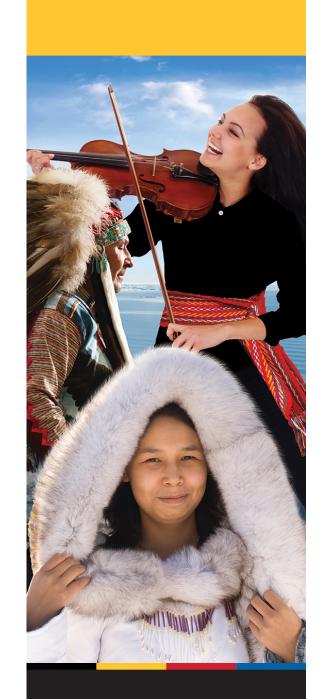
TMAC Resources Inc. **Amendment Application** No. 1 to Water Licence No. **2AM-DOH1323**

Community Presentation Nunavut Water Board Public Hearing Cambridge Bay, Nunavut

September 13, 2016









Outline

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



Doris Camp, August 2015 INAC Photo



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.

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



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*.





Doris Lake, August 2015 **INAC Photo**

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.



Doris Lake and Tailings Impoundment Area North Dam, August 2015

INAC Photo











Tailings Impoundment Area, August 2015 INAC Photo

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.





Doris Creek, August 2015 INAC Photo

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.



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.



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.





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

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.



Thank you

INAC Photo

