) of issuance: _____ Date of expiry: _____  <input type="checkbox"/> Commissioner's Land Use Authorization Date (expected date) of issuance: _____ Date of expiry: _____  <input checked="" type="checkbox"/> Other: The project will be located on municipal land (Lot 180 Plan 4328) Date (expected date) of issuance: _____ Date of expiry: _____  Name of entity(s) holding authorizations:  <u>Hamlet of Grise Fiord</u>							
<b>7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION</b>  Indicate the land use planning area in which the project is located.  <table style="width: 100%;"><tr><td><input checked="" type="checkbox"/> North Baffin</td><td><input type="checkbox"/> Keewatin</td></tr><tr><td><input type="checkbox"/> South Baffin</td><td><input type="checkbox"/> Sanikiluaq</td></tr><tr><td><input type="checkbox"/> Akunnig</td><td><input type="checkbox"/> West Kitikmeot</td></tr></table> Is a land use plan conformity determination required?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> North Baffin	<input type="checkbox"/> Keewatin	<input type="checkbox"/> South Baffin	<input type="checkbox"/> Sanikiluaq	<input type="checkbox"/> Akunnig	<input type="checkbox"/> West Kitikmeot
<input checked="" type="checkbox"/> North Baffin	<input type="checkbox"/> Keewatin						
<input type="checkbox"/> South Baffin	<input type="checkbox"/> Sanikiluaq						
<input type="checkbox"/> Akunnig	<input type="checkbox"/> West Kitikmeot						

	<p>If Yes, indicate date issued and attach copy _____</p> <p>If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.</p> <p><i>NPC letter issued 20 September, 2024 (File No. 150536) is attached</i></p>										
<b>8.</b>	<p><b>NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION</b></p> <p>Is an Article 12 Part 4 screening determination required?</p> <p><input type="checkbox"/> Yes <span style="margin-left: 150px;"><input checked="" type="checkbox"/> No</span></p> <p>If Yes, indicate date issued and attach copy _____</p> <p>If No, provide written confirmation from NIRB confirming that a screening determination is not required. <i>See attached NPC File No. 150536</i></p>										
<b>9.</b>	<p><b>DESCRIPTION OF UNDERTAKING</b> – List and attach plans and drawings or project proposal.</p> <p><i>The Hamlet of Grise Fiord proposes installing a prefabricated pedestrian walkway across the "Airport River," located approximately 200 m upstream of the main bridge in the community. This crossing will provide a safe pedestrian route between the west and east sides of the community, avoiding exposure to winter polar bear activity along the shoreline.</i></p> <p><i>Further details are provided in the following attachments:</i></p> <ul style="list-style-type: none"> <li>• <i>Preliminary Design of Pedestrian Walkway to Cross 'Airport River' – Worley 2025</i></li> <li>• <i>Preliminary Planning for a Pedestrian Walkway to Cross 'Airport River' – Hamlet of Grise Fiord, 2024</i></li> <li>• <i>Topography 317086-59828-00-CI-DGA-0004</i></li> </ul>										
<b>10.</b>	<p><b>OPTIONS</b> – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.</p> <p><i>Several potential construction methods and alignments were considered for the pedestrian walkway across Airport River in consultation with the local council.</i></p> <p><i>The prefabricated truss bridge, located at the narrowest portion of the river and supported on bin-wall abutments, is the preferred option. It meets community needs, minimizes environmental impacts, and is practical for construction using local resources. Further details are provided in the attached Preliminary Design and Preliminary Planning documents.</i></p>										
<b>11.</b>	<p><b>CLASSIFICATION OF PRIMARY UNDERTAKING</b> - Indicate the primary classification of undertaking by checking one of the following boxes.</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Industrial</td> <td><input type="checkbox"/> Agricultural</td> </tr> <tr> <td><input type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Conservation</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Municipal (includes camps/lodges)</td> <td><input type="checkbox"/> Recreational</td> </tr> <tr> <td><input type="checkbox"/> Power</td> <td><input checked="" type="checkbox"/> Miscellaneous (describe below):</td> </tr> </table> <p><i>This is a pedestrian bridge to provide safe access over 'Airport River'</i></p> <p>See Schedule II of <i>Northwest Territories Waters Regulations</i> for Description of Undertakings.</p> <p>Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water Licence Application. Indicate which SIG(s) are applicable to your application.</p>	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input 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 checked="" type="checkbox"/> Miscellaneous (describe below):
<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural										
<input 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 checked="" type="checkbox"/> Miscellaneous (describe below):										

	<input type="checkbox"/> Hydrostatic Testing <input type="checkbox"/> Tannery <input type="checkbox"/> Tourist / Remote Camp <input type="checkbox"/> Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil <input type="checkbox"/> Onshore Oil and Gas Exploration Drilling <input type="checkbox"/> Mineral Exploration / Remote Camp <input type="checkbox"/> Advanced Exploration <input type="checkbox"/> Mine Development <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> General Water Works <input type="checkbox"/> Power
12.	<b>WATER USE</b> - Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.
	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> To obtain water for camp/ municipal purposes  <input type="checkbox"/> To obtain water for industrial purposes  <input checked="" type="checkbox"/> To cross a watercourse  <input type="checkbox"/> To alter the flow of, or store water  <input type="checkbox"/> Other: _____         </div> <div style="width: 50%;"> <input type="checkbox"/> To divert a watercourse  <input type="checkbox"/> To modify the bed or bank of a watercourse  <input type="checkbox"/> Flood control         </div> </div>
13.	<b>QUANTITY AND QUALITY OF WATER INVOLVED</b> - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.
	<p>Name of water source(s) (show location(s) on map):  <i>The source of water is the Airport River watershed as shown in Appendix A of Exp 2021.</i></p> <p>Describe the quality of the water source(s) and the available capacity:  <i>Freshwater stream is sourced from snow melt and rainwater. The river is non-fish bearing, with low flow most of the year and minimal suspended solids under normal flow. Flow measurements provided below were taken in July and August 2023 (Dillon, 2023).</i></p> <ul style="list-style-type: none"> <li>• <i>Flow: 3 m<sup>3</sup>/s</i></li> <li>• <i>Average Depth: 38 cm</i></li> </ul> <p><i>Water flow capacity will not be impacted by construction of the bridge. A small volume of water may be removed from the River for soil compaction and concrete production in the event that pre-cast foundations are not used. Water is expected to be sourced from the community supply. No water will be returned to source.</i></p> <p>Provide the overall estimated quantity of water to be used: <i>20 m<sup>3</sup></i></p> <p>Provide the estimated quantity(s) of water to be used from each source: <i>20 m<sup>3</sup></i></p> <p>Indicate the estimated quantities to be used for each purpose (drilling, etc.) <i>Concrete: 20 m<sup>3</sup></i></p> <p>Describe the method of extraction(s): <i>Expected to be sourced from community water supply</i></p> <p>Estimated quantity(s) of water returned to source(s) <i>0 m<sup>3</sup>/day</i></p> <p>Describe the quality of water(s) returned to source(s): <i>Not applicable.</i></p>

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

<input type="checkbox"/> Sewage	<input type="checkbox"/> Waste oil
<input type="checkbox"/> Solid Waste	<input type="checkbox"/> Greywater
<input type="checkbox"/> Hazardous	<input type="checkbox"/> Sludges
<input type="checkbox"/> Bulky Items/Scrap Metal	<input type="checkbox"/> Contaminated soil and/or water
<input type="checkbox"/> Animal Waste	
<input checked="" type="checkbox"/> Other (describe): Temporary construction materials packaging, debris from assembly	

**15. QUANTITY AND QUALITY OF WASTE INVOLVED** – 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
Construction debris	Wood, metal, packaging	Minimal	Segregation and collection	Removed from site and disposed at community landfill

*No construction camp will be required as the small number of construction workers can be housed in existing accommodation.*

**16. OTHER AUTHORIZATIONS** – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following:

Authorization: *No authorization required. Will follow Code of Practice for clear span bridges and submit notification to DFO prior to construction.*

Administering Agency: *Department of Fisheries and Oceans*

Project Activity: *Bridge foundation installation*

Date (expected date) of issuance: *Not applicable* Date of expiry: *Not applicable*

**17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES** - Describe direct, indirect, and cumulative impacts related to water and waste.

*Construction impacts are anticipated to primarily result from potential erosion and sedimentation due to vehicle transits adjacent to the river, and the installation of cellular metal bin foundations.*

*Mitigation measures to mitigate impacts to downstream water quality will include:*

- *Implement temporary erosion and sediment control measures during abutment construction to minimize sediment entering the river.*
- *All equipment and fill materials will be clean and free from deleterious substances, and will be operated from backshore, above the ordinary high water mark to the extent possible;*
- *A spill response and emergency response plan will be in place.*
- *Conduct in-river work during periods of low water flow, outside of peak spring melt, to minimize disturbance, using existing earthen crossing to minimize disturbance.*
- *Collect and remove all construction debris, including packaging materials and excess concrete.*

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

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 other users have been identified.*

**19. INUIT WATER RIGHTS**

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 waters flow through Inuit Owned Land (IOL).*

**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 formal consultation conducted but project has been raised at a number of council meetings. No concerns were raised.*

**21. SECURITY INFORMATION**

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.

*Not applicable*

**22. FINANCIAL INFORMATION**

Provide a statement of financial responsibility.

If the applicant is a business entity, provide a list of the officers of the company.

If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

*Not applicable*



**23. STUDIES UNDERTAKEN TO DATE** - List and attach copies of studies, reports, research, etc.

- Dillon Consulting (2023) - Grise Fiord Hydrologic Assessment (No. 23-5971-2300)
- exp Services Inc. (2022) - High Arctic Water Supply & Treatment: Hydrological and Water Balance Study Report - Grise Fiord (FRN-21016638-A0)
- Worley Consulting (2025) - Grise Fiord Pedestrian Walkway, Preliminary Design of Pedestrian Walkway to Cross 'Airport River' (317086-59828-00-MA-REP-00001)
- Hamlet of Grise Fiord (2023) - Preliminary Planning for a Pedestrian Walkway in Grise Fiord

**24. PROPOSED TIME SCHEDULE** – Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction

Proposed Start Date: 08/2026

Proposed Completion Date: 10/2026

Operation

Proposed Start Date: 10/2026

Proposed Completion Date: not applicable

Closure

Proposed Start Date: not applicable

Proposed Completion Date: not applicable

Post - Closure

Proposed Start Date: not applicable

Proposed Completion Date: not applicable

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 – not applicable

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

Post – Closure – not applicable

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

*Construction duration is expected to be 3 – 6 weeks following the sealift delivery of materials.  
Proposed lifespan of bridge is 40 years.*

**25. PROPOSED TERM OF LICENCE**

Number of years (maximum of 25 years): 3 years

Requested Date of Issuance: 03/2026

Requested Expiry Date: 03/2029

(The requested date of 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** – 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.

*The standardized form will be used as requested.*

27. **CHECKLIST** – The following must be included with the application for the water licensing process to begin.

Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.

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

Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.

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

Completed General Water Licence Application form.

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

Information addressing Supplemental Information Guideline (SIG) , where applicable (see Block 11)

☐ Yes ☐ No If no, date expected *No SIG for Miscellaneous category*

English Summary of Application.

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

Inuktitut and/or Inuinnaqtun Summary of 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.

☐ Yes ☐ No If no, date expected *Not applicable*

28. **SIGNATURE**

David General

Senior Administrative  
Officer



06 Jan 2026

**Name (Print)**

**Title (Print)**

**Signature**

**Date**

MARY KULUQHOTUK  
ASAO