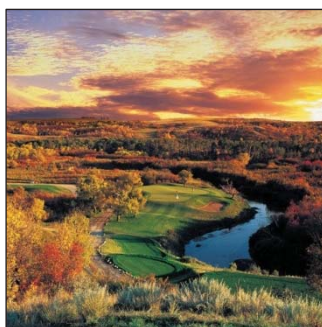


Ministry of the Economy



2017 Institutional Control Report

(The Reclaimed Industrial Sites Act)

For the Period April 1, 2012–March 31, 2017

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Management's Responsibility for Reports



Laurie Pushor, Deputy Minister,
Economy

In accordance with The Reclaimed Industrial Sites Act (Act) and The Reclaimed Industrial Sites Regulations (Regulations) the requirement to establish and enforce the Institutional Control Program is the responsibility of the Minister of Energy and Resources under the management of the Ministry of the Economy.

Under the Act, a report to be known as the Institutional Control Report is to be prepared every five years respecting the status of all closed sites accepted into the Institutional Control Program. The Program came into effect in 2007, and the first report was tabled in April 2012 as required under the Act and this report for the period April 1, 2012 – March 31, 2017 represents the second such report prepared in accordance with the requirements of the Act.

Section 15(3) of the Act requires the report to be tabled on or before April 1, 2017.

A handwritten signature in blue ink that reads "Laurie Pushor".

Laurie Pushor
Deputy Minister
Economy
Regina, Saskatchewan
March 30, 2017

Introduction

The Reclaimed Industrial Sites Act (Act) and The Reclaimed Industrial Sites Regulations (Regulations) were enacted in 2007. The Act and Regulations establish a uniform framework for returning Crown land held under surface lease back to the Province when mining activities have been completed. This includes full decommissioning and reclamation of the site to acceptable standards. It also establishes clear custodial and funding responsibility for the long-term monitoring and management of the rehabilitated site.

Saskatchewan was the first province in Canada to have comprehensive legislation for these purposes.

The Act and Regulations enabled establishment and enforcement of the Institutional Control Program (Program). The primary components of the Program are the Institutional Control Registry and the Institutional Control Funds.

The Program is managed and administered by the Ministry of Economy (ECON) for the Minister of Energy and Resources and publishes the five year Institutional Control Report in accordance with the Act and Regulations. It is considered current and correct to March 31, 2017. ECON also publishes The Institutional Control Monitoring and Maintenance Fund and the Unforeseen Events Fund Annual Report are published each fiscal year under separate cover.

Program Purpose

In 2005, Saskatchewan initiated the development of an institutional control framework for the long-term management of decommissioned mine and mill sites on provincial Crown land. There were a number of related objectives:

- ensure the health, safety and well-being of future generations;
- provide greater certainty and closure for the mining industry; and,
- recognize past stated obligations by the province, as well as national and international obligations for storage of radioactive materials.

The primary components of the Program are the Registry and the two Institutional Control Funds (Institutional Control Monitoring and Maintenance Fund; Institutional Control Unforeseen Events Fund). The Registry's work will include the maintenance of records of the location of a closed site and its former operator, site description, historical records of activities, site maintenance, monitoring and inspection, and future allowable land use for the site.

To address the province's risk of accepting sites into custodial responsibility, the costs of future monitoring and maintenance, and the potential cost of unforeseen future events, the holder responsible for an individual site establishes dedicated site-specific funding. The Monitoring and Maintenance Fund will pay for long-term monitoring and maintenance. The Unforeseen Events Fund will pay for unforeseen future events requiring additional site activities. The Funds are managed by the Ministry of Energy and Resources and reports are published annually.

Program Activities

With the establishment of the Program in 2007, the Ministry of Economy consulted with stakeholders to create a discussion paper: Institutional Control Program: Post Closure Management of Decommissioned Mine/Mill Properties Located on Crown Land in Saskatchewan. The document outlines how the Program would operate and the requirements for a company to transfer a site to provincial custody and enter a site into the Registry. The document is available from the Ministry of Economy website.

The discussion paper noted above, the Institutional Control Registry Report, the Act and Regulations and the annual reports on the Institutional Control Funds are available in hardcopy from the Ministry of Economy or through the Ministry website at www.economy.gov.sk.ca.

The Registry maintains a formal and comprehensive record of all closed sites. It also maintains a record of funds deposited on acceptance of a site into the Registry, monies expended for monitoring and maintenance activities and the balance held on account for that site for future site activities. Registry records include information on the location, former operator, a site description, historical records of activities, site maintenance, monitoring and inspection documentation, as well as future allowable land use for the site.

The ministry initiated discussion with stakeholders in 2012 to determine paths forward for investment strategies for the Institutional Control Monitoring and Maintenance Fund and Unforeseen Event Fund ("the Funds") and established a Fund Advisory Committee in the 2013-14 fiscal year to provide investment recommendations to the ministry.

The Act requires a mandatory review within five years of coming into force and the ministry initiated the review with consultation with stakeholders, held a multi-stakeholder consultation meeting in 2015 and continued consultation in 2016. The consultation has identified issues raised by the ministry and stakeholders that would require an amendment to the Act. The anticipated timeline is for finalization of an amendment in 2017 so that it may advance to promulgation and enactment. Once the amendment has been approved the ministry would proceed forward with the required regulatory amendments.

As of March 31, 2017, no additional sites have been accepted into the Program since the 2012 report. The ministry is reviewing applications for 14 properties and approval is anticipated in 2017. A total of six sites are in the Program: one decommissioned gold mine (Contact Lake), and five decommissioned uranium mines (Beaverlodge). In 2014, the ministry contracted the first scheduled Contact Lake and Beaverlodge site monitoring inspections. The inspections were completed in August and September 2014, with the final reports received in October 2014. The inspections were completed on time and on budget with no significant environmental or public safety concerns identified. The ministry is reviewing recommendations from the inspections to determine if any additional activities are required by regulators. The reports can be requested from the ministry. Funding for the inspections was provided by the site-specific monies in the Monitoring and Maintenance Fund

The summary statement of information for the six sites is presented in the Appendix and is published by the ministry as the Institutional Control Registry Report.

Future Activities

In the next five years, the review of the Act will be completed and the finalization of any amendment that may be required is planned for 2017 so that it may advance to promulgation and enactment. Once the amendment has been approved the ministry would immediately proceed forward with the required regulatory amendments.

In 2017, the ministry is planning to finalize approval of the applications for 14 properties in the Beaverlodge area to be accepted into the Registry. In the upcoming five years, it is expected the Program will receive applications for properties in the Beaverlodge area, the Uranium City area, the Cluff Lake area and the Flin Flon area.

Activities on those sites already in the Program will include inspection of the six sites. With the first inspection completed in 2014, the next inspections are scheduled for 2019. The results of the inspections will be held on file with the Registry and any remedial work required as a result of the inspections will be performed.

Institutional Control Registry Report

March 31, 2017

Institutional Control Registry – Report

This report is published by the Ministry of Economy as the manager and administrator of the Institutional Control Program and is considered current and correct to March 31, 2017.

IC REGISTRY	ICR #	ICR - 01
	Date of Acceptance	May 11, 2009
SITE DATA	Name	Contact Lake Mine
	Site Holder/Operator	Cameco Corporation
	Original Operator	Cameco Corporation
SITE CONTROLS	Land Use Restrictions	MUP #603089 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Inspection in 2014 indicated site is safe, stable and secure. No significant environmental or public safety concerns were identified. Revegetation had advanced and water samples met SSWQO and DWQO objectives. Next inspection is scheduled in 2019.
	Date of last monitoring	2014
	Date of last maintenance	N/A
SITE RECORDS	Site holder application	April 11, 2008
	Monitoring and Maintenance Plan	2014 and 2019 inspections include visual and water samples (stations 1.8.1 and 1.9). After 2024, inspections move to 10 years, after 2044 move to 25 years. Concrete cap replacement scheduled for 2079.
	Financial Assurance Plan/Type	Promissory Note
	Monitoring and Maintenance Fund Deposit	\$32,255.72
	Unforeseen Events Fund Deposit	\$6,451.14
	Decommissioning and Reclamation Plan	
	Mine/mill historical maps/plans	on file with Mines Branch ECON
	Saskatchewan Mineral Deposit Index	0619
	Mineral Assessment files	73P07-172 to 341 (28 files)
ADDITIONAL	Comments	see also SMDI records 0619a and 0619b

IC REGISTRY	ICR #	ICR - 02
	Date of Acceptance	October 22, 2009
SITE DATA	Name	Beaverlodge - K260 Zone, EMAR 16 Claim
	Site Holder/Operator	Cameco Corporation (licensee)
	Original Operator	Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region	Uranium City
	NTS	74-N-09
	UTM-North	6609552
	UTM-East	307798
	UTM Zone	12
	NAD	1983
SITE DESCRIPTION	Commodity/Mineral	Uranium
	Operational History	Beaverlodge:1952-1982 (K260 mined in 1978 &1979)
	Operation Description	K260 Zone (EMAR 16) open pit mining activity. Ore was mined in 1978 & 1979 and hauled to the mill.
	Release Description	Decommissioned and reclaimed: Open pit backfilled with waste rock and covered with local till.
SITE PERMITS	Release from Decommissioning and Reclamation	IR-16
	Operating Permit at time of Release	N/A
	Mineral Disposition	N/A
	Mineral Release/Crown Mineral Reserve	CR - 866
	Surface Lease Agreement	Surrendered by amendment
	Surface Lease Agreement at time of Release	'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: 200076 (K260)
	CNSC Exemption (if applicable)	K260 Zone: MSL 256 - Exempted March 14, 2009
	CNSC License at time of exemption (if applicable)	WFOL-W5-2120.01/2007
SITE CONTROLS	Land Use Restrictions	MUP #603100 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Inspection in 2014 indicated site is safe, stable and secure with no public safety or environmental concerns. Gamma levels generally as measured previously. Next inspection scheduled in 2019.
SITE RECORDS	Date of last monitoring	2014
	Date of last maintenance	2008
	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection. After 2034,site to be inspected every 10 years.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Deposit	\$137,895.78
	Unforeseen Events Fund Deposit	\$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11 Zone, 46 Zone & Eagle Area
	Mine/mill historical maps/plans	On file with Mines Branch - ECON
	Saskatchewan Mineral Deposit Index	1323
	Mineral Assessment files	74N09-0176
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

IC REGISTRY	ICR # Date of Acceptance	ICR - 03 October 22, 2009
SITE DATA	Name Site Holder/Operator Original Operator	Beaverlodge - 11 Zone, EMAR 19 Claim Cameco Corporation (licensee) Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region NTS UTM-North UTM-East UTM Zone NAD	Uranium City 74-N-09 6609026 307671 12 1983
SITE DESCRIPTION	Commodity/Mineral Operational History Operation Description Release Description	Uranium Beaverlodge:1952-1982 (11 Zone mined in 1975-6 & 1981) 11 Zone (EMAR 19) open pit mining activity. Ore was also mined from small slash pit. This zone was mined in 1975-6 & 1981 and hauled to the mill. Decommissioned & reclaimed: Open pit backfilled with waste rock.
SITE PERMITS	Release from Decommissioning and Reclamation Operating Permit at time of Release Mineral Disposition Mineral Release/Crown Mineral Reserve Surface Lease Agreement Surface Lease Agreement at time of Release CNSC Exemption (if applicable) CNSC License at time of exemption (if applicable)	IR-16 N/A N/A CR - 868 Surrendered by amendment 'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: 200077 (11 Zone) 11 Zone: MSL 257 - Exempted March 14, 2009 WFOL-W5-2120.01/2007
SITE CONTROLS	Land Use Restrictions Monitoring/Inspection Results Date of last monitoring Date of last maintenance	MUP #603100 - no development without application/approval - casual access permitted Inspection in 2014 indicated site is safe, stable and secure with no public safety or environmental concerns. Gamma levels generally as measured previously. Water quality, excepting uranium was less than SSWQO requirements. Next inspection scheduled in 2019. 2014 2008

SITE RECORDS	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection and water samples. After 2034, site to be inspected every 10 years.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Deposit	\$137,895.78
	Unforeseen Events Fund Deposit	\$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11 Zone, 46 Zone & Eagle Area'
	Mine/mill historical maps/plans	On file with Mines Branch - ECON
	Saskatchewan Mineral Deposit Index	1323
	Mineral Assessment files	74N09-0176
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

IC REGISTRY	ICR #	ICR - 04
	Date of Acceptance	October 22, 2009
SITE DATA	Name	Beaverlodge - 46 Zone, EMAR 21 Claim
	Site Holder/Operator	Cameco Corporation (licensee)
	Original Operator	Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region	Uranium City
	NTS	74-N-09
	UTM-North	6609079
	UTM-East	307118
	UTM Zone	12
	NAD	1983
SITE DESCRIPTION	Commodity/Mineral	Uranium
	Operational History	Beaverlodge:1952-1982 (46 Zone mined in 1980 &1981)
	Operation Description	46 Zone (EMAR 21) open pit mining activity and underground adit. This zone was mined in 1980 & 1981 and hauled to the mill.
	Release Description	Decommissioned & reclaimed: Adit backfilled with waste rock plug. Open pit partially backfilled with waste rock.
SITE PERMITS	Release from Decommissioning and Reclamation	IR-16
	Operating Permit at time of Release	N/A
	Mineral Disposition	N/A
	Mineral Release/Crown Mineral Reserve	CR - 869
	Surface Lease Agreement	Surrendered by amendment
	Surface Lease Agreement at time of Release	'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: - N/A
	CNSC Exemption (if applicable)	46 Zone: MSL 5121 - Exempted March 14, 2009
	CNSC License at time of exemption (if applicable)	WFOL-W5-2120.01/2007
SITE CONTROLS	Land Use Restrictions	MUP #603100 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Inspection in 2014 indicated site is safe, stable and secure with no public safety or environmental concerns. Gamma levels generally as measured previously. Next inspection scheduled in 2019.
	Date of last monitoring	2014
	Date of last maintenance	2008

SITE RECORDS	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection. After 2034, site to be inspected every 10 years.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Deposit	\$137,895.78
	Unforeseen Events Fund Deposit	\$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11
	Mine/mill historical maps/plans	Zone, 46 Zone & Eagle Area'
	Saskatchewan Mineral Deposit Index	On file with Mines Branch - ECON
	Mineral Assessment files	1323
		74N09-0176
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

IC REGISTRY	ICR # Date of Acceptance	ICR - 05 October 22, 2009
SITE DATA	Name Site Holder/Operator Original Operator	Beaverlodge - 32 & 42 Zone & EAGLE shaft, EAGLE 4 & 7 Claims Cameco Corporation (licensee) Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region NTS UTM-North UTM-East UTM Zone NAD	Uranium City 74-N-10 6610223 301083 12 1983
SITE DESCRIPTION	Commodity/Mineral Operational History Operation Description Release Description	Uranium Beaverlodge:1952-1982 (32 & 42 Zone mined in 1974 & 1975, Underground. The EAGLE 7 Claim originally hosted the 42 Zone open pit and the EAGLE Underground mine - originally developed in 1954. 42 Zone & 32 Zone, (EAGLE 4 Claim) consisting of shallow pits, were mined during 1974 & 1975. Decommissioned & reclaimed: 42 & 32 Zones partially backfilled with waste rock. Concrete cap placed over EAGLE Underground shaft.
SITE PERMITS	Release from Decommissioning and Reclamation Operating Permit at time of Release Mineral Disposition Mineral Release/Crown Mineral Reserve Surface Lease Agreement Surface Lease Agreement at time of Release CNSC Exemption (if applicable) CNSC License at time of exemption (if applicable)	IR-16 N/A N/A CR - 870 Surrendered by amendment 'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: 200008 (EAGLE shaft, 42 & 32 Zones) EAGLE shaft, 42 & 32 Zones: MSL 8 - Exempted March 14, 2009 WFOL-W5-2120.01/2007
SITE CONTROLS	Land Use Restrictions Monitoring/Inspection Results Date of last monitoring Date of last maintenance	MUP #603100 - no development without application/approval - casual access permitted Inspection in 2014 indicated site is safe, stable and secure with no public safety or environmental concerns. Gamma levels generally as measured previously. Next inspection scheduled in 2019. 2014 2008

SITE RECORDS	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection. After 2034, site to be inspected every 10 years. Cap replacement in 2079.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Deposit	\$137,895.78
	Unforeseen Events Fund Deposit	\$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11 Zone, 46 Zone & Eagle Area'
	Mine/mill historical maps/plans	On file with Mines Branch - ECON
	Saskatchewan Mineral Deposit Index	1360 (EAGLE shaft & 42 Zone), 1371 (32 Zone)
	Mineral Assessment files	74N10-0134
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

IC REGISTRY	ICR # Date of Acceptance	ICR - 06 October 22, 2009
SITE DATA	Name Site Holder/Operator Original Operator	Beaverlodge - 02 Zone, EAGLE claim Cameco Corporation (licensee) Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region NTS UTM-North UTM-East UTM Zone NAD	Uranium City 74-N-10 6609729 301917 12 1983
SITE DESCRIPTION	Commodity/Mineral Operational History Operation Description Release Description	Uranium Beaverlodge:1952-1982 (02 Zone mined in 1979) 02 Zone (EAGLE Claim) was mined in 1979 and resulted in small horseshoe shaped open pit. Decommissioned & reclaimed: 02 Zone partially backfilled with waste rock.
SITE PERMITS	Release from Decommissioning and Reclamation Operating Permit at time of Release Mineral Disposition Mineral Release/Crown Mineral Reserve Surface Lease Agreement Surface Lease Agreement at time of Release CNSC Exemption (if applicable) CNSC License at time of exemption (if applicable)	IR-16 N/A formerly ML5145 CR - 867 Surrendered by amendment 'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: 200075 (02 Zone) 02 Zone: MSL 255 - Exempted March 14, 2009 WFOL-W5-2120.01/2007

SITE CONTROLS	Land Use Restrictions	MUP #603100 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Inspection in 2014 indicated site is safe, stable and secure with no public safety or environmental concerns. Gamma levels generally as measured previously. Water quality was less than SSWQO requirements. Inspection scheduled in 2019.
	Date of last monitoring Date of last maintenance	2014 2008
SITE RECORDS	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection. After 2034, site to be inspected every 10 years.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Deposit	\$137,895.78
	Unforeseen Events Fund Deposit	\$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11 Zone, 46 Zone & Eagle Area'
	Mine/mill historical maps/plans	On file with Mines Branch - ECON
	Saskatchewan Mineral Deposit Index	1368
	Mineral Assessment files	74N10-0048; 0134; 0219
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

Glossary of Acronyms

CNSC: Canadian Nuclear Safety Commission
CR: Crown Reserve, a mineral reserve reference
ECON: Ministry of the Economy
EMAR: a site name reference, not specifically defined
ICR: Institutional Control Registry
IR: Alpha code reference for Release from Decommissioning and Reclamation
ML: Mineral Lease, a mineral disposition reference
MMF: Monitoring and Maintenance Fund
MSL: Alpha code reference for CNSC mine site licence
MUP: Miscellaneous Use Permit issued by the Ministry of Environment for land use
NAD: North American Datum, a geodetic system reference for site location
NTS: National Topographic System, a Canadian topographic map reference.
SMDI: Saskatchewan Mineral Deposit Index
UEF: Unforeseen Events Fund
UTM: Universal Transverse Mercator, a geographic system reference for site location
WFOL: Waste Facility Operating Licence, a CNSC licence reference