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NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYIT

OFFICE DES EAUX DU NUNAVUT

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) Phone: <u>778-945-5205</u> Fax: _____ e-mail: <u>Marie.Cardona@advisian.com</u>	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) Phone: <u>N/A</u> _____ Fax: _____ e-mail: _____ (Attach authorization letter.)
3. NAME OF PROJECT (including the name of the project location) <i>Geotechnical and Environmental Baseline Studies – Iqaluit Port Development</i>	
4. LOCATION OF UNDERTAKING Project Extents NW: Latitude: (° ' " N) Longitude: (° ' " W) – <i>see Study Area Map</i> NE: Latitude: (63° 44' 31" N) Longitude: (68° 30' 27" W) SE: Latitude: (° ' " N) Longitude: (° ' " W) – <i>see Study Area Map</i> SW: Latitude: (63° 43' 11" N) Longitude: (68° 32' 05" W) Camp Location(s) – <i>N/A – no camp will be required for this project.</i> Latitude: (° ' " N) Longitude: (° ' " W)	
5. MAP – Attach a topographical map, indicating the main components of the undertaking. – <i>map is attached.</i> NTS Map Sheet No.: <u>025N10</u> Map Name: <u>HILL ISLAND, Nunavut</u> Map Scale: <u>1:50,000</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: 9/1/2016 Date of expiry: 9/1/2021

☐ 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: _____

Name of entity(s) holding authorizations:

N/A

7. **NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION**

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

N/A – Site is in area with no approved regional land use plan.

☐ North Baffin

☐ Keewatin

☐ South Baffin

☐ Sanikiluaq

☐ Akunnig

☐ West Kitikmeot

Is a land use plan conformity determination required?

☐ Yes

☒ No

If Yes, indicate date issued and attach copy _____

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required. – *Please see attached letter from the Nunavut Planning Commission*

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 August 3, 2016 (see attached)

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.

Drill water will be sourced from the municipality and/or pumped from the sea. The location for sourcing seawater will be confirmed by the successful contractor. Please see attached Supplemental Information documentation for further information.

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

Due to the minimal impacts of this work, alternatives were not necessary. Please see attached supplemental information documentation for further details.

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

☐ Industrial

☐ Agricultural

☐ Mining and Milling (includes exploration/drilling/exploration camps)

☐ Conservation

☐ Municipal (includes camps/lodges)

☐ Recreational

☐ Power

☒ Miscellaneous (describe below):

Geotechnical and Environmental Baseline Studies

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

N/A

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

☐ To obtain water for camp/ municipal purposes

- ☐ To obtain water for industrial purposes
 ☐ To divert a watercourse
☐ To cross a watercourse
 ☐ To modify the bed or bank of a watercourse
☐ To alter the flow of, or store water
 ☐ Flood control
☒ Other: Geotechnical Drilling

- 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):

Koojesse Inlet or municipal source

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

Seawater or freshwater /capacity well beyond what is required

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

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

Maximum of two m³/day from either source

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

All water used will be for geotechnical drilling

Describe the method of extraction(s): Drill water will be sourced from the municipality and/or pumped from the sea.

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

Describe the quality of water(s) returned to source(s): Drill cuttings (including drilling muds) generated in the marine area will be pumped down borehole on completion or will be released at the seabed during drilling.

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

☒ Sewage

☐ Solid Waste

☐ Hazardous

☐ Bulky Items/Scrap Metal

☐ Animal Waste

☒ Other (describe): Drill cuttings/mud/fluid generated from geotechnical work

☐ Waste oil

☐ Greywater

☐ Sludges

☐ Contaminated soil and/or water

- 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
Overburden from drilling activities	Drill mud/fluids/cuttings	Five cubic metres (total)	N/A – Environmentally friendly drill mud will be generated.	Recirculated to seafloor.
Sewage	Human waste	One cubic	Transported to	Portable

		metre (total)	municipal facility	toilet
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: <i>Please see attached "Supplemental Information" document for a full list of other authorizations required/obtained.</i> Authorization: _____ 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. <i>Please see attached Environmental Management Plans</i>			
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. <i>N/A. No adverse effects anticipated by these proposed works.</i>			
19.	INUIT WATER RIGHTS Advise the Board of any substantial effect 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). <i>N/A. No adverse effects anticipated by these proposed works.</i>			
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. <i>Please see attached stakeholder consultation documentation.</i>			
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.

*For financial information and copies of financial and annual reports, please refer to corporate site:
<http://www.worleyparsons.com/InvestorRelations/FinancialResults/Pages/default.aspx>*

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

- *WorleyParsons Canada Services Ltd. is the company that is incorporated in Canada. WorleyParsons Canada Services Ltd. is owned by WorleyParsons, which publicly trades on the Australian stock exchange.*
- *President: Dennis Finn (CEO)*
- *General Manager: Jason Tielker (Pacific Northwest)*

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

Please see the attached Certificate of Incorporation.

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

Studies have not been undertaken to date for this project.

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

The environmental and geotechnical baseline studies are proposed to be initiated in September 2016 and conclude in September 2017.

Construction

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

The environmental and geotechnical baseline studies will be conducted seasonally during all seasons.

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: 11/2016 Requested Expiry Date: 11/2018
(month/year) (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 work is anticipated to be completed within one year. The NWB's Standardized Form for Annual Reporting will be used to report the completion of work.

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 ____ (not applicable) _____

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 Payment to be made via phone

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 Payment will be made via phone with NWB upon discussion of appropriate amount, if applicable.

28. SIGNATURE

MARIE CARDNA

Name (Print)

Senior Consultant

Title (Print)

[Signature]

Signature

2/8/16

Date