NWB Annual Report **Year being reported:** 2008

License No: 1BR-EKA0809 **Issued Date:** June 13, 2008
Expiry Date: June 30, 2009

Project Name: FOX-C Ekalugad Fjord Remediation Project

Licensee: Indian and Northern Affairs Canada

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):

General Background Information on the Project (*optional):

The FOX-C Intermediate Distant Early Warning (DEW) Line Site was constructed in 1957 and subsequently abandoned in 1963. It is located on the Northeast coast of Baffin Island, Nunavut on the south shore of Ekalugad Fjord. It is approximately 240 kilometres northwest of Qikiqtarjuaq and 260 kilometres south of Clyde River.

The remediation phase of the FOX-C Ekalugad Fjord Remediation Project was completed over 3 field seasons (2006-2008). The project is now moving into the long-term monitoring phase.

Licence Requirements: the licensee must provide the following information in accodance 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):	River at River Crossing #4 (See Appendix 1: Daily Water Log)	
Water Quantity:	30/day	Quantity Allowable Domestic (cu.m)
	24/day max	Actual Quantity Used Domestic (cu.m)
		Quantity Allowable Drilling (cu.m)
		Total Quantity Used Drilling (cu.m)

Waste Management and/or Disposal

- [x] Solid Waste Disposal
- [x] Sewage
- [ ] Drill Waste
- [x] Greywater
- [x] Hazardous
- [ ] Other:

Additional Details:

Soild waste from the Camp was landfilled in the Non-Hazardous Waste Landfill (See Appendix 4: As Built Drawing). Sewage and Greywater was stored in the sewage lagoon. All Hazardous Wastes were properly packaged and stored and shipped to a licenced southern disposal facility (See Appendix 3 for Analytical Results).

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: August 16, 2008
Date of Notification to an Inspector: August 28, 2008
Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

See the "NT-NU Spill Report Form" and "Spill Clean Up Report" contained in Appendix 2

Spill No.: (as reported to the Spill Hot-line)
Date of Spill: August 27, 2008
Date of Notification to an Inspector: September 18, 2008
Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

See the "NT-NU Spill Report Form" and "Spill Clean Up Report" contained in Appendix 2

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed

Additional Details:

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed

Additional Details:

Progressive Reclamation Work Undertaken

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

WORK COMPLETED
- Community meetings
- Mobilization
- Landfarm construction, operation & closure
- Installation of monitoring wells at lower site
- Non hazardous waste landfill construction, operation & closure
- Sewage lagoon construction, operation & closure
- Lower site hazardous waste processing area
- Beach tank demolition and land filling
- Beach debris removal
- Lake area debris removal
- Excavate the beach POL contaminated soil area
- Water Lake contaminated soil excavation
- Asbestos abatement
- Construction of temporary PCB & hazardous waste storage areas
- Removal, packaging and storage of PCB amended painted materials
- Building demolition (Module Train, POL Tanks, Garage, Warehouse)
- Excavation of mid station pad contaminated soil to permafrost
- Mid Station regrading
- Mid Station debris removal and drum processing
- Road repair
- Survey
- Drum processing & incineration
- Regrading
- Demobilization
- Hazardous materials shipment

FUTURE WORK PROPOSED
- 25 year long-term monitoring plan
  - Natural environment monitoring
  - Non-hazardous waste landfill monitoring

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 on Page 5.

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 on Page 5.

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

No inspection and/or compliance report issued by INAC

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

Any additional comments or information for the Board to consider

Before and After photographs are provided in Appendix 5

Date Submitted:	March 27, 2008	
Submitted/Prepared by:	Natalie Plato	
Contact Information:	**Tel:**	(867) 975-4730
	Fax:	(867) 975-4736
	email:	natalie.plato@inac-ainc.gc.ca

GPS Coordinates for water sources utilized

Source Description	Latitude			Longitude		
	° Deg	` Min	~ Sec	° Deg	` Min	~ Sec
River at River Crossing #4	68	43	38	68	39	10

GPS Locations of areas of waste disposal

Location Description (type)	Latitude			Longitude		
	° Deg	` Min	~ Sec	° Deg	` Min	~ Sec
Non-Hazardous Waste Landfill	68	43	21	68	38	56
Camp Wastewater - Permanent Sewage Lagoon	68	44	34	68	39	11
Waste water discharge point	68	44	35	68	38	58

APPENDIX 1: DAILY WATER LOG

Daily Log - Camp Water Supply

Name - Operator	Date	Sterling or Steamer	Filled from	Destination	Load	Volume	Daily Volume (Litres)
Chris Giroux	20-Jun-08	Sterling	Water Source	Camp	0	12,000.00	-
Chris Giroux	21-Jun-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	22-Jun-08	Sterling	Water Source	Camp	0	12,000.00	-
Chris Giroux	23-Jun-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	24-Jun-08	Sterling	Water Source	Camp	0	12,000.00	-
Chris Giroux	25-Jun-08	Sterling	Water Source	Camp	0	12,000.00	-
Chris Giroux	26-Jun-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	27-Jun-08	Sterling	Water Source	Camp	0	12,000.00	-
Chris Giroux	28-Jun-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	29-Jun-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	30-Jun-08	Sterling	Water Source	Camp	0	12,000.00	-
Chris Giroux	1-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	2-Jul-08	Sterling	Water Source	Camp	0	12,000.00	-
Chris Giroux	3-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	4-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	5-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	6-Jul-08	Sterling	Water Source	Camp	0	12,000.00	-
Michael Qappik	7-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	8-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	9-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	10-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	11-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	12-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	13-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	14-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	15-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	16-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	17-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	18-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	19-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	20-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	21-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	22-Jul-08	Sterling	Water Source	Camp	0	12,000.00	-
Michael Qappik	23-Jul-08	Sterling	Water Source	Camp	2	12,000.00	24,000.00
Michael Qappik	24-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	25-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	26-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	27-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	28-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	29-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	30-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	31-Jul-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	1-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	2-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	3-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	4-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00

Name - Operator	Date	Sterling or Steamer	Filled from	Destination	Load	Volume	Daily Volume (Litres)
Chris Giroux	5-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	6-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Chris Giroux	7-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	8-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	9-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	10-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	11-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	13-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	15-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	17-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	19-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	21-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	23-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	25-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	27-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	29-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
Michael Qappik	31-Aug-08	Sterling	Water Source	Camp	1	12,000.00	12,000.00
TOTAL							**660,000.00**

APPENDIX 2: NT-NU SPILL REPORT FORMS

NUNAVUT SPILL REPORT (Oil, Gas, Hazardous Chemicals or other Materials)

ᓄᓇᕗᑦ ᑯᐃᓐᓇᓂᑦ ᐅᓂᒃᑳᖅ (ᐅᖃᓕᓚᐅᑦ, ᒪᓂᑦ, ᐋᑕᓐᓄᖅᓴᖅ, ᐃᓕᓴᐃᑦ ᐅᓪᓚᓐ ᓇᓗᓇᐅᑦ)

24-Hour Report Line 24-ᓂᑦ ᑲᑎᕐᓂᑦ ᐅᓂᒃᑲᐃᐅᓕᖅᓯᒪᔪᖅ ᐅᖃᓕᑦ

Phone/ᐅᖃᓕᑦ (867) 920-8130

Fax/ᐳᑲᑎᓂᑦ (867) 873-6924

A Report Date and Time ᐅᓪᓗᒥ ᓯᑎᕐᒪᑦᓯ ᖃᐅᔨᓴᖅᑎᓗᒃ ᐅᓂᒃᑳᖅᑎᑦᓯ	B Date and Time of Spill (if known) ᐅᓪᓗᒥ ᑲᑎᕆᔨᓗᒃ ᖃᐅᔨᓴᖅᑎᓗᒃ (ᖁᑦᓱᒪᒃᑯᑦ)	C ☒ Original Report ᓄᓇᕗᒻᒥᐅᑦ ᐅᓂᒃᑳᖅᑐᖅ ☐ Update No. _____ ᓂᕆᐅᓕᖅᓂᒃᓴᖅ ᓄᓇᕗᑦ	Spill Number ᑲᑎᕆᑦ ᓄᓇᕗᑦ
Aug 28th, 2008	Aug 16th, 2008		

D Location and Map Coordinates (if known) and Direction (if moving) ᓇᓂ ᑲᑎᕆᑦ ᐊᒻᒪᓗ ᓇᓂᑲᓐᓂᖅ ᓄᓇᕗᑦᓯᓚᐅᖅᑎᑦ (ᖁᑦᓱᒪᒃᑯᑦ) ᐊᒻᒪᓗ ᓇᓗᓇᐃᑦᓴᓕᒫᓂᖅ (ᐃᓕᓴᐃᑦ)

Ekalugad Fiord (FOK-C) 68° 42' N 68° 33' W

E Party Responsible for Spill (Full Name and Address) ᐅᖃᓕ ᑲᑎᕐᓂᑦ (ᐃᑭᓕ ᐊᒻᒪᓗ ᐃᑲᔪᖅᓴᖅ)

QIKIQTAALUK CORPORATION, PO BOX 1228, IQALUIT, NU, X0A 0H0

F Product(s) Spilled and Estimated Quantities (provide metric volumes/weights if possible) ᐅᖃᓕ ᐅᓪᓚᓐᓂᑦ ᑲᑎᕆᑦ ᖃᓄᐃᓕᓐᓂᖅ ᐊᑐᐊᓘᑕᐅᑦ (ᐊᑐᐊᖅ ᐅᖃᓕᓴᐃᓚᓐᓂᑦ ᑲᓇᓐᓂᑦ)

Sewage water

G Cause of Spill ᐅᓪᓗᒥ ᑲᑎᕆᑐᑦ

Pumping of sewage water onto tundra to empty lagoon following work on berms

H Is Spill Terminated? ᑲᑎᕆᑦ ᓂᕆᑐᑦ?	I If Spill is Continuing, Give Estimated Rate ᓯᓂ ᑲᑎᕆᑦ ᖃᓄᐃᓕᓐᓂᖅ ᓴᓇᔨᓴᖅᑐᓂᒃ	J Is Further Spillage Possible? ᑲᑎᖃᓐᓇᓕᒫᓂᖅᑎᑦ?	K Extent of Contaminated Area (in square metres if possible) ᖃᓄᑦ ᖁᕕᐊᓂ ᑲᑎᕐᑐᐃᓐᓇᖅ (ᑭᒡᒐᖅᓯᓚᐃᓗᒃ ᑲᓇᓐᓂᑦ)
☒ Yes/ᐃ ☐ No/ᐊᖏᖅ		☒ Yes/ᐃ ☐ No/ᐊᖏᖅ	Only sediments on tundra thus, no contamination

L Factors Affecting Spill or Recovery (weather conditions, terrain, snow cover, etc.)
ᐅᓪᓗᒥ ᑕᓪᓕᐊᑦ ᑲᑎᕆᑦ ᐊᑭᑐᓚᓐᓇᑎᓗᒃ ᐅᓪᓚᓐᓂᖅᓴᓂᒃ, ᓄᓇ ᖃᓄᐃᓕᓐᓂᖅᓴᓂᒃ ᐊᑐᐃᓚᓐᓂᖅᓴᓂᒃ, ᖃᓄᐃᓕᓐᓂᖅ

Berms on lagoon were pushed in to make lagoon smaller in preparation for demobilization. Recovery impossible as sediments were pumped onto the land.

M Containment (natural depression, dykes, etc.)
ᐅᑭᐊᓚᖅᑐᑦ ᑭᓪᓕᒃ ᐃᓕᓴᕐᓂᓕᕆᓂ (ᓄᓇᓕ ᐃᓕᓴᐃᑦ, ᖃᓄᐃᓕᓐᓂᖅ)

Spill stopped when pumping of water stopped

N Action, if any, taken or Proposed to Contain, Recover, Clean Up or Dispose of Product(s) and Contaminated Materials
ᑲᓇᑕᒥᐅᑦ, ᑲᓇᑕᒥᐅᑎᓪᓗᑦ ᐅᖃᓕ ᑲᓇᑕᒥᐊᑐᐊᓘᑕᐅᑦ ᐊᑐᐃᑎᑎᑐᓚᓐᓇᑦ, ᓄᖅᓴᑎᑐᓚᓐᓇᑦ ᓴᓇᓘᓴᖅᑐᑦ ᐅᖃᓕ ᐃᓗᐊᓂᐅᑦ ᑲᑎᕆᑦ (ᑲᑎᕆᓪᓚᓐᓂᑦ) ᐊᒻᒪᓗ ᑲᑎᕐᑐᐅᑦ

No action possible

O Do You Require Assistance? ᐃᑲᓴᐅᑕᐅᓇᖅᑐᐃᓐᓇᕐᓂᕐᒪ?	P Possible Hazards to Persons, Property or Environment e.g. fire, drinking water, fish or wildlife ᖃᓄᐃᓐᓇᓕᒫᓂᖅᓴᓂᒃ ᐃᓄᓐᓂᑦ, ᑎᑎᕋᐅᓕᕆᓂᖅ ᐅᖃᓕ ᐊᒻᒪᓗ ᓄᓇᕗᑦ - ᐃᓕᓴᐃᓐᓇᓂ, ᐃᓕᓴᐃᑦ ᓄᓇᕗᒻᒥᔪᓐᓇᓂ, ᐃᓅᓯᕕᓂ ᐅᖃᓕ ᓄᓇᕗᑦ
☒ No/ᐊᖏᖅ ☐ Yes, describe: ᐃ ᓄᓇᓕᐅᑦ	Sewage water was pumped onto land approx. 100 m from Fiord. Water met all other discharge criteria except Total suspended solids. Site is located next to a glacier that discharges high levels of sediments into the Fiord, so effect is felt to be negligible

Q Comments and/or Recommendations ᐅᖃᓕᓴᐃᑦ ᐊᒻᒪᓗ ᐅᓪᓚᓐᓂᑦ ᑲᓇᑕᒥᐊᑐᐃᓐᓇᖅ

QIKIQTAALUK CORPORATION (QC) was discharging sewage water onto the land at a point 100 m from the nearest water source. This has been done several times in the past 3 summers and the water has always met criteria. This method is being used following directives received from INAC. Sewage water samples are taken during discharge, also as per INAC's recommendations, so the spill was not known until all results were received. The only criteria that was not met was Total suspended solids (TSS) which were at 790 mg/L. This was most likely due to the berms being moved in to make the lagoon smaller in preparation for demob. The sediment from the berms most likely stayed in suspension until pumped and did not have time to settle out. Given that the water was pumped onto the land and the high amount of sediment in the water of the fiord, the effects are judged to be negligible

FOR SPILL LINE USE ONLY
ᐊᑐᕐᑐᐃᓐᓇᖅ ᑲᑎᕐᑐᑦ ᐅᖃᓕᓴᐃᓚᓐᓂᑦ

Lead Agency
ᐃᓕᓴᐃᓐᓇᓂᕐᒪᑦ ᑲᑎᕆᑦ ᐊᒥᓱᑦᑐᖅ

Spill Significance ᑲᑎᕆᑦ ᖃᓄᐃᓕᓐᓂᖅ

Lead Agency Contact and Time
ᐃᓕᓴᐃᓐᓇᓂᕐᒪᑦ ᑲᑎᕆᑦ ᐊᒥᓱᑦᑐᖅ ᐅᐃᓕᓴᐃᓐᓇᓂᖅ ᐊᑐᐃᓐᓇᖅᑐᓂ ᐊᒻᒪᓗ ᐃᓗᐊᓂᐅᑦ

Is this file now closed?
ᑭᓇ ᐅᓂᒃᓴᐅᑎᓪᓗᒃ ᒪᑐᐃᑦ?

Reported By ᐅᓂᒃᑳᖅ	Position, Employer, Location ᖃᓄᐃᓕᑦ ᐃᓕᓴᐃᓐᓇᓂᑦ, ᐃᓕᓴᐃᓐᓇᓂᒃᓴᖅ, ᐃᒡ	Telephone ᐅᖃᓕᑦ
Cathy Corrigan	Senior environmental inspector FOK-C	(604) 759-0910 x 105
Reported To ᐅᓂᒃᑳᖅᑐᑦ Greg Johnson	**Position, Employer, Location** ᖃᓄᐃᓕᑦ ᐃᓕᓴᐃᓐᓇᓂᑦ, ᐃᓕᓴᐃᓐᓇᓂᒃᓴᖅ, ᓇᓂ Acting Site Superintendent QIKIQTAALUK CORPORATION EKALUGAD FIORD	**Telephone** ᐅᖃᓕᑦ (604) 759-0910 x 102

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE
TEL: (867) 920-8130
FAX: (867) 873-6924
EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 09-18-2008	REPORT TIME	☒ ORIGINAL SPILL REPORT, OR ☐ UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____-_____
B	OCCURRENCE DATE: MONTH – DAY – YEAR 08-27-2008	OCCURRENCE TIME		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) N2005X0009	WATER LICENCE NUMBER (IF APPLICABLE) 1BR-EKA0809		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Ekalugad Fiord (FOX-C)	REGION ☐ NWT ☒ NUNAVUT ☐ ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 68 MINUTES 44 SECONDS 37	LONGITUDE DEGREES 68 MINUTES 39 SECONDS 02		
F	RESPONSIBLE PARTY OR VESSEL NAME Indian & Northern Affairs Canada	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION PO Box 2000, Iqaluit, Nunavut, X0A 0H0		
G	ANY CONTRACTOR INVOLVED Qikiqtaaluk Corporation	CONTRACTOR ADDRESS OR OFFICE LOCATION PO-Box 1228, Iqaluit, Nunavut, X0A 0H0		
H	PRODUCT SPILLED Sewage water	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 75,000 L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE Sewage lagoon	SPILL CAUSE pumping of lagoon to empty	AREA OF CONTAMINATION IN SQUARE METRES 100	
J	FACTORS AFFECTING SPILL OR RECOVERY See additional information	DESCRIBE ANY ASSISTANCE REQUIRED None	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT None	

K — ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS

As part of the closure of the FOX-C site the sewage lagoon was pumped following directives given by INAC in preparation of closure of the lagoon. The sewage water was pumped onto the land at a point 100m from the fiord and the water flowed downhill to the fiord. the water samples taken during discharge showed that the water did not respect the the following criteria for discharge: TSS 233 mg/L, Oil & Grease 14.6 mg/L and BOD 136 mg/L. The BOD was not sampled within specified holding times so the results may not be valid. In the past when the sewage lagoon has been pumped the water met all criteria except for 1 case where the TSS was elevated. Test results from this water were received only once the site was closed, and the water is no longer accessible. Thus, no remedial action can be taken. The site is now closed and the sewage lagoon is now closed and back filled, so there is no chance of another spill occurring.

L	REPORTED TO SPILL LINE BY Greg Johnson	POSITION Site Engineer	EMPLOYER Qikiqtaaluk Corp.	LOCATION CALLING FROM Montreal	TELEPHONE (514) 940-3332
M	ANY ALTERNATE CONTACT Mark Yetman	POSITION Project Manager	EMPLOYER INAC	ALTERNATE CONTACT LOCATION Iqaluit	ALTERNATE TELEPHONE (867) 975-4733

REPORT LINE USE ONLY

N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130

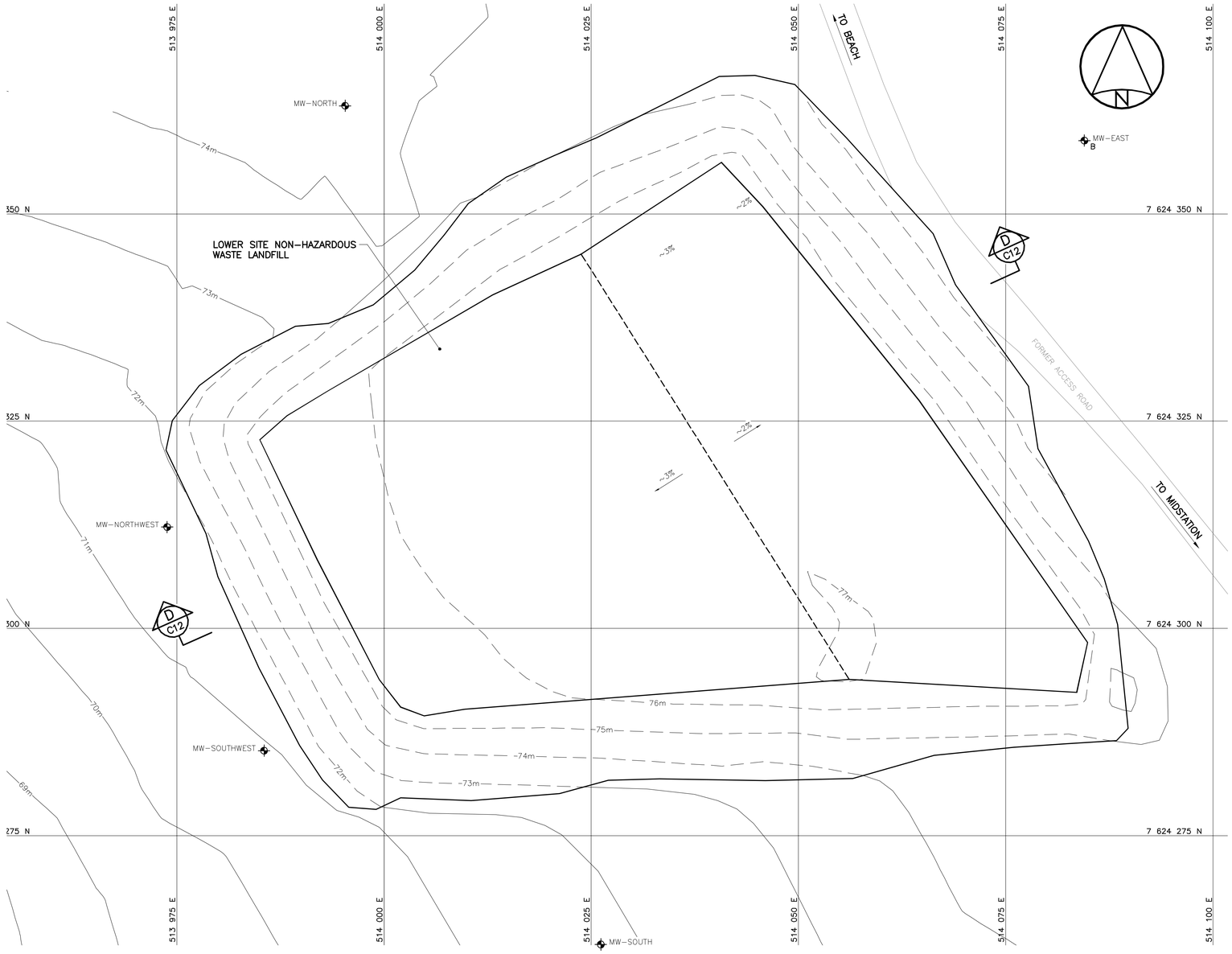
LEAD AGENCY ☐ EC ☐ CCG ☐ GNWT ☐ GN ☐ ILA ☐ INAC ☐ NEB ☐ TC | SIGNIFICANCE ☐ MINOR ☐ MAJOR ☐ UNKNOWN | FILE STATUS ☐ OPEN ☐ CLOSED

AGENCY	CONTACT NAME	CONTACT TIME	REMARKS
LEAD AGENCY			
FIRST SUPPORT AGENCY			
SECOND SUPPORT AGENCY			
THIRD SUPPORT AGENCY			

APPENDIX 3: ANALYTICAL RESULTS

Sample #	Area	Sampling Program	Sample Matrix	Date	BOD	TSS	Fecal Coliforms	pH	Oil and Grease
Sewage Discharge Criteria					**120**	**180**	**10,000**	**6<,<9**	**none visible 5000**
Units					**mg/L**	**mg/L**	**CFU/100 mL**		**mg/L**
1029	Sewage Lagoon	sewage discharge	water	Jul-28	31.9	79	>150	6.5	3.5
1177	Sewage Lagoon	sewage discharge	water	Aug-16	85	**790**	>150	6.86	none visible
1269	Sewage Lagoon	sewage discharge	water	Aug-27	**136**	**223**	>150	7.31	14.6

APPENDIX 4: AS-BUILT DRAWING



PLAN

0 5 10 15m

5 2.5 1:250

NOTE:

CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

MONITORING WELLS (AS–BUILT)

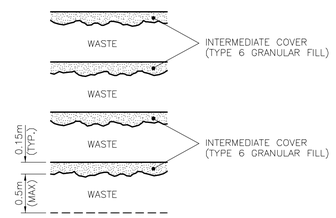
NO.	UTM COORDINATES		ELEV.
	NORTHING	EASTING	
MW–NORTH	7 624 363.0	513 995.3	74.8
MW–EAST	7 624 358.8	514 084.5	69.8
MW–SOUTH	7 624 261.9	514 026.2	72.4
MW–SOUTHWEST	7 624 285.3	513 985.5	71.5
MW–NORTHWEST	7 624 312.2	513 973.8	72.0

SECTION D C12

0 3 6 9m

3 1.5 1:150

ADDITIONAL WASTE LAYERS, MAY HAVE BEEN REQUIRED, TO ACHIEVE THE NON–HAZARDOUS WASTE LANDFILL DESIGN ELEVATIONS.



WASTE PLACEMENT DETAIL

SCALE: NTS

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region

Client: Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

Canada

Nunavut Regional Office
Iqaluit, Nunavut

General Notes:

1. ALL COORDINATES ARE REFERENCED TO NAD83 CSRS, UTM ZONE 19. ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL, RELATIVE TO GEOID MODEL EGM96.
2. SITE PLANS AND TOPOGRAPHIC INFORMATION ARE BASED ON AIR PHOTOS AND SURVEYS. CURRENT CONDITIONS MAY NOT BE EXACTLY AS SHOWN.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR MONITORING WELL INSTALLATION DETAILS, SEE DRAWING C16.

Legend:

MONITORING WELL LOCATION (4)

BACKGROUND MONITORING WELL LOCATION (1)

DRAFT

An AECOM Company

REVISIONS	DESCRIPTION	DATE
A	ISSUED FOR AS BUILT REVIEW	09/03/05

A detail number / number du detail
B source drawing no. / de dessin no.
C detail on drawing no. / detail sur dessin no.

project title / titre du projet
FOX-C Intermediate DEW Line Site
EKALUGAD FIORD
Site Restoration

Nunavut

drawing title / titre du dessin
LOWER SITE
NON-HAZARDOUS WASTE LANDFILL
PLAN AND CROSS SECTION

designed by / conçu par	B. FEDORAK
drawn by / dessiné par	L. VARGAS
approved by / approuvé par	R. SCHMIDTKE
PWGSC Project Manager / Administrateur de Projets TPSGC	B. THOMPSON
scale / echelle	AS SHOWN
project no. / projet no.	413759
date / date	FEBRUARY, 2005
sheet / feuille	C12
	OF 20

81 1000 x 707

413759-C12.DWG

APPENDIX 5: BEFORE & AFTER PHOTOGRAPHS

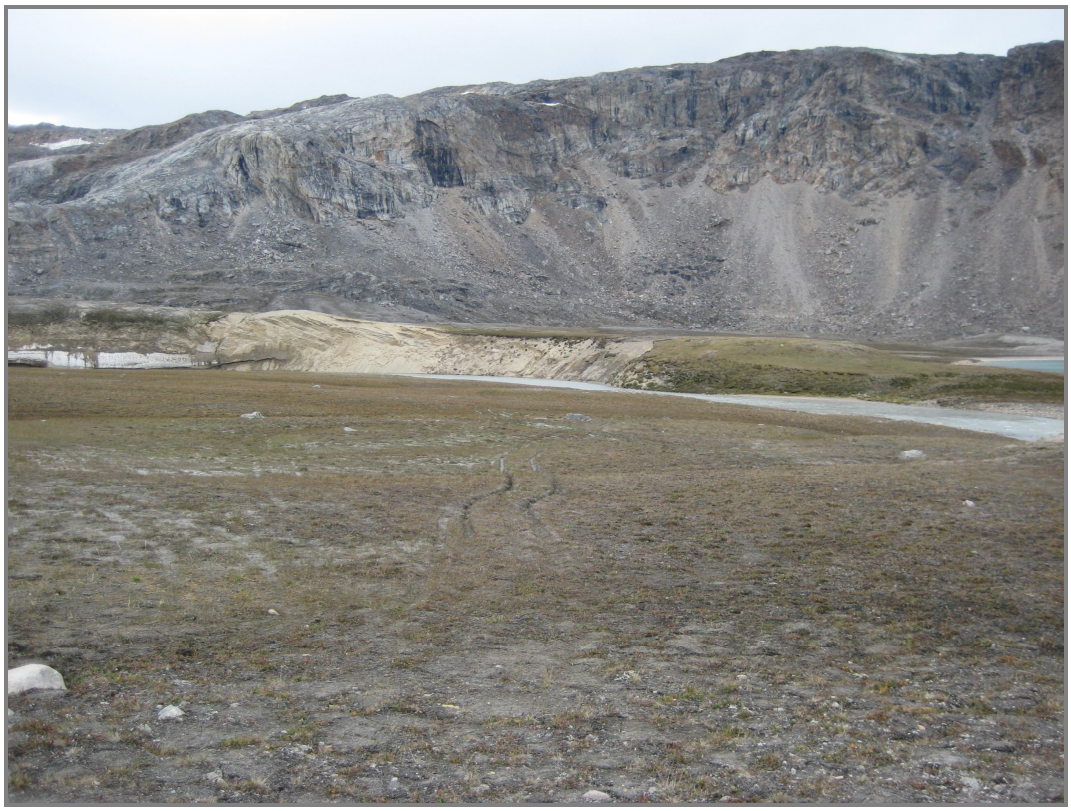
Picture 1: Lower Site Vehicle Debris - Before.

Picture 2: Lower Site Vehicle Debris - After.

Picture 3: Lower Site Barrel Cache - Before.

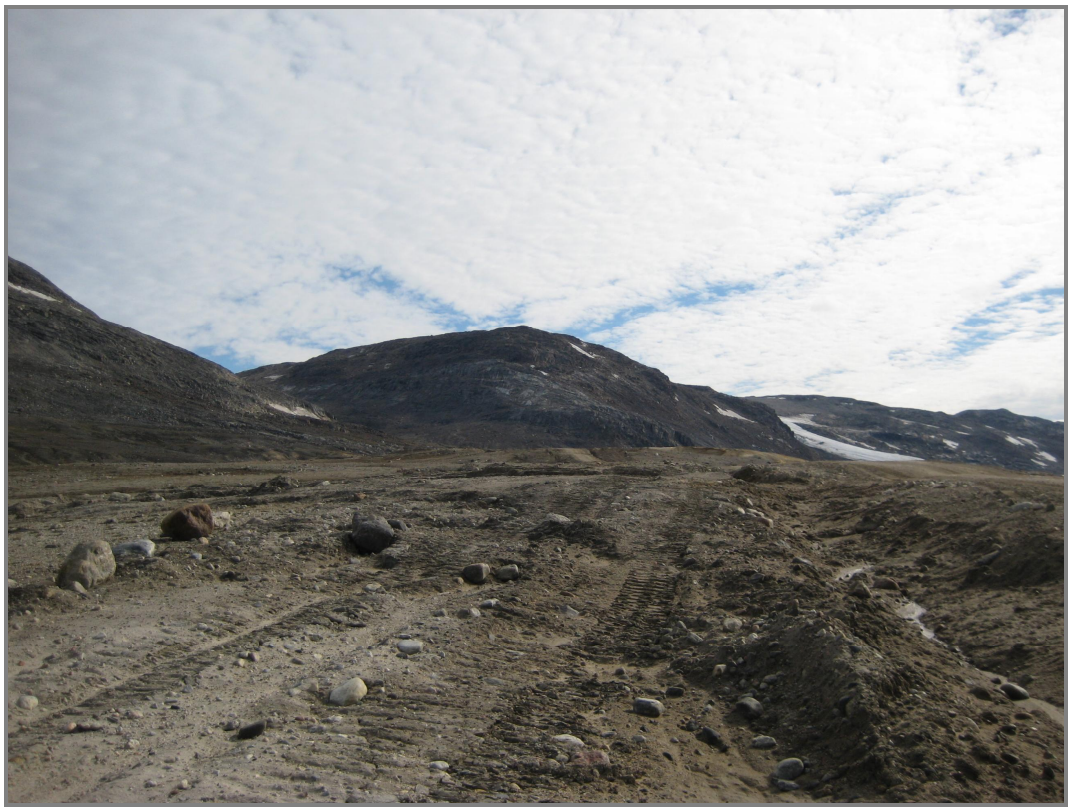
Picture 4: Lower Site Barrel Cache - After.

Picture 5: Lower Site Barrel Cache – Before.



Picture 6: Lower Site Barrel Cache - After.

Picture 7: Lower Site Debris - Before.



Picture 8: Lower Site Debris - After.

Picture 9: Lower Site Barrels in River - Before.

Picture 10: Lower Site Barrels in River - After.

Picture 11: Mid-Station Barrel Cache - Before.

Picture 12: Mid-Station Barrel Cache - After.

Picture 13: Mid-Station Barrel Cache and Quonset Hut Debris - Before.

Picture 14: Mid-Station Barrel Cache and Quonset Hut Debris - After.

Picture 15: Mid-Station Barrel Cache & Staining - Before.

Picture 16: Mid Station Barrel Cache & Staining - After.

Picture 17: Mid-Station Dump Lobe B - Before.

Picture 18: Mid-Station Dump Lobe B - After.

Picture 19: Mid-Station Dump Lobe B - Before.

Picture 20: Mid-Station Dump Lobe B - After.

Picture 21: Mid-Station Dump Lobe B - Before.

Picture 22: Mid-Station Dump Lobe B - After.

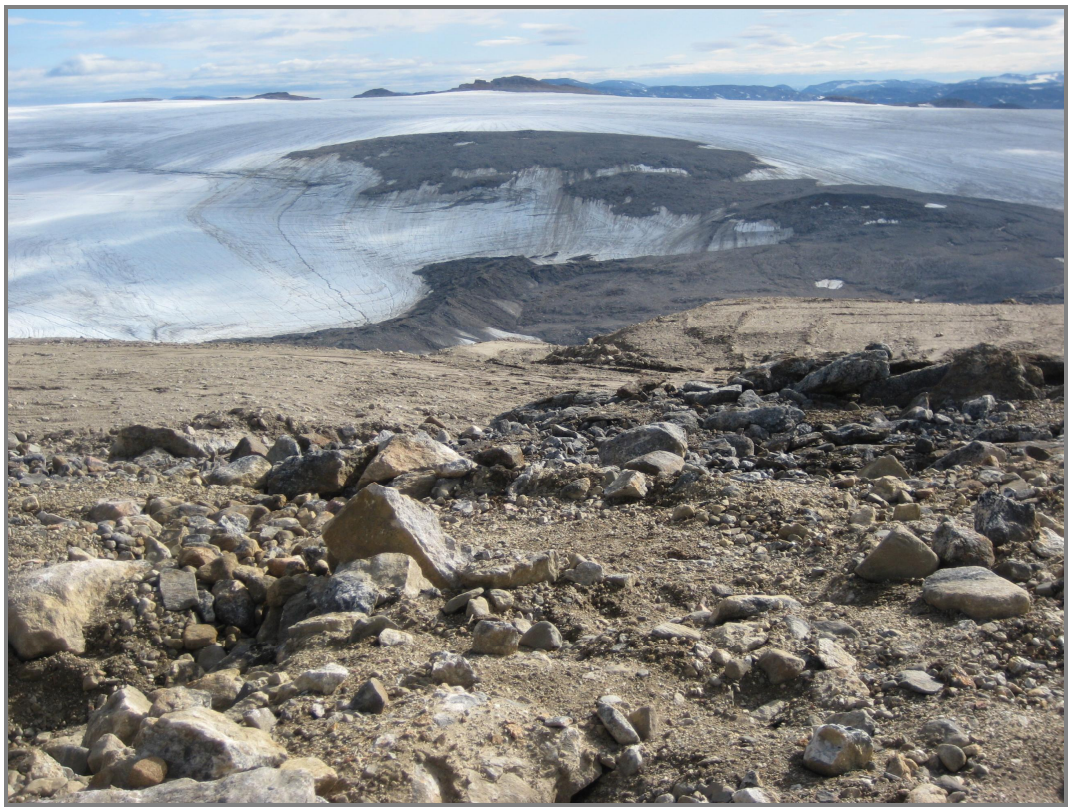
Picture 23: Mid Station Quonset Hut Debris - Before.

Picture 24: Mid Station Quonset Hut Debris - After.

Picture 25: Upper Satellite Antenna Debris - Before.

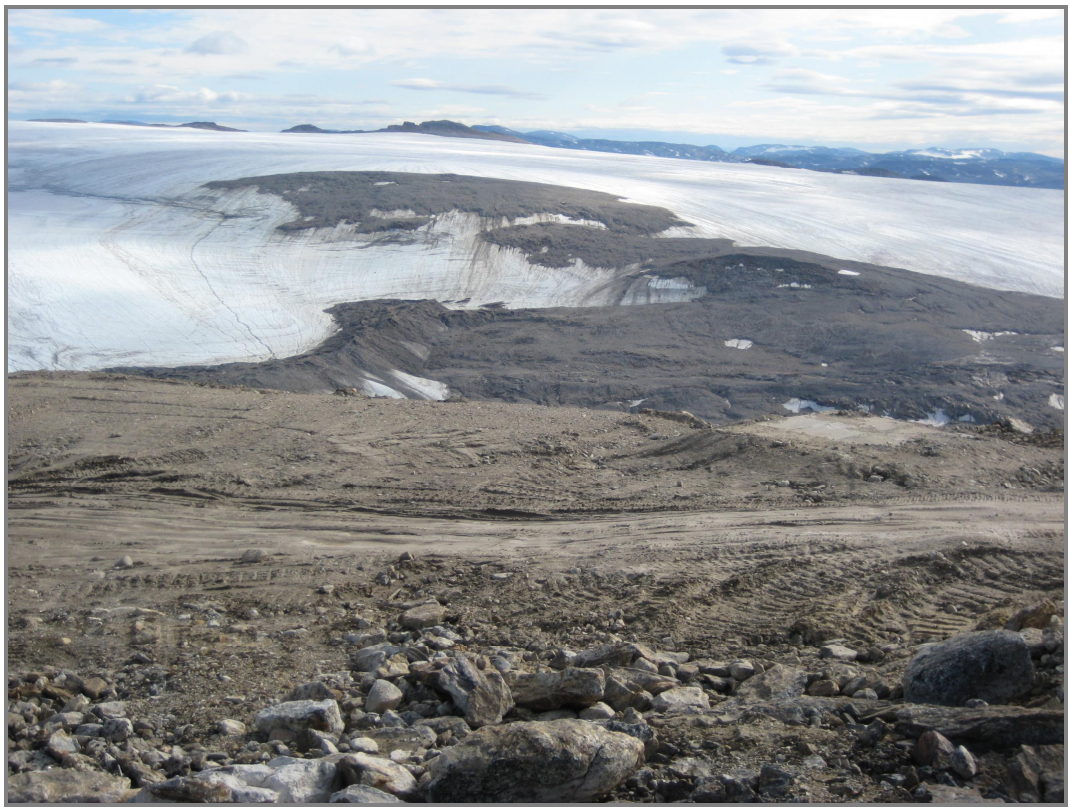
Picture 26: Upper Satellite Antenna Debris - After.

Picture 27: Upper Station Barrel Debris - Before.



Picture 28: Upper Station Barrel Debris - After.

Picture 30: Upper Station Barrel Debris & Antenna Anchor Block - Before.

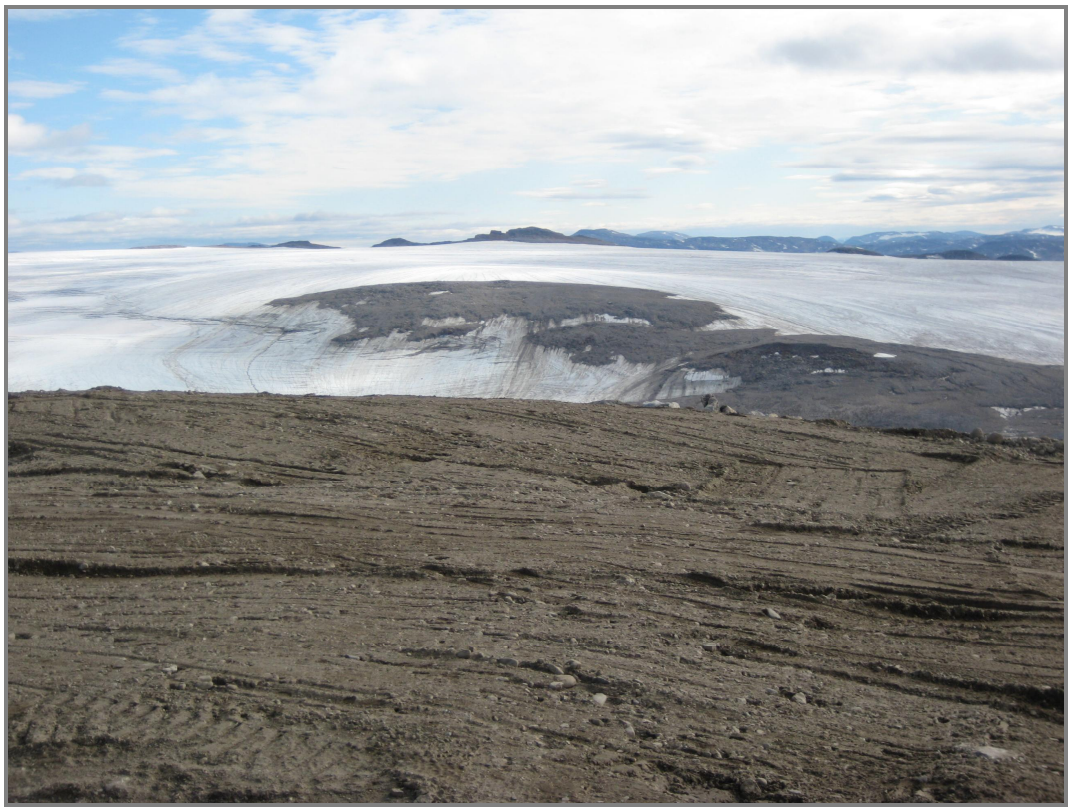


Picture 31: Upper Station Barrel Debris & Antenna Anchor Block - After.

Picture 32: Upper-Station Building Debris (Module Train & Warehouse in Background) - Before.

Picture 33: Upper-Station Building Debris (Module Train & Warehouse in Background) - After.

Picture 34: Upper Station Garage - Before.



Picture 35: Upper Station Garage - After.

Picture 36: Upper Station Garage - Before.

Picture 37: Upper Station Garage - After.

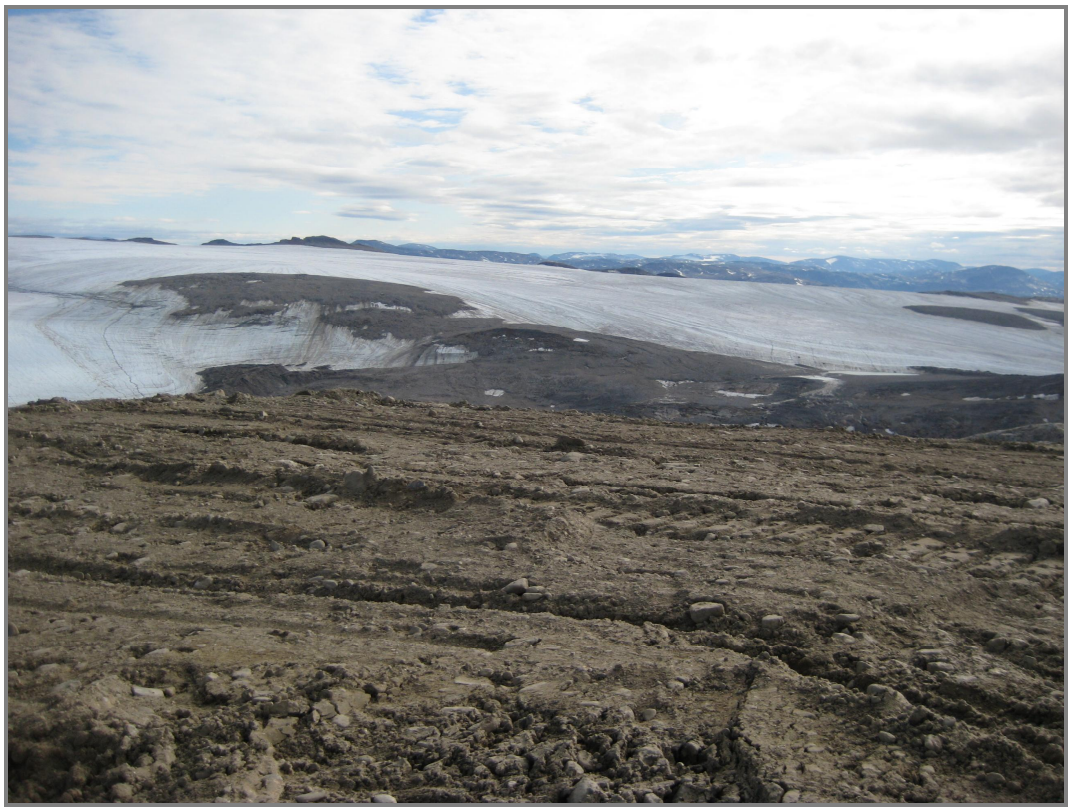
Picture 38: Upper Station Module Train - Before.

Picture 39: Upper Station Module Train - After.

Picture 40: Upper Station POL Tanks - Before.

Picture 41: Upper Station POL Tanks - After.

Picture 42: Upper Station Truck & Tanks - Before.



Picture 43: Upper Station Truck & Tanks - After.

Picture 44: Upper Station Warehouse - Before.

Picture 45: Upper Station Warehouse - After.