

NUNAVUT WATER BOARD

Date: Sept. 13, 2016

Exhibit No.: 13

Environment and Climate Change Canada / Environnement et Changement climatique Canada

Canada

Environment and Climate Change Canada's Final Presentation
Regarding Amendment No 1 to Doris North Project
Type A Water Licence
2AM-DOH1323

Nunaup Avatingit Hilaup Aallannguqtirningagut Kanatam
Nunguani Takugakhangit Haffumani
Aallannguqtiqtauhimayuq No 1
ukunanngat Doris Nuat Havaariyakhait Tiliugaq A Imaup Laisiata
2AM-DOH1323

Final Public Hearing
Cambridge Bay, Nunavut
Mark Dahl
Sept 13, 2016

ECCC Mandate ECCC Maliktakhangani

- Preserve and enhance the quality of the natural environment including water, air, soil, flora and fauna
- Conserve Canada's renewable resources
- Conserve and protect Canada's water resources
- Huruqhiqtalliyut pivallianahuarlugillu nakuudjutinga ilitquhiriyangit avatait ilagiyangit imaq, anuri, marlut, nautiat huraallu
- Hapummilugit Kanatam nunguyiuttat avatimiuttat
- Hapummilugit huruqhiqtallilugillu Kanatam imaup avatimiuttat

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ECCC Mandate ECCC Maliktakhangani

- Forecast daily weather conditions and warnings
- Enforce rules relating to boundary waters
- Coordinate environmental policies and programs for the federal government
- Kangiqhinahuarlugit ubluq tamaat anuringa qanurilinganingit naunaiqtaaqhimalugit
- Pilimmakharlugit maliktakhait ilagiyangit kigilliuqtauhimayut imat
- Aulapkailugit avatimiuttat atuagait pillriakhait haffumani kavamatuqangit kavamaita

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Relevant Acts and Regulations Nalaumattiaqtut Malligait Maliguarutingillu

- Department of the Environment Act
- Canadian Environmental Protection Act
- Fisheries Act – Pollution Prevention Provisions
- Migratory Birds Convention Act
- Species at Risk Act
- Avatiliiriitkunniit Maliganga
- Kaniitian Avatingnut Hapummivingit Maligaaq
- Iqalungnut Maligaaq – Halumaittunut Pittailinahuamigut Ilaliutait
- Utiqtaqtut Tingmiat Katimadjutait Maligaaq
- Huratjat Nungutpalliaqtut Maligaaq

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ECCC's Role in the Process ECCC'p Inilluqtangit Iluani Piliriakhait

- Participated in all phases of the Doris North Water Licencing Process
- Provided scientific expertise that is within our mandate to the Nunavut Water Board, including water, sediment and effluent quality
- Ilauqatauhimayut tamainnut ilanganit haffumani Doris Nuat Imaup Laisiakhait Piliriakhait
- Ilagiyaulunilu qauyihamikkut ayuinningit iluaniittuni malikhakhavut ukunanngat Nunavunmi Imaliriyit, ilagivlugulu imat, hiurat, imait nakuuyut nakuunngittunillu nunamut makhaqtut

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ECCC's Role in the Process ECCC'p Inilluqtangit Iluani Piliriakhait

- Participating in ongoing discussions with TMAC outside of the process
- Ilagilugulu ukunanngat aturaaqtaqhait niplautigiyait ukunanngat TMAC hilataanit haffumani piliriakhait



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Summary of Recommendations Nainaaqhimayut Ihumaliurutikhait

- Monitoring locations in Roberts Bay
- Predicting effluent composition
- Monitoring parameters
- Mine water management
- Amiqhailugit nayugaanit uvani Roberts Bay mi
- Kangiqhihimalugit imait nakuuyut nakuunngittunillu nunamut makhaqtut havaangit
- Amiqhailugit kigililiqhimaningit
- Uyaraqtarviup imamut amiriyangit

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Monitoring Locations in Roberts Bay Amiqhailugit nayugaanit uvani Roberts Bay mi

ECCC:

- Monitoring sites too dispersed
- Consider oceanographic conditions
- Amiqhaiyangit nayugaat haatpallaqhimayut
- Ihumalugit taryumliuttat qanurilinganingit

TMAC

- Working group established
- Mixing of bay unlikely to affect plume
- Havaqatigiiktut aullaqtihaaqtangit
- Akuhimayut kangiqhut aktumaittumik iningit

STATUS – Resolved

INIKHAIT – Ihuaqhiyauyuq



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Predicting Effluent Composition Kangiqhihimalugit imait nakuuyut nakuunngittunillu nunamut makhaqtut havaangit

ECCC

- Model and monitor effluent from all sources
- Aadjiiliugait amiqhiyangitlu imait nakuuyut nakuunngittunillu nunamut makhaqtut tamainnit aallaqtinait



TMAC

- Committed to model
- Monitoring to be finalized in working group
- Ukpiaqtangit aadjiiliugamut
- Amiqhainahuarlugit inqiaqhimagiarmi havaqatigiktunut ilagait

STATUS – Resolved

INIKHAIT – Ihuaqhiyauyuq

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Monitoring Parameters Amiqhailugit kiglliluqhimaningit

ECCC

- Expand list of monitored parameters
- Angiklitiqhihimalugit amiqhainimut kiglliluqhimaningit naunairvikhat

TMAC

- Committed to monitor parameters on expanded list
- Ukpiaqtangit amiqhaigiami kiglliluqhimaningit angiklitiqhimayunit naunairvikhat

STATUS – Resolved

INIKHAIT – Ihuaqhiyauyuq

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Mine Water Management Uyaraqtarviup imarnut amiriyangit

ECCC

- Metal Mining Effluent Regulations Apply
- Saline mine water predicted
- Test species not appropriate for saline effluent
- Havigalik Uyaraqtarviuyuq imait nakuuyut nakuunngittunillu nunamut makhaqtut Maliguarutit Atuqtakhait
- Taryulik uyaraqtarvik imat kangiqhihimayauyut
- Uuktuliqtut aalatqit nalaumanngittut taryulingnit imait nakuuyut nakuunngittunillu nunamut makhaqtut

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Mine Water Management Uyaraqtarviup imarnut amiriyangit

ECCC

- Effluent management alternatives required in the interim
- Imait nakuuyut nakuunngittunillu nunamut makhaqtut amiqhaiyauyuq ihumagiyakhait kiugialik iluani atullakhimayangit



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Mine Water Management

Uyaraqtarviup imarnut amiriyangit

TMAC

- Presented water management alternative
- Propose discharge of saline effluent to Tailings Impoundment Area
- Takugakhauyut imat amiqhaiyangit ihumagiyakhait
- Tukhiutauhimayuq ahivaqtauhimayuq uuminngat taryulik Imait nakuuyut nakuunngittunilu nunamut makhaqtut Kuvvimut Kiiliqhimayumi Inikhaat
- STATUS - Resolved INIKHAIT – Ihuaqhiyauyuq

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Thank you

Quanaqqutit

