



Crown-Indigenous Relations
and Northern Affairs Canada

Relations Couronne-Autochtones
et Affaires du Nord Canada

Nunavut Regional Office (NRO)
P.O. Box 2200
Iqaluit, NU, X0A 0H0

April 30, 2019

Mr. Thomas Kabloona
The Chair,
Nunavut Water Board
P.O. Box 119, Gjoa Haven,
NU X0B 1J0

Dear Mr. Kabloona:

**RE: CAM-C (Matheson Point) Remediation Project: 2018 Annual
Report for Water Licence No: 1BR-MTH1722**

Please find attached the 2018 annual report for the Water licence No: 1BR-MTH1722 issued for the remediation of the CAM-C (Matheson Point) site.

If you have any questions or comments, please contact the undersigned or the Project Manager, Dele Morakinyo at dele.morakinyo@canada.ca, or by telephone at (819) 934 - 9224

Sincerely,

Charlotte Lamontagne
Director,
Contaminated Sites Program (NRO)
Tel: (867) 975-4730
Fax: (867) 975-4736
Email: charlotte.lamontagne@canada.ca

CC: Nunavut Impact Review Board (NIRB), Cambridge Bay, Nunavut



Canada

NWB Annual Report

Year being reported:

2018

License No: 1BR-MTH1722 Issued Date: August 15, 2017
Expiry Date: August 14, 2022

Project Name: CAM-C (Matheson Point) Site Remediation

Licensee: Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC)

Mailing Address: PO Box 2200
Iqaluit NU
X0A 0H0

Name 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):

The Government of Canada has implemented the Federal Contaminated Sites Action Plan (FCSAP) to clean up federally owned contaminated sites (CAM-C – Matheson point site inclusive) which pose risks to human health and/or the environment. The department of Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) (formerly INAC) is the custodian of most of these sites. CIRNAC applied for, and received funding approval under FSCAP, for the investigation and cleanup of CAM-C (Matheson point), Nunavut site.

CAM-C is an abandoned Intermediate Distant Early Warning Line Site which was originally constructed in 1957 and closed/abandoned in 1963. CAM-C is situated on crown land, approximately 30 km northeast of the community of Gjoa Haven, Nunavut.

CIRNAC conducted investigation studies on the site between 2011 and 2013 which confirmed that the site is contaminated and identified the contaminants of concerns on the site. Based on the site assessment studies carried out on CAM-C (Matheson Point) and concluded in 2013, CIRNAC developed a plan for the cleanup of the site. The draft of the plan was presented at a community consultation public meeting in Gjoa Haven on January 23, 2014. The meeting was well attended by members of the communities and feedbacks from the meetings were considered when the final cleanup plan was developed.

The site has two main areas: the main station area and the beach area. The main station area consisted of buildings; a garage; a warehouse; POL (petroleum, oil and lubricants) tanks; a drum storage area; and a communication tower. Following the cessation of activities and abandonment of the site, most of the site facilities were dismantled and the materials were taken, possibly by visitors to the site. In 1985 some hazardous materials, including two transformers, a choke and light ballasts were also removed from the site. Concrete foundations, scattered debris and a fallen communication tower were the only remnants of the main station. An airstrip, suitable for landing twin otter aircraft, is located adjacent to the main station area. The beach area was used for barge landings in the past. It had approximately 400 numbers of 205 litres drums stacked together. Partially buried debris were visible along the hillside southwest of the beach area.

Following remediation activities at the site in 2017 and 2018, the entire site is now clean. All wastes have been packaged waiting for shipment offsite at southern locations that have agreed to take the wastes. Demobilization to the south would failed during the 2018 construction season because the ship could not reach the site due to bad weather. Demobilization from CAM-C to the south will take place in 2019.

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

Part B	▼	Item 1	▼
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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):	Freshwater Lake (within the site)	
Water Quantity:	13/day	Quantity Allowable Domestic (cu.m)
	4/day max	Actual Quantity Used Domestic (cu.m)
	N/A	Quantity Allowable Drilling (cu.m)
	N/A	Total Quantity Used Drilling (cu.m)

Waste Management and/or Disposal

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

Additional Details:

None

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

Spill No.: (as reported to the Spill Hot-line)

Date of Spill:

Date of Notification to an Inspector:

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

No major spills were recorded in 2018.

Spill No.:

Date of Spill:

Date of Notification to an Inspector:

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

None

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed



Additional Details:

None

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed



Additional Details:

None

Progressive Reclamation Work Undertaken

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

WORK COMPLETED:

WORKS COMPLETED AT CAM-C DURING 2018 INCLUDE:

- Granular material production
- Contaminated soil excavation (PHC Soil, Tier I and Tier II Soils)
- PHC Type B Soil treatment (Landfarm)
- Debris removal
- Excavation of Buried debris
- Demolition
- Contanerization of nonhazardous and hazardous wastes
- Regrading
- Wastewater (Sewage) management
- Final Site demobilization (by sealift from site to the south)

FUTURE WORKS TO BE COMPLETED IN 2019:

- Decommission and remove winter camp facilities.
- Transport all all waste, materials, supplies, and equipment from CAM-C, NU for off-site disposal at a southern licenced waste disposal facility.

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:

See GPS Co-ordinates below

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

Details attached

Additional Details:

See GPS Co-ordinates attached

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)

None

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)

None

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 INAC Inspector completed a site visit on July 29, 2018. The only deficiency noted was the lack of a sign installed at the Freshwater Lake reading "Raw Water Intake". A sign was installed on July 30, 2018.
Inspection Report is attached

Any additional comments or information for the Board to consider

None

Date Submitted:

March 30, 2019

Submitted/Prepared by:

Dele Morakinyo

Contact Information:

Tel: (819) 934-9224

Fax: (819) 934-9229

email: dele.morakinyo@canada.ca

GPS Coordinates for water sources utilized

Source Description	Latitude			Longitude		
	Deg °	Min ,	Sec "	Deg °	Min ,	Sec "
Fresh water Lake	68	49	50.19	95	19	37.75

GPS Locations of areas of waste disposal

Location Description (type)	Latitude			Longitude		
	Deg °	Min ,	Sec "	Deg °	Min ,	Sec "
Camp Location	68	48	51.05	95	15	37.11
Airstrip	68	49	18.94	95	17	4.42
Fuel Cache	68	48	51.69	95	15	38.92
Sewage Lagoon	68	48	51.4	95	15	29.8

Appendix A:

CAM-C (MATHESON POINT) REMEDIATION PROJECT

EXECUTIVE SUMMARY

CAM-C (MTHESON POINT) FORMER DEW LINE SITE REMEDIATION PROJECT

NON-TECHNICAL EXECUTIVE SUMMARY

1. BACKGROUND

The Government of Canada has implemented the Federal Contaminated Sites Action Plan (FCSAP) to clean up federally owned contaminated sites (CAM-C – Matheson point site inclusive) which pose risks to human health and/or the environment. The department of Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) (formerly INAC) is the custodian of most of these sites. CIRNAC applied for, and received funding approval under FSCAP, for the investigation and cleanup of CAM-C (Matheson point) site, Nunavut.

CAM-C (Matheson point) Intermediate Distant Early Warning (DEW) Line Station was constructed in 1957. The station (which is located 30 Km northeast of Gjoa Haven, Nunavut) was operated for about 6 years and was taken out of service in 1963. In 1965, the responsibility for the site was assumed by CIRNAC.

The site has two main areas: the main station area and the beach area. The main station area consisted of buildings; a garage; a warehouse; POL (petroleum, oil and lubricants) tanks; a drum storage area; and a communication tower. Following the cessation of activities and abandonment of the site, most of the site facilities were dismantled and the materials were taken, possibly by visitors to the site. In 1985 some hazardous materials, including two transformers, a choke and light ballasts were also removed from the site. Concrete foundations, scattered debris and a fallen communication tower were the only remnants of the main station. An airstrip, suitable for landing twin otter aircraft, is located adjacent to the main station area. The beach area was used for barge landings in the past. It has approximately 400 numbers of 205 litres drums stacked together. Partially buried debris were visible along the hillside southwest of the beach area. The beach area was used for badge landing activities during the site mobilization that took place in 2017 and will be used for demobilization activities in August 2019. Contaminants of concern identified at the site include chemicals such as PCBs, metals (e.g. Lead), petroleum hydrocarbons (in soils and painted surfaces); demolition debris; drum caches; foundation bases and so on.

The whole site was remediated to acceptable remedial standards during 2017 and 2018 and it is now considered clean. The only work remaining to be completed under the current licence is sealift demobilization to the south, which was scheduled to take place in 2018 but did not because the sealift ship could not make it to site due to bad weather.

2. SITE LOCATION/ACCESS

CAM-C (Matheson Point) site is located at approximate latitude, 68° 49' 08" N; and Longitude, 95° 07' 10" W. The nearest community to CAM-C is Gjoa Haven, which is to the southwest.

CAM-C site is accessible by aircraft (year round); there is an airstrip at the site capable of landing a twin otter. The site can also be accessed by ship/boat in the summer when there is open water. For small supplies, all-terrain vehicles (ATVs) can be used to access the site overland in summer. In winter, the site can also be accessed overland or by sea/ice via skidoo or CAT-Train.

The contractor for this project (Englobe) mobilized his heavy equipment and materials with shipment via sealift from Valleyfield, QC directly to CAM-C, Matheson Point, NU, in the summer of 2017, arriving at the site on August 22, 2017. In August 2019, the contractor will demobilize from site to the south via the same route. Resupplies and staff rotations were carried out via air planes and ground movements from Gjoa Haven.

3. PROJECT ACTIVITIES & SCHEDULE

CIRNAC conducted investigation studies on the site between 2011 and 2013 which confirmed that the site is contaminated and identified the contaminants of concerns on the site. Based on the site assessment studies carried out on CAM-C (Matheson Point) and concluded in 2013, CIRNAC developed a plan for the cleanup of the site.

The cleanup of the CAM-C site, planned for two (2) years (2017 and 2018), started in August 2017. The tasks completed at the site in 2017 include but are not limited to: mobilization of equipment and materials from Valleyfield to the site; improvement of site access routes, site internal roads and airstrips; Camp set-up and operation; and the collection of site surface

debris. The remaining remediation works were completed during the 2018 construction season. Site demobilization was scheduled for August 2018 but did not take place due to poor weather that prevented the sealift ship from making it to the site.

Prior to the start of the remedial works, authorizations were obtained from the following regulatory bodies: Nunavut Planning Commission for conformity check; Nunavut Impact Review Board (NIRB) for Screening; Indigenous and Northern Affairs Canada (INAC) for Land Use Permit; and Nunavut Water Board (NWB) for Water Use Licence.

All equipment, materials and wastes will be shipped to the south by August 2019. As no facilities will be left on this site, there shall be no need for post-remediation long term monitoring as it is the case on other CIRNAC sites – it is walk-away solution.

4. SOCIAL IMPACT OF THE PROJECT

As much as possible, the project has adopted and will continue to adopt solutions tailored to the northern environment and its inhabitants, by using local knowledge and including the unique needs of northerners and their environments in the remediation work plan.

Public community consultation meetings were held in Kugaaruk as the site cleanup activities progressed to discuss employment and sub-contracting opportunities and work progress. The meetings were well attended by community members.

The contracting/procurement procedure adopted for this project maximized and continues to maximize the benefits of the project to the closest northern community (Gjoa Haven) by employing local and northern employees and engaging the services of local and northern sub-contractors.

Appendix B:

CAM-C (MATHESON POINT) REMEDIATION PROJECT

EXECUTIVE SUMMARY (INUKTITUT)

CAM-C (ፊርማ ወይም) ስም የፍትሕና ፍትሕ ልማት ልማት ወይም የፍትሕ ልማት ልማት

உயர்ப்பாட்டுக் குழுக்கள்/பிரிவுகள்/அலுவலகங்கள்

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Appendix C:

WATER LICENCE INSPECTION REPORT BY

Mr Baba Pedersen, Resource Management/Water

Resource Officer, Kitikmeot Region

Morakinyo, Dele (AADNC/AANDC)

From: Pedersen, Baba (AADNC/AANDC)
Sent: Friday, November 30, 2018 4:59 PM
To: Morakinyo, Dele (AADNC/AANDC); Alain Larivière
Cc: licensing@nwb-oen.ca; McCaie, Tracey (AADNC/AANDC); Noble, Layli (AADNC/AANDC)
Subject: CAM-C Matheson Point Inspection of July 27, 2018
Attachments: 2018 KIT 008 BP 1BR MTH1722 N2017U0002 INAC Contaminated Sites CAM C Matheson Pt.pdf

To Dele Morakinyo, CIRNAC Contaminated Sites

Hello Dele,

Attached you will find my Inspection Report for the CAM-C Matheson Point Remediation Project under both Nunavut Water Board Water License 1BR-MTH1722 and CIRNAC Land Use Permit N2017U0002. I did the Inspection on July 27, 2018 and I was accompanied by on site staff Ben Lefebvre, Dany Roy and Ken Gauthier. I apologize for the lateness of my Report.

I had no major concerns as a result of this Inspection.

I am aware that since my Inspection the Project has been completed and it was your intention to remove all items from the site via sea lift. I am also aware that due to an unforeseen early onset of Winter and heavy Ice Conditions that this was not able to happen this shipping season. I plan on conducting a follow up Closure Inspection during the 2019 season.

I would like to thank you and your on-site personnel for your co-operation and assistance during the Inspection Process.

If you have any questions or concerns, please feel free to contact me at any time.

I have copied the Nunavut Water Board in Gjoa Haven and CIRNAC in Iqaluit for their information and files.

Koana,
Baba

Baba Pedersen
Resource Management/Water Resource Officer
Kitikmeot Region
Crown-Indigenous Relations and Northern Affairs Canada
Box 278, Kugluktuk, NU X0B-0E0
Phone 867-982-4306
Fax 867-982-4307
Cell 867-222-2839
Baba.pedersen@canada.ca



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee		Licensee Representative	
CIRNAC Contaminated Sites		Benoit Lefebvre/Dany Roy/Ken Gauthier	
Licence No. / Expiry		Representative's Title	
1BR-MTH1722			
Land / Other Authorizations		Land / Other Authorizations	
LUP N2017U0002			
Date of Inspection		Inspector	
27 July 2018		Baba Pedersen	
Activities Inspected			
<input checked="" type="checkbox"/> Camp	<input type="checkbox"/> Drilling	<input type="checkbox"/> Mining	<input type="checkbox"/> Construction
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Reclamation
			<input checked="" type="checkbox"/> Fuel Storage

Conditions:		A - Acceptable	C - Concern	U - Unacceptable	NA – Not Applicable	NI – Not Inspected	
Water Use		Condition	Comment	Site Conditions		Condition	Comment
Intake/Screen	A	7		Water Management Structures		A	
Flow Measure. Device	A	1		Culverts / Bridges			
Source:	A			Drainage		A	
Water Use:	A			Erosion / Sediment			
Recirculation (y /n)				Mitigation Measures			
				Reclamation Activities		A	
				Materials Storage		A	
Waste Disposal				Signage		A & C	4 & 7
Waste Water	A	2					
Solid Waste	A	5		Monitoring			
Hazardous Waste	A	10		Sample Collection / Analysis			
*The number in the comments field will correspond with specific comments provided below.							
Samples taken by Inspector:			Location(s): No Samples taken on this Inspection				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

SECTION 1	<input checked="" type="checkbox"/> Comments (s. __)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. __)	<input type="checkbox"/> Action Required (s. __)
I Inspected CIRNAC's CAM-C Matheson Point Remediation Project under WL 1BR-MTH1722 and LUP N2017U0002 on Friday July 27, 2018. I was accompanied by Ben Lefebvre, Dany Roy and Ken Gauthier.			
SECTION 2	<input checked="" type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
I saw 1. The Sea Can with the Raw Water Storage Tanks (Photo 1) and the Raw Water Flow Meter (Photo 2), 2. The Grey/Black Water Pump/Mulcher (Photo 3) and the Sewage Lagoon/Sump (Photo 4), 3. The Drummed Fuel Storage Area (Photo 5), 4. The Labels on the Drummed Fuel (Photo 6) and the Signage at the Fuel Storage Area (Photo 7), 5. The Incinerator (Photo 8), 6. The Double Walled Fuel Tank and Camp Generator (Photo 9), 7. The Raw Water Intake Hose and Area with NO SIGNAGE (Photo 10), 8. Borrow Area 15 (Photos 11 & 12), 9. The Land Farm Treatment Area (Photo 13) and 10. The Barrel Processing Area (Photo 14).			
SECTION 3	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
This was a very easy Inspection, the entire Camp and Operation are very well run and meet almost all the Terms and Conditions of both the Water License and the Land Use Permit. The only exception was 7. There was NO SIGNAGE indicating where the Raw Water Intake Area was. Appropriate Signage must be placed and a Photo of such must be emailed to the Inspector as soon as complete.			

Licensee or Representative	Inspector's Name
	Baba Pedersen
Signature	Signature
	Signed Original on File
Date	Date
	27 July 2018

Office Use Only:	Follow-up report to be issued by Inspector	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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cc. CIRNAC, Director of Lands, Iqaluit, erik.allain@canada.ca

Nunavut Water Board, Manager of Licensing, Gjoa Haven, licensing@nwb-oen.ca

CIRNAC, Manager of Land Administration, Iqaluit, tracey.mccaie@canada.ca



PHOTO LOG

Date	Camera	Inspector	Authorization
27 July 2018	Sony DSC-HX50V	Baba Pedersen	1BR-MTH1722 & N2017U0002
Photo Log # DSC03151		Location N 68°48'53.8" W 95°15'40.8"	

Photo 1



Description: Raw Water Storage Tank – 1 of 5 inside Sea Can Container

Photo Log # DSC03152

Location N 68°48'53.8" W 95°15'40.8"

Photo 2



Description: Raw Water Flow Meter inside Sea Can Container



Photo Log # DSC03154

Photo 3



Description: Grey/Black Water Pump/Mulcher

Photo Log # DSC03158

Location N 68°48'51.7" W 95°15'31.4"

Photo 4



Description: Sewage Lagoon/Sump



Photo Log # DSC03160

Photo 5



Description: Drummed Fuel Storage Area - Lined

Photo Log # DSC03162

Photo 6



Description: LUP # Affixed to Every Drum of Fuel- Very Nice



Photo Log # DSC03164

Photo 7



Description: Fuel Storage Area Signage – Very Nice

Photo Log # DSC03167

Photo 8



Description: Incinerator

Photo Log # DSC03175

Photo 9



Description: Double Walled Fuel Tank and Camp Generator

Photo Log # DSC03179

Location N 68°49'44.5" W 95°19'12.9"

Photo 10



Description: Raw Water Intake Hose at Water Lake – NO SIGNAGE



Photo Log # DSC03182

Photo 11



Description: Borrow Area 15

Photo Log # DSC03184

Photo 12



Description: Borrow Area 15



Photo Log # DSC03197
Photo 13

Location N 68°49'05.6" W 95°16'22.7"



Description: Land Farm Treatment Area – Lined and Bermed

Photo Log # DSC03204
Photo 14



Description: Barrel Processing Area – Lined and Bermed