



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

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OFFICE DES EAUX DU NUNAVUT



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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.

LICENCE NO: (for NWB use only)	
1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address) Tower Arctic Ltd. (TA) 1502 Federal Road P.O. Box 717 Iqaluit (Nunavut), X0A 0H0 Phone: <u>(867) 979-6465</u> Fax: _____ e-mail: <u>info@towerarctic.net</u>	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) Olivier Bédard-Richard Environmental Coordinator Tower Arctic Ltd. Phone: <u>(418) 953-3781</u> Fax: _____ e-mail: <u>olivier.bedard-richard@towerarctic.net</u> (Attach authorization letter.) (Appendix 1)
3. NAME OF PROJECT (including the name of the project location) Iqaluit Marine Infrastructure Project - Freshwater Withdrawal	
4. LOCATION OF UNDERTAKING Project Extents Withdrawal location: $63^{\circ}45'22.71''$ N $68^{\circ}27'45.05''$ O NW: Latitude: ($^{\circ}$ $'$ $''$ N) Longitude: ($^{\circ}$ $'$ $''$ W) NE: Latitude: ($^{\circ}$ $'$ $''$ N) Longitude: ($^{\circ}$ $'$ $''$ W) SE: Latitude: ($^{\circ}$ $'$ $''$ N) Longitude: ($^{\circ}$ $'$ $''$ W) SW: Latitude: ($^{\circ}$ $'$ $''$ N) Longitude: ($^{\circ}$ $'$ $''$ W) Camp Location(s) Latitude: ($^{\circ}$ $'$ $''$ N) Longitude: ($^{\circ}$ $'$ $''$ W)	
5. MAP - Attach a topographical map, indicating the main components of the undertaking. (Appendix 2)	
NTS Map Sheet No.: _____ Map Name: <u>LOCATION</u> Map Scale: <u>1: 20 000</u>	

6. NATURE OF INTEREST IN THE LAND - 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: City of Iqaluit
Date (expected date) of issuance: _____ Date of expiry: _____

The access to the withdrawal site is already developed and the City of Iqaluit support the project.

Name of entity(s) holding authorizations:

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

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

<input type="checkbox"/> North Baffin	<input type="checkbox"/> Keewatin
<input checked="" type="checkbox"/> South Baffin	<input type="checkbox"/> Sanikiluaq
<input type="checkbox"/> Akunniq	<input type="checkbox"/> West Kitikmeot

Is a land use plan conformity determination required?

Yes No

If Yes, indicate date issued and attach copy April 20, 2021 (Appendix 3)

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

Is an Article 12 Part 4 screening determination required?

Yes No

If Yes, indicate date issued and attach copy September 29, 2017 (Appendix 4)

If No, provide written confirmation from NIRB confirming that a screening determination is not required.

9. DESCRIPTION OF UNDERTAKING – List and attach plans and drawings or project proposal.

Freshwater withdrawal is required to support dust suppression (roads and crushing operation) and to produce concrete for the Iqaluit Marine Infrastructure Project. A small water pump and a water tanker truck will be used to withdraw the water. The access to the site is already developed so no work is planned near the site.

10. OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.

The other option evaluated by TA was to use drinking water provided by the City of Iqaluit. The City of Iqaluit did not approve this option and support that TA withdraw freshwater at the junction of Niaqunguk River and the Road to Nowhere.

11. CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes.

<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):

Construction

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

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.

- Hydrostatic Testing
- Tannery
- Tourist / Remote Camp
- Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil
- Onshore Oil and Gas Exploration Drilling
- Mineral Exploration / Remote Camp
- Advanced Exploration
- Mine Development
- Municipal
- General Water Works
- Power

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

<input type="checkbox"/> To obtain water for camp/ municipal purposes	<input type="checkbox"/> To divert a watercourse
<input type="checkbox"/> To obtain water for industrial purposes	<input type="checkbox"/> To modify the bed or bank of a watercourse
<input type="checkbox"/> To cross a watercourse	<input type="checkbox"/> Flood control
<input type="checkbox"/> To alter the flow of, or store water	
<input checked="" type="checkbox"/> Other: <u>Construction activities</u>	

13. QUANTITY AND QUALITY OF WATER INVOLVED - 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.

Name of water source(s) (show location(s) on map): Niaqunguk River (Apex River)

Describe the quality of the water source(s) and the available capacity: _____

The mean annual discharge (MAD) at proximity of the withdrawal location in 2017 was 0.717 m3s and 30% of MAD was 0.215 m3/s (3AM-IQA1626 Amendment Application, City of Iqaluit, 2018, p. 2-5).

Provide the overall estimated quantity of water to be used: 5 to 10 m³/day

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

500 to 800 m3

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)

Construction acitivities: 500 to 800 m3

Describe the method of extraction(s): A small water pump and a water tanker truck will be used.

Estimated quantity(s) of water returned to source(s) 0 m³/day

Describe the quality of water(s) returned to source(s): N/A

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 type="checkbox"/> Other (describe): <u>No waste will be generated by the water withdrawal.</u>	

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
N/A				

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: N/A

Administering Agency: _____

Project Activity: _____

Date (expected date) of issuance: _____ Date of expiry: _____

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

-Deposit of deleterious substance: TA will follow his Spill Response Plan of the Iqaluit Marine Infrastructure Project (Appendix 5).

-Entrainment and impingement of fish: TA will use the *Interim code of practice: End-of-pipe fish protection screens for small water intakes in freshwater* from DFO.

18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER

It is not expected that the proposed withdrawal project will affect the other users.

19. INUIT WATER RIGHTS

It is not expected that the proposed withdrawal project will affect the water quality, quantity or flow of waters flowing through Inuit Owned Land.

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 conducted at this time.

21. SECURITY INFORMATION Not applicable as the project do not require reclamation process.

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.

22. FINANCIAL INFORMATION (Appendix 7)

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.

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

No study, report or research conducted for the project.

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: June/2021 (month/year) Proposed Completion Date: November/2021 (month/year)

Operation

Proposed Start Date: _____ Proposed Completion Date: _____
(month/year) (month/year)

Closure

Proposed Start Date: _____ Proposed Completion Date: _____
(month/year) (month/year)

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

Number of years (maximum of 25 years): 2 years

Requested Date of Issuance: June/2021
(month/year) Requested Expiry Date: November/2022
(month/year)

(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 for Annual Reporting" will be used by TA.

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 _____

English Summary of Application.

Yes No If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of Application.

Yes No If no, date expected Unknown
(delayed because of the Covid situation)

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 _____

28. SIGNATURE

Olivier Bédard-Richard

Name (Print)

Environmental Coordinator

Title (Print)



Signature

April 28, 2021

Date