

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

ECCC File: 6200 000 030
NWB File: 1BR-THI2027



November 25, 2020

via email at: licensing@nwb-oen.ca

Richard Dwyer
Manager Licencing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Dear Richard Dwyer,

RE: 1BR-THI2027 Environmental Waste Processing Facility Iqaluit Project, Qikiqtaaluk Environmental Inc. – Quality Assurance & Quality Control Plan

Environment and Climate Change Canada (ECCC) has reviewed the Quality Assurance & Quality Control Plan (QA/QC Plan) submitted to the Nunavut Water Board (NWB) for water licence 1BR-THI2027 by Qikiqtaaluk Environmental Inc. (the Proponent).

ECCC's specialist advice is based on our mandate pursuant to the *Canadian Environmental Protection Act* and the pollution prevention provisions of the *Fisheries Act*.

The following comments are provided:

1. Glossary

Reference:

- Quality Assurance and Quality Control Plan – Environmental Waste Processing Facility (Qikiqtaaluk Environmental Inc.; September 24, 2020)

Comment:

The QA/QC Plan includes several abbreviations which are not defined. Inclusion of a glossary would support understanding of abbreviations and any technical terms used in the document.

Recommendation: ECCC recommends that a glossary be added to the Quality Assurance and Quality Control Plan to define abbreviations and any technical terms.



2. Control samples

Reference:

- Section 2.2 (Sampling Equipment and Methodology) of Quality Assurance and Quality Control Plan – Environmental Waste Processing Facility (Qikiqtaaluk Environmental Inc.; September 24, 2020)

Comment:

Section 2.2 (Sampling Equipment and Methodology) of the QA/QC Plan mentions replicate samples and field duplicates but does not mention field blanks or travel blanks, which are standard control samples. Including field and travel blanks in the QA/QC Plan would provide quality control monitoring for sample collection and sample transportation, respectively.

Recommendation:

ECCC recommends that the Quality Assurance and Quality Control Plan be updated to incorporate field blanks and travel blanks.

3. Field parameters

Reference:

- Section 2 (Field Sampling) of Quality Assurance and Quality Control Plan – Environmental Waste Processing Facility (Qikiqtaaluk Environmental Inc.; September 24, 2020)

Comment:

Section 2 (Field Sampling) of the QA/QC Plan does not indicate whether field measurements of pH and temperature will be collected. Collecting field data could assist in interpreting other monitoring results.

Recommendation:

ECCC recommends that appropriate field parameters (such as field pH and field temperature) are recorded and reported.

4. General comment

Reference:

- Quality Assurance and Quality Control Plan – Environmental Waste Processing Facility (Qikiqtaaluk Environmental Inc.; September 24, 2020)

Comment:

The QA/QC Plan does not indicate whether field notes will be recorded. Recording field notes such as weather conditions and observations at the time of sampling could support the interpretation of monitoring data.

Recommendation:

ECCC recommends recording field notes at the time of sampling (e.g., weather conditions, watercourse/waterbody conditions, effluent observations), and using this information to support the interpretation of monitoring data.

If you need more information, please contact Victoria Shore at Victoria.Shore@canada.ca.

Sincerely,

A handwritten signature in black ink, appearing to read "Shore".

Victoria Shore, Senior Environmental Assessment Officer
Environmental Protection Operations Directorate, Prairie Northern Region

cc: Brian Asher, Acting Head, Environmental Assessment North (NT and NU)