Demande de la CNER faisant l'objet d'un examen préalable #125473

Fisheries and Oceans Canada - Small Craft Harbour - Four Harbour Feasibility Study Field Program

Type de demande :	New
Type de projet:	Scientific Research
Date de la demande :	6/4/2019 7:18:57 PM
Period of operation:	from 0001-01-01 to 0001-01-01
Autorisations proposées:	from 0001-01-01 to 0001-01-01
Promoteur du projet:	Eleanor McEwan Fisheries and Oceans Canada -Small Craft Harbours 501 University Crescent Winnipeg Manitoba R3T 2N6 Canada Téléphone :: 204-984-1102, Télécopieur ::

DÉTAILS

Description non technique de la proposition de projet

Anglais: Advisian has been retained by Fisheries and Oceans Canada – Small Craft Harbours Program (DFO-SCH) to conduct an engineering feasibility study for the construction of small craft harbour (SCH) for four communities in Nunavut: Arctic Bay, Grise Fiord, Resolute Bay, and Clyde River. To inform the feasibility study, a field program will be undertaken during the 2019 open water season to conduct environmental, geoscience, geophysics and archaeological baseline studies in each location as detailed in Table 1 1 and Figure 1 of the attached report. All locations are in the Qikiqtaaluk Region. The field program consists of the following: •Marine Field Study Wildlife Field Study•Vegetation Field Study•Geoscience Field Study•Geophysics Field Study •Archaeological Field Study Study Areas will be developed prior to mobilization into the field to encompass the following Project components: •Small Craft Harbour (SCH)•Haul Road and Quarry•Disposal at Sea sites (not confirmed if required) All Study Areas will be designed to include the maximum footprint required for construction plus a 100 m buffer. Study areas were not defined at the time of this permit application, but their predicted extent is described in Table 3 1 and displayed in Attachment 1 of the attached report. Field surveys are required to document existing conditions within the Project Study Areas and to support engineering design. A summary of the purpose and proposed methodology for each of the field studies is provided in Table 3 2 of the attached report.

Français: not required for North Baffin

Inuktitut: ᐊᑦᕙᐃᓯᐊᓐ (Advisian) ᑎᒍᔭᐅᓯᒪᓂᕐᒪᑕ ᐃᖃᓗᓂᓇᕆᒃᑯᑦ ᐊᒻᒪ ᐃᒪᓂᓇᕆᒃᑯᑦ ᑲᓇᑕᒥᑦ – ᒥᑭᑦᑐᓄᑦ ᐅᒥᐊᕐᓄᑦ ᐅᖅᑯᐊᓂᓖᖕᓄᑦ ᑐᓚᒃᑕᕐᕕᖕᒥᒃ ᐱᓂᐊᒧᑦ (DFO-SCH) ᐱᓂᕐᑯᔭᐅᓪᓗᑎᒃ ᐋᖅᑭᒃᓱᕐᑕᐅᕙᓂᐊᓂᕐᒧᑦ ᐱᓂᐊᖑᔪᓐᓇᕐᓂᖓᓄᑦ ᖃᐅᓯᕐᑯᔭᐅᓪᓗᑎᒃ ᓴᓇᓂᕐᒧᑦ ᒥᑭᑦᑐᓄᑦ ᐅᒥᐊᕐᓄᑦ ᐅᖅᑯᐊᓂᓖᖕᓄᑦ ᑐᓚᒃᑕᕐᕕᖕᒥᒃ (SCH) ᑖᒃᑯᓄᖓ ᑎᓴᒪᓄᑦ ᓄᓇᓕᖕᓄᑦ ᓄᓇᕗᒥᑦ: ᐃᒃᐱᐊᕐᔪᒃ, ᐊᐅᔪᐃᑦᑐᖅ, ᖃᐅᔪᐃᑦᑐᖅ, ᐊᒻᒪ ᑲᖏᖅᑑᒪᐱᒃ. ᑐᓴᖅᓯᒪᕐᑯᓪᓗᒥᑦ ᐱᓂᐊᖑᔪᓐᓇᕐᓂᖓᓄᑦ ᖃᐅᔨᓴᐃᓂᖅ, ᓄᓇᒥᑦ ᐱᓂᐊᖅ ᐱᓂᐊᖑᓯᒥᐊᕐᓂᐊᖅᑐᖅ 2019 ᓯᑯᖃᙱᑎᓪᓗᒍ ᐱᓂᕐᑯᓪᓗᒥᑦ ᐊᕙᑎᒧᑦ, ᓄᓇᒥᑦ ᑭᒡᓕᓯᓂᐊᒃᓃᑦ, ᓄᓇᐅᑉ ᖃᓄᐃᓕᖓᓂᖓ ᐊᒻᒪ ᐃᑦᑕᕐᓂᓴᓕᕆᓂᕐᒧᑦ ᐱᒥᐊᕈᑎ ᖃᐅᔨᓴᕈᑎᓄᑦ ᐊᑐᓂ ᓇᓃᓐᓂᖓᓄᑦ ᓇᓗᓇᐃᔭᖅᓯᒪᔪᓂᑦ ᓇᓗᓇᐃᒃᑯᑕᖅ 1 1 ᐊᒻᒪ ᐊᔾᔨᙳᐊᖅ 1 ᐊᑕᔪᓂᑦ ᐅᓂᒃᑳᓂᑦ. ᐊᑕᖏᖅᓱᑎᒃ ᓇᓃᓐᓂᖏᑦ ᕿᑭᖅᑖᓗᒃ ᐊᕕᒃᑐᖅᓯᒪᔪᖏᓐᓃᑦᑐᑦ. ᓄᓇᒥᑦ ᐱᓂᐊᖅ ᐃᓚᐅᑎᑦᑎᔪᖅ ᐅᑯᓂᖓ: •ᑕᕆᐅᒥᑦ ᖃᐅᔨᓴᐃᓂᖅ ᐆᒪᔪᑦ ᓄᓇᓂᑦ ᖃᐅᔨᓴᐃᓂᖅ•ᐱᕈᖅᑐᓂᒃ ᓄᓇᒥᑦ ᖃᐅᔨᓴᐃᓂᖅ•ᓄᓇᒥᑦ ᑭᒡᓕᓯᓂᐊᒃᓃᑦ ᓄᓇᒥᑦ ᖃᐅᔨᓴᐃᓂᖅ•ᓄᓇᐅᑉ ᖃᓄᐃᓕᖓᓂᖓᑕ ᓄᓇᒥᑦ ᖃᐅᔨᓴᐃᓂᖅ •ᐃᑦᑕᕐᓂᓴᕐᓄᑦ ᓄᓇᒥᑦ ᖃᐅᔨᓴᐃᓂᖅ ᖃᐅᔨᓴᐃᓂᕐᒧᑦ ᓄᓇᑦ ᐋᖅᑭᒃᑕᐅᓛᖅᑐᑦ ᐱᒥᐊᓪᓚᕆᓚᐅᙱᓐᓂᖕᒥᓐᓂᒃ ᓄᓇᓂᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᑦ ᐅᑯᓄᖓ ᐱᓂᐊᒃᓴᐅᔪᑦ ᐃᓚᖏᓐᓄᑦ: •ᒥᑭᑦᑐᓄᑦ ᐅᒥᐊᕐᓄᑦ ᐅᖅᑯᐊᓂᓖᖕᓄᑦ ᑐᓚᒃᑕᕐᕕᒃ (SCH)•ᐅᓯᑲᖅᑕᕐᕖᑦ ᐊᖅᑯᑏᑦ ᐊᒻᒪ ᑐᐊᐸᒃᑕᕐᕖᑦ•ᐃᒥᑕᐅᓂᐅᔪᓄᑦ ᑕᕆᐅᕐᒥᑦ ᐃᓃᑦ (ᓇᓗᓇᐃᖅᑕᐅᓯᒪᙱᑦᑐᑦ ᓱᓕ ᑕᐃᒪᐃᑦᑕᕆᐊᖃᖅᐸᑕ)ᐊᑕᖏᖅᓱᑎᒃ ᖃᐅᔨᓴᐃᓂᕐᒧᑦ ᓄᓇᐃᑦ ᐋᖅᑭᒃᓯᒪᔪᑦ ᐃᓚᐅᑎᑦᑎᓗᑎᒃ ᐊᖏᓛᒥᒃ ᑐᒥᖃᕐᓗᑎᒃ ᑕᐃᒪᐃᑦᑕᕆᐊᖃᖅᐸᑦ ᓴᓇᑎᓪᓗᒥᑦ ᐃᓚᐅᓪᓗᓂ 100 ᒦᑕᑦ ᑕᐃᒪᐃᓕᖓᑐᐃᓐᓇᖅᑐᑦ. ᖃᐅᔨᓴᐃᓂᕐᒧᑦ ᓄᓇᐃᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒫᓂᙱᑦᑐᑦ ᒫᓐᓇ ᑖᔅᓱᒧᖓ ᐊᖏᖅᑕᐅᓇᓱᖕᓂᕐᒧᑦ ᐆᒃᑑᒪᔭᒍᑎᒥᑦ, ᑭᓯᐊᓂᓕ ᓇᓚᐅᖅᑖᖅᑕᐅᓯᒪᓂᕐᒥᑦ ᐊᖏᓂᖏᓐᓄᑦ ᑖᕙᓂ ᓇᓗᓇᐃᒃᑯᑕᖅ 3 1 ᐊᒻᒪ ᓴᖅᑮᖅᓱᓂ ᐊᑦᑕᑕᖅᓯᒪᔪᖅ 1 ᑕᕙᓂᑦ ᐊᑕᔪᒥᑦ ᐅᓂᒃᑳᒥᑦ. ᓄᓇᒥᑦ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᐱᑕᖃᓇᐊᓖᑦ ᑎᑎᖅᑫᑕᐅᓯᒪᕐᑯᓪᓗᖕᒥᑦ ᒫᓐᓇ ᖃᓄᐃᓕᖓᓂᖏᑦ ᐃᓗᐊᓂᑦ ᐱᓂᐊᒃᓴᐅᔩᑉ ᖃᐅᔨᓴᐃᓂᖅ ᓄᓇᓂᒃ ᐊᒻᒪ ᐃᑲᔪᖅᓱᖅᓯᓯᒪᓗᑎᒃ ᐋᖅᑭᒃᓱᕐᑕᐅᕙᓂᐊᓂᕐᒧᑦ ᐋᖅᑭᐅᒪᓂᖏᓐᓂᒃ. ᓇᐃᓪᓕᑎᖅᓯᒪᔪᖅ ᐱᔾᔪᑎᖓ ᐊᒻᒪ ᐊᖏᖅᑕᐅᓇᓱᐊᖅᑐᖅ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ ᐊᑐᓂ ᓄᓇᓄᑦ ᖃᐅᔨᓴᐃᓃᑦ ᑐᓂᔭᐅᔪᑦ ᐅᕙᓂ ᓇᓗᓇᐃᒃᑯᑕᖅ 3 2 ᐊᑕᔪᓂᑦ ᐅᓂᒃᑳᓂᑦ.

Inuinnaqtun: not required for North Baffin

Personnel

Personnel on site: 6

Days on site: 8

Total Person days: 48

Operations Phase: from 2019-07-04 to 2019-08-15

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
Resolute Bay	Baseline data	Inuit Owned Surface Lands	engagement with communities for harbour design is underway	pending field program	marine environment fronting community
Grise Fiord	Baseline data	Municipal	engagement with communities for harbour design is underway	pending field program	marine environment fronting community
Clyde River	Baseline data	Municipal	engagement with communities for harbour design is underway	pending field program	within
Arctic Bay	Baseline data	Municipal	engagement with communities for harbour design is underway	pending field program	marine environment fronting community

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Clyde River	James Arreak (SAO) Mayor and Council members	SAO - Hamlet	2019-05-24
Clyde River	Gary Aipellee (HTO manager) and HTO board members	Nangmautaq HTO	2019-05-24
Grise Fiord	Marty Kulukuqtuq(SAO), Mayor and Council members	Hamlet	2019-05-29
Grise Fiord	Amon Akeeagok (HTO manager) and HTO Board members	Iviq HTO	2019-05-29
Arctic Bay	Deborah Johnson (SAO), Mayor and Council members	Hamlet	2019-06-05
Arctic Bay	Jennifer Pauloosie (HTA manager), HTA board members	Ikajutit HTA	2019-06-04
Resolute Bay	Nancy Amarualik (HTA Manager), HTA Board members	Resolute Bay HTA	2019-06-02
Resolute Bay	Kimberly Young (SAO), Mayor, Council members and EDO	Hamlet	2019-06-03

Autorisations

Indiquez les zones dans lesquelles le projet est situé:

North Baffin

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Pêches et Océans Canada	License to Fish for Scientific Purposes (infaunal sediment collection, intertidal amphipods)	Applied, Decision Pending		
Institut de recherche du Nunavut	Research Permit. Separate for each location	Applied, Decision Pending		
Gouvernement du Nunavut, ministère de l'Environnement	Wildlife Permit	Applied, Decision Pending		
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Arctic Bay (2019-51A)	Active	2019-06-05	2019-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Clyde River (2019-54A)	Active	2019-06-05	2019-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Grise Fiord (2019-52A)	Active	2019-06-05	2019-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Resolute Bay (2019-53A)	Active	2019-06-05	2019-12-31

Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Air	Charter flight from Vancouver to each of the communities. Departure from Nunavut from last community will occur on commercial flight	
Water	Field work will require access to the marine environment (boats). Local support has been engaged for vessels and personnels in each community	
Land	Field work will require access to the terrestrial environment. Local support has been engaged for trucks/ATVs and personnels in each community	

Project accomodation types

Collectivité

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
remote operated vehicle	1	2 ft x 2ft x 1.5 ft	underwater video survey
generator	2	1.5 ft x 1.5 x 1.5 ft	power supply for marine subtidal survey and geophysics survey
iPad	3	12 inches x 6 inches	GPS and photographs for all surveys
depth sounder	1	1 ft x 1ft x 8 inches	depth record for conducting subtidal habitat survey
CTD	1	3ft x 1ft x 1ft	conductivity, temperature and salinity during water quality survey
Niksin sampler	1	1.5 ft x 6 inch diameter	collection device to get water from depth during water quality survey
petit ponar	1	1ft x 1ft x 8 inches	collection of sediment from seabed during sediment quality survey
binoculars and spotting scope	2	6 inches x 4 inches x 3 inches	observation tools during wildlife and terrestrial survey
drogue	1	2.5 ft x 2.5 ft	floatation buoy with a GPS to track its position. Purpose to measure currents for possible modelling work
geotechnical hammer	1	8 inches x 4 inches	used to collect small quantities of rock during geotechnical survey
seismograph, hydrophone and cable	6	3ft x 3 ft x 2ft	equipment to conduct the geophysics survey

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
Gasoline	fuel	2	20	40	Liters	fuel for generators, ATVs, trucks
formaldehyde	hazardous	1	5	5	Liters	preservative for infaunal sediment samples. to be dilluted to be formalin

Consommation d'eau

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

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Baseline data	Déchets non combustibles	1 garbage bag	waste will be packed out and disposed at land fill facility in Iqaluit before departing from Nunavut	see details above
Baseline data	Eaux usées (matières de vidange)	NA	Group is small (6 people) and will be staying in accommodation that is within the community	not relevant

Répercussions environnementales :

There are no effects anticipated as the program is a small field study to determine baseline conditions for each of the communities should the proposed small craft harbours proceed to detailed design and permitting.

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

the purpose of the field study is to collect baseline data which will be combined with traditional knowledge studies being conducted in October 2019. A baseline report will be produced to outline conditions for each community.

Description de l'environnement existant : Environnement biologique

the purpose of the field study is to collect baseline data which will be combined with traditional knowledge studies being conducted in October 2019. A baseline report will be produced to outline conditions for each community.

Description de l'environnement existant : Environnement socio-économique

the purpose of the field study is to collect baseline data which will be combined with traditional knowledge studies being conducted in October 2019. A baseline report will be produced to outline conditions for each community.

Miscellaneous Project Information

not relevant

Identification des répercussions et mesures d'atténuation proposées

None expected. During the geophysics study, the vessel will cease operations when narwal are observed in close proximity (less than 200 m).

Répercussions cumulatives

None anticipated

Impacts

Identification des répercussions environnementales

	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
Construction																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Exploitation																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Désaffectation																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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

Site du projet

Liste des géométries de projet

1	point	Arctic Bay
2	point	Clyde River
3	point	Grise Fiord
4	point	Resolute Bay