

APPLICATION FOR LAND USE PERMIT

Affaires indiennes
et du Nord Canada

Indian and Northern
Affairs Canada



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Application Fee	Land Use Fee	General Receipt No.	Date (YYYYMMDD)	Class
				Permit Number

To be completed by all applicants ☒ New Application ☐ Amendment

1. Applicant's Name and Mailing Address (Full name, no initials)			
Facsimile Number	867 975-4645	Telephone Number	867 975-4641
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2. Head Office Address			
Environment Canada			
Qimugjuk Building 969			
PO Box 1714, Iqaluit, NU X0A 1H0			
Field Supervisor	Mark Mallory	Radio Telephone	
E-Mail Address	mark.mallory@acadiau.ca	Telephone Number	902 585-1798

3. Other Personnel (Subcontractor, Contractors, Company Staff, etc.)

Shanti Davis, Memorial University
Mark Mattei, Memorial University
1 Inuit field research assistant (TBD)

Total 3

4. Qualifications
Refer to Section 21 of the *Territorial Land Use Regulations*
☐ a(i) ☐ a(iii) ☐ a(III) ☐ b ☒ c
Number(s) exploration permit mineral claims (if applicable)

5. a) Summary of Operation (Describe purpose, nature and location of all activities.)
Refer to Section 22(2)(b) of the *Territorial Land Use Regulations* (Use last page of form if necessary.)
This is a scientific research camp for the study of arctic seabirds. We will be observing, measuring and banding various marine birds nesting on this unnamed island. This island is currently set aside as a reserve for this research camp under number 68H/16-1-2. See attached map for specific location of unnamed island and field camp location.

b) Please indicate if a camp is to be set up (Use last page to provide details.)
Facilities consist of one sleeping cabin (3m x 4m), and one kitchen/storage cabin (same size), a temporary Weatherhaven storage tent and an outhouse. Cabins are located at 75°49'21" N, 96°19'17" W.

6. Summary of potential environmental and resource impacts
(Describe the effects of the proposed program on land, water, flora and fauna and related socio-economic areas.)
(Use separate pages if necessary.)

There are no anticipated impacts on the land, flora or fauna at the site, other than localized disturbance to flora as a result of cabin establishment. Due to the isolated nature of the research camp, it is likely to have minimal, if any, socio-economic impact. The cabins will be used for research in the summer but are made available for the local Hunters and Trappers to use at times when we are not conducting research. All empty fuel cans and garbage are taken off-site to Resolute at the end of the field season and disposed of in appropriate facilities.

7. Proposed Restoration Plans (Please use last page if required.)

Upon completion of the Land Use Operation on the properties subject to the conditions established in the Land Use Permit, the following steps and procedures will be followed: 1. Grey water pits at the camp will be back-filled. 2. Garbage will be picked up and flown out by NRCan/Polar Continental Shelf Program (PCSP) as part of their waste haulage agreement with Resolute Bay 3. All camping materials will be removed from the site 4. Fuel drums will be picked up and flown out by NRCan/PCSP, crushed and shipped south for disposal 5. Each camp site will be inspected to ensure that all garbage has been collected and removed from the area 6. A last inspection will ensure that there is no remaining material at the site and that there is little/no evidence of CWS activity. 8. Other rights, licences or permits related to this permit application (Mineral claims, Yukon timber permits, water licences, etc.) (Please use last page if required.)

A water licence and CWS research permit will also be obtained.

Roads ☒ Is this to be a pioneered road? ☐ Has the route been laid out or ground truthed? *N/A*

9. Proposed Disposal Methods (Please use last page if required.)

a) Garbage	All garbage is removed via Twin Otter at end of field season.
b) Sewage (Sanitary and Grey Water)	10L/day of grey water is disposed of in sump hole.
c) Brush and Trees	N/A
d) Overburden (Organic soils, waste material, etc.)	

10. Equipment (Includes drills, pumps, etc.) (Please use last page if required.)

Type and Number	Size	Proposed Use
11. Fuels	Number of Containers	Capacity of Containers
<input type="checkbox"/> Diesel		
<input checked="" type="checkbox"/> Gasoline	1 drum	205L
<input checked="" type="checkbox"/> Aviation Fuel	4 drums Jet B fuel	205L
<input type="checkbox"/> Propane		
<input type="checkbox"/> Other: Kerosene	1 drum	200L

12. Containment Fuel Spill Contingency Plans (Please attach separate contingency plan if necessary.)

Fuel will be stored at the Tern Island field station on a naturally vegetated free site located a safe distance from buildings and well away (>100m) from water bodies. Fuel stored above ground includes four (4) drums of Jet B fuel, one (1) 200 litre sealed steel kerosene drum and one (1) sealed 205 litre (45 gal.) steel drum of gasoline. Drums will be placed in Insta-berms for secondary containment. See attached spill response plan for further details on our spill contingency plan.

13. Methods of Fuel Transfer (To other tanks, vehicles, etc.)

Fuel is hand-pumped via wobble pump from drums to jerry cans and transported manually for local use.

14. Period of Operation (Includes time to cover all phases of project work applied for, including restoration.)
June 1, 2012-May 30, 2014

15. Period of Permit (Up to two years, with maximum of one year extension.)
2 years
Start Date (2012-06-01) Completion Date (2014-05-30)

16. Location of activities by map co-ordinates (Attach maps and sketches.)

Minimum				Maximum			
Degrees	Minutes	Seconds	Latitude	Degrees	Minutes	Seconds	Longitude
75	48			75	48		

17. Applicant (Print Full Name) Jason Akearok
Signature Jason Akearok
Date 2018-03-30

18. Fees

Class A - \$150.00	Class B - \$150.00	Land Use Fees: Less than or equal to 2 hectares	For each additional hectare over 2 hectares or portion of a hectare	Total application and land use fees
<input type="radio"/>	<input checked="" type="radio"/>	\$50.00	X \$50.00 =	200 - w/1#

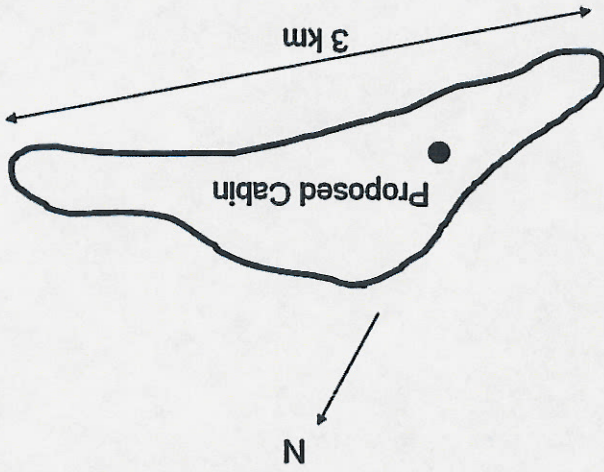
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19. Calculation of area involved (includes access, staging areas, airstrips, campsites, etc.)
Total Area (Ha) Less than or equal to 2 hectares Total (For Fee Calculation)

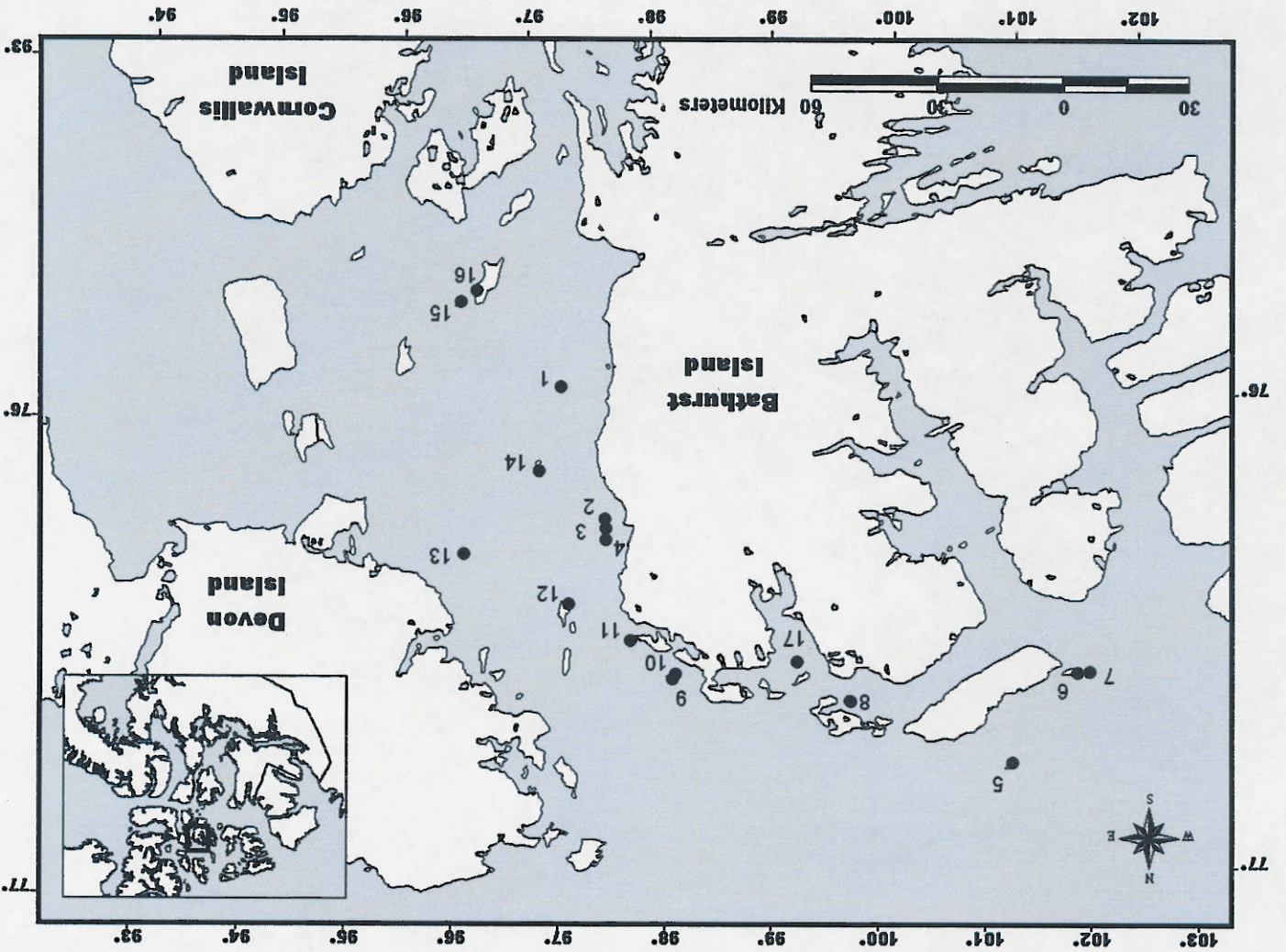
20. Application Checklist

- ☐ a) Application Signed and Dated
☐ b) Fees Attached
☐ c) Map Included
☐ d) Address and Telephone Number
☐ e) Screening Report
☐ f) Timber Permit Applied for - Yukon
☐ g) Fees Attached
☐ h) Lease Applied for

Remarks (Please use last page if additional space is required.)



Island 15 is the proposed location.



Canadian Wildlife Service (Seabirds)
Tern Island, Nunavut
Spill Containment Plan

Spill Containment Plan

The general response to be followed in the event of the spill is:

1. Protect the safety and lives of anyone in the spill area.
2. Isolate or remove any potential sources of ignition (if safe and possible).
3. Locate the product and source of the spill – check container design, warning labels, markings etc., consult MSDS sheet.
4. Stop the flow at the source – reduce or terminate the flow of product without endangering anyone.
5. Assess the seriousness of the spill – evaluate potential dangers of the spill to humans, wildlife, aquatic environment, ground water, vegetation and other land resources.
6. Report the spill – provide information such as location of spill, name of polluter, type and amount of material spilled, date and time of spill and any perceived threat to human health or environment. (Complete a Nunavut Spill Report form)
7. Control access to the area until assistance arrives.
8. Attempt to contain spread of spill, using available equipment and materials.

24-Hour Spill Report Line (867) 920-8130 or fax (867) 920-8127
Environment Canada Duty Officer 1-866-845-6037

Detailed Response Plan

1. On-site person in charge, management or control of contaminants
Primary contact: Siu-Ling Han
Phone: (867-975-4633/field station phone #)
Secondary contact: Mia Pelletier
Phone: (867-975-4636/field station phone#)
2. Name and address of employer of personnel described in part (a)
3. Description of the facility

Canadian Wildlife Service
Environment Canada
P.O. Box 1714, Qimngjuk Building 969, Iqaluit, NU, X0A 0H0
Phone: Moose Quairq (867) 975-4642
Fax: (867) 975-4645

Facility – cabin (living quarters for 4 people) + outhouse. Tents may also be set up during the field season.

Locations – Tern Island is a small island located east of Bathurst Island. Locations of field station facilities on Tern Island are as follows:

1. Cabin - 75°49'21" N, 96°19'17" W
2. Sump - 75°49'23" N, 96°19'17" W (approx. 50 m north of the cabin)

Total estimated freshwater (snow-melt) usage at Tern Island field station: 10 L/day for up to 2 months.

Fuel will be stored at the Tern Island field station on a naturally vegetation free site located a safe distance from buildings and well away (>100m) from water bodies.

Size – Fuel stored above ground includes four (4) drums of Jet B fuel, one (1) 200 litre sealed steel kerosene drum and one (1) sealed 205 litre (45 gal.) steel drum of gasoline. Drums will be placed in Insta-berms (<http://www.spillsupply.com/InstaBermsCon.html>) for secondary containment.

Storage Capacity – The total amount of fuel stored at the monitoring station will be no more than 4 drums of Jet B fuel, 1 drum of gasoline and 1 drum of kerosene.

4. Description of the type and amount of potential contaminants normally stored on-site.

Jet B fuel – no more than 4 drums
Propane for cooking, etc. – One (1) 20 lb. and two (2) 100 lb. tanks

5. Steps to be taken to report, contain, clean up and dispose of a contaminant in the case of a spill:

Preventative Measures/Early Detection

Fuel drums will be monitored for any signs of leakage:

1. Immediately after they arrive on-site,
2. Once they have been transported to the designated storage area, and
3. Regularly after that time

Drums will be stored on their sides, with bungs at 3 and 9 o'clock positions on flat stable terrain to reduce chances of a leak. An Insta-berm will be under the cache to further

mitigate chance of a leak. The contents of any drum that leaks, or shows the potential to leak, will be transferred by wobble pump or similar device to a different drum. With the exception of the container in use, all fuel container outlets will be kept sealed to prevent leakage.

Reporting

1. Identify the product – check container design, warning labels, markings etc.
2. Protect people – prevent personnel from approaching the site and keep them at a distance sufficiently removed that they will not be injured by, or cause, a fire or explosion
3. Stop the flow at the source – reduce or terminate the flow of product without endangering anyone
4. Assess the seriousness of the spill – evaluate potential dangers of the spill to human health and safety, the aquatic environment, wildlife, ground water, vegetation and other land resources
5. Report the spill to the 24-Hour Spill Report Line (867) 920-8130 - provide basic information such as location of spill, direction of motion if any, name of contact on-site, type and amount of material spilled, cause of spill, date and time of the spill and any perceived threat to human health or the environment (complete Spill Report form – attached)
6. Report the spill – to Environment Canada's Duty Officer
Depending on the severity of the spill – report to the other appropriate authorities (i.e. Nunavut Water Board, Department of Fisheries and Oceans, Regional Inuit Association)

Containment

Spill containment techniques include:

1. Earth dams - simple and effective control means for surface and small streams
2. Absorbent materials – include fine sand, soil or snow, sorbent blankets

Clean Up

The most likely spill scenario is the partial loss of fuel from one of the drums. Drums will be checked on arrival at the station, after transfer to the designated storage facility and periodically thereafter. Contents of any leaking drum will be immediately transferred by pump to an empty, leak free drum. It is unlikely that more than one drum will leak at any time. Any spills will be contained, and pumped into empty barrels. One spill kit will be located on-site (including fuel transfer pump, absorbent materials, bung wrench, shovels). Contaminated material will be transported to an approved disposal or recovery site. Shovels will be available to recover and isolate any contaminated material.

Disposal

Organic soils, sands and gravels contaminated by a significant spill of petroleum products will be excavated by hand.

Canadian Wildlife Service (Seabirds) Tern Island, Nunavut Abandonment and Restoration Plan

Upon completion of the Land Use Operation on the properties subject to the conditions established in the Land Use Permit and Water Licence, the following steps and procedures will be followed to allow proper abandonment and reclamation of the area:

1. Grey water pits at the camp will be back-filled.
2. Garbage will be picked up and flown out by NRCan/Polar Continental Shelf Program (PCSP) as part of their waste haulage agreement with Resolute Bay
3. All camping materials will be removed from the site.
4. Fuel drums will be picked up and flown out by NRCan/PCSP, crushed and shipped south for disposal.
5. Each camp site will be inspected to ensure that all garbage has been collected and removed from the area.
6. A last inspection will ensure that there is no remaining material at the site and that there is little/no evidence of Canadian Wildlife Service (Seabirds) land use activity.