



**Environmental Assessment Report:
AREVA - McClean Lake Operation -
UMOL-MINEMILL-McCLEAN.01/2017
Licence Renewal**

February 2017



EXECUTIVE SUMMARY

The Canadian Nuclear Safety Commission (CNSC) conducts environmental assessments (EA) under the *Nuclear Safety and Control Act* (NSCA) for all projects in accordance with its mandate to ensure the protection of the environment and the health of persons. The safety component of CNSC's mandate is covered in the safety case assessment carried out for all projects.

This EA Report, written by CNSC staff for the Commission and the public, describes the findings of the EA under the NSCA completed for the licence application by AREVA Resources Canada Inc. (AREVA) to renew the McClean Lake Operation Uranium Mine Operating Licence (UMOL-MINEMILL-McCLEAN.01/2017 issued July 1, 2009 and expiring June 30, 2017). This licence covers the operation and modification of the McClean Lake Operation for the mining of uranium and the production of uranium concentrate; and the ability to import, possess, use, store, transfer and dispose of nuclear substances and radiation devices.

This EA Report includes CNSC staff's assessment of the licence application and the documents submitted in support of the application, annual environmental monitoring reports, the results of previous studies, compliance verification activities (e.g., inspections, audits, and reviews) conducted at the McClean Lake Operation, as well as the findings of CNSC's Independent Environmental Monitoring Program (IEMP).

The EA Report focuses on items that are of current public and regulatory interest such as releases to air and surface water, as well as the health of the surrounding human populations, and the protection of groundwater, surface water, aquatic, and terrestrial environments.

CNSC staff's conclusions are based on, but are not limited to, the following:

- AREVA's environmental protection programs which meet CNSC regulatory requirements.
- The findings and methodology of AREVA's 2016 updated Environmental Risk Assessment (ERA).
- The results of CNSC's 2016 IEMP that confirm the public and the environment in the vicinity of the McClean Lake Operation are protected from the releases of the facility.

Based on the EA under the NSCA conducted for this licence application, CNSC staff conclude that AREVA has made, and will continue to make, adequate provision for the protection of the environment and the health of persons.