

Demande de la CNER faisant l'objet d'un examen préalable #125340**Back for the future: Long-term observations of vegetation and snowcover in the High Arctic**

Type de demande : New

Type de projet: Scientific Research

Date de la demande : 4/30/2018 12:50:06 PM

Period of operation: from 0001-01-01 to 0001-01-01

Autorisations proposées: from 0001-01-01 to 0001-01-01

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DÉTAILS**Description non technique de la proposition de projet**

Anglais: Long-term scientific observations are important to understanding environmental changes. Because of climate change, woody shrubs are expected to increase on the tundra; snow conditions will change, too. The goal of my study is to evaluate these long-term changes. During 1991-1993, I spent 15 months on the land at Ekalluktok, on Wellington Bay, west of Cambridge Bay. I established 80 vegetation and snow observation points during my research on muskoxen. I recorded the quantity and types of plants; I measured the hardness and thickness of snow. These observations are important for assessing changes over the past 25 years. They are also a baseline for the future. I intend to repeat this study. In 2018, I will return to these observation points. In 1991, I marked each point with a small metal stake. I left those stakes on the land; I expect to find them again. In August 2018, I will estimate the abundance and composition of plants again. In April 2019, I will return to measure snow conditions. I will compare my new observations to the observations from the 1990s. Finally, I will share my information. I will photograph each plot; I will demonstrate the techniques to local residents and/or the staff at the Canadian High Arctic Research Station; and I will store the photographs and data so that people can use them in future.

Français: Not applicable

Inuktitut: Not applicable

Inuinnaqtun: Hivituymuk qauyiharnikkut tautukhimayangit aturnaqhuni kangiqhittiarimi nunap avatingit aallannguqtiqhimayut. Hamna hilaup aallannguqpallianinga, qiyulingnit iviit naahuriyauyut amigainniaqhutik manirarmi; aputit qanurilinganingit aallanngurniaqhunilu, ilaa. Hamna hivunigiyaara naunaiyainikhanut qimilruqtakhaat hivituymuk aallannguqpallianingit. Uvani 1991-1993, manirarmiitkaluaqtunga 15 nit tatqiqhiutigut uvani lqaluktuuq, uataaniittuq lqaluktuuttiarmi. Aulapkaivlunga 80 nit nauhimayunit apunmullu ihivriuhugit qauyihahunga umingmainnit. Titiraqhungalu amihuuningit aallatqiinguyullu nauttiat; uuktuqhungalu naptunninga hilingningalu apunmut. Hapkuat ihivriuhimayatka aturnaqhutik ihivriuhigiami aallannguqpallianingit qangaraalungmit 25 nit ukiunganit. Kigliuvlutik hivunikhamut. Huli havaffaarumayatka naunaiqhiinianut. Uvani 2018 mi, utirniarmiyunga ihivriuffaariami. Uvani 1991 mi, nalunaiyqhimayatka nuvuani naittumik havigalingnit naunaitkutarmik. Manirarmiittut naunaitkutait; naahurihimayara naniniaqtatka. Uvani Niqiliqivingmi 2018 mi, naunaiqhiiniaqtunga amihuuningit havaangillu nauttianut havaarilugillu. Uvani Qitiqqautiyuq 2019 mi, utiffaarniarmiyunga ihivriurlugit aputit qanurilinganingit. Ihivriurniarmiyatka nutaam ihivriurningit uumanngat naunaiyahimayaraluatka hamannat 1990 ngugaluqatumi. Kinguani, ilittupkainiaqtatka avvautihimalugillu naunaiyainingit. Piksaliurniaqtatka tamait maniraq havaarihimayatkal ilittuqhiiniaqtatka qauyiharnianut nunaqatigiingnut unalu/havaktunut uvani Kanatamiunut Qulvahiktumut Ukiuqtaqtumi Qauyiharvik; piksallu naunaiyainingillu tutquumaniagtut inuit aturumagumiuk hivunngani.

Personnel

Personnel on site: 2

Days on site: 21

Total Person days: 42

Operations Phase: from 2018-08-06 to 2018-08-27

Activités

Activités

Emplacement	Type d'activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
Wellington Bay, in vicinity of Ekalluk River	Scientific/International Polar Year Research	Crown	Unknown	Unknown	Roughly 60 km west of the community of Cambridge Bay

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Cambridge Bay	Aili Pedersen	Canadian High Arctic Research Station	2018-01-19

Autorisations

Indiquez les zones dans lesquelles le projet est situé

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Gouvernement du Nunavut, ministère de l'Environnement	Nunavut Wildlife Research Permit Application	Applied, Decision Pending		

Project transportation types

Transportation Type	Quantité	Utilisation proposée	Length of Use
Air	0	Twin Otter	
Water	0	Canoe	
Land	0	On foot	

Project accomodation types

Temporary Camp

Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d'équipement	Quantité	Taille – Dimensions	Utilisation proposée
Tent	3	2 m x 3 m	Accommodation
Canoe	1	5 m	Cross Ekalluk River to access sampling sites

Décrivez l'utilisation du carburant et des marchandises dangereuses

Décrivez l'utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
	fuel	2	1	2	Gallons	Naptha for cooking

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0	Buckets	Ekalluk River

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Researching	Déchets non combustibles	Less than 1 kg per day	Return to Cambridge Bay and deposit in regular municipal waste or recycling	.
Researching	Eaux usées (matières de vidange)	Less than 1 kg per day	Small open pit	.

Répercussions environnementales :

Minimal. Our camp will be temporary; it will consist of just two people. No motorized vehicles will be used. No refuse (other than a small amount of sewage waste) will left on-site. On the other hand, the project will lead to better scientific understanding of long-term changes to tundra vegetation.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

Description de l'environnement existant : Environnement physique

Description de l'environnement existant : Environnement biologique

Description de l'environnement existant : Environnement socio-économique

Miscellaneous Project Information

Identification des répercussions et mesures d'atténuation proposées

Répercussions cumulatives

Impacts

Identification des répercussions environnementales

Construction																								
-		-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Exploitation																								
Scientific/International Polar Year Research		-	-	-	-	-	-	-	-	-	-	-		P	P	-	-	-		-	-	-	-	-
Désaffectation																								
-		-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)