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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYIT
OFFICE DES EAUX DU NUNAVUT

APPLICATION FOR APPROVAL FOR THE USE OF WATER OR DEPOSIT OF WASTE WITHOUT A LICENCE

Refer to the Guide to the Approval for the Use of Water or Deposit of Waste Without a Licence (Guide) in completing this Application.

APPLICATION NO: (for NWB use only)																														
1. APPLICANT CONTACT INFORMATION (name, address) Colonel Christopher Poole Commander, 31 Canadian Brigade Group Wolseley Barracks 701 Oxford Street East London ON N5Y 4T7 Christopher.Poole3@forces.gc.ca (519) 660-5251		2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) Major Gordon Prentice NOREX Plans Wolseley Barracks 701 Oxford Street East London ON N5Y 4T7 Gordon.Prentice@forces.gc.ca (519) 660-5275 ext 5030																												
3. NAME OF THE OWNER OF THE LAND THAT WILL BE USED IN RELATION TO THE WATER TO BE USED OR THE WASTE TO BE DEPOSITED Crown Land, Inuit Owned Land																														
4. NAME OF PROJECT (consistent with the name of the project issued by other regulatory agencies) NOREX 18 (Northern Exercise 2018)																														
5. LOCATION OF UNDERTAKING Project Extents (decimal degree format) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: yellow;"> <th colspan="4">Op Box Corner Coordinates</th> </tr> <tr style="background-color: yellow;"> <th>Op Box</th> <th>Corner</th> <th>Latitude (DD)</th> <th>Longitude (DD)</th> </tr> </thead> <tbody> <tr> <td rowspan="6" style="text-align: center; vertical-align: middle;">Resolute</td> <td style="text-align: center;">West</td> <td style="text-align: center;">74.74669</td> <td style="text-align: center;">-95.41029</td> </tr> <tr> <td style="text-align: center;">North West</td> <td style="text-align: center;">75.05858</td> <td style="text-align: center;">-95.41029</td> </tr> <tr> <td style="text-align: center;">North East</td> <td style="text-align: center;">75.05858</td> <td style="text-align: center;">-93.34486</td> </tr> <tr> <td style="text-align: center;">South East</td> <td style="text-align: center;">74.62919</td> <td style="text-align: center;">-93.34486</td> </tr> <tr> <td style="text-align: center;">South</td> <td style="text-align: center;">74.62919</td> <td style="text-align: center;">-94.76759</td> </tr> <tr> <td style="text-align: center;">South West</td> <td style="text-align: center;">74.74813</td> <td style="text-align: center;">-94.76759</td> </tr> </tbody> </table>				Op Box Corner Coordinates				Op Box	Corner	Latitude (DD)	Longitude (DD)	Resolute	West	74.74669	-95.41029	North West	75.05858	-95.41029	North East	75.05858	-93.34486	South East	74.62919	-93.34486	South	74.62919	-94.76759	South West	74.74813	-94.76759
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	South	74.62919	-94.76759																											
	South West	74.74813	-94.76759																											

Grise Fiord	South West	76.36440	-83.28991
	North West	76.48239	-83.28991
	North East	76.48239	-82.10613
	South East	76.36440	-82.10613
Arctic Bay	South West	72.97619	-85.58027
	North West	73.16574	-85.58027
	North East	73.16574	-84.73982
	South East	72.97619	-84.73982

Note: The above coordinates encompass three operational boxes (Op Box) proposed for NOREX 18 in the vicinity of Resolute, Grise Fiord and Arctic Bay.

Camp Location(s) (decimal degree format)

There will be one primary camp established to the east of Resolute at approximately 74.68506 / -94.54553 on Cornwallis Island. This camp will operate from 6-16 February 2018 and will host a maximum of 130 personnel at any one time. A fuel cache of ten 200 litre drums will also be established at this location. The fuel cache will be removed no later than 19 February 2018. Smaller camps of approximately 30 personnel may also be established, for one night only, elsewhere within the Cornwallis Island Op Box. A small camp for 30 personnel will also be established within the Arctic Bay (73.05569 / -85.11243) and Grise Fiord (76.43897 / -82.95355) Op Boxes. These camps will exist for no more than one night between 8-15 February 2018.

Name of the Water Management Area in which the Undertaking is located. (Please see Appendix D of the Guide):

- 47. Admiralty Inlet Watershed
- 55. Bathurst and Cornwallis Islands Watershed
- 64. Southeastern Ellsemere Island Watershed

6. Previous Approvals or Licences Associated with Undertaking ("Type A", "Type B" or Approval Without a Licence)

☐ NA or

Previous Licence/Approval Number: 8WLC-NES1718

The Board reminds the Applicant that as stated in s. 46 of the NWNSRTA, the expiry or cancellation of any previous licence does not relieve the holder from any outstanding obligations imposed under the licence.

7. **CLASSIFICATION OF UNDERTAKING** - Indicate the classification of undertaking by checking one of the following boxes.

☐ Industrial
☐ Mining
☐ Conservation
☐ Municipal

☐ Agricultural
☐ Recreational
☐ Power
☒ Other: (describe)

Military Training. Approximately 260 military personnel, with 26 Rangers, will conduct training within Op Boxes as indicated above. The military personnel will train in two groups with no more than 130 being on the land at any one time.

See Appendix C of the Guide for descriptions of classifications of undertakings.

8. **DESCRIPTION OF UNDERTAKING AND EQUIPMENT USED** – Provide a brief description of the undertaking including a description of any equipment that will be used in using water or depositing waste.

NOREX 18

NON-TECHNICAL PROJECT SUMMARY

The Canadian Army maintains a variety of forces on standby for employment within Canada. These forces are designed to support other government departments in a response to a domestic emergency situation and include reasonably well known organisations such as SAR (Search and Rescue). The 4th Canadian Division is based in Ontario and, as part of this overall force posture, maintains both Regular Army and Reserves on standby for employment in Nunavut. The Regular Army contribution to this emergency response capability is known as the Immediate Reaction Unit (IRU) with the Reserve component being called the Arctic Response Company Group (ARCG). Both the Regular and Reserve components of these standby forces, the IRU and ARCG respectively, will be provided the opportunity to conduct training in Nunavut during February 2018.

This training will be conducted from the Canadian Armed Forces Arctic Training Centre (CAFATC) located in Resolute, NU. A small group will arrive approximately two weeks prior to the majority of the soldiers in order to conduct necessary equipment preparation and checks. This group will be housed at CAFATC until the arrival of the IRU on 4 February 2018. Working with 20-25 Rangers, the approximately 110 soldiers in the IRU will then conduct acclimatisation training in the vicinity of CAFATC prior to moving out on to the land. Movement will be by military Ski-Doo to a temporary tented camp location approximately seven kilometres east of the Hamlet of Resolute. Members of the local community will know this area as the location of the aircraft wreck from a crash in the late 1960s. From this camp smaller groups of soldiers numbering no more than 30 at a time will conduct patrols, on foot and ski-doo, further east reaching as far as the shore of Cornwallis Island. Similar sized groups may also return to CAFATC to conduct aerial patrols to the communities of Arctic Bay and Grise Fiord. These aerial patrols will use Twin Otter and DC-3 aircraft and will operate using permanent airfield locations only. Once in these communities, they will be primarily on foot to conduct short patrols in areas close to the communities. All patrols will be no more than 24 hours in duration before returning to the main camp at the crash site. After approximately four days, the ARCG will arrive at CAFATC. This is also a 110 member organisation and, once complete acclimatisation training, will relieve the IRU who will then return to CAFATC for travel south on 13 February 2018. ARCG training will be identical to that conducted by the IRU, including maintaining a camp in approximately the same location and the conduct of patrols. Rangers from 1 CRPG will at all times be present with soldiers while at the main camp site as well as when on patrols. Both the IRU and ARCG will also conduct a rifle and shot gun range in the vicinity of Resolute Bay, at a location used previously for this purpose. The ARCG will return to the south on 17 February with only a small 20 person group remaining until 20 February to ensure all necessary clean-up activities are completed. The overall aim of training is to

[illegible]

9. **SCHEDULE** – Applicants are advised that approvals without a license are issued for a one year term.
- Proposed Start Date: 4 February 2018 Proposed Completion Date: 28 February 2018
(Month/Year) (Month/Year)

- 10. TYPE OF USE OF WATER WITHOUT A LICENCE PROPOSED** - Check the box that applies to the type of water use proposed. If none of the water uses listed below applies to the proposed water use, an application for a water licence will be required. See the NWB's Guide 4 – Completing and Submitting a Water Licence Application for a New Licence.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the construction of a structure across a watercourse that is less than 5 metres wide at the ordinary high water mark at the point of construction.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the training of an intermittent watercourse.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that involves the infilling of the watercourse, if the watercourse has no inflow or outflow and a surface area of less than 0.5 hectares.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the construction of a temporary structure in a watercourse for the purpose of flood control.
- ☐ For an undertaking other than a Power undertaking and for any use of water related to the storage of 2,500 m³ or less.



For an undertaking other than a Power undertaking and for any use of water less than 50 m³ per day.

- 11. QUANTITY AND QUALITY OF WATER INVOLVED** - For each type of water use indicated in Block 10, provide the source of water, the estimated quantity to be used in cubic metres per day, and the periods during which water will be extracted.

Type of Water Use indicated in Block 10	Name of water source	Estimated quantity of water to be used in cubic metres per day	Periods during which water will be extracted
Less than 50 m ³	Resolute Bay municipal water supply system	3 m ³ maximum	Daily, 6-16 February 2018

- 12. TYPE OF DEPOSIT OF WASTE PROPOSED** - Check the box that applies to the type of deposit of waste proposed. If none of the deposits of waste listed below apply to the proposed deposit of waste, an application for a water licence will be required. See the NWB's Guide 4 – Completing and Submitting a Water Licence Application for a New Licence.

- ☐ For an Industrial undertaking, for an activity related to hydrostatic testing or cleaning of storage tanks and pipelines, and for any deposit of waste resulting from hydrostatic testing or cleaning of unused storage tanks or pipelines.
- ☐ For an Industrial undertaking, for an activity related to quarrying and gravel washing, and for any deposit of waste that is not deposited to surface water and that results from quarrying or gravel washing above the ordinary high water mark.
- ☐ For a Mining undertaking, for an activity related to exploratory work, any deposit of sewage to a sump.
- ☐ For a Power undertaking, any deposit of sewage to a sump.
- ☐ For an Agricultural undertaking, any deposit of sewage to a sump.
- ☐ For a Conservation undertaking, any deposit of sewage to a sump.
- ☐ For a Recreation undertaking, any deposit of sewage to a sump.
- ☒ For any Other type of undertaking not listed above, other than Municipal, any deposit of sewage to a sump.

- 13. QUANTITY AND QUALITY OF WASTE INVOLVED** – For each type of waste indicated in Block 11, describe the quantity in cubic metres/day, measures to avoid or mitigate adverse impacts, and periods of deposition.

Type of Waste indicated in Block 12	Quantity to be deposited in cubic metres per day	Measures to avoid or mitigate any adverse impacts	Periods during which waste will be deposited
Sewage (human waste)	20kgs	Human waste produced while on the land will be collected (bagged) and returned Resolute for proper disposal.	6 - 16 Feb, 2018
Greywater	10 m ³	Greywater produced at temporary camp sites, is anticipated to be minimal where use of water will be mostly for personal consumption (drinking and cooking). Greywater produced CAFATC (Resolute Bay) will be disposed of via existing infrastructure.	6 - 16 Feb, 2018
Combustible Waste	35kgs	All combustible waste produced while on the land will be returned to Resolute for proper disposal.	6 - 16 Feb, 2018
Non-Combustible Waste	5kgs	All non-combustible waste produced while on the land will be returned Resolute for disposal or will be shipped south if necessary.	6 - 16 Feb, 2018
Hazardous (petroleum product containers, batteries, etc.)	5kgs	To be collected and transported to CAFATC for further shipment to southern Ontario for proper disposal in accordance with applicable regulations.	6 - 16 Feb, 2018

14. SIGNATURE

I, _____ (print name) certify that the information given on this form is, to the best of my knowledge, correct and complete.

☐ Yes

☐ No

OR

I, Major Gordon Prentice (print name), as an authorized representative of the Applicant, Colonel Christopher Poole, certify that the information given on this form is, to the best of my knowledge, correct and complete.

☒ Yes

☐ No

I certify that the Nunavut Planning Commission's land use planning requirements under Article 11 of the Nunavut Land Claims Agreement have been met.

☒ Yes

☐ No

I certify that the Nunavut Impact Review Board's development impact review requirements under Article 12 of the NLCA have been met.

☒ Yes

☐ No

I certify that the proposed water use is of a type set out in column 2 of Schedule 2 of the Regulations that is further specified by column 3, in respect of an undertaking set out in column 1. See list in Block 9.

☒ Yes

☐ NA

☐ No

I certify that the proposed deposit of waste is an activity that is set out and then further specified in columns 2 and 3 of Schedule 3 of the Regulations, in respect of an undertaking that is set out in column 1 of Schedule 3. See list in Block 11.

☒ Yes

☐ NA

☐ No

I certify that the proposed water use or deposit of waste will not substantially affect the quality, quantity or flow of the watercourse whose waters are used.

☒ Yes

☐ No

I certify that the proposed water use or deposit of waste will not substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Lands.

☒ Yes

☐ No

I certify that the proposed water use or deposit of waste will not affect the use of waters by a person who would be entitled to compensation under sections 58 or 60 of the Nunavut Waters Nunavut Surface Rights Tribunal Act (Act) if their use of these waters were to be adversely affected by an applicant for a licence.

☒ Yes

☐ No

I certify that a licence is not required for another use of water, or deposit of waste in respect of the proposed undertaking.

☒ Yes

☐ No

I have read and agree to comply with the following conditions outlined in sections 4(3), 5(4), 5(5) and 6 of the Nunavut Waters Regulations:

1. In the case of an applicant who has a mineral right and who intends to use waters or deposit waste in relation to that right, the applicant shall respect the priority conferred on Inuit by section 62 of the Act as if that applicant had a licence for the use or deposit.
2. Measures must be taken prior to using water to minimize any alteration to the bed or banks of a watercourse whose waters are to be used, and the measures shall be maintained during the operation of the undertaking.
3. No waste is to be deposited to surface water or within 31 metres of the ordinary high water mark of any body of water.
4. The waste shall not contain more than 15 milligrams per litre of petroleum or petroleum product and must not have a visible hydrocarbon sheen.
5. Prior to the closure or abandonment of the undertaking or end of the period authorized for the use of water or deposit of waste without a licence, whichever occurs first, the site shall be restored — to the extent practicable — to the state in which it was before the water was used or the waste was deposited.^a
6. An applicant who is authorized under the Regulations to use waters or deposit waste without a licence shall:
 - a. maintain accurate and detailed books and records of:

- i. the quantity of water, in cubic metres, used each day,
 - ii. the quantity, in cubic metres, of waste deposited each day,
 - iii. the type of waste deposited each day,
 - iv. where the waste is deposited,
 - v. the concentration of the substance, or substances, in the deposited solid or liquid that has the effect of making the deposit waste,
 - vi. the methodology used to calculate or determine the information referred to in items (i) to (iv), and
 - vii. the measures that were taken to avoid or mitigate any adverse impacts of the deposit of waste.
- b. keep the books and records on the site of the undertaking during the period of its operation and make them available during that period to an inspector on request;
 - c. submit to the Board a report containing a summary description and supporting photographs of the restoration of the site of the undertaking within 30 days after the earliest of (i) the day on which the undertaking is closed or abandoned, and (ii) the last day of the period authorized for the use or deposit without a licence;^b and
 - d. keep the books and records for two years after submitting the report describing the restoration of the site of the undertaking.

Notes:

a) A site need not be restored prior to the end of the period authorized for the water use or deposit of waste without a licence, as required by Item 5, if the Board issues a licence for the use of water or deposit of waste on that site prior to the end of that period.

b) An applicant need not submit the report referred to in Item 6 (c), to the Board if the applicant obtains the Board's approval for a use of water or deposit of waste without a licence, or a licence for a use of water or deposit of waste, on the same site within thirty (30) days after the last day of the period authorized for the use or deposit.

☒ Yes

☐ No

I understand that any approval granted by the Board for the use of water or deposit of waste without a licence will be authorized for a period of one year after the day on which the Board approves the Application. The use or deposit is not authorized until the Board approves the Application and it is only valid as long as the applicant is in compliance with the conditions set out in the declaration above.

☒ Yes

☐ No

I understand that if I have answered "No" to any of the above statements a water licence is required from the Nunavut Water Board prior to the use of water or deposit of waste.

☒ Yes

☐ No

Major Gordon Prentice
Name (Print)

NOREX Plans
Title (Print)


Signature

19 Dec 2017
Date