


Date: Sept. 13, 2016

Exhibit No.: 19


12/09/2016


 Indigenous and Northern Affairs Canada / Affaires autochtones et du Nord Canada

**TMAC Resources Inc.**  
**Amendment Application**  
**No. 1 to Water Licence No.**  
**2AM-DOH1323**


Community Presentation  
Nunavut Water Board Public  
Hearing  
Cambridge Bay, Nunavut


September 13, 2016






**INAC-AANC**

Canada 

 Indigenous and Northern Affairs Canada / Affaires autochtones et du Nord Canada

**Outline**


1. Roles and Responsibilities
2. Review Process Contributions
3. Technical Review
4. Reclamation Security
5. INAC Inspections
6. Conclusion



**INAC-AANC**


2






Indigenous and  
Northern Affairs Canada

Affaires autochtones  
et du Nord Canada




**Doris Camp, August 2015**  
INAC Photo



INAC-AANC

3




Indigenous and  
Northern Affairs Canada

Affaires autochtones  
et du Nord Canada

## 2. Roles and Responsibilities

INAC's mandate and obligations stem from legislation.

- *Nunavut Waters and Nunavut Surface Rights Tribunal Act and the Nunavut Water Regulations;*
- *The Department of Indian Affairs and Northern Development Act;*
- *The Nunavut Land Claims Agreement Act;*
- *The Territorial Lands Act and the associated regulations; and*
- *The Arctic Waters Pollution Prevention Act and the associated regulations.*



INAC-AANC

4

Indigenous and Northern Affairs Canada / Affaires autochtones et du Nord Canada

### 3. Review Process Contributions

Contribution	Date
Ongoing review of Water Licence amendment application and relevant management plans	Aug. 2015 - Present
Nunavut Water Board (NWB) Technical Meeting (Cambridge Bay, NU)	Jan. 28-29, 2016
NWB Pre-Hearing Conference (Teleconference)	June 24, 2016
NWB Public Hearing (Cambridge Bay, NU)	Sept. 13-14, 2016

INAC-AANC

5

Indigenous and Northern Affairs Canada / Affaires autochtones et du Nord Canada

### 4. Technical Review

a) Water Quality and Quantity Predictions

- Management of freshwater at the mine site to ensure protection of surrounding water sources.

b) Roberts Bay Discharge Monitoring

- Discharge of water from the Tailings Impoundment Area to Roberts Bay (ocean) is not within the scope of the Water Licence.
- This activity will be addressed under the *Metal Mining Effluent Regulations* and may also require authorization under the *Arctic Waters Pollution Prevention Act*.

INAC-AANC

6



Indigenous and  
Northern Affairs Canada
 Affaires autochtones  
et du Nord Canada



**Doris Lake, August 2015**


INAC Photo



Indigenous and  
Northern Affairs Canada
 Affaires autochtones  
et du Nord Canada

INAC-AANC

7



Indigenous and  
Northern Affairs Canada
 Affaires autochtones  
et du Nord Canada


## 4. Technical Review

### c) Waste Rock and Tailings

- Design and management of aboveground Tailings Impoundment Area.
- Management of waste rock and tailings to be permanently stored underground.

### d) Mitigation Measures

- Dust control for aboveground tailings.



Indigenous and  
Northern Affairs Canada
 Affaires autochtones  
et du Nord Canada

INAC-AANC

8


 Indigenous and Northern Affairs Canada  
 Affaires autochtones et du Nord Canada

**Doris Lake and Tailings Impoundment Area**  
**North Dam, August 2015**  
 INAC Photo

INAC-AANC

9


 Indigenous and Northern Affairs Canada  
 Affaires autochtones et du Nord Canada

**Tailings Impoundment Area, August 2015**  
 INAC Photo

INAC-AANC

10

Indigenous and Northern Affairs Canada / Affaires autochtones et du Nord Canada

## 4. Technical Review

**e) Water Treatment**

- Treatment of sewage effluent and cyanide in mill process water.
- No additional treatment planned for water from the Tailings Impoundment Area before ocean discharge.


**f) Management Plans and Reports**

- Management plans describe how concepts are implemented.
- Monitoring reports document the results of project activities.

INAC-AANC

11


Indigenous and Northern Affairs Canada / Affaires autochtones et du Nord Canada



**Doris Creek, August 2015**  
INAC Photo

INAC-AANC






12


 Indigenous and Northern Affairs Canada / Affaires autochtones et du Nord Canada

## 4. Technical Review


### g) Closure and Reclamation Planning

- Final tailings cover design for Tailings Impoundment Area will be submitted for NWB approval before construction.
- Water quality in Tailings Impoundment Area must be satisfactory before the containment dam can be breached following closure.






INAC-AANC

13


 Indigenous and Northern Affairs Canada / Affaires autochtones et du Nord Canada

## 5. Reclamation Security

- Financial reclamation security must be provided to ensure closure costs are paid by the mine operator rather than the Crown or the land owner (Kitikmeot Inuit Association).
- The Department would like to co-manage reclamation security with the Kitikmeot Inuit Association.

INAC-AANC

14

## 6. INAC Inspections

INAC Water Resource Officers visit project sites to monitor compliance with Water Licences and other authorizations.

2015-2016 Doris North Gold Mine Site Inspections:

1. July 18-19, 2015;
2. Sept. 26-27, 2015; and
3. April 5-7, 2016.

Inspection reports with TMAC responses are available on the Nunavut Water Board's website.



15

INAC-AANC




**Diamond Drill at Hope Bay, August 2015**  
INAC Photo



16

INAC-AANC






Indigenous and  
Northern Affairs Canada

Affaires autochtones  
et du Nord Canada

## 7. Conclusion


The Water Licence Amendment Application should be accepted with consideration of the Department's comments.

The Department is interested in co-managing reclamation security with the Kitikmeot Inuit Association.



INAC-AANC

17




Indigenous and  
Northern Affairs Canada

Affaires autochtones  
et du Nord Canada



INAC Photo

Thank you



INAC-AANC

18