



Land Administration  
P.O. Box 100  
IQALUIT, NU X0A 0H0  
Phone: 867-975-4275  
FAX: 867-975-4286

July 12, 2013

5140 Nunavut Ltd. O/A Qillaq Innovations  
P.O. Box 33  
Cambridge Bay, NU  
X0B 0C0

Dear Sandi Gillis:

**Re: Land Use Permit #N2013Q0010**  
**Type of Operation: Quarrying**  
**Location: Cambridge Bay, Kitikmeot, NU, NTS 77D**

Enclosed is your copy of Land Use permit number N2013Q0010 authorizing your project as described in your application dated May 6<sup>th</sup>, 2013, received by this office May 7<sup>th</sup>, 2013.

Your application has received a wide distribution to other Federal departments, Government of the Nunavut departments, communities in the area of your operation and concerned Inuit groups. In distributing your application the Nunavut Impact Review Board (NIRB) sought comments from these various agencies based on their area of expertise that will help ensure minimum negative impact on the environment. The issuance of this permit indicates that as a result of the NIRB environmental screening process it was decided that the potentially adverse environmental effects that may be caused by your proposal are mitigable with known technology and are not significant. The terms and conditions in the permit will, in our opinion, provide the necessary protection to the environment.

Please ensure that you adhere to the operating conditions, along with the Archaeological Palaeontological terms and conditions, annexed to your permit. Should you have any questions regarding any conditions of this permit, please contact me at (867) 975-4283 or email [landsmine@inac.gc.ca](mailto:landsmine@inac.gc.ca).

Sincerely,

Tracey McCaie  
Land Administrator Specialist

cc: Manager, Field Operations  
RMO - Kitikmeot  
NIRB

CIDM: 705578

Canada

## Species At Risk in Nunavut

This list includes species listed on one of the Schedules of SARA (*Species at Risk Act*) and under consideration for listing on Schedule 1 of SARA. These species have been designated as at risk by COSEWIC (Committee on the Status of Endangered Wildlife in Canada). This list may not include all species identified as at risk by the Territorial Government.

- a) Schedule 1 is the official legal list of Species at Risk for SARA. SARA applies to all species on Schedule 1. The term "listed" species refers to species on Schedule 1.
- (b) Schedule 2 and 3 of SARA identify species that were designated at risk by the COSEWIC prior to October 1999 and must be reassessed using revised criteria before they can be considered for addition to Schedule 1.
- (c) Some species identified at risk by COSEWIC are "pending" addition to Schedule 1 of SARA. These species are under consideration for addition to Schedule 1, subject to further consultation or assessment.

Schedules of SARA are amended on a regular basis so it is important to periodically check the SARA registry ([www.sararegistry.gc.ca](http://www.sararegistry.gc.ca)) to get the current status of a species.

Terrestrial Species at Risk	COSEWIC Designation	Schedule of SARA	Government Organization with Lead Management Responsibility
Eskimo Curlew	Endangered	Schedule 1	EC
Ivory Gull	Endangered	Schedule 1	EC
Ross's Gull	Threatened	Schedule 1	EC
Harlequin Duck (Eastern population)	Special Concern	Schedule 1	EC
Rusty Blackbird	Special Concern	Schedule 1	Government of Nunavut
Felt-leaf Willow	Special Concern	Schedule 1	Government of Nunavut
Peregrine Falcon	Special Concern ( <i>anatum-tundrius</i> complex)	Schedule 1 ( <i>anatum</i> ) Schedule 3 ( <i>tundrius</i> )	Government of Nunavut
Short-eared Owl	Special Concern	Schedule 3	Government of Nunavut
Peary Caribou	Endangered	Schedule 1	Government of Nunavut
Barren-ground Caribou (Dolphin and Union population)	Special Concern	Schedule 1	Government of Nunavut
Polar Bear	Special Concern	Schedule 1	Government of Nunavut
Red Knot ( <i>rufa</i> subspecies)	Endangered	Pending	EC
Red Knot ( <i>islandica</i> subspecies)	Special Concern	Pending	EC
Porsild's Bryum	Threatened	Pending	GN
Horned Grebe (Western Population)	Special Concern	Pending	EC
Grizzly Bear	Special Concern	Pending	Government of Nunavut
Wolverine (Western Population)	Special Concern	Pending	Government of Nunavut
Atlantic Cod, Arctic Lakes	Special Concern	No Schedule	DFO
Atlantic Walrus	Special Concern	Pending	DFO
Beluga Whale (Cumberland Sound population)	Threatened	Pending	DFO
Beluga Whale (Eastern Hudson Bay population)	Endangered	Pending	DFO

Beluga Whale (Western Hudson Bay population)	Special Concern	Pending	DFO
Beluga Whale (Eastern High Arctic – Baffin Bay population)	Special Concern	Pending	DFO
Bowhead Whale (Eastern Canada – West Greenland population)	Special Concern	Pending	DFO
Killer Whale (Northwest Atlantic / Eastern Arctic populations)	Special Concern	Pending	DFO
Narwhal	Special Concern	Pending	DFO

Updated: January 2012





Aboriginal Affairs and  
Northern Development Canada

Affaires autochtones et  
Développement du Nord Canada

**LAND USE PERMIT**  
NORTHERN AFFAIRS PROGRAM

**PERMIS D'UTILISATION DES TERRES**  
PROGRAMME DES AFFAIRES DU NORD

Permit Class - Permis Catégorie

**A**

Permit No - NE de permis

**N2013Q0010**

Subject to the Territorial Land Use Regulations and the terms and conditions in this permit, authority is hereby granted to:

Sous réserve du Règlement sur l'utilisation des terres territoriales et des conditions de ce permis:

**5140 Nunavut Ltd. O/A Qillaq Innovations**

Permittee - Détenteur de permis

To proceed with the land use operation described in the application of:

Est autorisé à entreprendre les travaux d'exploitation des terres décrits dans la demande de permis du:

Signature

**Sandi Gillis**

Date

**July 12th, 2013**

Type of Land Use Operation - Genre de travaux d'exploitation des terres

**Quarrying**

Location - Emplacement

**Cambridge Bay, Kitikmeot, NU, NTS 77D**

The conditions attached to this permit are incorporated into and form an integral part of the permit.

Les conditions attachées à ce permis en font partie intégrante.

This permit may be assigned, extended, discontinued, suspended or cancelled pursuant to the Territorial Land Use Regulations.

Ce permis peut faire l'objet d'une cession, d'une prolongation d'une cessation d'une suspension ou d'une annulation, en vertu du Règlement sur l'utilisation des terres territoriales.

Dated at

Date à **Iqaluit**

Engineer

Ingénieur

This

Ce **12th** Day of **July**, **2013** jour de

Commencement Date

Date du début des travaux **July 12th, 2013**

Expiry Date

Date d'achèvement **July 11th, 2015**

**NOTE**

IT IS A CONDITION OF THIS PERMIT THAT THE PERMITTEE COMPLY WITH ANY OTHER APPLICABLE ACT, REGULATION, ORDINANCE BY - LAW OR ORDER DEFAULT HEREOF MAY RESULT IN SUSPENSION OR CANCELLATION OF THIS PERMIT.

**REMARQUE**

LE DÉTENTEUR DU PRÉSENT PERMIS DOIT SE CONFORMER À TOUT AUTRE RÈGLEMENT, LOI, DÉCRET RÈGLEMENT MUNICIPAL OU ARRÊTÉ APPLICABLE. LE MANQUEMENT À CETTE OBLIGATION POURRAIT DONNER LIEU À LA SUSPENSION OU À L'ANNULATION DU PERMIS.

**CONDITIONS ANNEXED TO AND FORMING PART  
OF LAND USE PERMIT NUMBER N2013Q0010**

**31 (1) (a) - Location and Area**

1	The Permittee shall not conduct this land use operation on any lands not designated in the accepted application, unless otherwise authorized in writing by the Engineer.	PLANS
2	The Permittee shall remove from Territorial Lands, all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material.	REMOVE WASTE MATERIAL
3	The Permittee shall locate screening and crushing equipment on stable ground, at a location with ready access to stockpiles.	EQUIPMENT LOCATION
4	The Permittee shall provide updated locations of all borrow areas related to this project in Latitude and Longitude from a GPS within 30 days of the establishment to the Inspector and Engineer.	UPDATE LOCATIONS

**31 (1) (b) - Time**

5	The Permittee's Field Supervisor shall contact or meet with a Land Use Inspector at the Iqaluit office of the Aboriginal Affairs and Northern Development Canada, phone number (867)-975-4296, at least 48 hours prior to the commencement of this land use operation.	CONTACT INSPECTOR
6	The Permittee's Field Supervisor shall provide notification of commencement of the land use operation to the Engineer at the Iqaluit office of the Department of Aboriginal Affairs and Northern Development Canada either by emailing <a href="mailto:landsmining@aandc.gc.ca">landsmining@aandc.gc.ca</a> or by telephone at (867)975-4283.	NOTICE TO ENGINEER
7	The Permittee shall submit a progress report to the Engineer every year during this land use operation.	PROGRESS
8	<p>The Permittee shall advise a Land Use Inspector at least 10 days prior to the completion of the land use operation of ;</p> <p>a) the plan for removal or storage of equipment and materials, and</p> <p>b) when final clean-up and restoration of the lands used will be completed.</p>	REPORTS BEFORE REMOVAL
9	The Permittee shall complete all clean-up and restoration of the lands used prior to the expiry date of this permit.	CLEAN-UP
10	The Engineer reserves the right to impose closure to any area to the Permittee in periods when dangers to natural resources are severe.	CLOSURE



**31 (1) (c) - Equipment**

11	The Permittee shall not use any equipment except of the type, size and number that is listed in the accepted application, unless otherwise authorized in writing by the Land Use Inspector.	ONLY APPROVED EQUIPMENT
12	The Permittee shall keep all garbage and debris in a covered metal container until disposed of. Garbage should be stored in such a manner as to prevent access by wildlife.	GARBAGE CONTAINERS

**31 (1) (d) - Methods and Techniques**

13	The Permittee shall slope the sides of excavations and embankments except in solid rock to a horizontal/vertical ratio of 2:1 unless otherwise authorized in writing by the Land Use Inspector.	EXCAVATIONS AND EMBANKMENTS
14	The Permittee shall use water or other non-toxic and biodegradable additives for dust suppression as necessary to maintain ambient air quality without causing water to pool or run off.	DUST SUPPRESSION
15	The Permittee shall not remove any material from below the ordinary high water mark of any lake or stream.	MATERIAL REMOVAL

**31 (1) (e) - Type, Location, Capacity and Operation of Facilities**

16	The Permittee shall maintain an undisturbed buffer zone of at least one-hundred (100) meters between the quarry site and any high water mark of any water body.	QUARRY LOCATION
17	The Permittee shall clearly stake and flag pit and quarry boundaries so they remain visible to other land users.	FLAG QUARRY PITS
18	The Permittee shall not remove earth to a depth of more than 2 metres below the natural contour.	QUARRY DEPTH
19	The Permittee shall ensure that the land use area is kept clean and tidy at all times.	CLEAN WORK AREA

**31 (1) (f) - Control or Prevention of Flooding, Erosion and Subsidence of Land**

20	The Permittee shall remove any obstruction to natural drainage caused by any part of this land use operation.	NATURAL DRAINAGE
21	The Permittee shall not deposit or permit the deposit of sediment in to any water body.	SEDIMENT IN WATER
22	The Permittee shall not cut any stream bank unless authorized in writing by a Land Use Inspector.	STREAM BANKS

23	The Permittee shall not ford wet streams unless authorized in writing by a Land Use Inspector.	NO FORDING OF STREAMS
24	The Permittee shall construct dykes and diversion ditches as required in writing by a Land Use Inspector.	DYKES/ DIVERSION
25	The Permittee shall not construct interceptor or off-shoot drainage ditches unless approved in writing by the Land Use Inspector.	DITCHES
26	The Permittee shall install erosion control structures on disturbed areas as the land use operation progresses unless otherwise authorized by a Land Use Inspector.	EROSION CONTROL
27	The Permittee shall prepare the site in such a manner as to prevent rutting of the ground surface.	PREVENTION OF RUTTING
28	The Permittee shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.	VEHICLE MOVEMENT FREEZE-UP
29	The Permittee shall suspend overland travel of equipment or vehicles if rutting occurs.	SUSPEND OVERLAND TRAVEL

**31 (1) (g) - Use, Storage, Handling and Disposal of Chemical or Toxic Material**

30	The Permittee shall not use chemicals in connection with the land use operation without the prior approval of the Engineer.	APPROVAL OF CHEMICALS
31	The Permittee shall remove all garbage and debris from the area of the land use operation to a disposal site approved in writing by a Land Use Inspector.	REMOVE GARBAGE
32	The Permittee shall dispose of all combustible waste petroleum products by removal.	WASTE PETROLEUM DISPOSAL
33	The Permittee shall remove and treat hydrocarbon contaminated soils on site or transport them to an approved disposal site for treatment.	HYDROCARBON CONTAMINATED SOIL
34	The Permittee shall ensure that appropriate spill response equipment and clean-up materials (e.g. shovels, pumps, barrels, drip pans, and absorbents) must be readily available during any transfer of fuel or hazardous substances.	SPILL RESPONSE KIT
35	The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752(05/93). Twenty four (24) hour spill report line (867)920-8130.	REPORT CHEMICAL AND PETROLEUM SPILLS



**31 (1) (h) - Wildlife and Fisheries Habitat**

36	The Permittee shall not unnecessarily damage wildlife habitat in conducting this land use operation.	HABITAT DAMAGE
37	The Permittee shall not obstruct the movement of fish while conducting this land use operation.	FREE FISH MOVEMENT
38	The Permittee shall not harass wildlife. This includes persistently worrying, chasing, or disturbing large groups of animals.	HARASSMENT OF WILDLIFE
39	The Permittee not disturb or destroy the nests or eggs of any birds. If nests are encountered and/or identified, the Permittee shall take precaution to avoid further interaction and/or disturbance (e.g. a 100 meter buffer around the nests). If active nests are discovered (i.e. with eggs or young) the Permittee shall avoid these areas until nesting is complete and the young have left the nest.	WILDLIFE SENSITIVITY
40	The Permittee shall cease activities that may interfere with migration or calving of caribou or muskox, until the caribou or muskox have passed or left the area.	WILDLIFE SENSITIVITY
41	During the period of May 15 to July 15 when caribou are observed within 1 km of project operations, the Permittee shall suspend all operations, including the movement of equipment or personnel. Following July 15, if caribou cows or calves are observed within 1 km of project operations, the Proponent shall also suspend all operations in the vicinity, including the movement of equipment or personnel, until caribou are no longer in the immediate area.	WILDLIFE SENSITIVITIES
42	The Permittee shall not extract water from any fish-bearing water body unless the water intake hose is equipped with a screen of appropriate mesh size to ensure that there is no entrapment of fish.	MESH SCREEN REQUIRED
43	Your operation is in an area where bears may be encountered. Proper food handling and garbage disposal procedures will lessen the likelihood of bears being attracted to your operation. Information about the latest bear detection and deterrent techniques can be obtained from the Department of Renewable Resources at 867-982-7440.	BEAR/MAN CONFLICT
44	The Permittee shall not feed wildlife.	NO FEEDING WILDLIFE

**31 (1) (k) - Petroleum Fuel Storage**

45	The Permittee shall report in writing to a Land Use Inspector the location and quantity of all petroleum fuel caches within ten (10) days after the establishment.	REPORT FUEL LOCATION
46	The Permittee shall not place any petroleum fuel storage containers within thirty-one (31) metres of the normal high water mark of any stream.	FUEL BY STREAM



47	The Permittee shall not allow petroleum products to spread to surrounding lands or into water bodies.	FUEL CONTAINMENT
48	Appropriate spill response equipment and clean-up materials (e.g. shovels, drip pans, pumps, absorbents) must be readily available during any transfer of fuel or hazardous substances and vehicle maintenance sites.	SPILL RESPONSE

**31 (1) (m) - Matters Not Inconsistent with the Regulations**

49	The Permittee shall not remove any material from below the ordinary high water mark of any stream without first obtaining written permission from a Land Use Inspector.	APPROVAL NEEDED
50	The Permittee shall display a copy of this permit in a conspicuous place in each campsite established to carry out this land use operation.	DISPLAY PERMIT
51	The Permittee shall keep on hand, at all times during this land use operation, a copy of the Land Use Permit.	COPY OF PERMIT
52	<p>The Permittee shall provide in writing to the Engineer, at least forty-eight (48) hours prior to commencement of this land use operation, the following information:</p> <ul style="list-style-type: none"> <li>a) person, or persons, in charge of the field operation to whom notices, orders, and reports may be served;</li> <li>b) alternates;</li> <li>c) all the indirect methods for contacting the above person(s).</li> </ul>	IDENTIFY AGENT
53	The Permittee shall conspicuously display the land use permit number on all vehicles and equipment.	DISPLAY PERMIT NUMBER
54	The Permittee shall restore any trails used by trappers or hunters along access routes by slashing any and all trees that may fall across these paths or trails and by removing any other obstructions such as snow piles or debris that may be pushed across the trails.	TRAILS RESTORATION
55	<ul style="list-style-type: none"> <li>a) During migration of caribou, the Permittee shall not locate any operation so as to block or cause substantial diversion of migration.</li> <li>b) The Permittee shall cease activities that may interfere with migration, such as airborne geophysics surveys or movement of equipment, until the migrating caribou have passed</li> </ul>	CARIBOU PROTECTION MIGRATION
56	The Permittee shall abide by and comply with all applicable lawful rules, acts, regulations, and by-laws of Canada, Nunavut, any Municipal or regulatory body or authority having jurisdiction, the Nunavut Land Claim Agreement, and all other agreements, permits, licenses, and other instruments whatsoever related to the project.	ADHERENCE TO LAWFUL RULES, ACTS, REGS & BYLAWS

# **ARCHAEOLOGICAL & PALEONTOLOGICAL TERMS AND CONDITIONS**

57

“archaeological site” means a place where an archaeological artifact is found.

DEFINITIONS

“archaeological artifact” means any tangible evidence of human activity that is more than 50 years old and in respect of which an unbroken chain of possession or regular pattern of usage cannot be demonstrated, and includes a Denesuline archaeological specimen referred to in section 40.4.9 of the Nunavut Land Claims Agreement.

“paleontological site” means a site where a fossil is found.

“fossil” includes:

- (a) natural casts
- (b) preserved tracks, coprolites and plant remains; and
- (c) the preserved shells and exoskeletons of invertebrates and the eggs, teeth and bones of vertebrates.

58

The Permittee shall avoid any known or suspected archaeological and/or paleontological sites.

AVOIDANCE OF  
ARCHAEOLOGICAL  
AND/OR  
PALEONTOLOGICAL  
SITES

59

The Permittee shall not remove, disturb, or displace any archaeological artifact or site, or any paleontological site or fossil.

DISTURBANCE OF  
ARCHAEOLOGICAL  
AND/OR  
PALEONTOLOGICAL  
SITE

60

The Permittee shall immediately cease any activity should a suspected archaeological, paleontological, or burial site be discovered during the course of a land use operation. The Permittee is required to immediately contact the Land Administration division at Indian and Northern Affairs Canada at (867)975-4283 or (867)975-4285 or (867)975-4280 as well as the Department of Culture, Language, Elders and Youth at (867)934-2046 or (867)975-5500 or 1(866)934-2035.

CEASE OPERATION  
OF LAND USE  
ACTIVITY

Permission to resume land use operations must be obtained from the Engineer. At such time the Engineer may, at his/her discretion, require that you have an archaeologist or palaeontologist perform the following functions:

- (a) Survey
- (b) Inventory and documentation of the archaeological or paleontological resources of the land use area
- (c) Assessment of potential for damage to archaeological or paleontological sites
- (d) Mitigation
- (e) Marking boundaries of archaeological or paleontological sites
- (f) Site restoration

61	The Permittee shall ensure that all persons working under the authority of the permit are aware of these conditions pertaining to archaeological sites and artifacts as well as paleontological sites and fossils.	KNOWLEDGE OF ARCHAEOLOGICAL AND PALEONTOLOGICAL TERMS AND CONDITIONS
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TERRITORIAL QUARRYING REGULATIONS

QUARRYING PERMIT NO. 2013QP0089

Permit issued under Section 12(1) of Territorial Quarrying Regulations.

5140 Nunavut Ltd O/A Qillaq Innovations

of PO Box 33, Cambridge Bay, NU, is hereby authorized to take 60 cubic meters of sand and 15,000 cubic meters of gravel from the lands described as follows: From one (1) Borrow area 1A, Cambridge Bay, Kitikmeot, NU, NTS 77D.

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SUBJECT TO THE FOLLOWING CONDITIONS:

1. This permit expires twelve months from the date of issue or when the authorized quantity of material has been quarried or removed, whichever is the sooner.
2. This permit does not grant to the Permittee any exclusive right or leasehold interest in the land described herein.
3. This permit shall not be assigned.
4. All quarrying under this permit shall be carried out in accordance with the Nunavut Mining Safety Ordinance.
5. This permit is subject to the provisions of the Territorial Quarrying Regulations and the conditions set out herein. Failure to comply with the provisions of the Regulations and the conditions prescribed in this permit may result in cancellation of the permit in accordance with Section 12(5) of the Territorial Quarrying Regulations without prior notice to the Permittee.
6. The Permittee will identify the work area to the satisfaction of the Land Use Inspector prior to the removal of any material and any change in location will require prior approval of the Land Use Inspector.
7. The Permittee will not work any area worked by any other Permittee except as co-ordinated by the Land Use Inspector.
8. No material is to be removed from any land protected by a registered mineral claim, without the Permittee obtaining prior permission of the registered owner(s).
9. Prior to the tenth day of each month, the Permittee shall submit a report to the Land Use Inspector at Iqaluit, Nunavut, indicating the quantity of material quarried and the quantity of material removed from the site.
10. Upon expiration of this Permit, as prescribed in Condition One, the Permittee shall level the excavation and restore the lands to the satisfaction of the Land Use Inspector within 30 days of said expiration date or as may be authorized by the Land Use Inspector.
11. Land Use Permit LUP # N2013Q0010 and its operating conditions will apply.

Issued at Iqaluit, this 12<sup>th</sup> day of July, 2013.

Land Agent



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TERRITORIAL QUARRYING REGULATIONS

QUARRYING PERMIT NO. 2013QP0090

Permit issued under Section 12(1) of Territorial Quarrying Regulations.

5140 Nunavut Ltd O/A Qillaq Innovations

of PO Box 33, Cambridge Bay, NU, is hereby authorized to take 10,480 cubic meters of sand and 9,000 cubic meters of other materials from the lands described as follows: From one (1) Borrow area 1B, Cambridge Bay, Kitikmeot, NU, NTS 77D.

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SUBJECT TO THE FOLLOWING CONDITIONS:

1. This permit expires twelve months from the date of issue or when the authorized quantity of material has been quarried or removed, whichever is the sooner.
2. This permit does not grant to the Permittee any exclusive right or leasehold interest in the land described herein.
3. This permit shall not be assigned.
4. All quarrying under this permit shall be carried out in accordance with the Nunavut Mining Safety Ordinance.
5. This permit is subject to the provisions of the Territorial Quarrying Regulations and the conditions set out herein. Failure to comply with the provisions of the Regulations and the conditions prescribed in this permit may result in cancellation of the permit in accordance with Section 12(5) of the Territorial Quarrying Regulations without prior notice to the Permittee.
6. The Permittee will identify the work area to the satisfaction of the Land Use Inspector prior to the removal of any material and any change in location will require prior approval of the Land Use Inspector.
7. The Permittee will not work any area worked by any other Permittee except as co-ordinated by the Land Use Inspector.
8. No material is to be removed from any land protected by a registered mineral claim, without the Permittee obtaining prior permission of the registered owner(s).
9. Prior to the tenth day of each month, the Permittee shall submit a report to the Land Use Inspector at Iqaluit, Nunavut, indicating the quantity of material quarried and the quantity of material removed from the site.
10. Upon expiration of this Permit, as prescribed in Condition One, the Permittee shall level the excavation and restore the lands to the satisfaction of the Land Use Inspector within 30 days of said expiration date or as may be authorized by the Land Use Inspector.
11. Land Use Permit LUP # N2013Q0010 and its operating conditions will apply.

Issued at Iqaluit, this 12<sup>th</sup> day of July, 2013.

Land Agent