

# Inukshuk CONSTRUCTION

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ဤ၏ 18, 2013

Phyllis Beaulieu  
P.O. Box 119  
Gjoa Haven,  
X0B 1J0

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Mark Jossies

ଲେ କ୍ରେଟାର୍ ଏତ୍କାର୍, Marc Losier, G.S.C.  
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Inukshuk Construction Limited

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December 18, 2013

Phyllis Beaulieu  
Manager of Licensing  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven,  
X0B 1J0

**Re: Baker Lake Tank Farm Application for Water Use Waste  
Disposal Without License**

Dear Ms. Beaulieu:

We have been awarded a contract by the Nunavut Department of Community and Government Services to Increase the Tank Farm Capacity and Code Compliance in Baker Lake Nunavut.

Part of the contract consists of constructing a new 3400cum Diesel Fuel storage tank which will require to be hydrostatically tested. We are submitting the attached Application for the Use of Water or Deposit of Waste Without a License.

Please review and if you have any questions, do not hesitate to contact me at your convenience.

Yours truly,



Marc Losier, G.S.C.  
Project Manager  
Inukshuk Construction Limited



P.O. Box 119  
GJOA HAVEN, NU X0B 1J0  
TEL: (867) 360-6338  
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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.

<b>APPLICATION NO:</b> (for NWB use only)		
<b>1. APPLICANT CONTACT INFORMATION</b> (name, address) Inukshuk Construction, PO Box 654, Rankin Inlet Nunavut, X0G 0G0  Phone: <u>(902) 429-0272</u> Fax: <u>(902) 429-7762</u> e-mail: <u>marc@mosher.ca</u>	<b>2. APPLICANT REPRESENTATIVE CONTACT INFORMATION</b> if different from Block 1 (name, address)  Phone: _____ Fax: _____ e-mail: _____ (Attach authorization letter)	
<b>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</b>  <ul style="list-style-type: none"><li>GN owns the tank farm.</li><li>Tank farm is on Commissioner's Land and is on the Government Exempt List.</li></ul>		
<b>4. NAME OF PROJECT</b> (consistent with the name of the project issued by other regulatory agencies) Petroleum System Upgrades, Baker Lake, Nunavut		
<b>5. LOCATION OF UNDERTAKING</b>		
<b>Project Extents (decimal degree format)</b>		
NW	<u>64°18'53.16"N</u>	<u>95°59'44.79"W</u>
NE	<u>64°18'53.14"N</u>	<u>95°59'34.87"W</u>
SE	<u>64°18'54.90"N</u>	<u>95°59'34.28"W</u>
SW	<u>64°18'55.43"N</u>	<u>95°59'42.96"W</u>

**Camp Location(s) (decimal degree format)**

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

## 15. Wager Bay Watershed

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

- Industrial
- Mining
- Conservation
- Municipal

- Agricultural
- Recreational
- Power
- Other: (describe)

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

**7. 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.

**We are contracted to construct and hydrostatically test a new fuel storage tank.** The tank will be 24.2m diam x 7.4m high. The total capacity is 3200cum. We will fill the tank with fresh water using a pump and the newly built marine pipeline from Baker Lake. The water will be disposed by pouring the water in a 45 gal drum cut in half, full of holes and hydrophobic pads. This will act as a filter for the water. See attached appendix A for photos and drawing.

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

Proposed Start Date: 07/14 (Month/Year)      Proposed Completion Date: 10/14 (Month/Year)

**9. 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 training of a watercourse that involves removal or placement of less than 100 m<sup>3</sup> 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 3,400 m<sup>3</sup> or less.
- For an undertaking other than a Power undertaking and for any use of water less than 50 m<sup>3</sup> per day.

**10. QUANTITY AND QUALITY OF WATER INVOLVED** - For each type of water use indicated in Block 9, 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 9	Name of water source	Estimated quantity of water to be used in cubic metres per day	Periods during which water will be extracted
Fresh Water	See photos appendix A	3400	2 day

**11. 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 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.

**12. 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 11	Quantity to be deposited in cubic metres per day	Measures to avoid or mitigate any adverse impacts	Periods during which waste will be deposited
Hydrostatic test water	3400	The water will be disposed by pouring the water in a 45 gal drum cut in half, full of holes and hydrophobic pads.	24hrs

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**13. SIGNATURE**

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

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.

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.<sup>a</sup>
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; 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

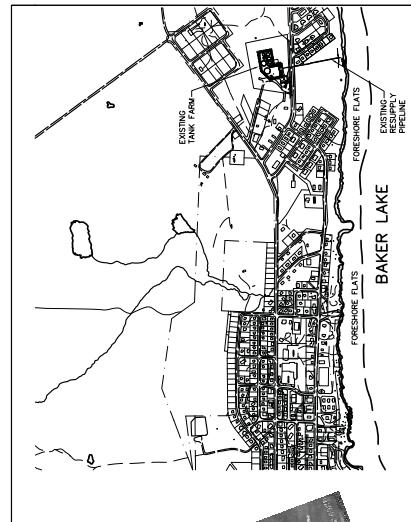
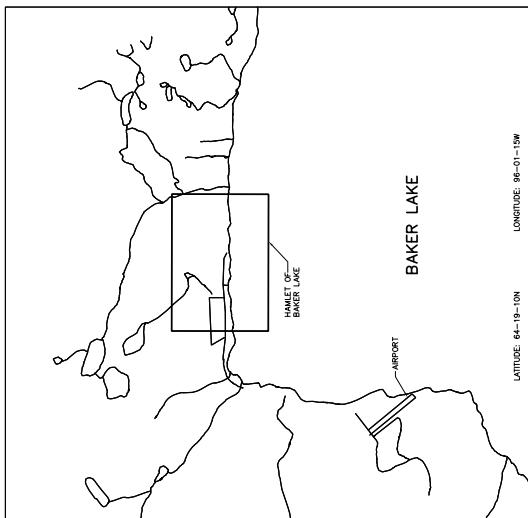
I understand that if I have answered "No" to any of the above statements a water licence is required from the Nunavut Water Board prior to the use of water or deposit of waste.

Yes

No

<b>Marc Losier</b> Name (Print)	<b>Project Manager</b> Title (Print)	<i>Marc Losier</i> Signature	Dec 18, 13 Date
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## Appendix A – Arial Photo and Drawings



## KEYNOTES:

- 1 COVER EXPOSED LINER SOUTH OF TANK # 1 WITH MIN 80MM SAND AND 150MM FINE GRAVEL - SEE PPD STD DWG NT-501, PROFILE 1.
- 2 ADD "NO SMOKING" AND "NO ADMITTANCE" SIGNS - SEE SPECIFICATIONS, SECTION 02531
- 3 ADD "TANK FULL HEIGHT" SIGN TO MATCH OTHER EXISTING TANKS, ADD KICKPLATES ON ROOF HANDRAILS - TANK #6, ADD KICKPLATES TO TANK #5.
- 4 MAINTENANCE OF FOUNDATION ADJACENT TO TANK BASE TO PROVIDE DRAIGUE AWAY FROM TANK BASE AS NEEDED TO PROVIDE SLOPE AWAY FROM TANK - SEE DETAIL C, DWG G3 FOR TANK PAD SLOPE.
- 5 EXISTING BERM - NO BERM EXPANSION IS INCLUDED IN THE WORK OF THIS PROJECT.
- 6 CONVERT TANK FROM DIESEL TO GASOLINE - SEE MECHANICAL DRAWINGS
- 7 NEW 440m³ DIESEL TANK - SEE MECHANICAL AND STRUCTURAL DRAWINGS
- 8 NEW INSPIRE BULDING - SEE QP DWG. NEW BUILDING TO BE INSTALLED AT SAME LOCATION AS EXISTING, DEMOLISH EXISTING BUILDING.
- 9 NEW CONCRETE PAD - SEE DWG S-QP-01, DETAIL 4
- 10 RECOAT HORIZONTAL TANK (TANK #1) USING SPECIFIED LEAD-ENCAPSULATING PAINT SYSTEM - SEE SPECS SECTION 09900.
- 11 NEW WINDOW AND FLOORING IN OPERATOR'S SHELTER - SEE DWG A-3B-01
- 12 INCREASE SIZE OF DIESEL PIPING - SEE MECHANICAL DWGS
- 13 RECOAT PIPELINES - SEE SPECS SECTION 09900.
- 14 SPOT COATING OF VERTICAL TANKS AS REQUIRED - SEE SPECS SECTION 09900.
- 15 UPGRADE OPERATOR'S SHELTER CONSOLE - SEE ELECTRICAL DWGS
- 16 PAINT NEW TANK IDENTIFICATION - SEE SPECS SECTION 09900, PARAGRAPH 3.4.
- 17 ATTACH PERMANENT OUTDOOR-QALITY LABELS TO EXISTING DISPENSERS TO DISPLAY IDENTIFICATION NUMBERS AS NOTED IN PLAN.
- 18 PROVIDE SUPPORTS FOR NEW ELECTRICAL CONDUIT TO TANK #4, MAX SPACING 3m - SEE PPD STANDARD DWG NT-S27

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WILLIAMS  
ENGINEERING  
Consultants  
WE

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FUEL STORAGE FACILITY  
UPGRADE / EXPANSION

The diagram illustrates the site layout. It features a rectangular area labeled 'EXISTING POWER POLE' with a circle icon. Two 'EXISTING LIGHT POLES' are marked with crossed circle icons, one on the left and one on the right. A vertical line labeled 'SITE LAYOUT' extends upwards from the center of the site area. A horizontal line labeled 'NORTH' is positioned at the top of the site area. A scale bar at the bottom indicates distances of 0, 10, and 20 meters.

SITTE I AVANT

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ROAD

Site plan of a fuel storage facility showing the layout of tanks and piping. The facility includes:

- EXISTING TANK #7:** Diesel, VOL = 2043 m<sup>3</sup>, Ø = 12.38 m, H = 7.38 m.
- EXISTING TANK #6:** Diesel, VOL = 3000 m<sup>3</sup>, Ø = 12.62 m, H = 7.62 m.
- EXISTING TANK #2:** Diesel, VOL = 1044 m<sup>3</sup>, Ø = 7.44 m, H = 7.44 m.
- EXISTING TANK #3:** Diesel, VOL = 941 m<sup>3</sup>, Ø = 7.2 m, H = 7.2 m.
- TO BE COVERED TANK #4:** Diesel, VOL = 1044 m<sup>3</sup>, Ø = 7.44 m, H = 7.44 m.
- NEW TANK #9:** Diesel, VOL = 3100 m<sup>3</sup>, Ø = 12.4 m, H = 7.4 m.
- SCOUR TANK:** Ø = 9.45 m x 3.3 m, VOL = 92 m<sup>3</sup>.
- ACCESS RAMP:** Provides access to the tanks.
- RESUPPLY PIPELINES:** Supply gas and diesel from an external source.
- DISPENSER DISTRIBUTION:** Includes four dispensers (DSP-1, DSP-2, DSP-3, DSP-4) and an operator's shelter.
- ROAD:** A dashed line representing the road boundary.

CONSTRUCTION NORTH