



Nunavut Planning Commission



PUBLIC REGISTER



Project Proposal Notices

Project Proposals

Public Registry - Project Proposals

NPC 149907: COPPERMINE

Proposal Status: Conformity Determination Issued

Overview

Documents

Questionnaire

Project Overview

Type of application: Amendment

Proponent name: Donald Penner

Proponent company: Arctic Copper Corp

Project Description:

Arctic Copper Corp plans to conduct a small program of core drilling on its claims west of the Coppermine River approximately 40km southwest of Kugluktuk to evaluate its potential to host economically viable copper deposits. The program would consist of approximately 1500 metres in 10 to 15 holes in its first phase of drilling. This will be helicopter supported for the entire drill operation, including drill moves and daily crew change. The crew will be housed in Kugluktuk thereby eliminating the need for a field camp. The job will take approximately 4 weeks and will take place in early spring or late summer of 2023. The Company will not operate during the sensitive periods of caribou migration and calving. The drill will sit on 8"x8"x12' timbers placed on the tundra so as to minimize the disturbance of the tundra surface. Water will be sourced from nearby streams or small lakes. Drill water return will be fed into tanks, or possibly a centrifuge, to settle out the sediment and drill cuttings so that the water can be re-used for continued drilling. Drill core will be transported to Kugluktuk for logging, sampling and storage. Arctic Copper Corp and/or the drilling company will be looking to hire part of its crew from the local labour pool in Kugluktuk. The drilling will take place primarily on the company's ACB 8, ACSD 6 and ACJ 2 claims.

Project Schedule

Start Date: 2023-04-01

End Date: 2023-09-30

Project Map

List of project geometries:

Id	Geometry	Location Name
9551	polygon	Arctic Copper Corp Mineral Claims
9757	point	2658142

NPC Planning regions:

No Approved Plan



Project Land Use and Authorizations

Project Land Use:

Mineral Exploration

Mineral Exploration

Licensing Agencies:

Government of Canada - Crown-Indigenous Relations and Northern Affairs Canada

Nunavut Water Board

Material Use

Equipment:

Type	Quantity	Type	Use
4cyl Kubota Deisel Water Pump	2	1m x 1.5m	One pump for supplying water to drill, the other for downhole bit cooling.
Electric Barrel Pump	1	5kg	To pump fuel from barrels to drill tank
ATV	1	1.5m x 1m	To check water supply pump and for moving small items between short drill moves.
Hydracore 2000 Drill	1	3x5m	To obtain core samples to explore for copper mineralization.

Fuel Use:

Type	Container	Capacity	Use
Diesel	2	205	To fuel drill and pumps.
Gasoline	2	25	2 x 25 litre gasoline containers will be used for ATV fuel (if an ATV is used on the project).
Propane	1	100	For water heater or thawing water lines in freezing conditions.

Hazardous Material and Chemical Use:

Type	Container	Capacity	Use
Motor Oil	2	5	Engine Lubricant
Hydraulic Oil	2	5	Hydraulic Pumps on the drill.
Rod Grease	1	5	Used to lubricate rods during hole re-entry if difficult hole conditions exist. Under normal drilling conditions and given that our holes will be very shallow, this product is not likely to be used very much if at all.
EP2 Grease	1	5	Machinery Lubricant
Saf-Kote	1	5	Drilling fluid additive for bit lubrication.

Water Consumption:

Daily Amount (m ²)	Retrieval Method	Retrieval Location
20	small un-named creeks and ponds within the activity areas shown on the Project Map portion of this application. And application for a water license from the Nunavut Water Board is in progress.	4 cyl Kubota diesel water pump. Water intake will have a screen to protect any fish in the water.

Waste and Impacts

Environmental Impacts:

Water: There will not be any pollutants discharged into any water body. All water pumped downhole for drill bit cooling that is returned to surface will be collected in a hand-dug sump and pumped into a settling tank for further drill use. Using returned water will substantially reduce the daily water consumption during drilling. There will not be any deleterious contaminants polluting the ground or water sources during the drill program. Land: ATV's may be used for transporting crews from drill site to pump stations or for moving some of the lighter drill equipment for short moves. The low pressure ATV tires enable transport over dry tundra with minimal to no impact to the ground surface. We have estimated that the ATV's may traverse as much as 3000 metres during the course of the program and as such have applied for 0.6 hectares of disturbance given a 2 metre traverse width. Drill Sites: The drill to be used has a very small footprint requiring approximately a 3x5 metre area to be leveled. For the purpose of this Land Use Application, we have used a 10 x 10 metre area for each drill site, however, the drill will only occupy a 3 x 5 metre area. On gentle slopes, the drill foundation can be blocked with timbers to provide a level operating surface without much surface disturbance. On moderate to steeper slopes, a minor amount of excavation by hand (pick and shovel) may be necessary to provide a level area for the drill. In these instances, on completion, the area will be re-contoured as best as possible. In all cases, the drill holes will be cemented shut and monumented with a wooden stake to mark it for future reference. We anticipate as many as 15 holes to be drilled. SUMMARY OF TOTAL AREA OF DISTURBANCE Drill Sites: 10 x 10 m/site x 15 sites = 0.15 hectare ATV Trail: 2m x 3 km (max) = 0.6 hectare Total Disturbance Area = 0.75 hectares

Waste Management:

Waste Type	Quantity Generated	Treatment Method	Disposal Method
Combustible wastes	1 Cubic Metre	None	Incineration
Hazardous waste	20 litres	Disposal and recycling.	Oil changes for the drill will be collected in 5 gallon pails and flown out to Kugluktuk to be taken to appropriate disposal and recycling facilities.
Non-Combustible wastes	1 cubic metre	None	Collection and transport out to appropriate disposal in Kugluktuk
Other, Drill Cuttings; approx 0.1 cubic metres per hole	1 Cubic Metre	None	Settled out in sump, then buried.

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