

Project Dashboard

Cambridge Bay New Power Plant and Bulk Fuel Storage Facility (149565)

Proposal Status: Conformity Determination Issued

Project Overview

Type of application: **New**

Proponent name:	Megan Larose
Company:	Qulliq Energy Corporation

Schedule:

Start Date:	2026-04-01
End Date:	2066-03-31
Operation Type:	Annual

Project Description:

Qulliq Energy Corporation (QEC) is proposing to construct and operate a new power plant in the Hamlet of Cambridge Bay located in the Kitikmeot Region of Nunavut (the Project). The proposed new power plant will include a five-engine generation facility (proposed generating capacity of 5,500 kilowatts), will be designed for a 40-year life, and incorporate new technology to improve reliability, efficiency, operation, and safety. Construction will include a fuel storage system consisting of a 90,000 litre double wall horizontal fuel tank, two vertical fuel tanks with 2 million litre capacity, secondary containment berm, and an approximately 400 metre long above ground fuel pipeline to connect to the PPD facility, and appropriate fuel pumping facilities. The site will also include space for a Quonset garage, concrete pad for transformers, storage for two sea cans, pole racks, and oil and glycol drum storage and containment. The proposed location for the new power plant is on the east side of Tank Farm Road (Road R36), approximately 2 kilometres (km) southwest of the Hamlet of Cambridge Bay, approximately 1 km east of the Cambridge Bay Airport, and approximately 400 metres northeast of the PPD bulk fuel storage facility.

Personnel:

Persons:	50
Days:	550

Project Map

List of all project geometries:

ID	Geometry	Location Name
7847	point	Cambridge Bay Proposed Power Plant (four corners)
7848	polygon	Cambridge Bay Proposed Power Plant Lot (area)

Planning Regions:

Qikiqtani

Affected Areas and Land Types

Municipal

Settlement Area

Project Land Use and Authorizations

Project Land Use

Permanent Structures

Pipeline

Licensing Agencies

NIRB: Screening Decision Report

GN-CGS: 0

NAD: 0

NWB: Type B Licence

Other Licensing Requirements

No data found.

Material Use

Equipment

Type	Quantity	Size	Use
Back Hoe/Excavator	1		excavation, land development, foundation
Bull Dozer	1		civil works, grading
Compactor	1		foundation construction
Fork Lift	1		moving/transporting materials
Dump Truck	2		gravel/rock and other material transportation
Mobile Tower Crane	1		lift/place materials and equipment to height
Pile Boring Machine	1		pile construction
Tele-handler	1		lifting/moving materials
Concrete Mixer	2		mixing and pouring concrete
Welding/Steel Cutting Machine	2		welding
Truck Trailer	1		transporting materials
Generator	5		Five generators will be installed in the power plant with a generating capacity of 5,500 kilowatts

Fuel Use

Type	Container(s)	Capacity	UOM	Use
Diesel	1	90000	Liters	Fuel will be used to run the generators

				for the power plant. Fuel will be stored in an above ground horizontal fuel storage tank.
Diesel	2	2000000	Liters	Fuel will be used to run the generators for the power plant. QEC bulk fuel supply. Fuel will be stored in vertical tanks within a secondary containment berm.
Diesel	1	0	Liters	Fuel will be required during construction for all equipment used on site. Fuel storage and handling during construction will be the responsibility of the contractor. Details regarding the location and volume of fuel storage and location of equipment refueling during

construction are not known at this time. The contractor will be required to have a fuel management plan.

Hazardous Material and Chemical Use

Type	Container(s)	Capacity	UOM	Use
solvent	4	205	Liters	generator maintenance/operation
engine oil	16	205	Liters	generator operation
propylene glycol	1	2000	Liters	power plant operations, heat transfer

Water Consumption

Daily Amount (m³)	Retrieval Method	Retrieval Location
0	to be determined by contractor	to be determined by contractor

Waste and Impacts

Environmental Impacts

Please refer to Table 4 of the attached Cambridge Bay New Power Plant Project Description.

Waste Management

Waste Type	Quantity Generated	Treatment Method	Disposal Method
Combustible wastes	unknown	none	Disposal of construction waste will be the responsibility of the contractor. If permitted by the Hamlet, some waste may be disposed of at the local landfill.

Combustible wastes	unknown	none	<p>During operations, QEC will dispose of domestic waste in the local landfill if permitted by the Hamlet. Waste that is not permitted in the local landfill will be shipped south as part of QECs annual waste shipment. Amount of liquid waste during operation will vary annually.</p>
Hazardous waste	2460 litres	none	<p>Waste fuel/glycol will be collected in drums, stored within secondary containment and shipped south for disposal. Amount of non-combustible waste generated during operation will vary annually. Material will be stored in quatrex bags or other appropriate</p>
Non-Combustible wastes	200 litres	none	

Overburden (organic soil, waste material, tailings)	unknown	none	<p>containment and shipped south for disposal.</p> <p>Disposal of overburden and soil/rock excavated for power plant to be determined by the contractor in communication with the Hamlet.</p> <p>Volume to be determined. If possible, some overburden material may be used to build up other areas within the plant site.</p>
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