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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 Aboriginal Affairs and Northern Development Canada (AANDC) Phone: _____ Fax: _____ e-mail: _____	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) Mark Yetman Senior Project Advisor, AANDC Phone: 819-934-1188 Fax: 819-934-9229 e-mail: _____ (Attach authorization letter)												
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													
4. NAME OF PROJECT (consistent with the name of the project issued by other regulatory agencies) HIGH ARCTIC REMEDIATION/RISK MANAGEMENT PLAN DEVELOPMENT (ROMULUS, LOUGHEED IS./DALE PAYNE, REA POINT, DRAKE POINT, THOR IS.) NUNAVUT													
5. LOCATION OF UNDERTAKING Project Extents (decimal degree format) <table><tr><td>NW</td><td>78.1317</td><td>-103.2536 (Thor Island)</td></tr><tr><td>NE</td><td>79.8513</td><td>-84.3783 (Romulus)</td></tr><tr><td>SE</td><td>76.4210</td><td>-108.5940 (Drake Point)</td></tr><tr><td>SW</td><td>75.3610</td><td>-105.7274 (Rea Point)</td></tr></table>		NW	78.1317	-103.2536 (Thor Island)	NE	79.8513	-84.3783 (Romulus)	SE	76.4210	-108.5940 (Drake Point)	SW	75.3610	-105.7274 (Rea Point)
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SE	76.4210	-108.5940 (Drake Point)											
SW	75.3610	-105.7274 (Rea Point)											

Camp Location(s) (decimal degree format)

Primary site: 75.370 -105.7317 (Rea Point)
 Back-up site: 76.4130 -108.5001 (Drake Point)

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

54: Melville 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: _____

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)

Temporary camp to be used for phase III environmental assessment of 6 northern contaminated sites.

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.

The High Arctic Project includes six (6) individual sites that have been grouped together for efficiency and cost effectiveness. The six sites include Rea Point, Drake Point, Dale Payne, Loughed Island (L1), Thor Island and Romulus. Contamination at the sites is a result of oil and gas exploration activities.

In the summer 2015 field season, Phase III Environmental Site Assessment work will be conducted at all six sites. This phase III work will be relatively non-intrusive involving mainly soil sampling and possibly a small amount of geotechnical work if deemed necessary. For this work we plan to establish a small base camp at Rea Point and use helicopter and fixed wing aircraft to access the other sites. Should the Rea Point site not be suitable at that particular time, we will use Drake Point as the alternate base camp. The camp would house no more than 20 people in tents for a period of approximately three weeks, and would require the use of approximately 1 cubic metre of water per

day from a local water source for the operation of the camp. The Rea Point camp, and location of the stream would be at approximately 75.3700 and -105.7317, whereas the alternate camp at Drake Point would be close to the airstrip which can be found at approximately 76.4130 and -108.5001. The water extracted from the seasonal stream will be used for cooking, and washing, while drinking water will be brought to the site in bottles on resupply flights. Since drinking water will be brought in, there is no need to do drinking water monitoring.

Water will be pumped from the seasonal stream directly into the camp tank using a 5hp pump with a 2" hose. The water intake hose will be covered with a screen (maximum screen size of 2.54 millimetres and maximum screen approach velocity of 0.038 metres/second) to ensure that no fish become trapped. The camp tank will be filled on an as need basis. Other than this, there will be no other storage of water on site.

With respect to general waste management, an incinerator will be onsite to burn all solid waste. Storburn or Pacto toilets will be used for blackwater resulting in no blackwater being discharged to the site. A greywater sump will be dug, and a grease tramp installed in the kitchen. At the end of camp, lime will be added to the pit before backfilling.

Following this Phase III Site Assessment work, a Remediation and Risk Management Plan (RRMP), Environmental Impact Assessment (EIA) and a detailed site remediation cost estimate (indicative level) will be developed. This is an essential step towards the remediation of these six high arctic contaminated sites.

The following is more site specific information for each of the locations:

1. Rea Point

Rea Point is approximately 320 km from the closest community which is Resolute Bay, Nunavut. All historical buildings, drums and major debris have been buried or removed from the site. There is currently a minimal amount of metal and wood debris scattered throughout the site. Some building footprints, roadways and trails are visible. The airstrip was known to be in good condition during the time of the Phase II ESA.

2. Drake Point

Drake Point/Melville Island is located about 420 km northwest of the closest community which is Resolute Bay, Nunavut. All historical buildings, drums and major debris have been buried or removed from the site. Some building footprints, roadways and trails are visible.

3 Loughheed Island

Loughheed Island is located about 430 km northwest of Resolute Bay, Nunavut, which is the closest community. The main site, consisted of a Hercules airstrip, a fuel and material storage area, and a suspected camp. Currently there are two drum caches, burn pits, and scattered metal and wood debris. Petroleum Hydrocarbon (PHC) stains and odours were also noted in the area.

4 Dale Payne

Dale Payne is located on the west side of Loughheed Island, about 410 km west northwest of the closest community which is Resolute Bay, Nunavut. The site currently consists of sleigh mounted

structures, sleigh mounted fuel tanks, two small track mounted machines, scattered drums and scattered debris.

5 Thor Island

Thor Island, is located about 440 km northwest of the closest community which is Resolute Bay, Nunavut. The Thor Island site currently consists of three airstrips, two well markers, two suspected well sumps, a burn pit, disturbed ground, trails and a minor amount of debris.

6 Romulus

Romulus is located on the west side of Ellesmere Island with the nearest community being Grise Fiord, Nunavut, which is approximately 400 km south. Any historical buildings and most major debris have been removed from the site. There is currently a moderate amount of metal, wood, rubber, and plastic debris scattered throughout the site. The well head, trails and areas of disturbed ground that are suspected to be the locations of historic sumps, drill rig infrastructure and a camp area are present at the site.

9. **SCHEDULE** – Applicants are advised that approvals without a licence are issued for a one year term.

Proposed Start Date: 01/07/2015 Proposed Completion Date: 30/09/2015
(Day/Month/Year) (Day/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 is less than 5 metres wide at the ordinary high water mark at the point of training.

☐ 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 training of a watercourse that involves removal or placement of less than 100 m³ of material.

- ☐ 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
use of water less than 50 m ³ per day.	Seasonal stream	1 cubic metre/day	During camp usage

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 12, 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
For any Other type of undertaking not listed above, other than Municipal, any deposit of sewage to a sump.	Estimated 1 cubic meters/day	-Blackwater will not be deposited on site as Storburn/Pacto toilets will be used - Grease trap will be installed in the kitchen - lime will be added prior to backfilling at end of camp	During camp operation times

14. SIGNATURE

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

X Yes

☐ No

OR

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

X 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.

X Yes

☐ No

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

X 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 10.

X 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 12.

X 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.

X 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.

X 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.

X 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.

X 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:
- maintain accurate and detailed books and records of:
 - the quantity of water, in cubic metres, used each day,
 - the quantity, in cubic metres, of waste deposited each day,
 - the type of waste deposited each day,
 - where the waste is deposited,
 - the concentration of the substance, or substances, in the deposited solid or liquid that has the effect of making the deposit waste,
 - the methodology used to calculate or determine the information referred to in items (i) to (iv), and
 - the measures that were taken to avoid or mitigate any adverse impacts of the deposit of waste.
 - 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;
 - 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
 - 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.

X 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.

X 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.

X Yes

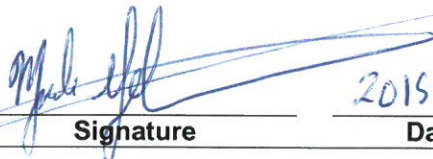
☐ No

Mark Yetman

Name (Print)

Senior Project Advisor

Title (Print)



Signature

2015-06-03

Date