

Appendix **B**

8BC-EUR1621 Summary of Renewal Application

- English

8BC-EUR1621
Summary of Renewal Application
Water Licence
High Arctic Weather Station
Eureka, Nunavut
June 2021

Background

The Eureka High Arctic Weather Station (HAWS; the site) is located on the north side of Slidre Fiord, at the north-western tip of Fosheim Peninsula, Ellesmere Island. Eureka station coordinates are 79.59.41N and 85.48.48W.

The Eureka HAWS occupies a federal land reserve No. 1021 and encompasses an area of approximately 1125 hectares. The site has been operated by Environment and Climate Change Canada (ECCC) since April 7, 1947.

The primary purpose of the Eureka HAWS is to collect weather information in order to produce public weather forecasts. In addition, the Eureka HAWS provides support to the Arctic aviation community. The Eureka HAWS also serves as a staging location for other science-based activities in the High Arctic, various exploration projects, and some tourism.

ECCC provides the necessary infrastructure to support activities at the site. This includes accommodations, fuel supplies, electrical power, transportation, aircraft landing strip, cooking operations, and water and sewage services.

Water Licence Renewal

This renewal application is being submitted by ECCC in order to request a renewal of the existing Eureka HAWS water licence, which was previously renewed for a period of five years in 2016 by the Nunavut Water Board. This renewal application is to account for continuing operations of the Eureka HAWS and operational projects associated with the site.

Requested Changes

- Addition of Blacktop Creek as temporary use only during construction season (June to October)
- Estimated quantities of water to be used from each source:
 - Station Creek – Between approximately 5,850 to 8,775 m³ of water per year.
 - West Remus Creek – Between approximately 600 to 800 m³ of water per year.
 - Blacktop Creek – Between approximately 300 to 425 m³ of water per year.
- Purpose of water use: All water from Station Creek is to be used for domestic purposes at the Eureka HAWS, including the temporary construction camp(s). All water from West Remus Creek and Blacktop Creek is to be used for dust suppression purposes only.
- Temporary storage of contaminated soils

- Quarry expansion activities at West Remus Creek Quarry will include the installation of culverts to support a maximum of two temporary (non-engineered) access crossings.
- An Amendment request for opening burning of non-hazardous wood wastes

Summary of Attachments

Document	Attachment
Topographical map, indicating components of the undertaking	A
Executive Summary - English	B
Executive Summary - Inuktitut	C
Emergency Plan for Petroleum and Allied Petroleum Products	D
Part H, Item 2 – Revised “Summary of Operation and Maintenance Procedures for Drinking Water, Sewage, Solid Waste Disposal and Waste Treatment Facilities”	E
Part I, Item 1 - Revised “Abandonment and Restoration Plan”	F
Part J, Item 9 – Revised Quality Assurance / Quality Control Plan	G
Letter to CIRNAC regarding contaminated soils stockpile	H
CIRNAC Quarry Permit Application and Quarry Operation Plan	I
Waste Burn Request	J
Fisheries and Oceans Canada Request for Review as part of Eureka HAWS two Temporary Crossings	K