



TMAC Resources Inc.

Ihoaghaotait Toghiotaitnik No. 1

Immap Laisighamik No. 2AM-DOH1323

Nunaliitnin Onipkagiyaoyot

Tatvunga Nunavumi Immalikiyiita Katimayiitnun Nalaktaotitlugit
Katimapkaititlogit

Ikaluktutiami, Nunavut

Saptaipa 13, 2016

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



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Kapihiliktomi Iglukpakakviat, Aggasi 2015-mi

INAC-kut Piksaotait

Doris Camp, August 2015

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2. Havagiyaghait uvalu Monagitjutighait

INAC-kut havagiyait uvalu tonighimatjutait tatvangaghimayot hapkunanga maligaoyoniit.

- *Nunavumi Immalikinikut uvalu Nunavumi Nunnani Kanganiitonik piyunaotaita Maligak uvalu Nunavumi Immalikinikut Maligaitnik;*
- Ukkua Havakviata Nunakakaktot uvalu Okioktaktomi Pivalialikinikut Maligak;
- Una *Nunavumi Nunatakuaita Angekutaita Maligak;*
- Una Avikughimayoni Nunalikinikut Maligak hapkualo ilaliothimayot maligaoyot; uvalu
- Una Okioktaktomi Emmaotaitnik Halomaiyaktailitjutaita Maligak hapkualo ilaliothimayot maligait.

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. Ihivgioghitjutaitnun Aolatjutitinik Ikkayotait

Ikkayotaoyot	Ublua
Ihivgioghimakutait hapkuninga Immap Laisighaktakutighaita ehoaghaotighaitnik toghiotaita hapkualo ajikutait monagitjutighaita paknaiyaotait	Aggasi. 2015-min Ublimimut
Nunavumi Immalikiyiita Katimayiit (NWB-kut) Ayungitot Havaktiita Katimaniat (Ekaluktutiami, Nunavut)	Januali 28-29, 2016
NWB-kut Katimaniahaktitlogit Katimaniat (Hivayaotikut Katimahimayot)	June 24, 2016
NWB-kut Nalaktaolotik Katimavighat (Ekaluktutiami, Nunavut)	Saptaipa. 13-14, 2016

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

4. Ayungaktonik Havagiyaitnik Ihivgiokutait

a) Immagingninganik uvalu Immakaohianik Etkoniakutait

- Monagitjutighaitnik immagiktot tatvani uyagaghiokvikmi amegitiagiangita hilataniitot immaktaohiit haffuma havakvioyop.

b) Roberts Bay-mi Kangikhokmut immap kokloakningata Kimilgokutait

- Koviogakninga immap tatvanga halomailgonik koviogakviatnit tatvunga Roberts Bay-mut Kagikhokmut (tagiokmut) pitjutaongitok tatvani Immap Laisighaktutighani.
- Hamna havagiyaoyok okaotaoniakmiyok tatvani *Havivalokakningit Uyagaghiokvikmi immak halomailgok Maligait okaotaolikakta tatvalo toghioktaoyagiakakniagungnakhiyok tatvani Okioktaktomi Immap Halomaiktaitjutytaita Maliganik.*

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*.



Kapihiliktomi Taghik, Aggasi 2015-mi

INAC-kut Piksaotat

Doris Lake, August 2015

INAC Photo



4. Ayungnaktonik Havagiyaoyonik Ihivgiokhitjutait

c) Ekakoktaohimayonik Uyakanik uvalu Halomailgonik Koviogakvighak

- Tittigaoyakutighaitnik uvalu monagitjutighaitnik hapkua nunnap kanganiitop Koviogakvikakvighap.
- Monagitjutighait hapkuninga ekakoktaohimayot uyakkat uvalu halomailgonik koviogakviahimayop totkomaliokutighaitnik taimunga nunnap attanni.

d) Ehoaghaotighaita Oktotighait

- Hiogak tingilgaloni hiamaktailitjutigha nunnap kangani koviogakvioniaktup.

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.



Koviogakvighani Haputikakvikhak, Aggasi 2015-mi

INAC-kut Piksaotat

Doris Lake and Tailings Impoundment Area North Dam, August 2015

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Halomaitgonik Koviogakvighak, Aggasi 2015- mi

INAC-kut Piksaotat

Tailings Impoundment Area, August 2015

INAC Photo

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4. Ayoknaktonik Havagiyaoyonik Ihivgiokutait

e) *Immap Halomaghaotighait*

- Halomaghaotighait anaktavikmit halomailgok immap uvalu haffuma cyanide-nik uyakkat hikoptigiatnit immaota.
- Tatva halomakpaliotighanik paknaiyakhimangitot haffuma immap tatvangaktoniit Halomailgonik koviogakviatnit anniatinago tagiokmut.

f) **Monagitjutighaita Paknaiyaotighait uvalu Onipkaliokutighait**

- Monagitjutighaita paknaiyaotighaitnik naonaipkutaoyot kanok hapkua ihomaghotaoyot ehoaghaktaovaktot.
- Kimilgokataknikut onipkaliokutait titigakhimayot kanok hapkua havagiyaoyot innikpaliavangmangata.

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.



Kapihiliktomi Kugaoyak, Aggasi 2015-mi

INAC-kut Piksaotat

Doris Creek, August 2015

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4. Ayoknaktonik Havagiyaoyonik Ihivgiokutait

g) Omiktigotighaitnik uvalu Haligaotighaitnik Paknaiyaotait

- Kingolipak haffuma halomailgonik koviogakvighaita kalligata tittigaoyaotigha toniyaoniaktok ukkua NWB-kut angekiakaktat hamna hannayaoliktinago.
- Hamna immagigiakha Halomailgonik Koviogakviatni namagiyaoyagiakaktok hamna anniatailitjutaat haputi angmaktaotinago hamna uyagaghiokvik omiktaotinago.

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.



5. Omiktigotighaita Maniit Akkiliktotighait

- Maniit akkiliktotighait omiktigotighait hatkiktaohimayagiakaktot akkiliktaoyageklotik tatvanga uyagaghioktiniit akkiliktoingitagiangita ukkua Kavamatokatunit uvalunin tatvanga nunanik nanminikaktonit (Kitikmeot Inuit Katuyikatigit).
- Ukkua Havakvigiyavut pikatigiyomainaktait havakatigilugit omiktigotighaita maniit akkiliktotighaitnik ukkua Kitikmeot Inuit Katuyikatigit.

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-kut Kimilgokutait

INAC-kut Immalikiyiita Havaktiit opaotikataktot tatvunga uyagaktakvioniaktomut kimilgogiaktokatakhogit malikayaghaita Immap Laisighaktagiyait maligaitnik uvalu ahianik atanektotaoyonik.

2015-2016-mi Kapihiliktomi Gold-nik Uyagaghiokviate Kimilgokutait:

1. July 18-19, 2015-mi;
2. Septaipa. 26-27, 2015-mi; uvalu
3. Appu 5-7, 2016-mi.

Hapkua kimilgokutaita onipkagit pitjutigivlugit ukkua TMAC-kut kiotjutait hatkiomayot tatvani Nunavumi Immalikiyiita Katimayiit kagitaoyaita aolatjutaitni.

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.



Kipliktonik Uyakanik Ekottat Kapihiliktomi, Aggasi 2015

INAC-kut Piksaotat

Diamond Drill at Hope Bay, August 2015

INAC Photo

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7. Inniktigotait

Hapkua Immap Laisighaktakutighait Ehoaghaotighait Toghiotaoyot angektaonginagiakaliktot ihomagitiaklogit ukkua Havakvigiyapta Ihomagiyait okaotigiyaitlo.

Ukkua Havakvigiyavut piyomainaktot huli okakatigihimakatigiyomavlogit ukkua Kitikmeot Inuit Katuyikatigit havakatigekutighanik haligaotighaita akkiliktotighaitnik.

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-kut Piksaotat

Koanakupiakuhi

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Thank you

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