



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee	Licensee Representative
Tmac Resources Inc.	Kyle Conway
Licence No. / Expiry	Representative's Title
2AM-DOH1323, 2BB-BOS1727	Environmental Supervisor
Land / Other Authorizations	Land / Other Authorizations
Land Lease 77A/3-1-2	
Date of Inspection	Inspector
August 3-4 2018	Jonathan Mesher
Activities Inspected	
<input checked="" type="checkbox"/> Camp <input checked="" type="checkbox"/> Drilling <input checked="" type="checkbox"/> Mining <input type="checkbox"/> Construction <input type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Fuel Storage	
<input checked="" type="checkbox"/> Roads/Hauling <input type="checkbox"/> Other:	<input type="checkbox"/> Other:

Conditions: A- Acceptable U-Unacceptable C-Concern NI-Not Inspected NA- Not applicable

PART:	Item No.*	Condition	Observation No.*
A: SCOPE, DEFINITIONS AND ENFORCEMENT			
B: GENERAL CONDITIONS			
C: CONDITIONS APPLYING TO SECURITY			
D: CONDITIONS APPLYING TO WATER USE	II	C	
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT	III	C	
F: CONDITIONS APPLYING TO MODIFICATIONS			
G: CONDITIONS APPLYING TO CONSTRUCTION			
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING	II	C	
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING	III	C	
J: CONDITIONS APPLYING TO MONITORING			
SCHEDULES			
<i>*The item number corresponds with specific conditions within the licence and the observation number corresponds with specific comments provided below.</i>			
Samples taken by Inspector:	Location(s):		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

SECTION 1

☒ Comments (s. __)☐ Non-Compliance with Act or Licence (s. __)☐ Action Required (s. __)

An inspection was conducted on Aug 3 – 4 2018 to verify compliance with the water license 2AM-DOH1323. Jeremy Fraser and Jonathan Mesher of CIRNAC were accompanied by Kyle Conway of TMAC Resources. The inspectors visited all water use structures; raw water intake at Windy Lake and Doris Lake, Pollution Control Pond, Sedimentation Ponds, sumps at Doris main camp and Re-agent storage facility, active drills using water and deposits of waste within the project footprint including but not limited to; Land farm, TIA (Tailings Impoundment Area) including North and South Dams, Tailings pipe line, Burn bin, and all ditching and culverts throughout the mine site.

2AM-DOH1323

The inspectors arrived at approximately 1300hrs on August 3rd 2018 and met with Kyle Conway to begin the inspection.

Water Usage:

- I. Fish Screens installed at both raw water intake facilities; Windy and Doris Lakes
- II. Licensee is currently operating within the authorized water usage limits as stated in the License 2AM-DOH1323 approved to use up to and not exceeding 480,000 cubic metres per year. To date the licensee has used 9724 cubic metres of water for domestic use and 3517 cubic metres of water in support of mining activities.
- III. The inspector noted that there are no flowmeters installed. The installation of flowmeters has been discussed during past inspections with TMAC agreeing and understanding that this will alleviate the margin of human error in the calculations of Water used. Currently the records of water consumption is



done by adding truckloads of water drawn out of the approved water sources, whereas one flowmeter would have the total amount of water drawn from the water source.

As per Water License 2AM-DOH1323 Part E Conditions Applying to Water Use item 4

The licensee shall maintain the fresh water intake at Doris Lake and Windy Lake to the satisfaction of the inspector

Deposits/storage of Waste:

- I. Sea cans east of Roberts bay containing various hydrocarbons and potentially hazardous material continually being left open to the environment which can be a threat to the surrounding water bodies. It was noted that the sea cans will be lined to prevent hazardous material from entering any in land waters.
- II. It was observed that a spill of potentially Hazardous waste in the Waste Management Area behind mega bags labeled "oily rags" (*see figure #1*). All spills with an unknown amount of spillage or substance must be reported to the 24hr spill line as a requirement of the license 2AM-DOH1323 under Part I Item 5
- III. Inspectors noted a drum of waste water contaminated with hydrocarbons outside of secondary containment (*see figure #2*). This container must be held in secondary contamination as required by the license Part I Conditions Applying to Contingency Planning Item 3.

As per the 2AM-DOH Hazardous Waste Management Plan dated September 2016 section 3.2 *The container is the primary containment for the majority of all liquid or solid hazardous wastes generated on site. Containers will be placed in secondary containment (e.g. a lined facility or larger container) as necessary.*

- IV. Spill occurrence on the upper and lower underground laydown area; was responded to immediately isolating the contamination. The pipe carrying Tailings from the mill to the TIA broke releasing tailings onto the pad. TMAC was actively resolving the broken pipe and preventing the tailings from spreading. This spill was reported immediately under spill # 18-310
- V. There were active drills in the area inspectors noted that drill cuttings are being hauled back to Doris camp and deposited into the TIA.

2BB-MAE1727

On August 4th 2018 during travel to Boston Camp via TMAC Resources helicopter the inspectors flew over Madrid North and South sites and found no activity in the area. No concerns found regarding this water license.

2BB-BOS1727

On August 4th 2018 at approximately 1350hrs the inspectors conducted an inspection of Boston Camp operated by TMAC Resources. This camp was not in use during the time of inspection.

Water usage:

- I. The inspectors noted no activity related to mining within the 2BB-BOS1727 footprint.
- II. Portal leading underground – the portal is plugged with an ice cap and sampling has been done for this water management structure. No further concerns with this facility (*see figure #3*)

Deposit/storage of Waste:

- I. Bulk Fuel Storage – this facility contains water; sampling and request for discharge will occur prior to freeze up. There are no concerns with this facility.



Click here to enter text.

SECTION 3

☐ Comments

☐ Non-Compliance with Act or Licence

☒ Action Required

1. It is suggested that TMAC install intake flow meters at all raw water intake facilities due to the possible margin for error, this will ensure accurate tracking of water usage and minimize the human error aspect of TMAC water consumption.

Licensee or Representative

Kyle Conway

Signature

Date

9/28/2018

Inspector's Name

Jonathan Mesher

Signature

Date

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

☐ Yes ☐ No

CC: Licensing Department, NWB
Erik Allain, Director of Lands, CIRNAC

PHOTO LOG

Date	Camera	Inspector	Authorization
August 3rd 2018	Sony Cyber-shot	Jonathan Mesher	2AM-DOH1323

Photo Log # Location (NAD 83 DD MM SS.SS)

N W



Description: spill identifiable in the picture. Dark material behind the drip tray where the spill appears to originate



Photo Log #

Location (NAD 83 DD MM SS.SS)

Photo

N

W



Description: contaminated water not in containment

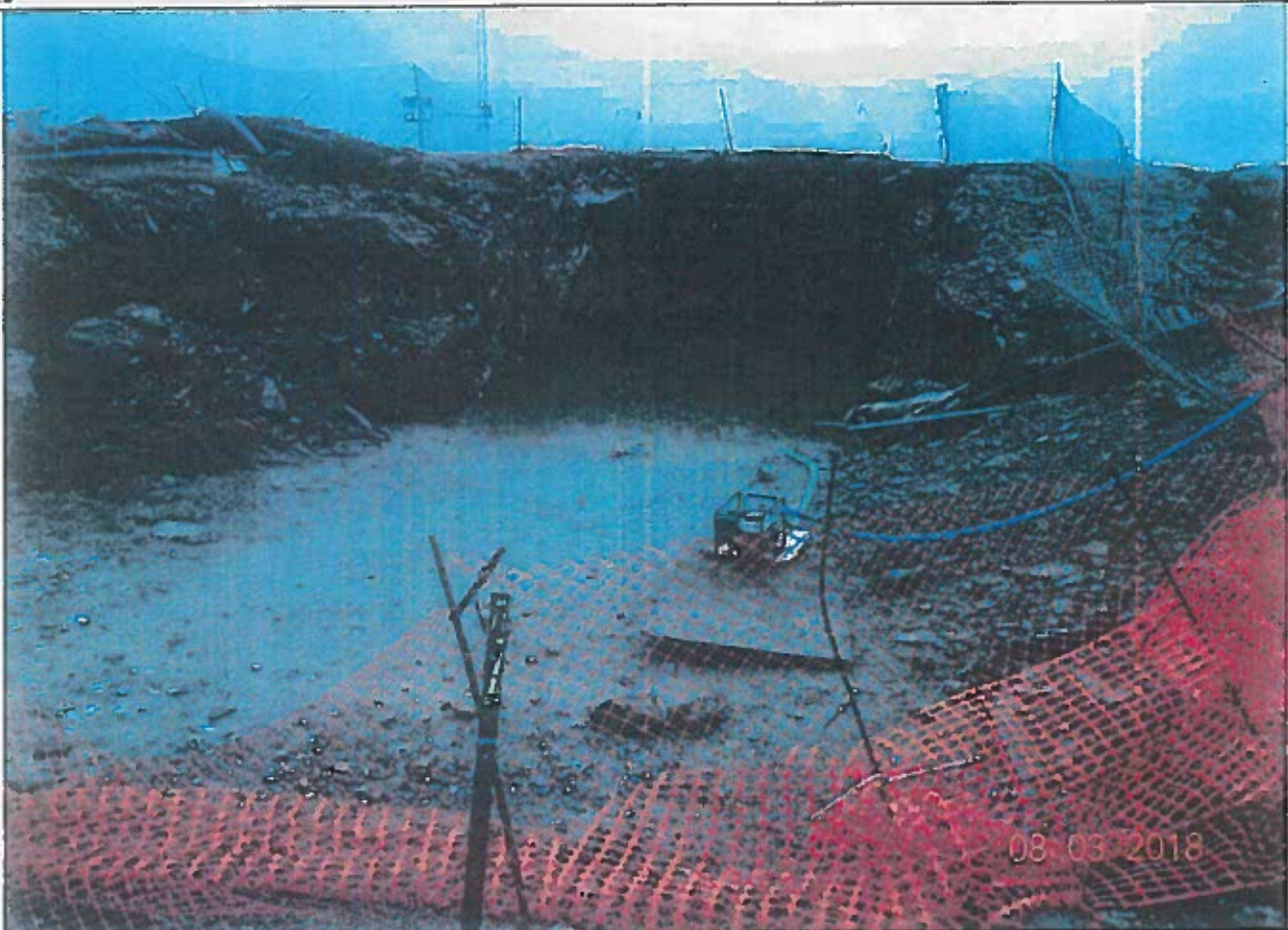
Photo Log #

Location (NAD 83 DD MM SS.SS)

Photo

N

W



Description: Boston Camp underground portal