

NWB Annual Report

Year being reported: 2018

License No: 1BR-SAR1727

Issued Date: August 2, 2017

Expiry Date: August 1, 2027

Project Name: CAM-F Sarcpa Lake Long Term Monitoring

Licensee: Crown-Indigenous Relations and Northern Affairs Canada
(CIRNAC) Contaminated SitesMailing Address: PO Box 2200
Iqaluit, NU
X0A 0H0Name of Company filing Annual Report (if different from Name of Licensee please clarify
relationship between the two entities, if applicable):

N/A

General Background Information on the Project (*optional):

CAM-F was an intermediate DEW line site located on the Melville Peninsula, approximately 85 km west of Hall Beach, Nunavut. It was constructed in 1957 and operated until 1963. The site was used as a scientific research station between 1977 and 1988.

The remediation of the site was completed in April 2008. Activities included the demolition and disposal of buildings, structures and other debris, as well as the cleanup of hazardous materials. A non-hazardous waste landfill (NHWL) and secure soil disposal facility (SSDF) were constructed during remediation to contain non-hazardous materials and Tier II contaminated soils, respectively.

As per departmental commitments to monitor the NHWL and SSDF post-closure, a 25-year long term monitoring (LTM) program was initiated at CAM-F in August 2008 and includes visual inspections, groundwater sampling, soil sampling (as required), thermal monitoring (SSDF only), and natural environment monitoring. Refer to the *CAM-F Sarcpa Lake Long Term Monitoring Plan* (2007, 2017) for additional information.

Years 1, 2, 3, 4, 5, 7, and 10 of the LTM program were completed in 2008, 2009, 2010, 2011, 2012, 2014, and 2017 respectively. Future events will occur in 2022, 2027, and 2032 (years 15, 20, and 25 respectively).

Licence Requirements: the licensee must provide the following information in accordance with

Part B ▼ Item 1 ▼

A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s):	Monitoring Wells at NHWL and SSDF (See GPS Coordinates Page)	
Water Quantity:	1/day	Quantity Allowable Domestic (cu.m)
	0	Actual Quantity Used Domestic (cu.m)
	0	Quantity Allowable Drilling (cu.m)
	0	Total Quantity Used Drilling (cu.m)

Waste Management and/or Disposal

- ☒ Solid Waste Disposal
☐ Sewage
☐ Drill Waste
☐ Greywater
☐ Hazardous
☐ Other:

Additional Details:

Refer to the *CAM-F Sarcpa Lake Long Term Monitoring Plan (2007, 2017)* and the *CAM-F Sarcpa Lake 2017 LTM Plan* for details.

CIRNAC was not onsite in 2018. Thus, no water samples were collected and no solid waste was generated in 2018.

A list of unauthorized discharges and a summary of follow-up actions taken.

Spill No.: None (as reported to the Spill Hot-line)

Date of Spill: N/A

Date of Notification to an Inspector: N/A

Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

N/A

Revisions to the Spill Contingency Plan

Other: (see additional details) ▼

Additional Details:

A General LTM Spill Plan was submitted to the Nunavut Water Board on November 2, 2018 for consideration.

Revisions to the Abandonment and Restoration Plan

N/A - not applicable



Additional Details:

N/A

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

No progressive reclamation work was undertaken in 2018.

As per the *CAM-F Sarcpa Lake Long Term Monitoring Plan (2007, 2017)*, future long term monitoring events are scheduled for 2022, 2027, and 2032.

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

Details attached



Additional Details:

Additional details regarding water sources can be found in the *CAM-F Sarcpa Lake Long Term Monitoring Plan (2007, 2017)*.

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;

Not Applicable (N/A)



Additional Details:

Remediation was completed in 2008 and the only structures remaining on site are the NHWL and SSDF. No waste was deposited on site in 2018. Any solid waste generated was removed from site at the completion of monitoring activities.

Results of any additional sampling and/or analysis that was requested by an Inspector

No additional sampling requested by an Inspector or the Board



Additional Details: (date of request, analysis of results, data attached, etc)

Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

No additional sampling requested by an Inspector or the Board



Additional Details: (Attached or provided below)

Any responses or follow-up actions on inspection/compliance reports

Inspection Report received by the Licensee (Date):



Additional Details: (Dates of Report, Follow-up by the Licensee)

The last known inspection conducted at CAM-F was in 2007. The 2007 Inspection Report is available on the NWB ftp site. The majority of issues were identified during remediation and no issues remain applicable to post-remediation monitoring activities.

Any additional comments or information for the Board to consider

Physical and thermal observations of the CAM-F facilities and results of groundwater chemical analysis conducted during the last LTM event (2017) indicate that both the NHWL and SSDF are in acceptable condition, performing as designed and are containing the enclosed waste.

Date Submitted:

November 20, 2018

Submitted/Prepared by:

Jean Allen, Contaminants Specialist, CIRNAC

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GPS Coordinates for water sources utilized

Source Description	Latitude			Longitude		
	Deg °	Min '	Sec "	Deg °	Min '	Sec "
Monitoring Well (MW) 1	68	33	6.798	-83	18	52.25
MW 2	68	33	5.982	-83	18	42.54
MW 3	68	33	5.244	-83	18	43.87
MW 4	68	32	49.03	-83	18	17.8
MW 5	68	32	45.21	-83	18	20.28
MW 6	68	32	45.52	-83	18	22.94

GPS Locations of areas of waste disposal

[illegible]