NWB Annual Repo	ort	Year being reported: 2015 ▼							
License No: 1BR-	RES0916	Issued Date: June 10, 2009							
		Expiry Date: June 1, 2016							
Proje	ect Name:	Resolution Island Long Term Monitoring Project							
Licer	Licensee: Indigenous and Northern Affairs Canada								
Maili	ng Address:	PO Box 2200 Iqaluit, NU XOA 0H0							
		iling Annual Report (if different from Name of Licensee please clarify two entities, if applicable):							
N/A									
General Backgrou	nd Information	on the Project (*optional):							
sout Nuna min. build Rem prog com	The Former BAF-5 (Resolution Island) Pole Vault Line Site is located 320 km southeast of Iqaluit at the mouth of Frobisher Bay, within the Qikiqtani Region, Nunavut (at general latitude of 61 deg. 35 sec N and general longitude 64 deg. 38 min. W). The facility was constructed in 1953 and abandoned in 1972 with over 20 buildings, eight dump sites and over 4,000 barrels left on site. Remediation of this site was completed in 2005 and a long-term monitoring program was initiated. In 2013 and 2014 a maintenance assessment was completed at site to provide additional information to complete the design and specifications for additional remedial work at the site .								
Licence Requirem with		see must provide the following information in accodance							
	Part B Tit	em 1 🔻							
	ewage and gre	nd waste disposal activities, including, but not limited to: methods of ywater management; drill waste management; solid and hazardous							
	er Source(s): er Quantity:	No water source used this year Quantity Allowable Domestic (cu.m) Actual Quantity Used Domestic (cu.m) Quantity Allowable Drilling (cu.m) Total Quantity Used Drilling (cu.m)							
Wast	te Management a Solid Waste Dis Sewage								

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☐ Drill Waste	
Greywater Hazardous	
Other: No waste produced on-site this year	
Additional Details:	
Supplemental assessment work was planned in 2015 to further delineate contaminated areas and to conduct a risk assessment. However, due to bad weather, the field work has been postponed to 2016. The water licensed expires June 1, 2016. An extension to the water licensed will be sought shortly. The project team is planning to conduct the supplemental assessment work as well as long-term monitoring in July 2016.	
An Environment Canada licensed temporary PCB storage facility is at site. In addition, Tier 1 and 2 level contaminated soils are stockpiled for later removal and off-site disposal.	
A temporary PCB storage facility registered with Environment Canada is maintained on-site.	
list of unauthorized discharges and a summary of follow-up actions taken.	
Spill No.: Date of Spill: Date of Notification to an Inspector: Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc) N/A	
and a final distribution of the Court of the	
evisions to the Spill Contingency Plan SCP submitted and approved - no revision required or proposed	
Additional Details: N/A	
evisions to the Abandonment and Restoration Plan No Abandonment and Restoration (AR) Plan submitted or approved	
No Abandonment and Restoration (AR) Fiant Submitted of approved	
Additional Details:	
N/A	
ogressive Reclamation Work Undertaken	
Additional Details (i.e., work completed and future works proposed)	
Future work includes: - maintenance/decommissioning of PCB barriers inciparation of old final and decommissioning of final systems	

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- incineration of oid fuel and decommissioning of fuel systems
- monitoring existing non-hazardous landfills
- further delineation and risk assessment of the identified contaminated soils
- removal of contaminated soils and stockpiled materials

Background:

From 1993 – 1996, environmental work at the site was detailed in a set of reports entitled "Environmental Study of a Military Installation at Resolution Island, BAF-5" by Environmental Sciences Group.

From 1997 onwards, work at the site was managed by the Qikiqtaaluk Corporation through a contribution agreement with INAC. Initial work included infrastructure improvements and included some remediation activities and training. From 2003-2005 remediation was conducted.

In 2005 approximately 12,000 m³ of contaminated soil was placed within the Tier II landfill. Following placement of all Tier II and Tier I soil the landfill was sealed and capped. The Beach Dump, PCL Dump, Maintenance Dump and North Slope Dump were excavated, compacted and capped. Miscellaneous debris on site was collected and landfilled in the new non-hazardous landfills which were compacted and capped. All hazardous waste found on-site was packaged, according to the Transportation of Dangerous Goods Regulation and transported to a southern facility for disposal.

Remediation efforts were completed in 2006 with the demolition of the camp which was placed in the non-hazardous landfill nearby and compacted and capped. Demobilization from site occurred in September, leaving a Tier II landfill, two nonhazardous landfills, a remediated PHC landfarm, an experimental insitu landfarm, several regraded dump and borrow areas, and three Permeable Reactive Interceptor Barrier systems installed in the drainage pathways of the S1/S4 Valley, S1/S4 Beach and the Furniture Dump. A small camp to accommodate up to ten people to support the Long Term Monitoring (LTM) activities was also established.

In addition to the infrastructure described above, a number of original site buildings were left in place as they were either deemed to pose no risk to human or environmental health, or were left to support the LTM activities.

Nine 32,000L and one 60,000L fuel storage tanks remain on site, these tanks contain a total of approximately 50,000L of product; these were used in support of LTM activities. They no longer are used in support of the long-term monitoring and will be decommissioned.

Long-term monitoring activities have been conducted on site since 2005. Long-term monitoring conducted in 2012 identified a number of issues that required additional review. A Maintenance Survey was conducted in 2013 and 2014 to define the scope of the additional work required.

Future work will include continued monitoring of the performance and condition

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of existing landfills; decommissioning of fuel storage systems; further delineate contaminated soils; removal of residual contaminated soils; and removal, repair or replacement of existing PCB barrier systems.

Results of the Monitoring Program including:

Details attache	ed			~
Additional De	etails:			
			seconds of latitude a	_
Details attache	ed			•
Additional De	etails:			
Results of a	ıny additional sam	pling and/or analys	is that was requeste	d by an In
No additional s	ampling requested by ar	n Inspector or the Board		•
Additional Do	etails: (date of reque	est, analysis of result	s, data attached, etc)	
details on wate	er use or waste dis	sposal requested by	the Board by Nove	mber 1 of t
	ampling requested by ar	n Inspector or the Board		-
Additional De	etails: (Attached or լ	provided below)		
ass or follow	-un actions on insi	pection/compliance	renorts	
1262 OF TOHOM:	and/or compliance report		. 5,50.10	-
No inspection a		port, Follow-up by the	e Licensee)	

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Any additional comments or information for the Board to consider

The water license expires June 1, 2016. An extension is required to continue long-term monitoring work and conduct supplemental assessment work in the summer of 2016. An extension will be sought shortely.

Date Submitted: March 22, 2016

Submitted/Prepared by: Karine Turpin

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GPS Coordinates for water sources utilized

	Latitude			Longitude		
Source Description	o Deg	, Min	, Sec	o Deg	Min	, Sec
Monitoring Well (MW) 1A	61	35	48.11	64	38	39.75
MW 1B	61	35	48.37	64	38	36.92
MW 2	61	35	45.66	64	38	42.96
MW3A	61	35	43.93	64	38	48.18
MW3B	61	35	44.01	64	38	48.06
MW4	61	35	44.71	64	38	48.91
MW5A	61	35	43.47	64	38	50.54
MW5B	61	35	43.43	64	38	50.75
MW6	61	35	42.65	64	38	53.88
MW11	61	35	51.36	64	39	40.99
MW12	61	35	54.67	64	39	45.85
MW13	61	35	53.55	64	39	48.01
MW14	61	35	54.5	64	39	48.27
MW21	61	35	43.15	64	38	58.8
MW22	61	35	43.1	64	38	59.06
Old Water Lake	61	35	22.24	64	39	24.55

GPS Locations of areas of waste disposal

Location Description (type)	Latitude			Longitude		
	o Deg	Min	Sec.	o Deg	Min	Sec.
Monitoring camp sewage lagoon	61	35	49.23	64	37	59.82
Temporary PCB Storage facility	61	34	57.38	64	38	52.53