Affaires autochtones et du Nord Canada

WATER LICENCE INSPECTION FORM

☑ Original☑ Follow-Up Report

Linnan			Linear	as Danusanta	4			
				Licensee Representative Bhabesh Roy —				
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Government of Nunavut			3101	Steve Piercey- Airport Manager				
			Repre	sentative's Titl	e			
3BM-YRB0308 Ex	pired		Reg	ional Eng	gineer			
•				Land / Other Authorizations				
Date of Inspection			Inspec	ctor				
July 7, 2016			A.K	eim				
Activities Inspected	7 6 200		□ Mistra	7.0		□ Bardanatian	□ .	
☐ Camp ☐ Roads/Hauling ☐	Drilling Other: W	ater Dischar	☐ Mining ☐			☐ Reclamation	☐ Fuel Stor	age
	_			-	•			
	ceptable			ceptable	NA –	Not Applicable	NI – Not II	-
Water Use	Condition	Comment	Site Conditions	Condition	Comment	Haz/Mat Manage		on Comment
Intake/Screen	NA		Water Management Structu	res NA		Storage	NI	
Flow Measure. Device	NA		Culverts / Bridges	NA		Spills	NI	
Source:	NA		Drainage	NA		Spill Plan	NA	
Water Use:	NA		Erosion / Sediment	NA				
Recirculation (y /n)	NA		Mitigation Measures	NA		Administrative		
			Reclamation Activities	NA		Records	NI	
			Materials Storage	NA		Reports	NI	
Waste Disposal			Signage	Α		Plans	NI	
Waste Water	U					Notifications	NA	
Solid Waste	NA		Monitoring			Other		
Hazardous Waste	NA		Sample Collection / Analy	sis A				
*Th	ne numbe	r in the co	omments field will correspo	nd with spe	cific comr	ments provided belo)W.	
Samples taken by Inspec	ctor:		Location(s): Sample colle	ected from p	onded w	aste water below th	ne Lagoon	
⊠ Yes □ No								
SECTION 1	Comme	nts (s)	Non-Compliand	e with Act o	or Licence	e (s) Ac	tion Required	(s)
The above noted expired	d water l	icense (3l	bm-YRB0308) Is one of thre	e licenses m	naking up	- the authorizations	issued to the	
		-	llity of Resolute Bay to prov	-			within the cor	nmunity
and to the airport locate	ed approx	kimately 7	kn from the community of	Resolute Ba	ay Nunav	ut.		
	there ha	ve been :	7 inspections of this facility	. Each inspe	ction has	identified the follow	wing issues wi	th the
Lagoon;								
Between 2006 and 2015 the Lagoon has overtopped or breached every winter due to limited capacity								
Sample collection and reporting of results have been inconsistent								
Operation of the lagoon continues								
Various issues with Administrative compliance								
During the period of the 2016 inspection the above noted issues were also identified to the Government of Nunavut representative,								
Mr. Bhabesh Roy who indicated that the Government had no intention of spending any money on the lagoon and that there were no								
			ention of the Licensee is to					
Waste Water facility can be commissioned under 3BM-RUT1520 and that license amended to allow for the discharge of effluent from the airport facility to the New facility in Resolute Bay.								
		_	•					
	nsee wil	be able t	o treat that extra volume o	of raw efflue	nt in a co	ntinuous flow syste	m with no hol	ding
time.								
The Contractor on site a	lso noted	that wor	k on the Lagoon facilities w	ould be req	uired to f	acilitate the dumpi	ng of the new	effluent
	-	-	he contractor. The modific			•		-
the overall scope of the now expired license but the contractor and the Licensee were both informed that they should contact the								
Nunavut Water Board to inform them of this modification.								



SECTION 2	Comments (s.)	Non-Compliance with Act or Licence (s.)	Action Required
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Between 2006 and 2016 there have been 7 inspections of this facility. Each inspection has identified the following issues with the Lagoon;

- Between 2006 and 2015 the Lagoon has overtopped or breached every year
- The Lagoon is a non-engineered lagoon that was designed for a much reduced capacity. (Note the capacity of the lagoon has increased over the last ten years however it has not kept pace with the volume of effluent produced by new development and expanded use of Airport facilities in recent years.
- Work (construction of additional cells) completed on the Lagoon was not previously submitted to the NWB for approval not has the on-going work completed by Contracted operator at the site in 2016
- An operations manual for the facility and plan to maintenance has not been completed or submitted.
- The Licensee, specifically the Government of Nunavut, has failed to follow the orders of an inspector contained within an Inspectors Direction issued pursuant to the Act in 2008.

Specifically, in 2016 during the Inspection, the Inspector noted the following:

- o Failure to notify the Nunavut Water Board of a modification to Part C (1).
- o Failure to submit the Plan required under Part D (3).
- o Failure to submit the required Operation and Maintenance Manuals for the Sewage Disposal facility (Part F (1)) *
- o Failure to development and submit a QA/QC Plan. Part H (3)).
- o Failure to submit as required the appropriate Abandonment and Restoration Plans (Part G (1)).
- o Failure to implement the requirements listed under the Monitoring Program (Part H).
- o Failure to maintain the Sewage lagoon to the satisfaction of the inspector (Part D (8)).

* It is noted that following the Inspection and prior to filing this report the Government of Nunavut Submitted an application for renewal of this license along with a number of outstanding plans and manuals including a plan for compliance and an operations manual for the Airport lagoon.

The Licensee has indicated that there are works in place to deposit the effluent from the Airport system into the waste water system operated under the authority of 3BM-RUT1520 (also in the name of the Government of Nunavut). This deposit is to be incorporated into the discharge currently on the foreshore of the community and flowing into the arctic ocean. Currently as there is no treatment system in place to treat the disposal of the effluent generated by the community via this discharge it is unlikely that the addition of an extra 4.2 million litres of effluent from the Airport will have any positive effects other than to stop the overflow from occurring at the airport lagoon.

Photo Log			
Date	Authorization	Camera	Inspector
July 7, 2016	3BM-YRB0308 EXPIRED	Sony Cyber shot	A. Keim





Figure 1 Newer of the lagoon cells where truck drops off



Figure 2 Older cell, shallow and frozen to bottom during period of inspection





Figure 3 Older cell with newer cell (N) in the background



Figure 4 Newer cell is divided into two, original cell to left of farther cell







Figure 5 Truck drop off point that required up-grades and maintenance to facilitate off loading



Figure 6 sampling site below lagoon. Samples collected during period of inspection.





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Licensee or Representative	Inspector's Name		
	A. Keim		
Signature	Signature		
	Original on File		
Date	Date		
	August 10, 2016		

Office Use Only: Follow-up report to be issued by Inspector	
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