

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
Study area 2023	Researching	Crown	Angikuni Lake was previously inhabited by communities prior to the 1960's. The area continues to be an area that is visited by the nearest communities.	This area likely will contain evidence of community living in the area. Artifacts such as tent rings, kayak stands, traps, food caches, and inuksuit are likely to be observed in the area.	The nearest community in Nunavut is Arviat, is 330 km away.
Field camp	Camp	Crown	Angikuni Lake was previously inhabited by communities prior to the 1960's. The area continues to be an area that is visited by the nearest communities.	We will not have a camp in proximity to an archeological/paleontological site.	330 km distance from Arviat

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Arviat	Mona Okalik	Hunters and Trappers Office	2023-02-10
Arviat	Joe Savikataaq	Arviat Hamlet	2023-02-10
Arviat	Nicole Issakiark - Manager	HTO	2023-03-16
Arviat	Bobby Suluk	Arviat Interpreter	2023-03-16

Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Kivalliq

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Institut de recherche du Nunavut	sent permit to Mosha Cote, pending approval.	Applied, Decision Pending		
Indigenous and Northern Affairs Canada	Application sent to Tracie McCaie and discussions with Kyle Amsel (Rankin Inlet)	Applied, Decision Pending		
Office des eaux du Nunavut	Application sent to Robert Hunter Licensing Admin.	Applied, Decision Pending		

Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Air	fixed wing aircraft to mob in and out of camp. Possibly 7 days helicopter	
Water	4-person Zodiak boats	
Land	walking	

Project accomodation types

Temporary Camp

Autre,

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
Zodiak boat	2	4 person	daily boating geologists for mapping and transportation across the lake.
Helicopter	1	206 Bell Long Ranger	1 week of helicopter supported mapping
generator	1	3000-5000 KW	generator electricity for the camp
refrigerator	1	280 lbs	food storage, propane fueled
freezer	1	190 lbs	food storage
Heater	4	32 000 BTU	heating the tents
incinerator	1	180 lbs	waste management

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
Motor oil	hazardous	2	1	2	Liters	4-stroke outboard oil change kit. includes 1 liter of 4-stroke marine engine oil
Diesel	fuel	4	45	180	Gallons	heaters for office and kitchen tents
Gasoline	fuel	2	45	90	Gallons	For boats
Propane	fuel	2	100	200	Lbs	refrigerator and freezer
Aviation fuel	fuel	10	45	450	Gallons	helicopter

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0	water pump	Angikuni Lake

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Camp	Déchets combustibles	500 lbs	incineration and/ or transported back to town for appropriate disposal	-
Camp	Eaux grises	130L daily	grey water pit	-
Camp	Dangereux	16 45 gallon drums	empty drums will be transported outside of Nunavut for proper disposal	-
Camp	Eaux usées (matières de vidange)	250 lbs	outhouse/burial	-

Répercussions environnementales :

Environmental impacts from this project is largely from the use of a helicopter. Immediate risk to the environment from the helicopter is noise. To decrease stress on animals, we will follow the recommended altitude for aircraft by the Government of Nunavut of 610 meters during point-to-point travel. In addition, we will provide a wide berth to any animals spotted, including migratory birds. Long term impacts of the helicopter include the burning of fossil fuels into the atmosphere, contributing to climate change. To mitigate this, we will mostly be boating as a mode of transportation rather than using the helicopter. To mitigate this, we will only be using a 20 or 25 horse power motor, and stay well away from large mammals. Our stay at a field camp will also impact the environment with the use of water and the production of waste and garbage. The field crew will be advised that water is a precious resource, and that water use should be kept to a minimum. In addition, if wildlife is spotted in the field or around the field camp, all crew members will be advised not to distress any animals. If large mammals are spotted, crew members should give them a wide berth of at least 100m). We will have safety protocols in place for predatory wildlife. The only impact we should have on flora is when we are hiking along the land and we may step on small plants. We will not disturb the flora any further than this. There are no current communities nearby this area, and members of the community of Arviat did not present concern of our presence in this area.

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

Angikuni Lake is one of several lakes located along the Kazan River. The lake is notable for rocky outcroppings of the Precambrian shield, with many islands. Small shrubs and stunted coniferous trees are present in the lows of the landscape.

Description de l'environnement existant : Environnement biologique

The Qamanirjuaq caribou herd migrate through this area every year. Grizzly bears, wolverine, muskox, and wolves also inhabit the area.

Description de l'environnement existant : Environnement socio-économique

Presently there are no communities that inhabit the immediate area. It was once an area in which Inuit ancestors lived and were relocated from. Members from Arviat do not often visit this area to hunt or fish, though it is visited occasionally (as per communications with the HTO of Arviat).

Miscellaneous Project Information

Identification des répercussions et mesures d'atténuation proposées

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Répercussions cumulatives

This is a short term project, and on its own will not present cumulative effects.

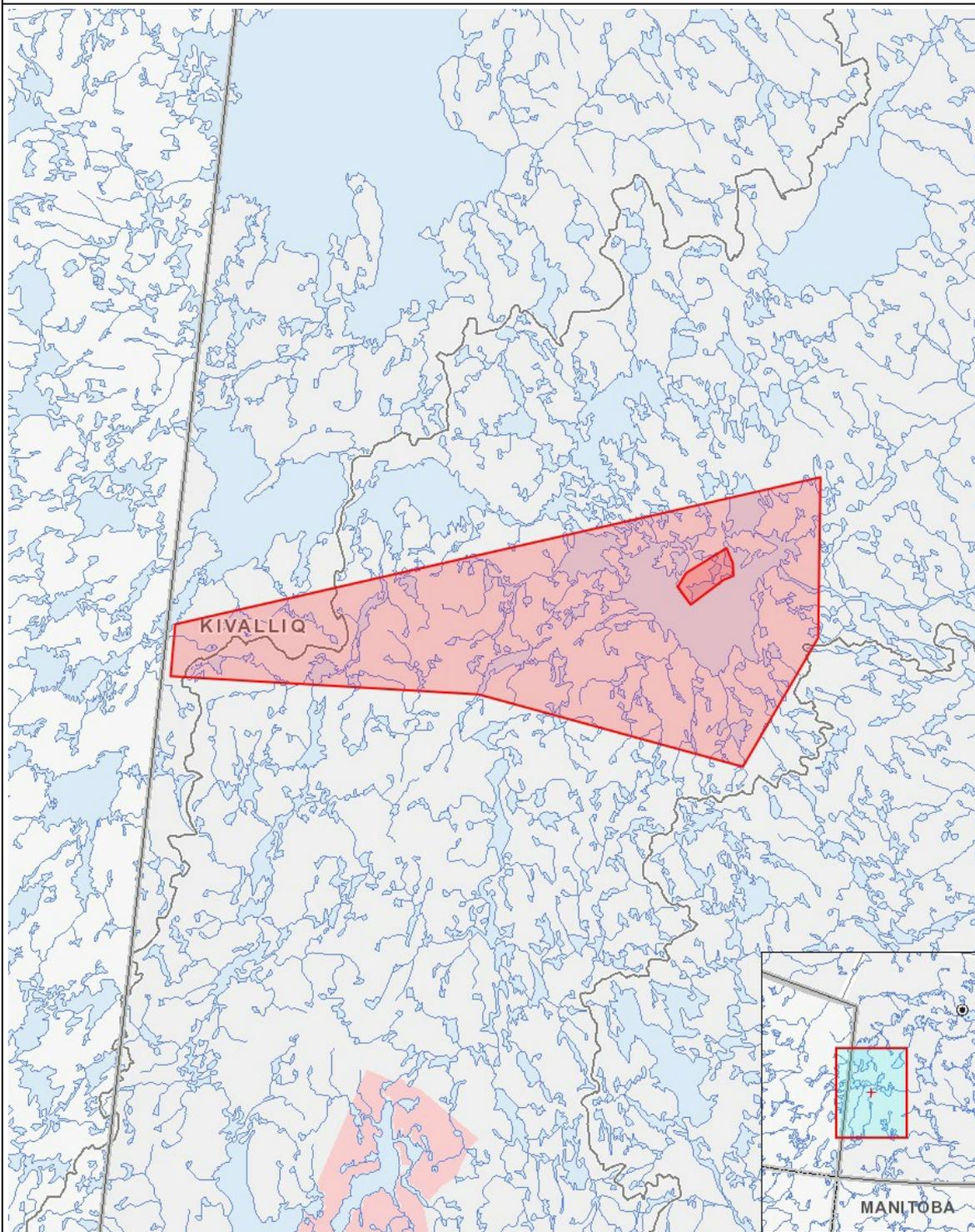
Impacts

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																									
Camp	-	-	-	-	M	-	-	M	M	-	-	M	-	-	M	M	M	-	-	U	P	-	-	-	-
Désaffectation																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Site du projet



Liste des géométries de projet

1	polygone	Study area 2023
2	polygone	Field camp