

Licensee

WATER LICENCE INSPECTION FORM

Licensee Representative

\boxtimes	Original		
	Follow-U	p Re	port

TMAC Resources Sarah Warnock						
Licence No. / Expiry Representative's T						
			al Coordinato	r		
Land / Other Authorizatio	ns		Land / Other Author	orizations		
77A/3-1-2						
Date of Inspection			Inspector			
8-9 July 2017			Eva Paul			
Activities Inspected Camp	☐ Drilling	Mining		n \square Dec	clamation	∑ Fuel Storage
Roads/Hauling	Other:	M Milling	Other:	on Like	Jamation	Z ruci storage
Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspe	ected NA-	Not applicable
PART:				Item No.*	Condition	Observation No.*
A: SCOPE, DEFINITION	NS AND ENFORCEME	NT			А	
B: GENERAL CONDITI	ONS				А	
C: CONDITIONS APPL	YING TO SECURITY				NI	
D: CONDITIONS APPL	YING TO CONSTRUC	TION AND OPERATION	IS	D4,16	С	1
D: CONDITIONS APPLYING TO CONSTRUCTION AND OPERATIONS			IS	D11	С	2
D: CONDITIONS APPL	YING TO CONSTRUC	TION AND OPERATION	IS	D27	С	3
E: CONDITIONS APPLYING TO USE OF WATER				А		
F: CONDITIONS APPLYING TO WATER MANAGEMENT			F2	С	3	
G: CONDITIONS APPLYING TO WASTE MANAGEMENT / PLANS			G21	А	4	
G: CONDITIONS APPLYING TO WASTE MANAGEMENT / PLANS			G27(j)	A	5	
G: CONDITIONS APPLYING TO WASTE MANAGEMENT / PLANS			G35	А	6	
H: CONDITIONS APPLYING TO MODIFICATIONS				А		
I: CONDITIONS APPLYING TO CONTINGENCY PLANNING				А	7	
J: CONDITIONS APPLYING TO GENERAL AND AQUATIC EFFECTS MONITORING				А		
K: CONDITIONS APPLYING TO GENERAL / AQUATIC EFFECTS MON. PLANS				NI		
L: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE				А		
M: SCHEDULES						
*The item number corresponds with specific conditions within the licence and the observation number corresponds with specific						
comments provided below.						
Samples taken by Inspector: Location(s): ST-6A, ST-6B, TL-1						
⊠ Yes □ No						
SECTION 1						
An inspection was conducted over July 9.0.2017 at TMAC's Daris North Project. I was accompanied throughout the inspection by						

An inspection was conducted over July 8-9 2017 at TMAC's Doris North Project. I was accompanied throughout the inspection by Sarah Warnock, TMAC's on-site Environmental Coordinator. The facilities inspected included: Roberts Bay Fuel Farm, waste management area, and jetty; the airstrip, apron, and new pad construction; the laydown area; the burn pan, landfarm, quarry, and new burn pan placement; Doris North camp, mill pad, waste rock and ore piles, and water management structures; and the TIA, TIA road, reagent pad, explosives storage, tailings line and discharge.

Changes to site since my April 2017 inspection include a pad for de-icing (in progress) at the south end of the airstrip, the second (east) emergency tailings catchment at Doris Creek (in progress), the liner for the reagent pad, the removal of the fueling station and empty drums from Roberts Bay, and a modification to the detoxified tailings chute for backhaul underground.

Comments specific to items identified above:

- 1. No silt fencing was installed at Doris Creek for the construction of the emergency catchment on the east side of the creek. No visible sediment/construction rock was visible near the creek at the time of the inspection.
- 2. It was suggested that due to a shortage in availability of liner, the expansion of the single bulk tank berm may be postponed but the tank may be partially filled during the fuel delivery later this summer.
- 3. It is noted that the northern extent of the waste rock pile not only abuts the diversion berm, but sits atop it. This means that some runoff from the waste rock pile could flow over the berm. The diversion berm is specifically named in the licence for regular inspections; this issue should have been noted before now.
- 4. Much progress on managing construction waste and general site tidiness has been made since my April inspection. Now that the major construction is past, attention can return to smaller debris, garbage, and small spills around site.
- 5. A modification to the loading area for detoxified tailings was undertaken following my April inspection. The contaminated gravel was removed and replaced with a solid pad on which the waste now falls. It appears that the waste is now loaded by excavator into trucks for haulage back underground.



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- 6. It is noted that the construction of a pad for de-icing aircraft means that a plan to manage aircraft de-icing fluid and storage is likely in the works. Please note that this plan is to be submitted at least three months prior to the anticipated usage of de-icing fluid.
- 7. Samples were taken prior to, and during the spring dewatering of the Roberts Bay fuel farm. The pre-discharge samples were compliant, but the mid-discharge sample (taken voluntarily) showed a toluene exceedence. TMAC reacted appropriately and diverted the discharge immediately to the TIA rather than the tundra location, and also re-sampled. The third set of samples was compliant. After discussion, it was agreed that a spill report would be filed with an estimate of the volume of potentially-non-compliant effluent discharged [spill #17-249]. There was a spill within the berm that was noted during my last inspection (non-reportable). Several spills were also inspected during this visit and will be closed with the Spill Line: 15-453, 16-228, 16-293, 16-328, 17-041, 17-069 and 17-102. TMAC spill handling procedures are generally very good, although small visible stains are becoming more common around site. Spill 16-427 (1500L sewage from WWTP) was inspected but will not be closed at this time; it is expected that further work may be required as some effluent is trapped under the facility and cannot be addressed until it is moved (or removed at closure).

	until it is moved	(or removed at close	ai cy.	
SEC1	TON 2	Comments	Non-Compliance with Act or Licence	Action Required
N/A				
SEC1	TON 3	Comments	Non-Compliance with Act or Licence	Action Required
A.	Please ensure th	at any usage of the s	single tank at Roberts Bay is consistent with CCME Cod	e of Practice as per Part D item 11a.
B.	Ensure that the	waste rock pile is wh	olly contained within the diversion berm and that no r	unoff from waste areas may flow
	over the north si	de of the berm.		
C.	Please provide a	ssurance that the eq	uipment used to manage detoxified tailings is not used	d for any purposes that may
	contaminate nor	n-contact materials o	or areas.	
D.	Sampling metho	ds for BTEX are to be	e reviewed to ensure all employees are following samp	ling protocols.

Licensee or Representative	Inspector's Name
	Eva Paul
Signature	Signature
	Sent electronically
Date	Date
	19 July 2017

Office Use Only:	Follow-up report to be issued by Inspector	☐ Yes ☒ No

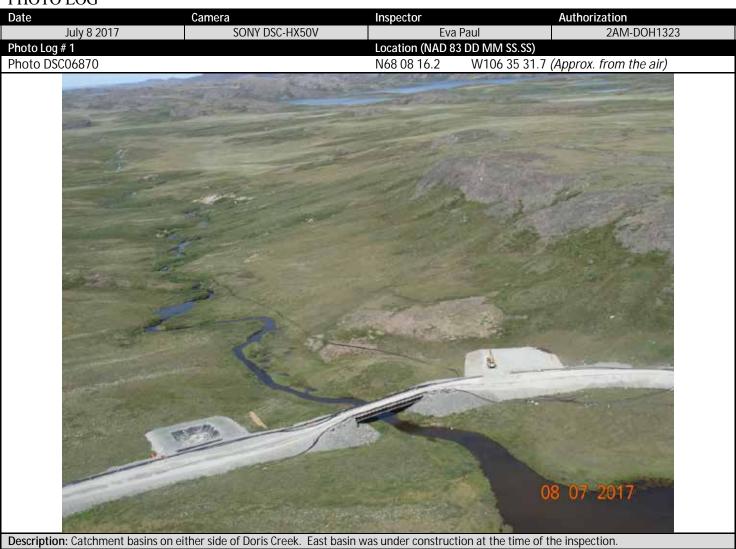
CC: Licensing Department, NWB

Erik Allain, Manager of Field Operations, INAC

Kitikmeot Inuit Association

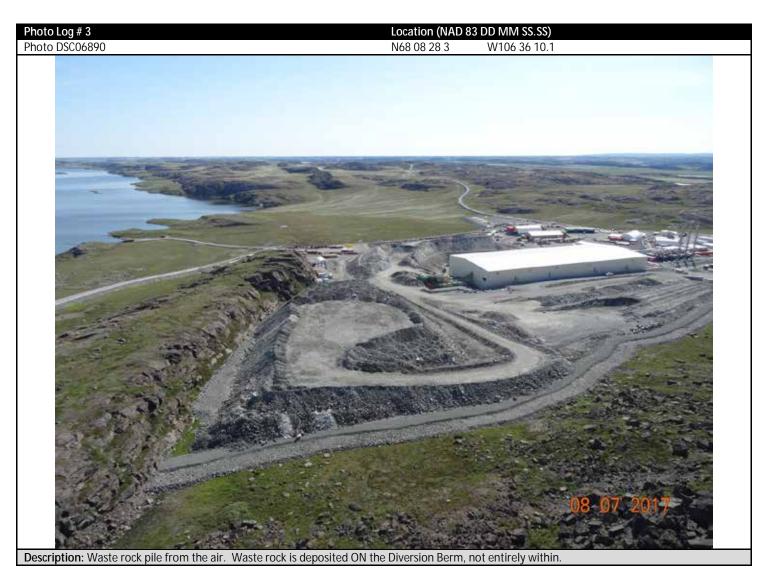


PHOTO LOG



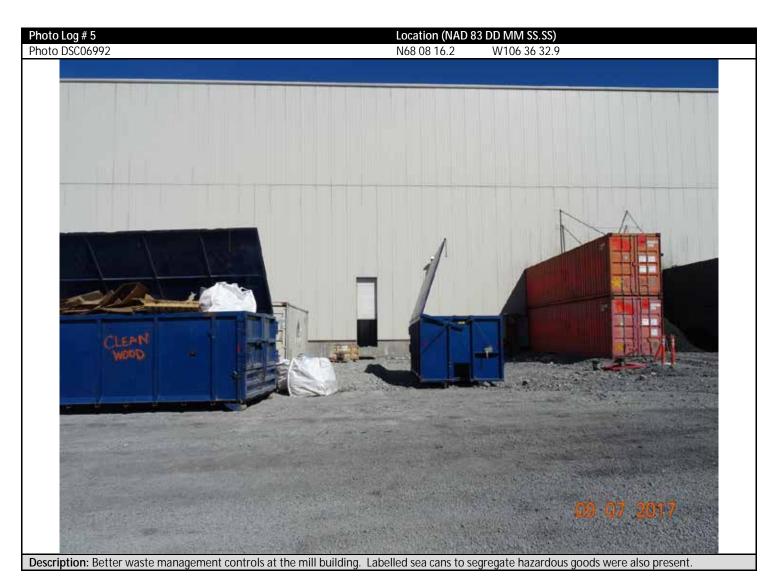


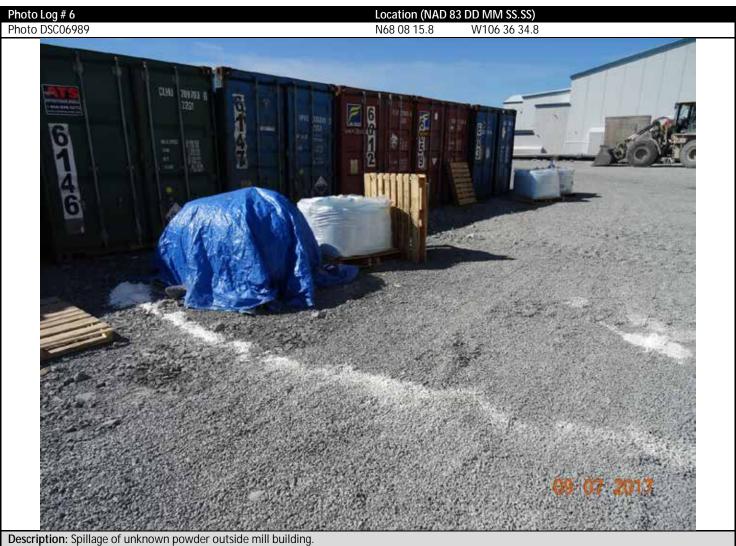




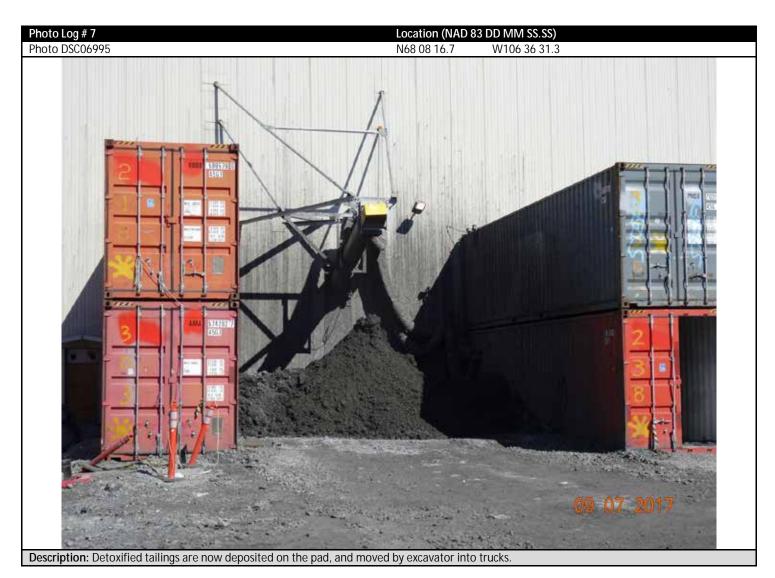








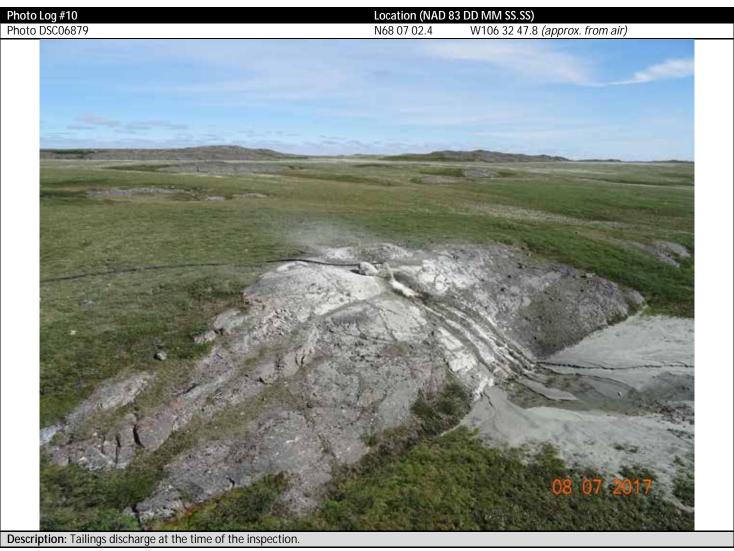
















Description: 5ML berm at Roberts Bay – fuel station and empty barrels removed. TMAC intends to combine these 2 berms to provide adequate containment for the 5ML tank which cannot currently be used.

