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Environment and Climate Change Canada's Presentation Respecting the Agnico Eagle Mines Ltd. Whale Tail Pit Project

ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐅᖁᓯᕙᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕ ᐅᖃᐅᓯᒃᓴᖏᑦ ᐃᒃᐱᒋᑦᓯᐊᖅᓗᒋᑦ ᐊᖕᓂᒍ ᐃᒍ ᐅᔭᕋᖕᓂᐊᖅᑎᑦ ᒍᐃᔪ ᑕᐃᔪ ᐱᑦ ᐅᔭᕋᒃᑕᕐᕕᐅᔪᖅ

NUNAVUT WATER BOARD
Date: September 26, 2017
Exhibit No.: 19

2AM-WTP----
Community Session
Baker Lake, NU
September 26, 2017

Overview
ᓇᓗᓇᐃᔭᐃᓂᖅ

- Mandate
- Relevant Acts and Legislation
- Environment and Climate Change Canada's Participation
- Environment and Climate Change Canada's Recommendations
  - Water Quality

- ᐱᓕᕆᐊᒃᓴᕆᔭᐅᔪᑦ
- ᐃᓱᒪᒋᔭᐅᔪᑦ ᒪᓕᒐᓕᐊᙳᖅᓯᒪᔪᓂᒃ ᐊᒻᒪᓗ ᒪᓕᒐᐃᑦ
- ᐊᕙᑎᒧᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᙳᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ ᐃᓚᒋᔭᐅᔪᑦ
- ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐅᖁᓯᕙᓪᓕᐊᓂᖓᓄ ᑲᓇᑕᐅᑉ ᐊᑐᓕᖁᔭᖏᑦ
  - ᐃᒪᐅᑉ ᖃᓄᐃᓐᓂᖓ

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Environment and Climate Change Canada's Mandate
ᐊᕙᑎᒧᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᙵᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ ᐱᓕᕆᐊᒃᓴᕆᔭᐅᔪᑦ

- Monitoring air and water quality and emissions of greenhouse gases
- Controlling the level of toxic substances in commercial products
- Forecasting meteorological patterns and reporting on weather conditions
- Consulting with Canadians, regulated stakeholders, researchers and governments

- ᖃᐅᔨᓴᕐᓂᖅ ᓯᓚᐅᑉ ᐊᒻᒪᓗ ᐃᒪᐅᑉ ᖃᓄᐃᓐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓯᓚᒧᐊᖅᑕᐅᕙᒃᑐᓂᒃ ᐃᓚᒃᓴᐅᔪᓂᒃ
- ᓈᒻᒪᒃᓯᒪᑎᑦᑎᓂᖅ ᖃᓄᐃᑦᑑᓂᖓᓄᑦ ᐊᑦᑕᕐᓇᖅᑐᓂᒃ ᐃᓚᒃᓴᐅᔪᓂᒃ ᐊᑐᖅᑕᐅᕙᒃᑐᓂᒃ ᑮᓇᐅᔭᓕᕆᐅᕈᑕᐅᕙᒃᑐᒃᑯᑦ
- ᓯᓚᒧᑦ ᖃᐅᔨᓴᕐᓂᖅ ᖃᓄᐃᓐᓂᐊᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓯᓚᓕᕆᓂᕐᒧᑦ ᓇᓗᓇᐃᔭᐃᓂᖅ ᖃᓄᓐᓂᐊᕐᓂᖓᓄᑦ
- ᖃᐅᔨᒃᑲᐃᓗᓂ ᑲᓇᑕᒥᐅᑕᓄᑦ, ᐊᖏᖅᑕᐅᓯᒪᔪᑦ ᐱᖃᑕᐅᓯᒪᔪᓄᑦ, ᖃᐅᔨᓴᖅᑎᓄᑦ ᐊᒻᒪᓗ ᒐᕙᒪᒃᑯᓐᓄᑦ

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Environment and Climate Change Canada's Mandate continued
ᐊᕙᑎᒧᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᙵᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ ᐱᓕᕆᐊᒃᓴᕆᔭᐅᔪᑦ ᑲᔪᓯᔪᖅ

- Researching and protecting the habitat of migratory birds and species at risk
- Permitting and, when necessary, preventing international trade in hazardous waste, hazardous recyclable materials and endangered species
- Promoting, inspecting and enforcing regulatory requirements

- ᖃᐅᔨᓴᕐᓂᖅ ᐊᒻᒪᓗ ᓴᐳᒻᒥᓂᖅ ᓇᔪᕐᕕᐅᔪᓄᑦ ᐊᐅᓪᓵᖃᑦᑕᖅᑐᓂᒃ ᖁᐸᓄᐊᓂᒃ ᐊᒻᒪᓗ ᐊᑦᑕᕆᔭᐅᔪᓂᒃ ᐃᖃᓗᒃᓯᐅᑎᓂᒃ
- ᐱᔪᓐᓇᕐᓂᖅ ᐊᒻᒪᓗ, ᐊᔪᕐᓇᙵᖏᓐᓂᖓᒍᑦ, ᐱᑦᑕᐃᓕᒪᓂᕐᒧᑦ ᓯᓚᕐᔪᐊᒥ ᑕᐅᖅᑰᖃᑦᑕᕐᓂᖅ ᐊᑦᑕᕐᓇᖅᑐᓂᒃ ᐊᑐᙵᖏᑦᑐᓂᒃ, ᐊᑦᑕᕐᓇᖅᑐᓂᒃ ᐊᑐᖅᑕᐅᒃᑲᓐᓂᕈᓐᓇᖅᑐᓂᒃ ᐊᒻᒪᓗ ᐊᑦᑕᕆᔭᐅᔪᓂᒃ ᐆᒪᔪᓂᒃ ᐊᔾᔨᒌᙵᖏᑦᑐᓂᒃ
- ᐊᑐᓕᖅᑎᑦᑎᓂᖅ, ᖃᐅᔨᓴᕐᓂᖅ ᐊᒻᒪᓗ ᐱᕚᓕᕐᓂᖅ ᐊᑐᐊᒐᓂᒃ ᐊᑐᕆᐊᖃᖅᑐᓂᒃ

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Relevant Acts and Regulations
ᐊᒃᑐᐊᔪᑦ ᐱᕐᑯᔭᐃᑦ ᒪᓕᒐᐃᓪᓗ

- *Department of the Environment Act*
- *Canadian Environmental Protection Act*
- *Fisheries Act* – Pollution Prevention Provisions
- *Migratory Birds Convention Act*
- *Species at Risk Act*

- ᐱᓕᕆᕝᕕᖕᒐ ᐊᕙᑎᓕᕆᓂᕐᒧᑦ ᐱᕐᑯᔭᐃᑦ
- ᑲᓇᑕᒥ ᐊᕙᑎᓕᕆᓂᕐᒧᑦ ᓴᐳᔾᔨᓯᒪᓂᕐᒧᑦ ᐱᕐᑯᔭᐃᑦ
- ᐃᕐᑲᓗᓕᕆᓂᕐᒧᑦ ᐱᕐᑯᔭᐃᑦ – ᓱᕈᕐᓇᕐᑐᕐᑲᕐᑕᐃᓕᒪᓂᕐᒧᑦ
- ᑎᑭᑦᑕᕐᑐᑦ ᑎᖕᒥᐊᑦ ᐱᕐᑯᔭᐊᖕᒋᕐᑲᑎᒋᒍᑎ ᐱᕐᑯᔭᐃᑦ
- ᐆᒪᔪᐃᑦ ᐊᑦᑕᕐᓇᕐᑐᒦᑦᑐᑦ ᐱᕐᑯᔭᐃᑦ

Environment and Climate Change Canada's Participation
ᐊᕙᑎᒧᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᙵᕐᑲᑉᐸᓪᓕᐊᓂᖕᒐ ᑲᓇᑕᒥ ᐃᓚᒋᔭᐅᔪᑦ

- Environment and Climate Change Canada provides scientific expertise within our mandate to the Nunavut Impact Review Board and the Nunavut Water Board
  - Air quality
  - Wildlife, specifically migratory birds and species at risk
  - Water and sediment quality
- Environment and Climate Change Canada has participated in all phases of this coordinated review process thus far

- ᐊᕙᑎᒧᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᙵᕐᑲᑉᐸᓪᓕᐊᓂᖕᒐ ᑲᓇᑕᒥ ᑐᓂᓯᓲᑦ ᓱᓇᑲᑯᑖᓂᑲ ᕐᑲᐅᔨᓴᕐᓂᕐᒧᑦ ᕐᑲᐅᔨᒪᔨᒻᒪᕆᖕᓂᑲ ᐱᓕᕆᐊᑲᓴᕆᔭᐅᔪᓄᑦ ᓄᓇᕗᒻᒥ ᐱᕙᓪᓕᐊᔪᓕᕆᔨᑲᑯᑦ ᕐᑲᐅᔨᓴᕐᑎᖕᒋᓐᓄᑦ ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ ᐃᒪᓕᕆᔨᑲᑯᑦ ᑲᑎᒪᔨᖕᒋᓐᓄᑦ

  - ᓯᓚᐅᑉ ᕐᑲᓄᐃᓐᓂᖕᒐ
  - ᓂᕐᔪᑏᑦ, ᐱᓗᐊᕐᑐᒍ ᕐᑯᐸᓄᐊᑦ ᐊᐅᓪᓛᕐᑲᑦᑕᕐᑐᑦ ᐊᒻᒪᓗ ᓂᕐᔪᑏᑦ ᐊᑦᑕᕐᓇᕆᔭᐅᔪᑦ
  - ᐃᒪᕐᑲ ᐊᒻᒪᓗ ᓴᐅᔭᐅᓂᑯᐃᑦ ᕐᑲᓄᐃᑦᑑᓂᖕᒋᑦ

- ᐊᕙᑎᒧᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᙵᕐᑲᑉᐸᓪᓕᐊᓂᖕᒐ ᑲᓇᑕᒥ ᐃᓚᒋᔭᐅᓚᐅᕐᑐᑦ ᑕᒪᒃᑭᓐᓂᑦ ᑲᑎᒪᑎᓪᓗᒋᑦ ᕐᑲᐅᔨᓴᕐᓂᕐᒧᑦ ᑕᐃᒪᙵᖕᒐᑦ

Water Quality
ᐃᒪᐅᑉ ᖃᓄᐃᑦᑐᓂᖓ

- Updated site-specific water quality objective for arsenic
- Updated treatment objectives for arsenic and phosphorus
- North wall pushback analysis
  - Determine risks and benefits to environment

- ᖃᓄᐃᓕᖓᓕᕐᒪᖔᑕ ᐃᓂᖓᓃᑦᑐᑦ ᐃᒪᖓ ᑐᑭᓕᐊᖑᕝᕙᓕᐊᓂᐊᖅᑐᓄᑦ ᑐᑯᓐᓇᖅᑐᓕᖕᓂᒃ
- ᖃᓄᐃᓕᖓᓕᕐᒪᖔᑦ ᒫᓐᓇ ᓴᓗᒻᒪᖅᓴᕐᕕᐅᔪᖅ ᑐᑭᓕᐊᖑᕝᕙᓕᐊᓂᐊᖅᑐᓄᑦ ᑐᑯᓐᓇᖅᑐᓕᖕᓂᒃ ᐊᒻᒪᓗ ᑐᕐᑯᓐᓇᖅᑐᓕᐅᖅᑐᑦ
- ᐅᐊᖕᓇᖓᓂ ᐊᑭᐊᖓ ᐊᔭᒃᓯᒪᔪᖅ ᖃᐅᔨᓇᓱᑦᑎᐊᕐᓗᒍ
  - ᖃᐅᔨᓇᓱᑦᑎᐊᕐᓗᒋᑦ ᐊᑦᑕᕐᓇᖅᑐᑦ ᐊᒻᒪᓗ ᐃᑲᔫᑎᔪᑦ ᐊᕙᑎᑦᑎᓄᑦ

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Water Quality continued
ᐃᒪᐅᑉ ᖃᓄᐃᓐᓂᖓ ᑲᔪᓯᔪᖅ

- Water quality modeling
  - Management plans for waste rock separation, thermal monitoring and seepage
- Water quality criteria for discharges

- ᐃᒪᖓᑕ ᖃᓄᓇᑑᔭᓇᐊᖃᕐᓂᖓ
  - ᐊᐅᓚᑦᑎᔾᔪᑕᐅᔪᓄᑦ ᐸᕐᓇᐅᑎᑦ ᐊᒃᑕᖅᑕᐅᔪᑦ ᐅᔭᖃᑦ ᐊᓯᐊᒍᑦ, ᓂᒡᓚᓱᖕᓂᖓᓄᑦ ᒥᐊᓂᓇᔭᐅᓗᓂ ᐊᒻᒪᓗ ᑯᕕᓕᓐᖕᒋᒃᑐᐊᕐᒪᖔᑦ
- ᐃᒪᑦᑎᐊᕙᐅᔭᓇᐊᖃᕐᓂᖓᑕ ᑕᖕᒋᖓ ᑯᕕᕙᓕᐊᔪᒥᑦ

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Water Quality continued
ᐃᒪᐅᑉ ᖃᓄᐃᓐᓂᖓ ᑲᔪᓯᔪᖅ

- Management of sludge from water treatment plant
  - Waste rock storage or tailings storage facilities, not attenuation pond/Whale Tail Lake
- Mercury study
  - Address uncertainties related to Arctic environment
- Testing of sediment core samples

- ᐊᐅᓚᑦᑎᔾᔪᑕᐅᔪ ᒪᕋᕐᒧᑦ ᐃᒥᕐᓄᑦ ᓴᓗᒻᒪᖅᓴᕐᕕᐅᔪᒥ
  - ᐅᔭᖃᑦ ᐊᑐᖅᑕᐅᔫᓐᖏᑦᑐᑦ ᐃᓂᖏᑦ ᐊᒃᑕᕐᕕᖏᑦ ᐅᒡᓚᓗᓐᓃᑦ ᐅᔭᕋᖕᓂᐊᖅᑕᐅᓐᖏᓐᓂᑯᑦ ᑯᕕᖅᑕᕐᕕᒃ, ᐃᔾᔪᑎᖅᓗᐊᕐᑯᓇᖓ ᑕᓯᕐᓂ/ᒍᐃᔪ ᑕᐃᔪ ᑕᓯᖅ
- ᐊᕿᕐᕈᔭᒃᓴᖅ ᐃᓕᑕᐅᓇᓱᖕᓂᖓ
  - ᐅᖃᐅᓯᕆᓗᒋᑦ ᓇᓗᓇᐃᖅᑐᑦ ᐱᔾᔪᒍ ᐅᑭᐅᖅᑕᖅᑐᖅ ᐊᕙᑎᖕᒐᓂ
- ᖃᐅᔨᓴᕐᓗᒋᑦ ᐃᖃᖕᒐᓂᑦ ᖃᐅᔨᓴᕈᑎᑖᕐᓗᑎᒃ

Thank you ᖁᔭᓐᓇᒦᒃ