

Project Overview

Type of application: **New**

Proponent name:	Raquel Labranche
Company:	Qikiqtaaluk Environmental

Schedule:

Start Date:	2020-05-06
End Date:	2021-05-06
Operation Type:	Annual

Project Description:

QE currently operates a hazardous waste facility in Iqaluit. We would like to purchase an outdoor biomedical waste incinerator (see i8-M50 PDF attached in this application) to dispose of different types of waste including sharps, pathological and anatomical waste, surgical dressings, bandages, expired medication, pharmaceutical waste, documents, animal carcasses. We do not intend to burn any heavy metals. We would be incinerating approximately 1.5 – 2 m3 of waste daily (with an estimated weight of around 500-750 kg/weekly) and the ash will be sampled and either disposed of at the local landfill or sent south. The waste is produced by the Qikiqtani General Hospital, community health centres, dentists, correctional centers, Veterinarian, RCMP, etc. Right now, we are packaging all their waste in UN-rated boxes and storing them in 20' containers to be disposed of in the south. We would like to receive and install the incinerator this summer and have at least 2 trained operators onsite to operate the unit. The unit would be used about twice a week year-round. The air quality and wind direction will be monitored. We will refer to the Guideline for the Burning and Incineration of Solid Waste, Dept. of Environment, Nunavut Govt. Oct. 2010, Rev. 2012 and the CCME «Guidelines for the Management of Biomedical Waste in Canada rev. 1992 as guidelines for our operations. We will also update our Hazardous Waste Management Site registration. Please let us know of any other applicable regulations or guidelines not previously mentioned. We do not intend to alter the water use and waste disposal conditions covered under the current Water Licence (attached in this application). We do not believe the unit will create more risks for freshwater. Please advise us if an amendment must be made for the addition of the incinerator if any other modifications are deemed necessary or are recommended. The I8-M50 unit will be operated using diesel fuel and will be installed in a 20 ft container (see containerized example attached). The container will include a pre-installed generator, lighting, flooring and mounted control panel. A fuel tank will be installed inside the container complete with all the necessary piping connections. The unit has a secondary chamber with a retention time of 2 sec at 850degC to reburn the exhaust gases from the waste. The emissions report demonstrates that it is below the EU standards (see Emissions EU and Emissions testing attached). The unit will never be left unattended while it is in use and it will be on a fenced lot and not accessible to the public. There will be a fire extinguisher near the unit. Thank you for reviewing this application and transferring the information to applicable authorization agencies.

Personnel:

Persons:	2
Days:	261

Project Map

List of all project geometries:

ID	Geometry	Location Name
6361	point	New project geometry

Planning Regions:

Qikiqtani

Affected Areas and Land Types

Municipal

Settlement Area

Project Land Use and Authorizations

Project Land Use

Site Cleanup/Remediation

Licensing Agencies

NWB: Type B Licence

Other Licensing Requirements

No data found.

Material Use**Equipment**

Type	Quantity	Size	Use
Incinerator i8-M50	1	1.52m x 0.92m x 4.4m	Incineration of waste. See project description. And see Product PDF attached

Fuel Use

Type	Container(s)	Capacity	UOM	Use
Diesel	1	1000	Liters	To operate incinerator

Hazardous Material and Chemical Use

Type	Container(s)	Capacity	UOM	Use
No records found.				

Water Consumption

Daily Amount (m ³)	Retrieval Method	Retrieval Location
0		

Waste and Impacts**Environmental Impacts**

See project description. Air quality must be monitored and residual ash must be sampled and disposed of accordingly.

Waste Management

Waste Type	Quantity Generated	Treatment Method	Disposal Method
No data found.			