



WILDLIFE RESEARCH PERMIT APPLICATION FORM

If you are researching, observing, and/or handling wildlife in the Northwest Territories (NWT) you need to have the proper permits and licences. This applies to everyone, including government agencies, and is intended to avoid harm to NWT natural, social and cultural environments.

Your application must include:

- ✓ Cover letter, which includes:
 - Project title
 - One-line summary
 - Wildlife species that will be studied, observed or manipulated
 - Location of study area
 - Signature and contact information
- ✓ Completed permit application
- ✓ Signed recommendation form(s)
- ✓ Supporting notes and correspondence detailing consultation process

For further instructions and how to submit your application, go to: www.enr.gov.nt.ca. If more space is required, please attach additional pages.

FORMULAIRE DE DEMANDE DE PERMIS DE RECHERCHE SUR LA FAUNE

Si vous faites des recherches sur la faune, de l'observation ou de la manipulation d'animaux sauvages aux Territoires du Nord-Ouest (TNO), vous devez détenir les licences et les permis appropriés. Cette mesure s'applique à tout le monde, y compris aux organismes gouvernementaux, et vise à éviter les dommages qui pourraient être causés aux milieux naturels, sociaux et culturels des TNO.

Votre demande doit comprendre :

- ✓ Une lettre de présentation indiquant :
 - Le titre du projet;
 - Un résumé d'une ligne;
 - Les espèces sauvages qui seront étudiées, observées ou manipulées;-
 - L'emplacement de la zone d'étude;
 - Votre signature et vos coordonnées.
- ✓ La demande de permis dûment remplie.
- ✓ Le(s) formulaire(s) de recommandation signé(s).
- ✓ Pièces justificatives et correspondance décrivant en détail le processus de consultation.

Pour obtenir de plus amples renseignements sur la façon de présenter votre demande, accédez au site Web suivant : www.enr.gov.nt.ca/en/français. Si vous avez besoin de plus d'espace, veuillez ajouter les pages nécessaires.

Check One / Cochez une seule réponse : New Project / Nouveau projet Ongoing Project / Projet en cours

Address: (Include name, phone number and e-mail)

Adresse : (Inclure votre nom, numéro de téléphone et l'adresse courriel)

Robert Mulders; Wildlife and Fish, Environment and Natural Resources, P.O. Box 1320, Yellowknife, NT, X1A 2L9 Office: (867) 767-9237, ext. 53226; robert_mulders@gov.nt.ca

Sponsor(s): (Organizations supporting your work)

Commanditaire(s) : (organismes qui soutiennent votre travail)

GNWT - Environment and Natural Resources

Funding Source(s): (Organizations providing financial help to work)

Source(s) de financement : (organismes qui vous apportent une aide financière)

GNWT - Environment and Natural Resources

Additional Licences Required:

Licences supplémentaires requises :

NWT Wildlife Care Committee Permit to Handle Wildlife

Project Title: (10 words or less)

Titre du projet : (10 mots ou moins)

Wolf collaring on the central barrens

Rationale: (100 words or less)
Explication : (100 mots ou moins)

Wolves are the primary predator of barren-ground caribou. The impact that wolves have on declining caribou herds is of critical management and community interest for caribou recovery efforts. Barren-ground caribou are migratory as are the wolves that follow them. This complicates our understanding of the dynamics despite it being largely a one predator-one prey system. While wolves tend to show fidelity to den sites, they move with caribou afterwards in late fall, and throughout the winter. Wolves also have large dispersal tendencies. How wolves move with or remain associated with a given caribou herd is poorly understood, especially during winters when caribou show extensive range overlap. This has implications for changing wolf abundance associated with a caribou herd and effectiveness of any wolf removal actions. Having collared wolves allows us to track their movements throughout the year and assess their relationship with adjacent caribou herds.

Time Period: **August 2020 to August 2025 (monitoring to extend over 5 years)**

Durée :

Location and Nearest Community: (Provide latitude and longitude if applicable)
Emplacement et collectivité la plus près : (indiquer la latitude et la longitude, le cas échéant)

The research will occur throughout the North Slave Region, on the ranges of the Bathurst, Bluenose East, and Beverly caribou herds. Nearest communities include Wekweeti, Gameti, Yellowknife, N'Dilo/Dettah, and Lutsel K'e.

Species Studied: **Wolf (*Canis lupus*)**

Espèces étudiées :

Project Leader: **Robert Mulders**

Chef de projet :

Project Personnel: (Include people who would actually do the work in the NWT, volunteers included)
Participants au projet : (inscrire les personnes qui accompliraient le travail aux TNO, y compris les bénévoles)

Contracted helicopter capture crew.
ENR staff, including Dean Cluff, Stefan Goodman, and Judy Williams to provide project support.

Objectives: (Please use point form)

Objectifs : (veuillez utiliser le style télégraphique)

1. Determine how wolves travel among caribou on their winter ranges.
2. Determine broader wolf movement patterns across caribou ranges on an annual and multi-year basis.
3. Determine fidelity of wolves to den sites and caribou herd ranges.
4. Assist in the evaluation of wolf management actions in the NWT.

Methods: (100 words or less) (Cite references, if applicable)

Méthodes : (100 mots ou moins) (veuillez citer vos références, le cas échéant)

Wolves will be primarily captured via net-gunning from a helicopter and fitted with a GPS collar. Small fixed-wing aircraft support may be used to help locate wolves for collaring. Although netting will be the primary means of restraint, chemical immobilization may also be used to facilitate capture and collaring. Up to 30 GPS collars will be deployed on wolves, targeting 10 collars on wolves associated with each of the Bathurst, Bluenose East, and Beverly caribou ranges. One wolf will be collared per pack with the breeding female preferred. Captured wolves will also be weighed and measured, body condition assessed, ear-tagged, and blood and hair samples will be collected. In addition to collaring wolves on the BNE and BA caribou winter ranges (Jan-April), capture efforts may also be carried out in June near active den areas, or on other areas of the range in late summer or during the fall. Collaring is expected to occur in each of the five years, in order to maintain 30 active collars on wolves annually. Trail cameras may be set up at select den sites, and will serve to obtain data on pup production and survival rates. Efforts will be made to minimize disturbance at the dens. As well, trail cameras at bait stations may be used on caribou winter ranges to facilitate locating wolf tracks, to enhance efforts to deploy collars. Depending on GPS collar model, collars are programmed to operate for a period ranging from 24-48 months, and will automatically drop off. The primary purpose of these collars is to address the research and monitoring objectives. Collared wolves will not be used to locate and target pack mates during aerial removal activities, unless this Wildlife Research Permit is amended and approved at some future date, and specifically allows for this additional use of this collaring data.

Current Consultation: (List all contacts you have already consulted; append all recommendation forms to submission)

Consultation actuelle : (veuillez dresser la liste de toutes les personnes que vous avez déjà consultées et annexer à votre demande tous les formulaires de recommandation)

Consultation was initiated with the Tlicho Government during Fall 2019. The WRRB posts wildlife research permit applications on their public registry for the public to comment. The original version of this WRP application for this study was posted to the WRRB web site on 24 January 2020.

Future Community Consultation: (List anticipated consultation activities, e.g. posters, presentations, meetings, letters)

Consultations de la collectivité à venir : (veuillez dresser la liste de toutes les activités de consultation prévues, c'est-à-dire les affiches, les présentations, les rencontres, les lettres, etc.)

Using the Wildlife Research Permit process, further consultation will include the Tlicho Government, Yellowknives Dene First Nation, North Slave Metis Alliance, Lutsel K'e First Nation, and the Wek'èezhii Renewable Resources Board (WRRB). ENR may explore opportunities for collaborative trail camera monitoring efforts with the Ekwò Nàxoède Kè Project. Future consultation is anticipated to include periodic meetings and presentations, as well as annual reports which will summarize wolf research, monitoring and management efforts.

Opportunities for Local Participation:

Possibilités de participation locale :

Opportunity for local participation will be limited, because collars will be deployed by a contracted capture crew.

Management or Recovery Plans: (If your project is part of accepted wildlife management plans or recovery plans, list them as appropriate)
Plans de gestion ou de rétablissement : (si votre projet fait partie de plans de gestion de la faune approuvés ou de plans de rétablissement, veuillez en dresser la liste, s'il y a lieu)

The Bluenose East Caribou Action Plan prepared by the Advisory Committee for Cooperation on Wildlife Management (ACCWM) identifies that research and monitoring of predators needs to be considered.

The Beverly/Qamaniruaq Caribou Management Plan (2013-2022) has an objective to promote research to assess the impacts of predation on the herds.

Follow-up Report / Rapport de suivi

Check One / Cochez une seule réponse : Previously Submitted / Envoyé précédemment Attached / En pièce jointe Not Applicable / Sans objet

ROBERT MULDER'S

Name / Nom

R. Mulders

Signature

2020/06/24

Date (YY/MM/DD) / Date (AA-MM-JJ)

All personal information contained on this form is collected under the authority of the *Wildlife Licenses and Permits* regulations Section 11(3), and is used for the purposes of assessing and processing applications for Wildlife Research Permits. Any questions relating to the collection and use of personal information on this form may be directed to the Information Coordinator, Wildlife Division at 867-767-9237 ext. 53219.

Tous les renseignements personnels contenus dans le présent formulaire sont recueillis conformément au paragraphe 11(3) du *Règlement sur les permis et licences relatifs à la faune*, et sont utilisés aux fins d'évaluation de la gestion des interventions relatives à la faune effectuées par des chercheurs du Comité de protection de la faune des TNO. Pour toute question au sujet de la cueillette et de l'utilisation de ces renseignements, communiquez avec le coordonnateur à l'information de la Division de la faune au 867-767-9237, poste 53219.