

Environmental Protection Operations Directorate
Prairie & Northern Region
5019 52nd Street, 4th Floor
P.O. Box 2310
Yellowknife, NT X1A 2P7

ECCC File: 5600 000 001/002
WLWB File: W2020X-0005, W2020L8-0003



February 10, 2021

via email: rbams@wlwb.ca

Ryan Fequet
Executive Director
Wek'èezhii Land and Water Board
#1-4905 48th Street
Yellowknife, NT X1A 3S3

Dear Ryan Fequet:

RE: Information Requests Resulting from Kweṯı̱ᑲà (Rayrock) Technical Session – Type A Water Licence and Type A Land Use Permit Applications (W2020L8-0003 and W2020X-0005)

Environment and Climate Change Canada (ECCC) would like to thank the Wek'èezhii Land and Water Board (WLWB or Board) for the opportunity to participate in the technical workshop to discuss Crown-Indigenous and Northern Affairs Canada – Contaminants and Remediation Division's (CIRNAC-CARD's) Type A Water Licence (W2020L8-0003) and Type A Land Use Permit (W2020X-005) Applications for the Rayrock Project.

ECCC acknowledges the receipt of Information Request (IR) #2 that resulted from the technical workshop, per the January 29, 2021 letter from the Board to all parties.

IR #2 for Environment and Climate Change Canada (ECCC):
To provide additional historical meteorological data, if available, and technical advice on precipitation and flood risk modelling that may be relevant to the Rayrock site.

ECCC's response to this IR is provided based on our mandate in the context of the *Canadian Environmental Protection Act*, the pollution prevention provisions of the *Fisheries Act*, the *Migratory Birds Convention Act*, and the *Species at Risk Act*.



IR Response

ECCC has a great deal of historical meteorological data that are available to the public. There are a few ways to access these data.

1. The E3C weather site https://weather.gc.ca/index_e.html. Under Weather Information, click 'Past Weather' (<https://climate.weather.gc.ca/>) then click on 'Engineering Climate Datasets' (https://climate.weather.gc.ca/prods_servs/engineering_e.html). To access data downloads click on either:
 - a. 'Canadian Weather Energy and Engineering Datasets (CWEEDS)' or
 - b. 'Canadian Weather Year for Energy Calculation (CWEC)'.
2. All publically available ECCC historical data can be accessed from https://climate.weather.gc.ca/historical_data/search_historic_data_e.html in various formats and various time lengths.
3. <https://climatedata.ca/>.

For assistance with or questions about the publically available historical meteorological data, ECCC's Engineering Climate Services Unit can be contacted at ec.scg-ecs.ec@canada.ca.

The Rayrock Project site is surrounded by weather monitoring locations (Figure 1) that feature sufficient time series of weather observations, with similar climate and geomorphology, to the Project site. An applied interpolation of the data between all these locations will improve the quality of data/results compared to using weather data from one location (i.e. Yellowknife).

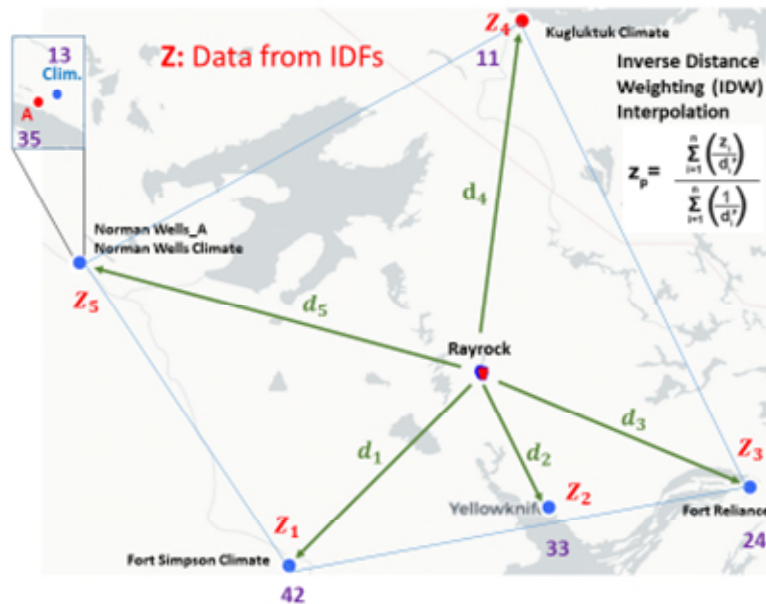


Figure 1: Locations with long term weather information near the Rayrock Project site

ECCC is open to meeting with CIRNAC-CARD and their consultants to discuss the historical meteorological data and our advice on precipitation and flood risk modelling that may be relevant to the Rayrock site in more detail.

If you need more information, please contact Cari-Lyn Epp at (306) 491-2372, Cari-Lyn.Epp@Canada.ca or Anna Graham at (819) 938-4051, Anna.Graham2@Canada.ca.

Sincerely,

A handwritten signature in black ink, appearing to read "Margaret", with a long horizontal flourish extending to the right.

Margaret Fairbairn
Acting Regional Director

Attachment

cc: Jody Small, Acting Head, Environmental Assessment North (NT and NU)
Cari-Lyn Epp, Senior Environmental Assessment Officer
Anna Graham, Environmental Assessment Officer