

For office use only	
Date Received	Permit No.

CANADIAN WILDLIFE SERVICE PERMIT APPLICATION

NOTE TO RESEARCHERS

Without exception, all research within the NWT and Nunavut must be licensed. This includes work in indigenous knowledge as well as in physical, social, and biological sciences. For information on licensing for your project within the NWT, please refer to the Aurora Research Institute's Web site at <http://www.nwtresearch.com>. For Nunavut, visit the Nunavut Research Institute Web site at <http://www.nri.nu.ca>.

For Scientific Permits: Prior to issuing a Scientific Permit to Take, Salvage or Disturb Migratory Birds, CWS requires a copy of either an NWT or Nunavut Wildlife Research Permit; or an Aurora Research Permit/Nunavut Research Permit. Include a copy of either permit with this application or forward a copy to CWS upon receipt of it, or your CWS permit will not be issued.

Nunavut: In Nunavut your project will have to undergo screening by the Nunavut Impact Review Board. One of their requirements is that you obtain a conformity report from the Nunavut Planning Commission. Please ensure that you have done so.

To be completed by all applicants:

- ☐ New application
- ☒ Amendment/extension of existing permit
- Existing permit no. NUN-MBS-12-02
NUN-SCI-12-03

Territory:

- ☐ NWT
- ☒ Nunavut

Anticipated project start date: July 1, 2015

Anticipated project end date: August 31, 2017

Type of permit applied for:

- ☒ Bird Sanctuary permit
- ☐ National Wildlife Area entry permit
- ☒ Scientific permit to take salvage or disturb migratory birds

Period of permit requested:

- ☐ 1 year
- ☐ 2 year
- ☒ 3 year

Please indicate by checkbox if your project is receiving federal government funding:

- ☐ No
- ☒ Polar Continental Shelf Project
- ☒ Yes/Other (please list)
Environment Canada

Please indicate by checkbox if your project requires approvals/permits by any of the following regulators:

- ☐ DFO ☐ NRCAN
- ☐ INAC ☐ Parks Canada
- ☒ NWT or Nunavut Water Board
- ☐ NEB



1. CONTACT INFORMATION

Applicant name and mailing address Jim Leafloor Canadian Wildlife Service 150-123 Main Street Winnipeg, MB R3C 4W2		Fax (204) 983-5248
		Phone (204) 983-5259
Field supervisor Jim Leafloor	E-mail address jim.leafloor@ec.gc.ca	Phone (204) 983-5258

Total number of personnel covered by application:

21

2. SUMMARY PROJECT INFORMATION**Project title:**

Arctic Goose Banding and Habitat Survey

Project objective: (concise statement of purpose and goals)

Objective is to capture and band representative samples of arctic-nesting geese to provide information about their movement patterns, survival, harvest rates, and population size. Habitat evaluation is also being done to assess potential impacts of increasing goose populations on their arctic nesting habitats.

Project description: (non-technical summary; 300 words or less; describe purpose, nature and occasion of all activities; include the anticipated intensity of vehicle use)

A sample of Arctic-nesting geese (5 different species) is captured and marked with individually numbered leg bands. These bands are reported by hunters or other people who encounter the bands at a later date, usually after the death of the bird. Information is obtained about migratory movements of the geese, annual survival rates, harvest rates, and even population size. Banding occurs while geese are flightless, usually in July or August each year. It involves locating flocks of geese with a helicopter, setting up a portable net to capture the birds, and then banding birds. Information collected at the time of banding includes species, age, sex, location, and date of capture. After all birds are banded, the flock is released all together so that individual pairs and family groups are not disrupted. Banding does not occur when it is raining, or when poor weather conditions would put the health of the birds at risk. Banding at each location occurs over approximately a 10-day period each year.

Habitat degradation caused by midcontinent lesser snow geese and Ross' geese has been well documented at La Pérouse Bay and elsewhere in Hudson Bay, but little is known about the status and sustainability of habitats in the areas that sustain the vast majority of breeding snow geese in the eastern Arctic (Baffin Island, Southampton Island). Our project will use a combination of remote sensing and detailed ground measurement to quantify the spatial extent of habitat degradation and remaining available habitat at important nesting and brood-rearing areas on Southampton and Baffin Islands. Study areas will be stratified according to hydrologic and geomorphic features that are of importance for plant community structure, and sites will be chosen a-priori. Each ground sampling site will be composed of four 50m transects originating at the center coordinate and radiating out at right angles, following a recently developed rapid assessment protocol. At each site we will assess habitat condition using a combination of detailed vegetation quadrats and rapid ground cover assessments, and will use goose faecal pellet counts used as a proxy for recent herbivory pressure.

NOTE: A full project description should accompany this application.



Activities related to project proposal: (check as many as apply)

☒ Scientific research	☒ Ground surveys	☒ Storage of fuel
☐ Tourism, non-commercial	☒ Aerial surveys	☐ Camp construction
☐ Tourism, commercial	☐ Winter road	☐ Use of firearms
☐ Use of boats	☐ Commercial harvest	☐ Use of explosives
☒ Use of aircraft	☐ Cruise ship	☐ Seismic exploration
☐ Use of off-road vehicles	☐ Drilling activities	☐ Mining activities
☐ Other (please specify):		

Are you applying to kill, salvage or otherwise interfere with migratory birds (e.g. take blood, transmitter implant, etc.)?

☒ Yes ☐ No

If yes, provide details, including specie(s) of bird, number and method. Indicate whether the approval of an animal care committee has been received and include the name of the committee.

We occasionally collect samples from captured geese for other projects, e.g., genetic sampling (blood), or disease sampling for avian influenza, etc. Such sampling would be done under a separate scientific permit. Any birds that die as a result of banding operations could be salvaged for such study purposes.

Do you plan to carry firearms?

☒ Yes ☐ No

If yes, please describe number, type and purpose of firearms.

Usually 1 or 2 guns per crew; 1 gun is carried in the aircraft, another stays at camp.

3. PROJECT LOCATION

Geographic place names and coordinates: (be as specific as possible; enter multiple coordinates for activities occurring over large area(s))

Location	Geographic Coordinates
Perry River, Queen Maud Gulf, NU	67° 41' 40.8" N 102° 11' 27.2" W
Karrak Lake, Queen Maud Gulf, NU	N67 14.145 W100 15.415
Coral Harbor, Southampton Island, NU	64°08'13"N 083°09'51"W
Nikko Island, Baffin Island, NU	N 66 35.54/W 71 30.92

NOTE: A map document delineating activity centres and travel corridors, etc. is required and should accompany this application. Please submit shapefiles if available.

Status of land upon which project will occur:

- ☒ Federal crown
☒ Inuit-owned or other private
☒ Territorial (commissioner's land)



4. OPERATIONAL AND ENVIRONMENTAL CONSIDERATIONS

Provide a summary of potential environmental impacts and proposed restoration plans and activities: (describe the effects of the proposed activities on land, water, flora, fauna; attach separate pages as necessary)

All materials transported to field camps will be flown out, with the exception of burnable garbage, grey water, and sewer.

List of equipment and fuel to be used: (include aircraft, vehicles, boats, generators, large tent structures, various types of fuel, etc; indicate proposed containment strategies for all fuels; attach separate pages as necessary)

Equipment / Fuel	Size / Amount	Proposed use / Containment
Bell 206 Long Ranger helicopter; Jet A or B fuel	20 drums per site	sealed drums for use by helicopter. Approved secondary containment and spill kits will be used.
generators and gasoline	1-2 per site at Perry River, Karrak Lake, Nikko Island	power source at field camp for lights, computers, etc. Secondary Containment and spill kits will be in place.
cabins or tent frames	1 at Perry River; 5 at Karrak lake; 5 at Nikko Island	kitchen and sleeping quarters for field crews

NOTE: Please submit a copy of a spill contingency plan, if available, with this application.

Waste disposal: (describe any wastes that may be produced, e.g. garbage, grey water, sewage, hazardous waste, and proposed disposal methods; attach separate pages as necessary)

Type of waste	Approx. amount produced	Proposed disposal method
garbage	Max 50 lbs per site	town landfill at Coral Harbor; burning in suitable incinerator at field camps; non-burnables flown out to landfills
grey water	40 L/site/day	disposal in shallow dug pit
sewer	40L per field camp	burial in shallow pit or incinerated

PLEASE NOTE:

- You should consider species at risk legally listed on the Species at Risk Act (i.e. on Schedule 1) and those under consideration for legal listing, such as those designated by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC).
- Refer to species status reports and other information on the Species at Risk Registry at www.sararegistry.gc.ca for information on specific species.



5. POTENTIAL ADVERSE EFFECTS TO SPECIES AT RISK

Identify Species at Risk found within your proposed project area.

Possibly Ross's gulls, though we will be there after they have completed nesting

List any potential adverse effects that your project may have on the species, its habitat and/or its residence. All direct, indirect and cumulative effects should be considered.

No adverse effects are likely

If potential adverse effects are identified, list mitigation to avoid or lessen those effects.

See above

List monitoring measures to determine the effectiveness of mitigation and/or identify where further mitigation is required.

6. CONSULTATION

List local community representatives who have been contacted about your proposed activities: (include community groups, local businesses, schools, etc.; state how they are participating in your activity, if at all (e.g. providing advice, supplying goods, hired to assist you, etc.))



1. Representative name: Martha Padluq
Name of group represented: Isulijarnic ACMC
Address / phone / fax: 867-979-8037
How contacted and date: E-mail February 2011 and more recent
Participating? ☒ Yes ☐ No
If yes, how?
Meetings and presentations were made to the ACMC in 2012 and 2013, followed by a site visit to the sanctuary in August of 2013. Ongoing contacts are planned through ACMC meetings

2. Representative name: Jennie Rausch
Name of group represented: Ahiak ACMC
Address / phone / fax: 867-669-4709
How contacted and date: February 2012 and more recent
Participating? ☒ Yes ☐ No
If yes, how?
A meeting and presentation to the ACMC in the community of Cambridge Bay took place in March 2012, followed by a site visit in August 2012. Ongoing contacts are planned through ACMC meetings

3. Representative name: Donna Mulders
Name of group represented: Nivvialik ACMC
Address / phone / fax: 867-669-4783
How contacted and date: February 2012 by email
Participating? ☒ Yes ☐ No
If yes, how?
A meeting and presentation to the ACMC in the community of Arviat took place in March 2012. Ongoing contacts are planned through ACMC meetings

Applicant Jim Leafloor

(Print Full Name)

Signature



Date February 5, 2015

