WHALE TAIL PIT

THE FUTURE OF THE MEADOWBANK MINE

WHALE TAIL ᓄᓇᒥᐅ ᐃᓗᐊᑐᖅᓯᒪᔨᖅ
ᓯᕐᓂᓕᖏᓐᓄᐊᕐᑎᓪᓗᖅᑐᒥᐅ ᐅᓴᖅᑕᕐᓗᒃ

PART xi – MANAGEMENT PLANS AND MONITORING PROGRAMS

ᐊᐃᓱᖅᑐᖅᓯᒪᔨᖅ IV - ᐊᐅᓪᓚᑎᓂᕐᒧᑦ ᐸᖁᓇᐅᑦᐊᓕᓗ ᖃᐅᔨᒋᐊᖅᑕᖁᓂᕐᒧᑦ ᑐᖅᓱᖏᓐᓂᖅ

TECHNICAL MEETINGS – DAY 1 – APRIL 28, 2017
ᐱᓪᓚᐊᖅᒧᑦ ᑲᑎᒪᓂᕐᒥᒃ - ᐅᐸᑐᖅ 1 - ᐃᐳᓚ 28, 2017

MANAGEMENT AND MONITORING – PRESENTATION OVERVIEW
ᐊᐅᓪᓚᑎᓂᖅᐊᓕᓗ ᖃᐅᔨᓴᕆᐊᖃᑦᑕᕐᓂᖅ - ᑕᑯᕐᓇᓵᖅᑕᐅᓂᐊᖅᑐᓂᒃ ᐱᔪᔨᑎᓕ

- Overview of Agnico Eagle's approach to Management Plans and Monitoring Plans submitted for Whale Tail Pit (as an extension of Meadowbank Operations)
- Review of Whale Tail Specific Management Plans and Monitoring Programs:

i. Water Quality and Flow Monitoring

ii. Water Quality Monitoring and Management for Dike Construction

iii. Quality Assurance/ Quality Control

iv. Spill Contingency and Emergency Response Planning

v. Closure and Reclamation Planning

- ᐊᓱᓂᑯᑦᑯᑦ ᐊᑐᖅᑕᖏᓚᓵᓂᒃ ᐱᔪᔨᑎᓕᓐᓄᒃ ᐊᐅᓪᓚᑎᓂᕐᓗᑦ ᐸᖅᓇᐅᑎᓂᒃ ᐊᓚᑎᓕ ᖃᐅᔨᓴᕆᐊᖃᑦᑕᕐᓂᕐᓗᑦ ᐸᖅᓇᐅᑎᓂᒃ ᑐᓂᐅᑎᓂᒃ ᐊᓚᑎᓕ Whale Tail ᓄᓇᒥᑦ ᐃᓕᑐᖅᓭᒪᔪᖅ ᐱᔪᔨᑎᑦᓕᑐᒍ (ᐅᐃᒍᖏᓚ ᐊᐅᖅᑎᓵᓴᖅᑐᒥᑦ ᐊᐅᓪᓚᑎᓂᖅᓄᑦ)
- ᖃᑭᒥᖅᑭᓂᖅ Whale Tail-ᒍᑦ ᐊᐅᓪᓚᑎᓂᕐᒥᒃ ᐸᖅᓇᐅᑎᓂᒃ ᐊᓚᑎᓕ ᖃᐅᔨᓴᕆᐊᖃᑦᑕᕐᓂᕐᒍᑦ ᑐᖓᔪᓚᐅᓂᖅ:

i. ᐃᒪᐅᐸᖅ ᖃᐅᓄᐃᓵᓂᖏᓂᒃ ᐊᓚᑎᓕ ᑯᕕᐸᒥᒃ ᖃᐅᔨᓴᕆᐊᖃᑦᑕᕐᓂᖅ

ii. ᐃᒪᐅᐸᖅ ᖃᐅᓄᐃᓵᓂᖏᓂᒃ ᖃᐅᔨᓴᕆᐊᖃᑦᑕᕐᓂᖅ ᐊᓚᑎᓕ ᐊᐅᓪᓚᑎᓂᖅ ᐃᒪᖃᒥᒃ ᑲᑐᖅᑭᐃᓴᕕᖏᒥᑦ ᓴᓇᔨᐅᓂᖏᓂᓄᑦ

iii. ᖃᐅᓄᐃᓵᓂᐅᕐᒥᒃ ᓇᓗᓇᐃᖅᑭᓂᖅ/ᖃᐅᓄᐃᓵᓂᖅᓂᕐᒥᒃ ᐊᐅᓪᓚᑎᓂᖅ

iv. ᑯᕕᐸᓂᒃ ᓂᓚᐅᓇᖏᑦᑐᓄᑦ ᐊᓚᑎᓕ ᑐᐊᕕᓇᖅᑐᓄᑦ ᐅᐸᓗᐊᓂᕐᒍᑦ ᐸᖅᓇᐃᓂᖅ

v. ᐅᖅᑯᐊᖅᐸᑦᓭᐊᓂᖅ ᐊᓚᑎᓕ ᐅᑎᖅᑎᑎᓚᓂᕐᒍᑦ ᐸᖅᓇᐃᓂᖅ

WHALE TAIL PIT DOCUMENT MAP

WHALE TAIL ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓯᒪᔪᕐᒧᑦ ᓄᓇᙳᐊᖅ

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Introduction Binder
- Cover Letter
- Attachment A: NIRB Part 1 and Part 2 Application Forms
- Attachment B: NWB Application Form
- Attachment C: NPC Conformity Letter
- Attachment D: Non-technical Summary
- Attachment E: Executive Summaries

Volume 1 – Project Description
- Appendix 1-A: Agnico Eagle Financial Statement
- Appendix 1-B: List of Permits, Licenses, and Authorizations
- Appendix 1-C: Design Drawings / Conceptual Layouts
- Appendix 1-D: Scoping Level Open Pit Slope Design
- Appendix 1-E: Multiple Account Analysis

Volume 2 – Environment Overview Type A Water Licence
- Appendix 2-A: Record of Compliance to the Project Certification
- Appendix 2-B: Nunavut Impact Review Board Conformity
- Appendix 2-C: Regulatory History
- Appendix 2-D: Baseline Data Collection Reports
- Appendix 2-E: Glossary
- Appendix 2-F: Table of Contents for Project
- Appendix 2-G: Consultation Records
- Appendix 2-H: Application Forms
- Appendix 2-I: Nunavut Water Board Conformity
- Appendix 2-J: Project Design Considerations
- Appendix 2-K: Record of Compliance to Water Licence

Volume 3 – Assessment Methods
- Appendix 3-A: Marine Environment Summary
- Appendix 3-B: Human Health and Ecological Risk Assessment Summary
- Appendix 3-C: Pathway Analysis and Linkage Matrix Tables
- Appendix 3-D: Cumulative Effects & Reasonably Foreseeable Future Development
- Appendix 3-E: Residual Impact Classification Definitions

Volume 4 – Atmospheric Environment
- Appendix 4-A: Air Quality Baseline
- Appendix 4-B: Air Emissions Inventory
- Appendix 4-C: Air Quality Modelling Technical Summary
- Appendix 4-D: Noise Baseline Report
- Appendix 4-E: Noise and Vibration Impact Assessment

Volume 5 – Terrestrial Environment
- Appendix 5-A: Terrain, Permafrost, and Soils Baseline Report
- Appendix 5-B: Total Soil Metal Concentrations
- Appendix 5-C: Terrestrial Baseline Characterization Report
- Appendix 5-D: Tables of Collared Caribou Residency and Road Crossing
- Appendix 5-E: Geochemistry Baseline Report

Volume 6 – Freshwater Environment
- Appendix 6-A: Hydrogeology Baseline Report
- Appendix 6-B: Hydrogeological Model Pre-Mining, During Mining and Closure
- Appendix 6-C: Hydrology Baseline Report
- Appendix 6-D: Fish 2015 Road Baseline Report
- Appendix 6-E: Supporting Evidence of the Hydrology Effects Assessment
- Appendix 6-F: Flooding During Phases
- Appendix 6-G: Whale Tail Pit CREMP 2014-2015 Baseline Studies
- Appendix 6-H: Mine Site and Receiving Environment Water Quality Predictions
- Appendix 6-I: Water Quality Prediction Summary Tables
- Appendix 6-J: Fish 2014 Baseline Road Report
- Appendix 6-K: Fish 2015 Whale Tail Pit Baseline Report
- Appendix 6-L: Fish Capture Data
- Appendix 6-M: 2015 Baseline Bathymetry
- Appendix 6-N: Site-specific Water Quality Objective – Arsenic

Volume 7 – Human Environment
- Appendix 7-A: Inuit Qaujimajatuqangit Baseline Report
- Appendix 7-B: Socio-economic Baseline Report

Volume 8 – Mitigation, Monitoring, and Management Plans
- Appendix 8-A.1: Mine Waste Rock and Tailings Management Plan
- Appendix 8-A.2: WQ Monitoring & Management Plan for Dike Construction Dewatering
- Appendix 8-B.1: Landfill Design and Management Plan
- Appendix 8-B.2: Water Management Plan
- Appendix 8-B.3: Water Quality and Flow Monitoring Plan
- Appendix 8-C.1: Whale Tail Pit Haul Road Management Plan
- Appendix 8-D.1: Ammonia Management Plan
- Appendix 8-D.2: MBK Bulk Fuel Storage Facility Environmental Performance Monitoring Plan
- Appendix 8-D.3: Emergency Response Plan
- Appendix 8-D.4: Hazardous Materials Management Plan
- Appendix 8-D.5: Shipping Management Plan
- Appendix 8-D.6: Spill Contingency Plan
- Appendix 8-E.1: Air Quality Monitoring Plan
- Appendix 8-E.2: Core Receiving Environment Monitoring Program
- Appendix 8-E.3: Groundwater Monitoring Program
- Appendix 8-E.4: Conceptual Whale Tail Pit Offsetting Plan
- Appendix 8-E.5: Operational ARD/ML Sampling and Testing Plan
- Appendix 8-E.6: Socio-economics Management and Monitoring Plan
- Appendix 8-E.7: Terrestrial Ecosystem Management Plan
- Appendix 8-E.8: Archaeology Management Plan
- Appendix 8-F.1: Interim Whale Tail C&R Plan
- Appendix 8-G: RMMS Standard

Whale Tail – NIRB Project Certificate and NWB Type A Water Licence Amendments

WHALE TAIL PIT AND MEADOWBANK - MANAGEMENT PLANS
WHALE TAIL ᓄᓇᒥᑦ ᐃᓗᐊᑐᖅᓱᒪᔨᖅ ᐊᒻᒪᓗ ᐊᐅᖅᑎᓂᓴᖅᑐᖅ - ᐊᐅᓪᓚᑎᓂᕐᒧᑦᐸᖃᐅᑦᑕ

- **Meadowbank 2016 Approved Plans**
- Many plans were submitted during Type A renewal in 2015
- Updated annually in response to regulatory comments
- Eg. Spill Contingency Plan, Tailings Management Plan, Core Receiving Environmental Monitoring Plan (CREMP)
- To support licensing, authorizations and permitting, four (4) “types” of plans have been submitted to NWB/ NIRB.

- ᐊᐅᖅᑎᓂᓴᖅᑐᖅ 2016-ᒥᑦ ᓴᓪᒪᑎᕐᕿᐅᔨᓄᑦᐸᖃᐅᑦᑕ
- ᐊᒥᓱᑦᐸᖃᐅᑦᑕᑐᓂᐅᑕᐅᓪᓚᐅᖅᑐᑦ Type A-ᒥᒃ ᓄᑦᖁᔭᖅᑎᓪᓗᓂᒪᑦ 2015-ᒥᑦ
- ᐅᕐᓗᒥᒧᓪᓚᖅᑐᖅᑕᐅᔨᑦ ᐊᖏᔪᒍᒪᒃᓴᖅ ᑭᐅᓴᐊᑎᑎᕐᔨᓗᑎᑦ ᒪᓕᒐᓕᓪᓚᓂᓪᓗᒪᑦ ᐅᖅᑲᐅᓱᐅᔨᑦ
- ᓱᖏᓗ ძᕆᔨᓂᒃ ᓂᓪᐅᓇᖅᑎᑦᑐᓄᑦ, ᖃᑭᒪᒃᑎᑦᑐᓂᒃ ᐊᐅᓪᓚᑎᓂᓴᖅᑐᖅᑎ, ᓱᓪᒥᒥᑦ ᐱᔨᖅ ᐊᖓᑎᓕᓪᓚᓂᓴᖅᑐᖅᑎ ᖅᑲᐅᓴᑎᐊᖅᑲᑦᑕᖅᓂᓴᖅᑐᖅᑎᑦᑐᓂᐅᑎ (CREMP)
- ᐃᑲᔨᐃᓂᓴᖅᑐᖅᓗᒪᓂᓪᓚᓂᓴᖅᒥᒃ, ᐱᔨᖅᓇᖅᑎᑕᐅᓂᓴᖅᓂᒃ ᐊᒻᒪᓗ ᐳᒥᑦᓪᓚᓂᓴᖅᓂᒃ, ᓱᑕᒪᑦᐃᓕᑦ (4) “ᐊᓴᐅᑎᖅᑕᑦᑐᑦ” ᐸᖃᐅᑎᑦᑐᓂᐅᑕᐅᓱᒪᔨᑦ ᓄᓇᕗᒻᒥ ᐃᒪᑕᓪᓚᕆᔭᖅᓄᓇᓕᑦ/ᐊᖏᑎᑕᓪᓚᕆᔭᖅᓄᓇᓕᑦ

WHALE TAIL PIT AND MEADOWBANK - MANAGEMENT PLANS
WHALE TAIL ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓱᒪᔪᖅ ᐊᒻᒪᓗ ᐊᐅᖅᑎᓂᓴᖅᑐᖅ - ᐊᐅᓪᓚᑎᓂᕐᒧᑦᑲᔪᖅᐅᑎᑦ

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1. **Whale Tail Pit Stand Alone Plans or New Plans** - these will support Whale Tail Pit Type A License and NIRB Project Certificate.

   Example - Waste Rock Management Plan; Water Quality Monitoring and Management Plan for Dike Construction and Dewatering; Landfill Design and Management Plan; Water Management Plan; Water Quality and Flow Monitoring Plan; Haul Road Management Plan.

✓ Whale Tail Pit *Mine Infrastructure Management Plans*, submitted to NWB on January 25th, 2017

1. Whale Tail ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓱᒪᔪᖅ ᐃᖃᒥᖅᑯᖅᑐᑦ ᑲᖏᐅᑎᑦᐅᕙᓪᓕᓂᑦ ᓄᑦᑲᖏᐅᑎᑦ - ᑭᑲᑯᐊ ᐃᑲᔪᐃᔪᑦ Whale Tail-ᒧᑦ Type A ᓪᐃᓴᖏᓪᓕᒧᑦ ᐊᒻᒪᓗ ᐊᖓᑎᓪᓗᓴᖅᑯᑦ ᐱᓪᓗᐊᖅᑐᒧᑦ ᓇᓗᓇᐃᑯᒋᖏᓐᓂᖅ.

   – ᐅᖅᑐᑎᑭᓗᒍ - ᐊᖅᑕᑯᖅᑕᐅᔪᑦ ᐅᔪᖅᑲᓂᖅ ᐊᐅᓪᓚᑎᓂᕐᒧᑦ ᑲᖏᐅᑎᑦ; ᐃᒪᐅᑦ ᖃᓄᐃᖅᓂᒋᓄᑦ ᖃᓄᐅᔨᑎᐊᖃᑕᖅᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐊᐅᓪᓚᑎᓂᕐᒧᑦ ᑲᖏᐅᑎᑦ ᐃᒪᓕᖅ ᑲᑎᖅᔨᐃᖅᓯᒪᓕᒃ ᓴᓇᔪᐅᓂᒋᓄᑦ ᐊᒻᒪᓗ ᐃᒪᓕᐃᓂᕐᒧᑦ; ᐊᖅᑕᑯᔨᖅᓯᒪᓕᐅᑦ ᖃᓄᐃᖅᓂᒋᓄᑦ ᐊᒻᒪᓗ ᐊᐅᓪᓚᑎᓂᕐᒧᑦ ᑲᖏᐅᑎᑦ; ᐃᒪᓕᖅᑕᒃ ᐊᐅᓪᓚᑎᓂᕐᒧᑦ ᑲᖏᐅᑎᑦ; ᐃᒪᐅᑦ ᖃᓄᐃᖅᓂᒋᓄᑦ ᐊᒻᒪᓗ ᑯᐃᓂᕐᒧᑦ ᑲᑎᖅᔨᐃᖅᓯᒪᓕᐅᑦ ᑲᖏᐅᑎᑦ; ᐅᔨᖅᑕᖅᓴᓂᕐᒧᑦ ᐊᔪᓂᔨᑎᒃᑐᒃ ᐊᐅᓪᓚᑎᓂᕐᒧᑦ ᑲᖏᐅᑎᑦ.

✓ Whale Tail ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓱᒪᔪᖅ ᐅᔨᖅᑕᖅᑕᓗᒃ ᐊᖅᑎᑦ ᐱᔪᑎᖅᓯᓂᒃ ᐊᐅᓪᓚᑎᓂᕐᒧᑦ ᑲᖏᐅᑎᑦ; ᑐᓂᐅᐊᑕᐅᔪᑦ ᓄᓇᕗᒻᒥ ᐃᒪᓕᓗᓇᖅᑯᓂᒃ ᓴᓇᐊᓗᓂ 25, 2017-ᒥᑦ

WHALE TAIL PIT AND MEADOWBANK - MANAGEMENT PLANS
WHALE TAIL ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓯᒪᔨᖅ ᐊᒻᒪᓗ ᐊᐳᖅᑎᓂᓵᓴᖅᑐᖅ - ᐊᐅᓪᓚᑎᓂᕐᒧᑦᑲᔪᓐᓇᐅᑦ

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2. Whale Tail Pit Addendums to existing and approved Meadowbank Management Plans. These will support Whale Tail Pit Type A License and NIRB Project Certificate and are updates or Addendums to Meadowbank Operational Plans

Example - Core Receiving Environmental Monitoring Plan (CREMP), GW monitoring Plan, Air Quality and Monitoring Plan, Terrestrial Ecosystem Monitoring Plan (TEMP), etc.

✓ Meadowbank *Material Management, Emergency Response, Environmental Monitoring and other operational plans* remain holistic, operationally seamless and functional. Submitted to NIRB and NWB on July 6th, 2016 with original application

2. **Whale Tail** ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓯᒪᔨᖅᑕᑦ ᐃᓕᓴᐅᑎᖅᑎᓂᖅ ᐊᐳᖅᑎᓂᓵᓴᖅᑐᖅᓯᒥᑦ ᐊᐅᓪᓚᑎᓂᕐᒧᑦᑲᔪᓐᓇᐅᑦ. ᒐᕐᔪᐊ ᐃᑲᔨᐃᓂᐊᖅᑐᖅ Whale Tail ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓯᒪᔨᖅᑕᑦ Type A ᓕᐃᓴᓐᓯᒪᑦ ᐊᒻᒪᓗ ᐊᓯᑎᓕᓕᓵᑦᑯᑦ ᐱᓕᓕᐊᖅᑕᑦ ᓇᓗᓇᐃᑲᑯᓐᓄᑦᓕᓐᓂᑦ ᐅᓴᓗᒥᑦᑕᖅᑐᖅᑕᐅᖅᑕᑦ ᐃᓕᓯᓴᕆᐅᔨᓗᑎᒃ ᐊᐳᖅᑎᓂᓵᓴᖅᑐᖅᑕᑦ ᐊᐅᓪᓚᑎᓂᕐᒧᑦᑲᔪᓐᓇᐅᑎᓄᑦ.

ᐅᖃᐅᑎᕈᓗᒍ - ᓯᓚᒥᑦ ᐱᔨᖅ ᐊᓯᑎᓕᓕᓵᓂᒃᑐᑦ ᖃᐅᔨᓴᕈᐊᖅᑲᑕᖅᓂᒃᑐᑦ ᐸᖅᓯᐅᑎ (CREMP), GW ᖃᐅᔨᓴᕈᐊᖅᑲᑕᖅᓂᒃᑐᑦ ᐸᖅᓯᐅᑎ, ᐊᓂᖅᓴᖅᑐᖅᑕᐸᑦ ᖃᐅᓄᐃᓂᖅᓱᓕᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᕈᐊᖅᑲᑕᖅᓂᒃᑐᑦ ᐸᖅᓯᐅᑎ, ᓄᓇᒥᑦ ᐱᑭᖅᑎᑎᓵᓂᖅᑲᖅᑐᓂᒃ ᖃᐅᔨᓴᕈᐊᖅᑲᑕᖅᓂᒃᑐᑦ ᐸᖅᓯᐅᑎ (TEMP), ᑕᒪᒃᑯᐊᖅᓗᐃᑦ

✓ ᐊᐳᖅᑎᓂᓵᓴᖅᑐᖅᑕᑦ ᐊᑐᖅᑕᐅᔨᓂᒃᐊᐅᓪᓚᑎᓂᕐᒪᖅ, ᑐᐅᐃᓐᓇᓴᖅᑐᖅᓴᑦ ᐅᓪᓴᐅᑐᐊᓂᖅ, ᐊᒡᒪᑎᒃᑐ ᖃᐅᔨᓴᕈᐊᖅᑲᑕᖅᓂᒃᑐᑦ ᐊᓯᖏᓐᓄᓴᖅᑐᖅᑕᑦ ᐊᐅᓪᓚᑎᓂᕐᒧᑦᑲᔪᓐᓇᐅᑦ, ᐊᐅᓪᓚᑎᓂᕐᒧᑦᑲᔪᓐᓇᐅᑎᓄᑦ ᐊᒻᒪᓗ ᓄᓇᒥᑦ ᐱᔨᖅᑎᓂᓵᓴᖅᑐᖅᑕᑦ ᐃᓕᓴᐅᑎᖅᑎᓂᖅ ᐃᓕᓴᕆᐅᔨᓗᑎᒃ ᐊᐅᓪᓚᑎᓂᕐᒧᑦᑲᔪᓐᓇᐅᑦ. ᑐᓂᐅᑕᐅᔨᓂ ᐊᒡᒪᑎᒃᑐᑦ ᐊᐅᓪᓚᑎᓂᕐᒧᑦᑲᔪᓐᓇᐅᑦ ᓄᓇᕗᒻᒥ ᐃᓕᓴᓐᓯᒪᓂᒃᑐᑦ ᓯᓚᐅ 6, 2016-ᒥᑦ ᑐᖅᓯᕐᕈᐅᑕᖅᑲᐅᑕᖅᑐᖅ ᐃᓕᐅᔨᑐᓂ.

WHALE TAIL PIT AND MEADOWBANK - MANAGEMENT PLANS
WHALE TAIL ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓯᒪᔪᖅ ᐊᒻᒪᓗ ᐊᐳᖅᑎᓐᓈᖅᑐᖅ - ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑏᑦ

3. **Updated Meadowbank Mine Plan** to support the Type A - 2AM MEA1525 Amendment process to include Whale Tail tailings storage in the Meadowbank Tailings Storage Facility

   Example – Meadowbank Tailings Storage Facility Management Plan for Whale Tail Pit

   ✓ Submitted to NWB on January 25th, 2017

4. **Approved Meadowbank Plans;** No changes to approved plans

   Example – Spill Contingency Plan, QA/ QC Plan, Transportation Management Plan, TSF Operation, Maintenance and Surveillance Manual, etc.

   ✓ Meadowbank *Material Management, Emergency Response, Environmental Monitoring and other operational plans* remain holistic, operationally seamless and functional. Submitted to NIRB and NWB on July 6th, 2016 with original application

3. ᐅᑉᓗᒥ ᒨᓕᖅᑐᖅᑕᐅᔪᖅ ᐊᐳᖅᑎᓐᓈᖅᑐᒥᑦ ᐅᔭᕿᒃᑕᕆᐊᕐᒧᑦ ᐸᕐᓇᐅᑎ ᐃᑲᔪᐃᓂᐊᕐᓗᓂ Type A – 2AM MEA1525-ᒥᒃ ᐋᖅᑭᒋᐊᖅᓯᓂᖅ ᐃᓚᐅᑎᓪᓗᒍ Whale Tail-ᒥᑦ ᕿᒪᒃᑎᑦᑎᓄᑦ ᑐᖅᑯᖅᓯᓯᒪᕝᕕᒃ ᐊᐳᖅᑎᓐᓈᖅᑐᒥᑦ ᕿᒪᒃᑎᑦᑐᓄᑦ ᑐᖅᑯᖅᓯᓯᒪᕝᕕᖕᒧᑦ

   ᐆᒃᑑᑎᒋᓗᒍ - ᐊᐳᖅᑎᓐᓈᖅᑐᒥᑦ ᕿᒪᒃᑎᑦᑎᓄᑦ ᑐᖅᑯᖅᓯᓯᒪᕝᕕᖕᒥᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑎ Whale Tail ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓯᒪᔪᕐᒧᑦ

   ✓ ᑐᓂᐅᑕᐅᔪᖅ ᓄᓇᕗᒻᒥ ᐃᒪᓕᕆᔨᒃᑯᓐᓄᑦ ᔭᓄᐊᕆ 25, 2017-ᒥᑦ

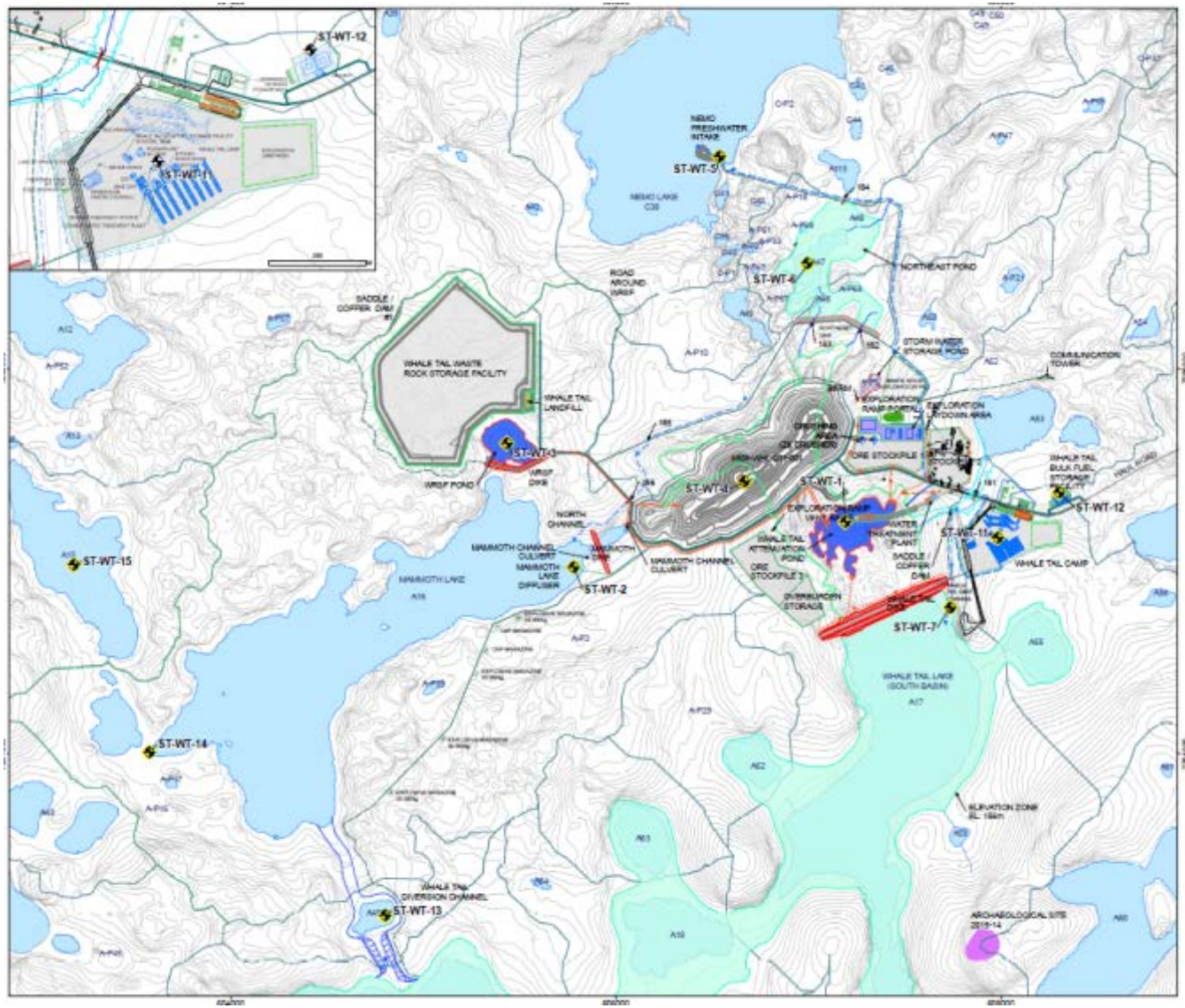
4. ᓈᒻᒪᒋᔭᐅᔪᑦ ᐊᐳᖅᑎᓐᓈᖅᑐᒧᑦ ᐸᕐᓇᐅᑏᑦ; ᐊᓯᐊᙳᖅᑐᖅᑲᙱᑦᑐᖅ ᓈᒻᒪᒋᔭᐅᔪᑦ ᐸᕐᓇᐅᑎᓄᑦ

   ᐆᒃᑑᑎᒋᓗᒍ - ᑯᕕᔪᑦ ᓂᕈᐅᓇᙱᑦᑐᓄᑦ ᐸᕐᓇᐅᑎ, QA/QC-ᒧᑦ ᐸᕐᓇᐅᑎ, ᐊᒡᔭᖅᑐᐃᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑎ, TSF-ᒥᒃ ᐊᐅᓚᑦᑎᓂᖅ, ᐱᓕᕆᐊᕐᑲᕐᓂᖅ ᐊᒻᒪᓗ ᐊᔾᔨᓕᐅᕈᑎᒃᑯᑦ ᖃᐅᔨᓴᐃᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᒃᓴᖅ, ᑕᒪᒃᑯᐊᕋᓗᐃᑦ

   ✓ *ᐊᐳᖅᑎᓐᓈᖅᑐᒥᑦ ᐊᑐᖅᑕᐅᔪᓂᒃ ᐊᐅᓚᑦᑎᓂᖅ, ᑐᐅᕕᓇᖅᑐᓄᑦ ᐅᐸᓗᐊᓂᖅ, ᐊᕙᑎᒥᒃ ᖃᐅᔨᒋᐊᖃᑦᑕᕐᓂᑦᒧᑦ ᐊᓯᖏᓐᓄᓪᓗ ᐊᐅᓛᖅᑎᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑏᑦ ᐃᓗᐃᑑᖕᒪᐃᓐᓇᖅᑐᑦ; ᐊᐅᓛᖅᑎᑦᑎᓂᕐᒧᑦ ᐊᔪᕐᓇᙱᑦᓱᑎᒃ ᐊᒻᒪᓗ ᐊᑐᕈᓐᓇᖅᓱᑎᒃ. ᑐᓂᐅᑕᐅᔪᑦ ᐊᕙᑎᓕᕆᔨᒃᑯᓐᓄᑦ ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ ᐃᒪᓕᕆᔨᒃᑯᓐᓄᑦ ᔪᓚᐃ 6, 2016-ᒥᑦ ᑐᒃᓯᕋᐅᑕᐅᖅᑲᐅᑕᐅᓚᐅᖅᑐᖅ ᐃᓚᐅᑉᓗᓂ.*

WHALE TAIL PIT – SITE WIDE WATER QUALITY MONITORING

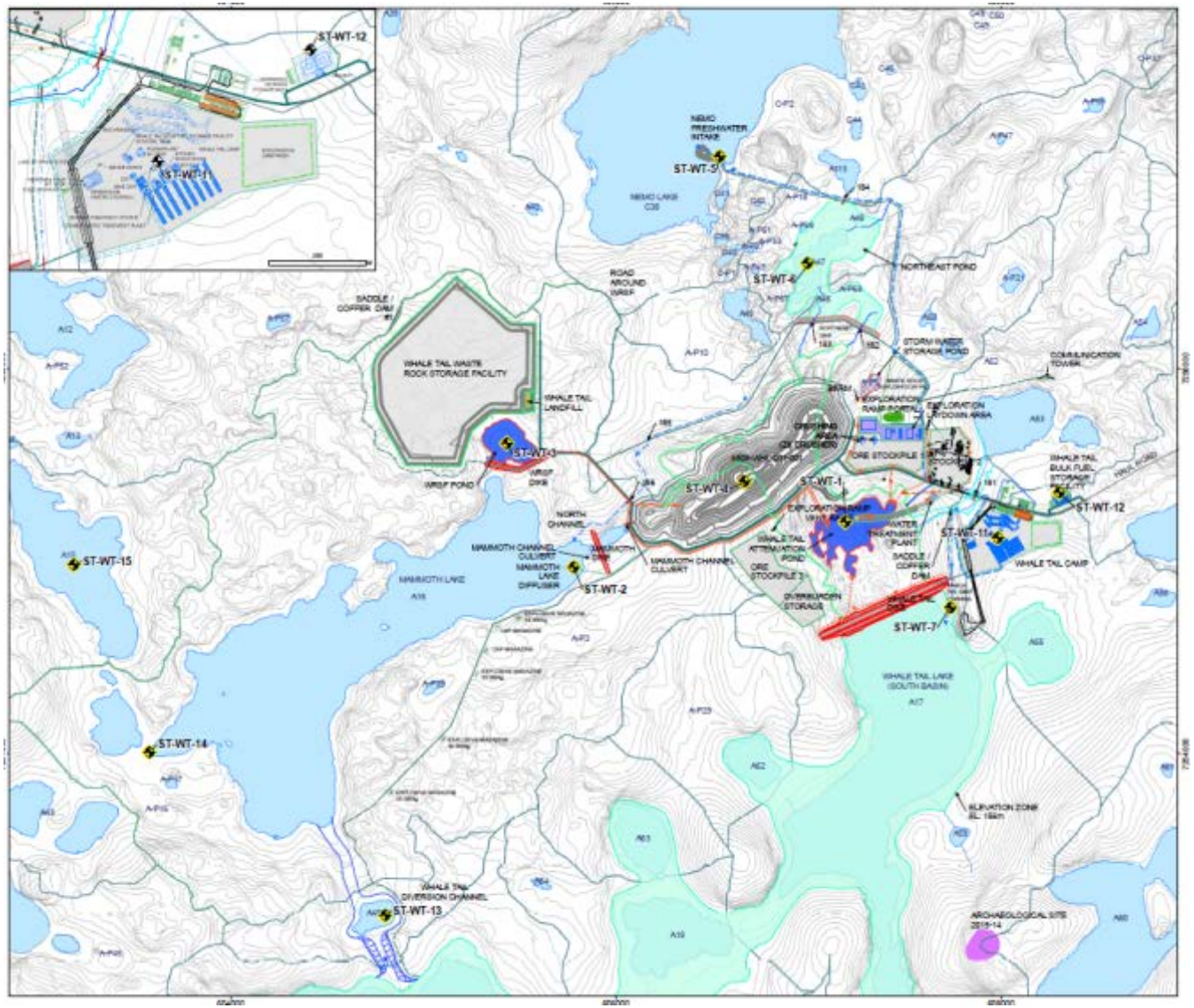
- Site wide monitoring
- During operation Agnico Eagle proposes 15 monitoring stations
  - Pit
  - Sumps or Ponds
  - Channels
  - Attenuation Pond
- Various stations within the receiving environment that will be monitored in addition to CREMP stations
- Freshwater source for Camp is Nemo Lake
- Appendix 8- B. 3 - Whale Tail Pit Water Quality and Flow Monitoring Plan



WHALE TAIL ᓄᓇᒥᑦ ᐃᓗᓐᑐᖅᓯᒪᔪᖅ - ᐃᓂᐅᔪᓗᒃᑑᒧᑦ ᐃᒪᐅᕐᓂᖅᑐᑦ ᖃᐅᔨᒋᐊᖃᑦᑕᕐᓂᖅ

AGNICO EAGLE

- ᐃᓂᐅᔪᓗᒃᑑᒧᑦ ᖃᐅᔨᒋᐊᖃᑦᑕᕐᓂᖅ
- ᐊᐅᓪᓕᖅᑎᑎᓂᕆᑦ ᐊᓱᓄᓪᓕᐅᑦ 15-ᓂᒃ ᖃᐅᔨᒋᐊᖃᑦᑕᕐᕆᓚᐅᐅᑉᒪᔪᑦ
  - ᓄᓇᒥᑦ ᐃᓗᓐᑐᖅᓯᒪᔪᖅ
  - ᓄᕕᖅᑕᐃᖏᕐᕋᑦ ᐊᓱᒪᓗ ᑕᓯᖁᐃᓪᓗᓂᑦ
  - ᓯᔪᓗᐃᑦ
  - ᐊᖏᕈᓗᐊᖏᑎᐊᓚᖅᑎᑎᒋᖕᖏᕐᕆᓚᖅ ᑕᓯᖁᖅ
- ᐊᓱᐃᑲᖏᑐᑦ ᐃᓂᐅᔪᑦ ᐊᐅᑎᑎᕐᓴᐅᔪᓂᑦ ᖃᐅᔨᒋᐊᖃᐅᖃᑦᑕᖅᓂᐊᖃᑐᑦ ᐃᓕᑎᕐᓴᐅᓗᓂᓂ CREMP-ᒧᑦ ᐃᓂᐅᔪᑦ
- ᓄᓇᓕᐊᓪᓚᑦ ᐱᖕᖏᕐᖃᑦᑕᖃᖏᓐᓄᓇ Nemo ᑕᓯᖅ ᐃᓱᒪᑎᐊᕐᖏᓐᓇᒧᑦ
- ᑎᑎᖃᖅᑲᖅ ᐃᓕᑎᕐᓴᐅᔪᖃᖅ 8- B. 3 - Whale Tail ᓄᓇᒥᑦ ᐃᓗᓐᑐᖅᓯᒪᔪᖃᕐᒧᑦ ᐃᓱᒪᓕ ᖃᐅᔨᒋᐊᖃᐅᖃᑦᑕᕐᓂᖃᕐᒧᑦ ᐸᖃᓐᓇᑎ



SITE WIDE WATER QUALITY MONITORING AND MANAGEMENT

- Site wide monitoring - Various stations within the receiving environment that will be monitored in addition to CREMP stations
- Same principles for monitoring as per Type A Water License (amended in 2015 to extend to 2025)
- Appendix 8- B. 3 - Whale Tail Pit Water Quality and Flow Monitoring Plan
  - Compliance Monitoring
  - Event Monitoring
  - Adaptive Management Program
- Appendix 8 – A.2 - Whale Tail Pit Water Quality Monitoring and Management Plan for Dike Construction and Dewatering

Table 3-1: Monitoring Program

Station	Description	Phase	Monitoring Parameters	Frequency
ST-DC-1 to TBD	Monitoring stations during dike construction as defined in the Whale Tail Water Quality Monitoring and Management Plan for Dike Construction and Dewatering (November 2016)	Construction	As defined in Final Water Quality Monitoring and Management Plan for Dike Construction and Dewatering referred to in Part D, Item 5	As defined in Final Water Quality Monitoring and Management Plan for Dike Construction and Dewatering referred to in Part D, Item 5
ST-DD-1 to TBD	Monitoring stations during dike construction as defined in the Whale Tail Water Quality Monitoring and Management Plan for Dike Construction and Dewatering (November 2016)	Construction	As defined in Final Water Quality Monitoring and Management Plan for Dike Construction and Dewatering referred to in Part D, Item 5	As defined in Final Water Quality Monitoring and Management Plan for Dike Construction and Dewatering referred to in Part D, Item 5
ST-S-1 to TBD	Seeps (to be determined)	Operations	1	Monthly or as found
		Closure	1	Monthly or as found
ST-GW-1 to TBD	Groundwater wells (to be determined) as required under Groundwater Monitoring Plan (FEIS, Volume 8, Appendix 8-E.3)	Operations	2	Annually
		Closure	2	Annually
ST-WT-1	Attenuation Pond, pre-treatment	Operations	1	Four times per calendar year
ST-WT-2	Attenuation Pond, post-treatment; last point of control before discharge	Operations	Volume (m^3)	Weekly during discharge
			Field Measurements	Weekly during discharge
			1	Weekly during discharge
			1-MMER effluent characterization	Four times per calendar year
			3-MMER acute toxicity	Once per month during discharge
			3-MMER sublethal toxicity	Two times per calendar year
ST-WT-3	WRSF Pond prior to pumping to Attenuation Pond	Operations	1	Four times per calendar year, when water is present
		Closure	1	Four times per calendar year, when water is present
	WRSF Pond prior to discharge to Mammoth Lake	Post-closure	1	Four times per calendar year, when water is present
ST-WT-4	Whale Tail Pit or pit sump	Operation	1	Four times per calendar year, when water is present
ST-WT-5	Water intake from Nemo Lake	Construction	Volume (m^3)	Monthly
		Operations	Volume (m^3)	Monthly
ST-WT-6	Lake A47	Construction	2	Monthly during open-water
		Operations	2	Monthly during open-water
		Closure	2	Monthly during open-water
ST-WT-7	East diversion channel	Operations	3	Three times (freshet, summer, fall) per calendar year

ᐃᓂᐅᔨᓗᖅᑕᒧᑦ ᐃᒪᐅᕐᓂᖅᓄᐊᕐᓂᖏᓂᒃᖁᐅᔾᔪᑎᖃᖅᑕᕐᓂᖅᐊᓪᒪᓗ ᐊᐅᓚᕐᑎᓂᖅ

AGNICO EAGLE

- ᐃᓂᐅᔨᓗᖅᑕᒥᑦ ᖁᐅᔾᔪᑎᖃᖅᑕᕐᓂᖅ - ᐊᖏᔪᐃᖅᑕᑐᑦ ᐃᓂᐅᔨᑦ ᐊᐢᑎᑎᒥᖏᐅᔨᓂᑦ ᖁᐅᔾᔪᑎᖃᖅᑕᐅᖁᑕᕐᓂᓂᐊᖅᑐᑦ ᐃᓚᒥᖏᐅᓗᓂ CREMP-ᒧᑦ ᐃᓂᐅᔨᑦ
- ᐊᖏᔪᕐᓂᓂᒃ ᒪᓕᑐᖁᖅᑐᖅ ᖁᐅᔾᔪᑎᖃᖅᑕᓂᕐᒧᑦ Type A ᐃᒪᕐᒧᑦ ᓕᐃᖏᓐᓂᑎᑦᑐᒥᑦ
- ᑎᑎᖅᑲᖅ ᐃᓚᒥᖏᐅᔨᖅ 8- B. 3 - Whale Tail ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓂᒪᓕᕐᕕᒧᑦ ᐃᒪᐅᐸ ᖁᐅᐃᓂᕐᓂᓕᓄᑦ ᐊᐢᑎᑎᒥᖏᓐᓄᑦ ᖁᐅᔾᔪᑎᖃᖅᑕᕐᓂᕐᕕᒧᑦ ᐸᕐᓇᐅᑎ
  - ᒪᓕᕐᓂᕐᕕᒧᑦ ᖁᐅᔾᔪᑎᖃᖅᑕᕐᓂᖅ
  - ᖁᐅᐃᓚᓂᐅᔨᓄᑦ ᖁᐅᔾᔪᑎᖃᖅᑕᕐᓂᖅ
  - ᐊᑐᓚᖅᑎᕆᓂᕐᒥᐅ ᐊᐅᓚᕐᑎᓂᕐᒧᑦ ᑐᑦᓂᓴᕐᖅ
- ᑎᑎᖅᑲᖅ ᐃᓚᒥᖏᐅᔨᖅ 8- A. 2 - Whale Tail ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓂᒪᓕᕐᕕᒥᑦ ᐃᒪᐅᐸ ᖁᐅᐃᓂᕐᓂᖅᓄᐊᕐᓂᖏᓂᒃᖁᐅᔾᔪᑎᖃᖅᑕᕐᓂᖅ ᐊᓪᒪᓗ ᐊᐅᓚᕐᑎᓂᖅ ᐃᒪᕐᒥᐅ ᑲᑐᖅᓯᐊᕐᓂᕐᒥᑦ ᓴᓇᔨᓂᑦ ᐊᓪᒪᓗ ᐃᒪᓴᐃᓂᖅ

Table 3-1: Monitoring Program

Station	Description	Phase	Monitoring Parameters	Frequency
ST-DC-1 to TBD	Monitoring stations during dike construction as defined in the Whale Tail Water Quality Monitoring and Management Plan for Dike Construction and Dewatering (November 2016)	Construction	As defined in Final Water Quality Monitoring and Management Plan for Dike Construction and Dewatering referred to in Part D, Item 5	As defined in Final Water Quality Monitoring and Management Plan for Dike Construction and Dewatering referred to in Part D, Item 5
ST-DD-1 to TBD	Monitoring stations during dike construction as defined in the Whale Tail Water Quality Monitoring and Management Plan for Dike Construction and Dewatering (November 2016)	Construction	As defined in Final Water Quality Monitoring and Management Plan for Dike Construction and Dewatering referred to in Part D, Item 5	As defined in Final Water Quality Monitoring and Management Plan for Dike Construction and Dewatering referred to in Part D, Item 5
ST-S-1 to TBD	Seeps (to be determined)	Operations	1	Monthly or as found
		Closure	1	Monthly or as found
ST-GW-1 to TBD	Groundwater wells (to be determined) as required under Groundwater Monitoring Plan (FEIS, Volume 8, Appendix 8-E.3)	Operations	2	Annually
		Closure	2	Annually
ST-WT-1	Attenuation Pond, pre-treatment	Operations	1	Four times per calendar year
ST-WT-2	Attenuation Pond, post-treatment; last point of control before discharge	Operations	Volume (m^3)	Weekly during discharge
			Field Measurements	Weekly during discharge
			1	Weekly during discharge
			1-MMER effluent characterization	Four times per calendar year
			3-MMER acute toxicity	Once per month during discharge
			3-MMER sublethal toxicity	Two times per calendar year
ST-WT-3	WRSF Pond prior to pumping to Attenuation Pond	Operations	1	Four times per calendar year, when water is present
		Closure	1	Four times per calendar year, when water is present
	WRSF Pond prior to discharge to Mammoth Lake	Post-closure	1	Four times per calendar year, when water is present
ST-WT-4	Whale Tail Pit or pit sump	Operation	1	Four times per calendar year, when water is present
ST-WT-5	Water intake from Nemo Lake	Construction	Volume (m^3)	Monthly
		Operations	Volume (m^3)	Monthly
ST-WT-6	Lake A47	Construction	2	Monthly during open-water
		Operations	2	Monthly during open-water
		Closure	2	Monthly during open-water
ST-WT-7	East diversion channel	Operations	3	Three times (freshet, summer, fall) per calendar year

SITE WIDE WATER QUALITY MONITORING AND MANAGEMENT
ᐃᓂᐅᓵᓕᒍᑦᐃᒪᐅᕐᖏᓄᐃᖅᓂᖅᓴᓂᓂᖅᖃᐅᔨᒋᐊᖏᑕᕐᓂᖅᐊᓚᓗ ᐊᐅᓪᓗᑎᓂᖅ

Compliance Monitoring

- Group 1 - Mine site monitoring
- Group 2 – Receiving Environment
- Group 3 – Sampling prior to discharge
- Group 4 – Sampling prior to discharge at fuel storage areas
- MMER

ᒪᓕᖅᓂᕐᒧᑦᖃᐅᔨᒋᐊᖏᑕᕐᓂᖅ

- ᑲᑎᒪᒪᔪᑦ 1 - ᐅᓴᖏᑕᒪᓕᐊᑦ ᐃᓂᖅᓴᓂᓂᖅ ᖃᐅᔨᒋᐊᖏᑕᕐᓂᖅ
- ᑲᑎᒪᒪᔪᑦ 1 - ᐊᕐᑎᑎ ᐱᕐᓕᓪᓕᐊᓂᖅᑲᖅᑐᖅ
- ᑲᑎᒪᒪᔪᑦ 1 - ᐅᖅᑐᖏᐃᓂᖅ ᑯᕕᑎᑕᐅᓂᐊᓴᖅᑎᓕᓗᒍ
- ᑲᑎᒪᒪᔪᑦ 1 - ᐅᖅᑐᖏᐃᓂᖅ ᑯᕕᑎᑕᐅᓂᐊᓴᖅᑎᓕᓗᒍ ᐅᖅᓯᐊᓗᓂᖅᑲᐅᓯᕐᕕᖏᓂᑦ

- MMER

Table 3-2: Monitoring Parameters

Group	Parameters
1	pH, turbidity, hardness, alkalinity, ammonia nitrogen, total metals (aluminum, arsenic, barium, cadmium, chloride, chromium, copper, fluoride, iron, lead, manganese, mercury, molybdenum, nickel, nitrite, nitrate, selenium, silver, thallium, zinc), sulphate, total dissolved solids (TDS), TSS, total cyanide. If CN total is detect in an analysis result; further analysis of CN Free and CN WAD will be trigger.
2	**Total and Dissolved metals**: aluminum, antimony, arsenic, boron, barium, beryllium, cadmium, copper, chromium, iron, lithium, manganese, mercury, molybdenum, nickel, lead, selenium, tin, strontium, titanium, thallium, uranium, vanadium and zinc **Nutrients**: Ammonia-nitrogen, total kjeldahl nitrogen, nitrate nitrogen, nitrite-nitrogen, ortho-phosphate, total phosphorous, total organic carbon, total dissolved organic carbon and reactive silica; **Conventional Parameters**: bicarbonate alkalinity, chloride, carbonate alkalinity, conductivity, hardness, calcium, potassium, magnesium, sodium, sulphate, pH, total alkalinity, TDS, and TSS, turbidity; Total cyanide and free cyanide. If CN total is detect above 0.05 mg/L in an analysis result for monitoring station in receiving environment; further analysis of CN WAD will be trigger.
3	MMER parameters (total cyanide, arsenic, copper, lead, nickel, zinc, radium 226, total suspended solids, pH), sulphate, turbidity and total aluminum.
4	Total Arsenic, Total Copper, Total Lead, Total Nickel, TSS, Benzene, Toluene, Ethylbenzene, Xylene, TPH, pH
MMER	Total cyanide, arsenic, copper, lead, nickel, zinc, radium 226, total suspended solids, pH, effluent volumes and flow rate of discharge, acute toxicity (Rainbow Trout and Daphnia magna) and environmental effects monitoring (EEM).

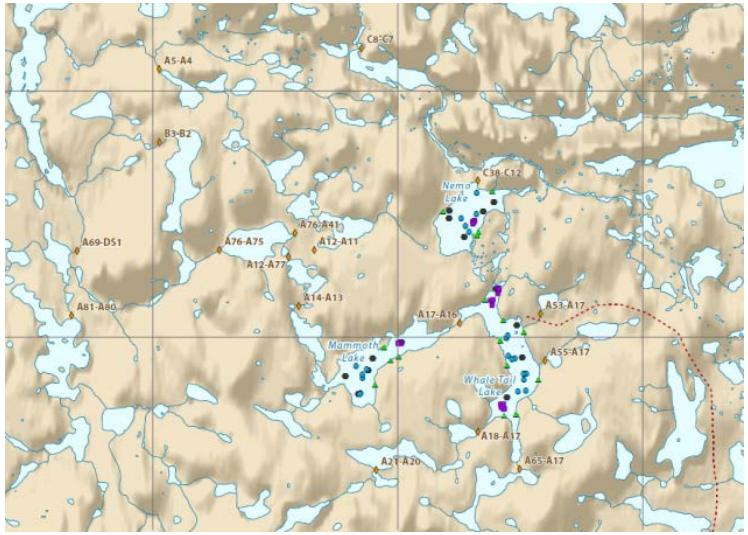
AQUATIC ECOSYSTEM MONITORING PROGRAM (AEMP) AND CORE RECEIVING ENVIRONMENTAL MONITORING PLAN (CREMP)

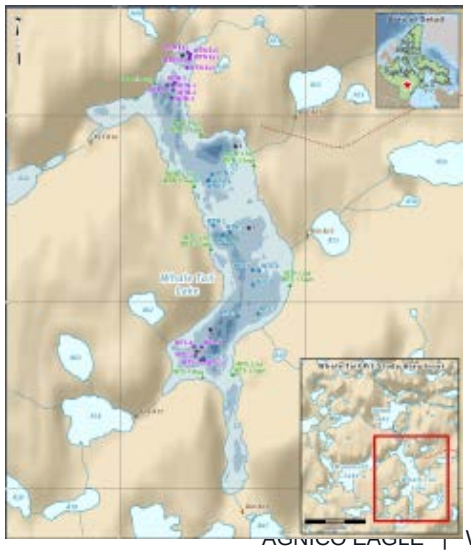
ᐃᒪᖏᐅᑕᐃᑦᐱᐅᖏᑲᑎᑦᓂᓂᓂᒃᖏᐅᓴᕐᐊᖏᑲᑕᖏᓂᖏᓪᒋᑦᑐᖅᓯᓚᐅᖅ (AEMP) ᐊᓚᒪᓂᔪᓕᒥᑦ ᐱᓚᖅ ᐊᓂᑎᓕᓂᖏᓪᒋᑦᖏᐅᓴᕐᐊᖏᑲᑕᖏᓂᖏᓪᒋᑦᐸᖏᓇᐅᑎ (CREMP)

- Volume 8 – Appendix 8-E.2 Core Receiving Environmental Monitoring Plan
- Whale Tail Pit Project CREMP is an extension of the Meadowbank CREMP
- Meadowbank reference lakes (Innug, PDL) methods, thresholds, and triggers that have been developed since 2010 and applied at Meadowbank are proposed for Whale Tail Pit site
- Baseline Data collected from 2014 - 2017

- ᐅᖏᑦᓯᒪᓚᖅ 8 - ᑎᑎᖏᑲᖅ ᐃᓕᒋᕐᐅᐊᖅ 8-E.2 ᓂᓕᒥᑦ ᐱᓚᖅ ᐊᓂᑎᓕᓂᖏᓪᒋᑦᖏᐅᓴᕐᐊᖏᑲᑕᖏᓂᖏᓪᒋᑦᐸᖏᓇᐅᑎ (CREMP)
- Whale Tail ᓄᓇᒥᑦ ᐃᓗᑦᑐᖏᓂᒪᓚᖅ CREMP ᐅᐃᒍᒋᐊᖏᓂᐅᐊᖅ ᐊᐳᖏᑎᓵᓴᖏᑐᒧᑦ CREMP-ᒥᑦ
- ᐊᐳᖏᑎᓵᓴᖏᑐᒥᑦ ᐅᖏᑲᓂᐅᐊᖅᑕᓂᑦ (ᐃᓵᓇᒃ, PDL) ᐁᖏᕈᐅᒪᔪᑦ, ᐱᒋᐊᖏᕆᐅᔪᑦ, ᐊᓚᒪᓗ ᐱᒋᐊᖏᑎᑦᑎᓴᔪᑎᓂᒃ ᐱᓵᑦᓕᐊᓂᒪᔪᑦᑕᐃᒪᓐᓇᓂᑦ 2010-ᒥᑦ ᐊᑐᖏᑕᐅᔨᓗᑎᓗᓗ ᐊᐳᖏᑎᓵᓴᖏᑐᒥᑦ Whale Tail ᓄᓇᒥᑦ ᐃᓗᑦᑐᖏᓂᒪᓚᓕᓚᐅᖅᓴᓕᒪᔨᒃ ᐃᓂᓐᓇᓗᑦ

- ᕈᓐᓕᒋᐅᔪᓄᑦ ᓴᓴᐅᑎᑦ/ᑎᑎᖏᑲᐃᑦ ᑲᑎᑕᐅᔪᑦ 2014-ᒥᑦ 2017-ᒧᑦ

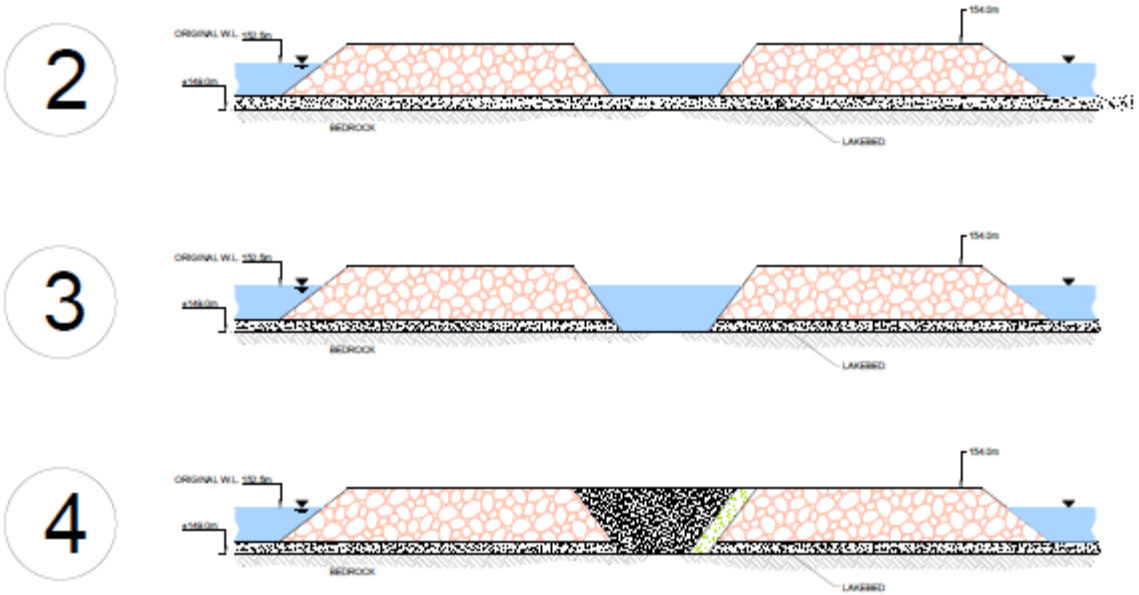




DIKE CONSTRUCTION MONITORING AND MANAGEMENT
ᐃᒪᖏᑲᒃ ᑲᑎᖅᓯᐃᖅᓴᖏᑦᖁᓕᕆᔨᑎᖅᑕᖏᓂᔪᖅᐊᓗᒪᓗ ᐊᐅᓪᓚᑎᔪᖅ

- Step 1: Install turbidity curtains and begin monitoring (lake elevation 152.5 masl)
- Step 2: Begin platform construction to elevation 154 masl.
- Step 3: Excavate lake bottom till down to bed rock
- Step 4: Fill cut-off with gravel

- ᓯᕗᓪᓕᖅ: ᐃᓕᓗᑎᑦ ᑕᕆᐅᖏᑲᓗᐊᖅᑕᐃᓕᓴᐸᑎᑦ ᐊᓗᒪᓗ ᖁᑲᕆᔨᑎᖅᑕᖏᓗᔭᒍ (ᑕᓯᐅᑦ ᖁᔪᑎᖃᔪᓐᓇ 152.5 masl)
- ᑐᖅᓕᐊ: ᑐᖏᓚᐃᒃ ᓴᓇᕐᓕᓕᐊᓗᒍ ᖁᔪᑎᖃᔪᓂᒃ 154 masl.
- ᐱᖃᓚᐊ: ᐋᒃᖏᓗᒍ ᑕᓯᐅᑦ ᐊᓗᐊ ᐅᒃᖏᖅᑲᓄᑦ ᑭᓯᐊᓂ ᑎᑭᐅᑎᖅᐸᑕ
- ᓯᑕᒪᖃᖅ: ᐃᓗᓕᓕᖅᑐᖏᓗᒍ ᓯᐅᕎᖏᑦ

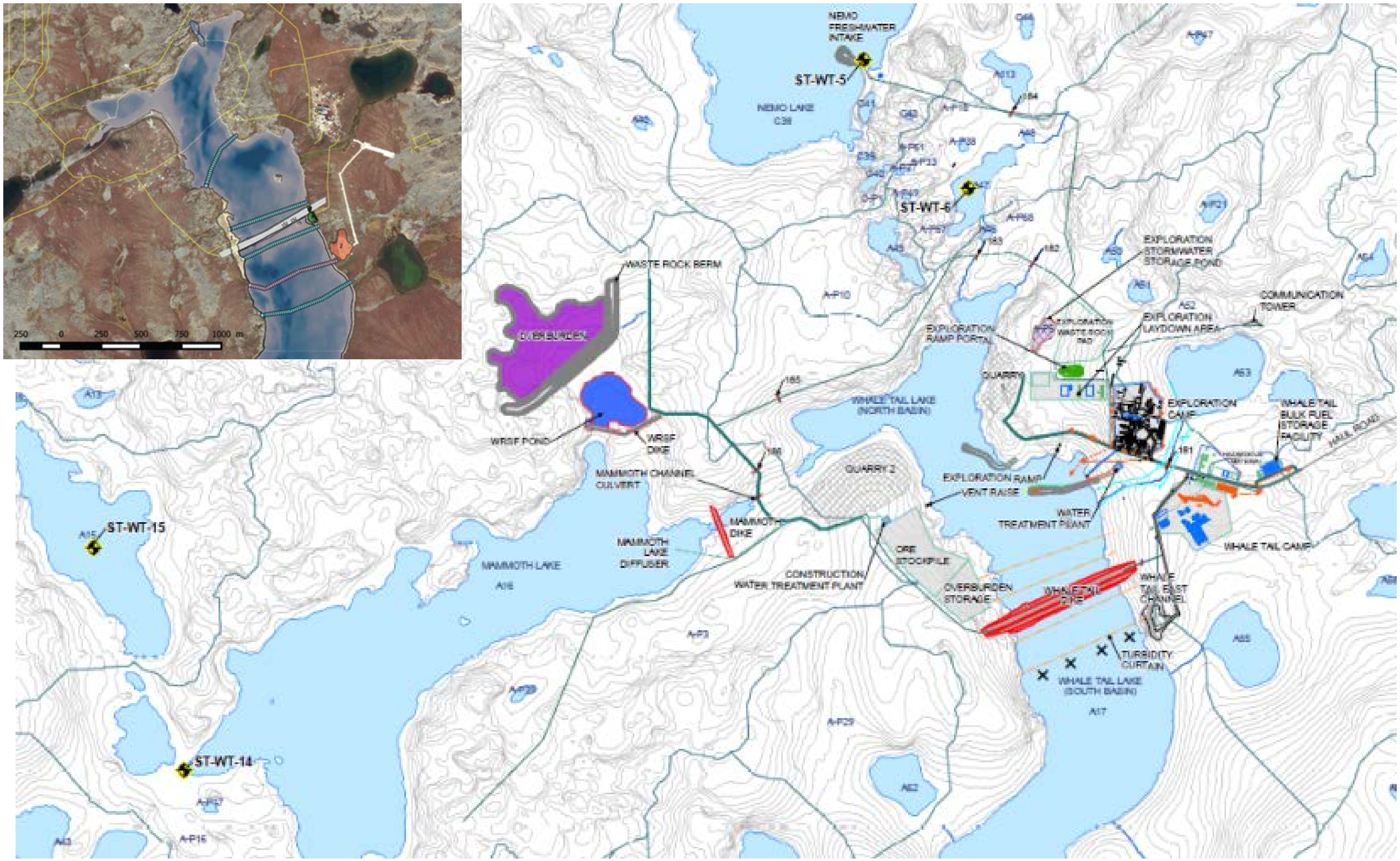


DIKE CONSTRUCTION MONITORING AND MANAGEMENT
ᐃᒪᖏᑉᑲᒃ ᑲᑎᖅᓯᐃᖅᓴᖏᑦᖁᓕᕆᔨᑎᖅᑕᖏᓂᖅᓂᖅ ᐊᒻᒪᓗ ᐊᐅᓪᓚᑎᓂᖅ

- Whale Tail Dike is similar in design as East Dike and Bay Goose Dike at Meadowbank
- Construction monitoring and mitigation is the same and applies lessons learned
- Stations are proposed to be located on the exterior of the Whale Tail Dike turbidity curtains
- Appendix 8 – A.2 - Whale Tail Pit Water Quality Monitoring and Management Plan for Dike Construction and Dewatering

- Whale Tail-ᒥᑦ ᐃᒪᖏᓄᑦ ᑲᑎᖅᓯᐃᖅᓴᕐᑦ ᐊᕐᕕᓪᓚᕐᒧᖓᑦ ᖁᓇᐃᖓᓂᖓᓚᑦ ᐃᒪᖏᓂᖅ ᑲᑎᖅᓯᐃᖅᓵᕐᑦ ᐊᒻᒪᓗ Bay Goose-ᒥᑦ ᐊᐳᖅᑎᓂᓵᖅᑐᒥᑦ
- ᕿᓇᕆᐅᑎᑦᓗᒍ ᖁᑲᕕᓪᓕᐊᖅᑕᖏᓂᖅ ᐊᒻᒪᓗ ᐊᖏᓪᓗᓯᓚᐅᑎᖅᑎᓂᑎᓂᖅ ᐊᕐᕕᒃᓴᖓ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᑦᓗᑎᒃ ᐃᓕᓴᐅᔪᑦ
- ᐃᓂᐅᔪᓕᐅᕈᒪᔪᑦ ᓯᓚᑦᓂᓪᑦ Whale Tail-ᒥᑦ ᐃᒪᖏᑉ ᑲᑎᖅᓯᐃᖅᓴᕐᕕᐸᑦ ᑕᓗᐅᖏᑲᓚᖅᑎᓂᓵᖅᓯᒪᑦ ᑕᓗᒍᑦᓂᓂ
- ᑎᑎᖅᑲᖅ ᐃᓕᓴᐅᔪᔪᖅ 8-A.2 Whale Tail ᓄᓇᒥᑦ ᐃᓗᑐᖅᓯᒪᔪᖏᑦ ᐃᒪᐅᐸᑦ ᖁᑲᕕᓪᓕᐊᖅᑕᖏᓂᖅᓯᒪᓂᖅ ᐊᐅᓪᓚᑎᓂᖅᓯᒪᓂᖅ ᐊᒻᒪᓗ ᐊᐅᓪᓚᑎᓂᖅᓯᒪᓂᖅ ᐸᖅᓇᐅᑎ ᐃᒪᖏᑉ ᑲᑎᖅᓯᐃᖅᓴᐅᑲᓇᕐᓂᖅ ᐊᒻᒪᓗ ᐃᒪᐃᔪᐃᓂᖅᓯᒪᑦ

DIKE CONSTRUCTION MONITORING AND MANAGEMENT
ᐃᒪᕐᒥᒃ ᑲᑎᖅᓱᐃᕝᕕᖕᒥᑦ ᖃᐅᔨᒋᐊᖃᑦᑕᕐᓂᖅ ᐊᒻᒪᓗ ᐊᐅᓚᑦᑎᓂᖅ



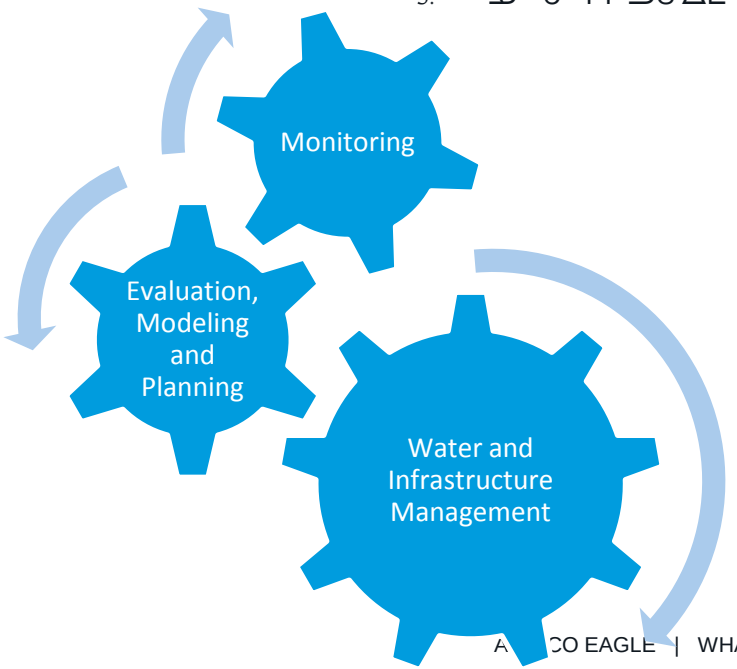
DIKE CONSTRUCTION MONITORING
ᐃᒪᖏᑎ ᑲᑎᖅᓯᐃᓴᖕᓇᖏᑦᖁᐅᓕᖏᑲᑦᑐᖏᖅ

- Adaptive Management Strategy for Dike Construction
  - If monitoring results exceed license limits and TSS triggers at monitoring stations.

  Mitigation:
  1. Slow down or alter construction practices;
  2. Increase monitoring frequency;
  3. Install additional turbidity curtains;
  4. Pumping in trench and treating water; and
  5. Stop dike construction.

- ᐊᑐᓕᖅᑎᑎᓂᑎᓂᖅᓴᑦ ᐊᐅᓕᑦᑎᓂᖅᓴᑦ ᖁᓇᖅᑐᐃᑎᖅ ᐃᒪᖏᑎ ᑲᑎᖅᓯᐃᓴᖕᓇᖅᑐᑦᑕᒍ
  - ᖁᖅᐅᓗᑎᐊᖏᖅᑕᖏᓂᖅᓴᑦ ᖁᖅᓇᐃᖓᓂᐅᕐᓴᑦ ᐅᖓᓚᑕᐅᕐᑎᒃᓴᑕ ᓕᐃᓴᖏᓐᓂᕐᓗᑦ ᑭᓚᒪᓗ TSS-ᒧᑦ ᐱᑎᐊᖅᑎᑎᕐᓴᑎᓇᓂ ᖁᖅᐅᓗᑎᐊᖅᑕᖏᐊᐅᓴᓂ.

  ᐊᖓᑎᓗᐊᖓᑎᑎᐊᖅᑎᑎᓂᖅ:
  1. ᐱᓕᓚᓗᐊᕈᖓᓵᖅᑎᓪᓗᑎᑦ ᐊᓯᐊᖓᔪᖏᓗᒍᔅᓵᓵᓂ ᖁᓇᖕᓕᓪᓕᐊᓂᖏᓐᓂᒃ ᐊᑐᖅᑕᐅᐅᖁᖅᑕᖏᖅᑕᖅᑐᑦ;
  2. ᖁᖅᐅᓗᑎᐊᖅᑕᖏᓂᔅᓵ ᐊᖓᑎᓄᓕᑎᐊᖏᓪᓗᑎᑦ ᖁᖅᓯᓗᖅᑕᖏᖅᑕᖏᓂᖅᓴᖖᑎᑦ;
  3. ᑕᓚᐅᖏᖅᓗᐊᖅᑕᐃᓕᓴᐸᑎᓂᖅᑲᓗᓂᖅ ᐃᓕᓴᕐᖅᑲᖅᓂᖏᓐᓂᖏᓗᒍ;
  4. ᑯᐊᖅᑕᖏᓗᒍ ᐃᓗᓕᑐᖅᑎᖅᓴᓪᓚᕐᓇᑦ ᐊᖏᒪᓗ ᐱᓕᓚᐊᓚᓗᒍ ᐃᒪᖅ; ᐊᖏᒪᓗ
  5. ᓇᖅᑲᖅᑎᑦᓗᒍ ᐃᒪᖏᑎ ᑲᑎᖅᑐᓴᕐᖅᑲᖅᓂᖅᓴᖖᑎᓇᓂᑦ.



WATER USE DURING WHALE TAIL PIT OPERATION
ᐃᒪᖅᑎᓂᖅ ᐊᑐᖅᓂᖅ WHALE TAIL ᓄᓇᒥᖅ ᐃᓗᐊᑐᖅᓱᒪᔪᖅ ᐊᐅᓪᓚᖅᑎᑦᑎᓂᐅᑎᖅᓗᒍ

Table 2.4-3: Proposed Amended Amount of Freshwater

	Meadowbank Approved Water Management Plan					Proposed Whale Tail Amendment				Overall Total
	Meadowbank Mill & Camp[a]	Goose Flooding[a]	Portage Flooding[a]	Vault Area Flooding (Wally)[a]	Meadowbank Total[a]	Whale Tail Camp	Meadowbank Mill	Whale Tail Pit Flooding	Whale Tail Total	
2016	571,440	1,350,000			1,921,440				0	1,921,440
2017	1,058,160	900,000			1,958,160	109,135			109,135	2,067,295
2018	652,420	941,614	3,000,000		4,594,034	63,693	390,340		454,033	5,048,067
2019	34,675		4,520,000	4,182,604	8,737,279	118,625	282,635		401,260	9,138,539
2020	34,770		4,520,000	4,182,604	8,737,374	118,625	944,640		1,063,265	9,800,639
2021	34,675		4,520,000	4,182,604	8,737,279	118,625	1,072,800		1,191,425	9,928,704
2022	34,675		4,520,000	4,182,604	8,737,279	17,520	218,064	9,808,608	10,044,192	18,781,471
2023	34,675		4,520,000	4,182,604	8,737,279	17,520		2,406,851	2,424,371	11,161,650
2024	34,770		4,374,649	4,182,604	8,592,023	17,520		2,406,876	2,424,396	11,016,419
2025	34,675			3,269,666	3,304,341	17,520		2,406,851	2,424,371	5,728,712
2026						17,520		2,397,340	2,414,860	2,414,860
2027						17,520		2,311,008	2,328,528	2,328,528
2028						17,520		2,312,560	2,330,080	2,330,080

[a] Agnico Eagle (2016f).

MEADOWBANK CAMP WILL CONTINUE TO BE USED
ᐊᐳᖅᑎᵒᓇᖅᑐᒥᑦ ᓄᓇᓕᐊᓪᓚᖅ ᐊᑐᖅᑕᐅᓂᖏᓐᓄᑦ ᑲᔪᓯᓂᐊᖅᑐᖅ

- During Whale Tail Pit Operations, 210 persons will be housed at Whale Tail Pit and approximately 440 persons will continue to use the Meadowbank Camp
- Those at Meadowbank Camp will continue – Operating the Powerhouse, Mill, Maintenance and Services departments
- Water use for Meadowbank milling and camp use under 2AM MEA1525.

- Whale Tail ᓄᓇᒥᑦ ᐃᓗᓪᑐᖅᓯᒪᔨᖏᑦ ᐊᐅᓪᓚᖅᑎᓂᖅᑲᖅᑎᓕᓗᒥᑦ, 210 ᐃᓄᐃᑦ Whale Tail ᓄᓇᒥᑦ ᐃᓗᓪᑐᖅᓯᒪᔨᖏᑦ ᐃᓂᖅᑲᓂᐊᖅᑐᑦ ᐊᒻᒪᓗᓗ 440-ᓗᐊᑦ ᐃᓄᐃᑦ ᐊᐳᖅᑎᵒᓇᖅᑐᒥᒃ ᐊᑐᐃᵒᓐᓂᓗᑎᒃ
- ᐊᐳᖅᑎᵒᓇᖅᑐᒥᑦ ᓄᓇᓕᐊᓪᓚᒋᑦᑐᑦ ᑲᔪᓯᓂᐊᖅᑐᑦ - ᐊᐅᓪᓚᖅᑎᓂᕐᒧᑦ ᐅᓪᒪᖅᑯᑎᒥᒃ, ᓯᖅᑲᓕᑎᑕᐃᓐᓇᕐᓂᑦ, ᐋᖅᑭᒃᓯᐃᓕᓴᒃᑯᑦ ᐊᒻᒪᓗᓗ ᐱᓕᕆᑎᕆᐃᓕᓴᒃᑯᑦ
- ᐃᒪᖃᒃ ᐊᑐᕐᓂᖓᓪᓕᑦ ᐊᐳᖅᑎᵒᓇᖅᑐᒥᑦ ᓯᖅᑲᓕᑎᑕᐃᓐᓇᕐᓂᕐᒧᑦ ᓄᓇᓕᐊᓪᓚᖅᓴᕐᒧᓗ ᒪᓕᓐᓂᐊᖅᑕᓐᓂᓪᓕᑦ 2AM-MEA1525.

WATER USE DURING WHALE TAIL PIT OPERATION
ᐃᒪᖏᑲᐊᑐᖏᓂᖅ WHALE TAIL ᓄᓇᒥᑦᐃᓗᑐᖏᓪᓗᒪᔪᖅᐊᐅᓪᓚᕐᓂᑎᓂᐅᑎᑦᓗᒍ

Table 2.4-3: Proposed Amended Amount of Freshwater

	Meadowbank Approved Water Management Plan					Proposed Whale Tail Amendment				Overall Total
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2024	34,770		4,374,649	4,182,604	8,592,023	17,520		2,406,876	2,424,396	11,016,419
2025	34,675			3,269,666	3,304,341	17,520		2,406,851	2,424,371	5,728,712
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2027						17,520		2,311,008	2,328,528	2,328,528
2028						17,520		2,312,560	2,330,080	2,330,080

[a] Agnico Eagle (2016f).

QUALITY ASSURANCE/ QUALITY CONTROL
ᖃᓄᐃᓐᓂᐅᔪᒥᒃᓇᓗᓇᐃᖅᓯᓂᖅ/ᖃᓄᐃᓐᓂᕐᒥᒃᐊᐅᓚᑦᑎᓂᖅ

- Agnico Eagle will continue to adhere to the Meadowbank Mine QA/QC Plan (Agnico Eagle 2015)
- Reviewed during renewal

It is a requirement of the:

- Type A 2AM MEA1525 Part I Condition 16, which states:
  - *The Licensee shall maintain a QA/QC Plan accepted by the board*
  - *The plan shall be developed in accordance with Standard Methods and INAC guidelines for use by Clase "A"*
  - *Collected by a qualified technician and sent to an accredited laboratory*
- NIRB Project Certificate Condition 6
- Furthermore, each discipline and associated plan has specific QA/QC requirements that meet industry standards and best practices for management of data

- ᐊᒡᓃᑯᒃᑯᑦ ᒪᓕᖕᓂᐊᖅᑐᑦ ᐊᐳᖅᑎᓐᓈᖅᑐᒥᑦ QA/QC-ᒧᑦ ᐸᕐᓇᐅᑎ (ᐊᒡᓃᑯ ᐄᒍ 2015)
- ᕿᒥᕐᕈᔭᐅᔪᖅ ᓄᑖᙳᖅᑎᕆᓂᕐᒥᑦ

ᐱᔭᕆᐊᖃᖅᑎᑕᐅᔪᖅ ᐅᑯᓄᙵ:

- Type A 2AM-MEA1525 ᐊᕕᒃᑐᖅᓯᒪᔪᖅ I ᖃᓄᐃᖕᒐᔭᕆᐊᖃᕐᓂᖅ 16, ᐅᖃᖅᓯᒪᔪᖅ:
  - *ᓚᐃᓴᓐᓯ ᐊᑐᐃᓐᓇᕐᓂᐊᖅᐳᖅ QA/QC-ᒧᑦ ᐸᕐᓇᐅᑎᒥᒃ ᓈᒻᒪᒋᔭᐅᔪᖅ ᑲᑎᒪᔨᓄᑦ*
  - *ᐸᕐᓇᐅᑎᓕᐊᖑᓚᐅᖅᑐᖅᒪᓕᒃᓗᒋᑦ ᐊᑐᖅᑕᐅᔪᑦ ᐋᖅᑭᐅᒪᔪᑦ ᐊᒻᒪᓗ INAC-ᑯᑦ ᒪᓕᒃᑕᐅᔭᒃᓴᖏᑦ ᐊᑐᕐᓂᕐᒧᑦ Class "A"-ᒥᒃ*
  - *ᑲᑎᑕᐅᔪᑦ ᐊᔪᙱᓐᓂᖃᖅᑐᓄᑦ ᐊᒻᒪᓗ ᐊᐅᓪᓚᖅᑎᑕᐅᑉᓗᑎᒃ ᐃᓕᑕᕆᔭᐅᓯᒪᔪᓄᑦ ᖃᐅᔨᓴᐃᕝᕕᖕᓄᑦ*
- ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᐱᓕᕆᐊᕐᒧᑦ ᓇᓗᓇᐃᑯᑕᖕᒐᓐᓂᑦ ᖃᓄᐃᖕᒐᔭᕆᐊᖃᕐᓂᖅ 6
- ᐊᒻᒪᓗᒃᑲᓐᓂᖅ, ᐊᑐᓂ ᐊᑐᖅᑕᐅᔭᕆᐊᓕᒃ ᐊᒻᒪᓗ ᑕᒪᒃᑯᓄᙵ ᐸᕐᓇᐅᑎ QA/QC-ᓄᑦ ᐱᔭᕆᐊᖃᕐᓂᖃᖅᑐᑦ ᑎᑭᐅᑎᔪᓂᒃ ᐱᓕᕆᕝᕕᒡᔪᐊᕐᓄᑦ ᐊᑐᖅᑕᐅᔪᓄᑦ ᐊᒻᒪᓗ ᐱᐅᓛᒃᑯᑦ ᐊᑐᖅᑕᐅᖃᑦᑕᖅᑐᓂᒃ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᓈᓴᐅᑎᓂᒃ/ᑎᑎᖅᑲᓂᒃ

QUALITY ASSURANCE/ QUALITY CONTROL
ᖃᑲᓇᐃᓐᓂᐅᔨᒥᑲ ᓇᓗᓇᐃᖅᓯᓂᖅ/ᖃᑲᓇᐃᓐᓂᕆᑲ ᐊᐅᓪᓕᑎᓂᖅ

In summary:

- Geochemistry samples of waste rock follow the ARD/ML plan and follow Meadowbank standards:
  - Encounter: greywacke, mafic volcanic, intermediate intrusive
  - Generally, sampling every 4th drill hole for ARD; every 16th hole for ML
  - Sent to Meadowbank Lab for ABA and NPR testing; duplicate's sent to external accredited laboratory
- Monthly site wide water quality data collection by technicians follows rigorous QA/QC
  - Qualified technicians
  - Generally 1 field duplicate per 10 samples
  - Sampled by inspectors (INAC, KivIA)
  - Third party accredited laboratory

ᓇᐃᓇᖅᓯᒍ:

- ᓄᓇᓕᕆᓂᕐᒧᑦ ᐅᖅᑐᕋᐅᑎᓪᓗᑦ ᐊᖅᑕᑯᖅᑕᐅᔨᓄᑦ ᐅᓴᖅᖢᓄᑦ ᒪᓕᓂᖅᑕᖅᑐᑦ ARD/ML ᕿᖏᐅᑎᒥᖅ ᐊᓪᒪᓗᓐ ᐊᑐᖅᓯᒋᑦ ᐊᐳᖅᑎᓂᓇᖅᑐᒥᑦ ᐊᑐᖅᑕᐅᔨᔪᑦ:
  - ᖃᖅᐅᓴᖅᐅᔨᔪᑦ: ᒪᕐᖅᖢ, mafic volcanic, ᖃᑭᑎᖏᑦᑐᖏᓪᓕᐹᑦ ᐃᑎᕐᕆᐅᔨᔪᑦ
  - ᐅᖅᑐᕋᐃᓐᓂᑦ ᓱᑕᒪᑭᖏᖓᑦ ᐃᑯᑕᖅᑕᐅᔨᕐᒥᑦ ARD-ᒧᑦ ᐱᓴᐅᖃᖅᑕᖅᑐᑦ; 16-ᑎᓴᖏᓂᑕᒪᑦ ᐊᖏᒪᔪᕐᒥᑦ ML-ᒧᑦ
  - ᐊᐅᓪᓕᖅᑎᑕᐅᖃᖅᑕᖅᑐᑦ ᐊᐳᖅᑎᓂᓇᖅᑐᒥᑦ ᖃᐅᔨᓴᐃᓐᓇᖅᑐᑦ ABA-ᒧᑦ ᐊᒪᓕᓗ NPR-ᒧᑦ ᖃᐅᔨᓴᖃᑕᐅᓂᒪᒧᑦ; ᐊᓴᖏᓐᓂᑦ ᐊᐅᓪᓚᖅᑎᑕᐅᖃᖅᑕᖅᑐᑦ ᓱᓚᒋᓂᑦ ᐃᓚᓕᕆᐅᓱᒪᔪᓂᑦ ᖃᐅᔨᓴᐃᓐᓇᖅᑐᓂᑦ
- ᑕᖅᑭᑕᒧᑦ ᐃᓂᐅᔪᓄᑦᑎᒥᑦ ᐃᒪᐅᕐ ᖃᐅᔨᓴᐃᓐᓂᖏᓪᓕᓂᑦ ᒋᔭᐅᑎᓂᑦ/ᑎᑎᖅᑲᐃᑦ ᑲᑎᑕᐅᖃᖅᑕᖅᑐᑦ ᐱᓕᕆᔨᓂᑦ ᒪᓕᒐᓗᑎᑦ QA/QC-ᑲᓪᓚᐃᑦ
  - ᐊᔪᖏᓐᓂᓕᖅᑐᖅᑐᑦ ᐱᓕᕆᔨᒃ
  - ᐊᑕᐅᓱᖅ ᓄᓇᒥᑦ ᐃᓕᓴᐅᑲᓐᓂᕆᓂᖅᑐᖅᑐᖅ ᖃᐅᔨᓴᐃᓐᓂᖅ ᖃᐅᔨᓴᐃᓐᓂᑦ
  - ᐅᖅᑐᕋᖅᑕᐅᔪᑦ ᖃᐅᔨᓴᐃᓇᐅᓂᑦ (INAC-ᑯᓐᓂᑦ, ᑭᖑᐊᐅᑯᓐᓂᑦ)
  - ᐊᓱᖏᓐᓂᑦ ᐃᓕᓴᕆᐅᓱᒪᔪᑦ ᖃᐅᔨᓴᐃᓐᓇᖅᑐᒃ

QUALITY ASSURANCE/ QUALITY CONTROL
ᖃᒃᓄᐃᖅᓂᐅᕕᒃᐊᓗᐊᖅᓱᓂᖅ/ᖃᒃᓄᐃᖅᓂᕆᒃᐊᐅᓪᓕᓂᖅ

In summary:

- EEM/MMER sampling follows ECCC Schedule II regulations
  - ECCC guidance on QA/QC
- Receiving water quality samples during Core Receiving Environmental Monitoring Plan (CREMP) are collected, data is analyzed and reports are produced by a third party consultant.
  - Specific QA/QC and Standard Operating Procedure (SOP) including field duplicates and blanks
  - Samples analyzed be a third party accredited laboratory
- Ground water monitoring and Air quality monitoring
  - SOP
  - Specific QA/QC
  - Samples analyzed be a third party accredited laboratory

ᐊᐃᓐᖅᓯᒪ:

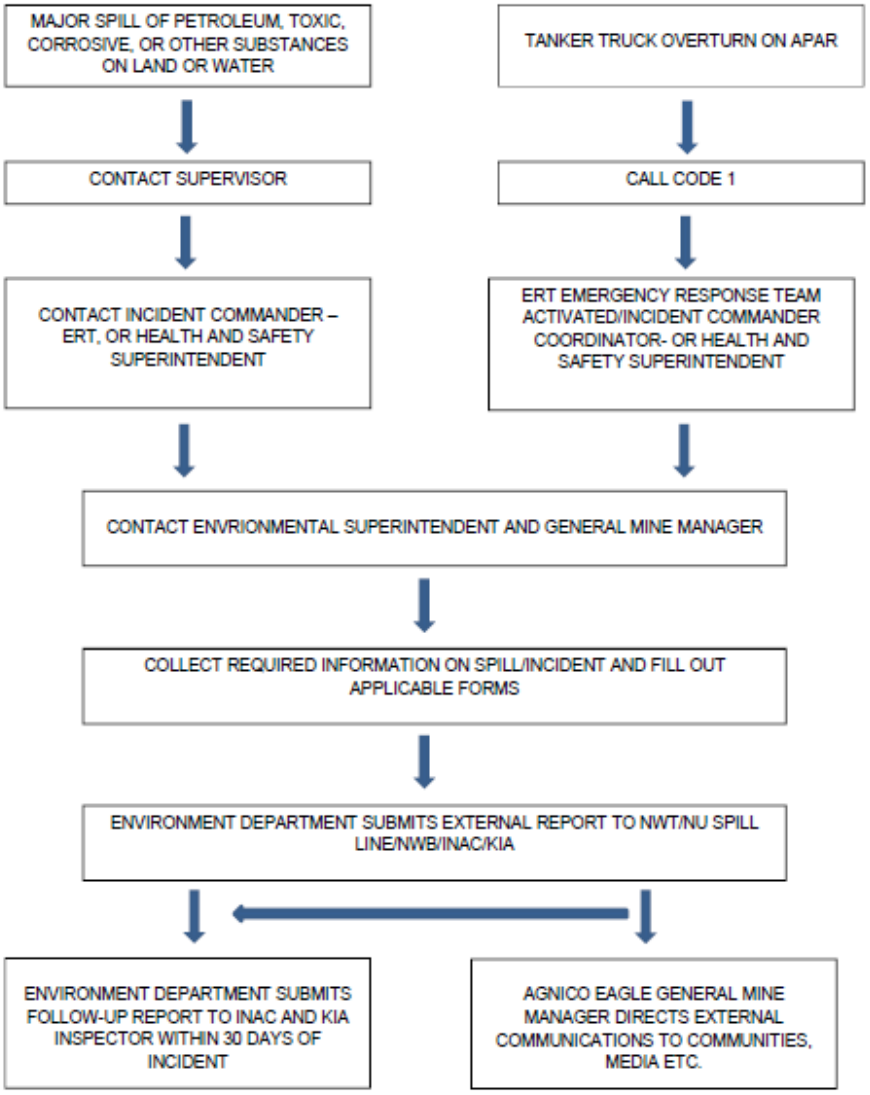
- EEM/MMER-ᒥᒃ ᐅᖅᑐᕋᐃᓐᓂᒪᓕᕆᓂᖅᑐᑦ ECCC-ᑯᑦ ᑎᑎᕆᖅᖃᖅ II-ᒥᑦ ᒪᓕᒐᕋᓯᓂᑦ
  - ECCC-ᑯᑦ ᒪᓕᒃᑕᐅᕐᓂᖅᓴᖅᑎᑦ QA/QC
- ᐃᒪᕆᒥᒃ ᖃᒃᓄᐃᖅᓂᖏᓐᓄᑦ ᐅᖅᑐᕋᐃᓐᓂᑦ ᓯᓚᒥᑦ ᐱᕐᓂᖅ ᐊᖏᑎᓕᖁᓂᕐᓗᓂᒪᓕᕆᓂᕐᓗᓂᒪᓕᑦ ᕿᖃᐃᓂᖅᖃᖅᑎᓕᒃᑐᑦ (CREMP) ᖃᑎᒌᐅᖃᕆᓕᕆᓂᖅᑐᑦ, ᓱᓴᐅᑎᑦ/ᑎᑎᖅᖃᐃᑦᖃᐅᓂᓴᖅᑕᐅᖃᕆᓕᕆᓂᖅᑐᑦ ᐅᓂᒃᑲᓕᐅᖅᓯᓗᑎᓗᓐᓄᓗ ᐊᓯᖏᑕᓐᓄᑦ ᖃᐅᔨᓂᕐᒥᔪᐅᕐᓂᑦ.
  - QA/QC ᐊᓚᒪᓗ ᐊᑐᖅᑕᐅᕐᓂᑦ ᐊᐅᓪᓚᖅᑎᑎᓂᕐᓗᓂᒪᓕᑦ ᐊᑐᖅᑕᐅᕐᓂᖅᓴᐃᑦ (SOP-ᐃᓕᐅᕐᓂᑦ
  - ᐅᖅᑐᕋᖅᑕᐅᕐᓂᑦ ᖃᐅᔨᓴᖅᑕᐅᕐᓂᑦ ᐊᓯᖏᑕᓐᓄᑦ ᐃᓕᑕᒪᓴᐅᓯᒪᕐᓂᑦ ᖃᐅᔨᓴᐃᖅᓯᒪᓂᑦ
- ᓄᓇᒋᑦᑐᒥᑦ ᐃᒪᖏᑦ ᖃᐅᔨᓴᕆᓕᕆᓂᕐᓗᖅ ᐊᓚᒪᓗ ᐊᓂᖅᓴᖅᑐᖅᑕᐅᑦᑕ ᖃᐅᔨᓴᖏᓐᓄᑦ ᖃᐅᔨᓴᕆᓕᕆᓂᕐᓗᖅ
  - SOP
  - ᐱᕐᓂᖅ QA/QC
  - ᐅᖅᑐᕋᖅᑕᐅᕐᓂᑦ ᖃᐅᔨᓴᖅᑕᐅᕐᓂᑦ ᐊᓯᖏᑕᓐᓄᑦ ᐃᓕᑕᒪᓴᐅᓯᒪᕐᓂᑦ ᖃᐅᔨᓴᐃᖅᓯᒪᓂᑦ

SPILL CONTINGENCY AND EMERGENCY RESPONSE PLANNING
ᑯᕕᓯᓂᒃ ᓂᓗᐅᓇᖅᑎᑕᓄᑦᐊᓚᓗ ᑐᐊᕕᓇᖅᑐᓄᑦᐅᐸᓗᐊᓂᕐᒧᑦᐸᖅᓇᐃᓂᒃ

- Meadowbank Spill Contingency Plan (Version 6, March 2016)
- Applied consistently and equally for all areas of operation
- Meadowbank *Material Management, Emergency Response, Environmental Monitoring and other operational plans* remain holistic, operationally seamless and functional.

- ᐊᐳᖅᑎᓵᓇᖅᑐᒥᑦ ᑯᕕᓯᓂᒃ ᓂᓗᐅᓇᖅᑎᑕᓄᑦ ᐸᖅᓇᐅᑎ (6-ᑎᓴᖓᒐ, ᐃᑦᔪ 2016)
- ᐊᑐᖅᑕᐅᖏᑎᓇᖅᑐᑦ ᐊᓚᓗᓗ ᐊᓱᔪᑎᖅᑐᓂᒃ ᑕᒪᐃᓇᓄᑲᑦᖅ ᐊᐅᓪᓚᖅᖢᖅ ᐊᐅᓪᓚᖅᑎᑦᑎᓂᕐᒧᑦ
- ᐊᐳᖅᑎᓵᓇᖅᑐᒥᑦ ᐊᑐᖅᑕᐅᓯᓂᒃ ᐊᐅᓪᓚᖅᖢᖅ, ᑐᐃᓐᓇᑎᓂᒃᑐᓄᑦᐅᖅᑐᓂᒃ ᐊᐅᓪᓚᖅᑎᑦᑎᓂᕐᒧᑦᐸᖅᓇᐅᑎᓪᓗ ᐊᐅᓪᓚᖅᑎᑦᑎᓂᕐᒧᑦ ᐃᓗᐃᑉᐳᓚᐃᓇᓇᓂᒃ ᐊᐅᓪᓚᖅᑎᑦᑎᓂᕐᒧᑦ ᐊᓯᖏᓇᖅᑐᓕᕆᓂᖅ ᐊᐅᓪᓚᖅᑎᑦᑎᓂᕐᒧᑦ ᐊᓯᖏᓇᖅᑐᓕᕆᓂᖅ.

Figure 6: Major spill/incident reporting procedure



HIGHLY TRAINED EMERGENCY AND RESPONSE TEAM (ERT)
ᐊᓯᕈᖏᓂᖅᓴᖅᑕᐅᓕᕆᑎᐊᖅᑐᑐᐊᕕᓇᖅᑐᓕᕐᓗᓂᐊᓚᓗ ᐅᓪᓗᐊᓯᓂ (ERT)

- Designated Emergency Response Team (ERT) consisting of on-site personnel has been established at Meadowbank and another team will be established at Whale Tail
- All members of the teams are trained and familiar with emergency and spill response resources, including their location and access, the SCP, and appropriate emergency spill response methodologies
- The following training is included:
  - A review of the spill response plan and responsibilities of the ERT members;
  - The nature, status, and location of fuel and chemical storage facilities;
  - The on-site and off-site spill response equipment and how to use it;
  - Emergency contact lists;
  - Desktop exercises of “worst case” scenarios; and
  - The likely causes and possible effects of spills.

- ᑐᐊᕕᓇᖅᑐᓕᕐᓂᓯᓂ ᐊᓚᓗᓪ ᐅᓪᓗᐊᓯᓂ (ERT) ᐃᓂᐅᓯᒥᓂ ᐱᓕᕐᓂᓯᓴᖅᑭᑕᐅᓕᕆᓂᖅ ᐊᐅᖅᑎᓄᐅᓵᓴᖅᑐᑎᓂ ᐊᓚᓗᓪ ᐊᓕᖏᑕᓴᖅᑭᑕᐅᓂᐊᖅᑐᓂ Whale Tail-ᒥᓂ
- ᐃᓕᑎᕆᐅᔪᓐᓇᑦ ᐊᓯᕈᖏᓂᖅᓴᖅᑕᐅᓕᕆᔨᓂ ᐊᓚᓗᓪ ᖃᐅᐅᓚᓂᖅᓴᖅᑐᑐᐊᕕᓇᖅᑐᓕᕐᓂᓂᖅᒥᑦ ᐊᓚᓗᓪ ძᕆᔨᖅᖃᖅᑦᑎᓂᓪ, ᐃᓕᑎᐅᔪᓗᑎᒃ ᐃᓂᑎᕆᖏᖓᑦᑐᓚᓗᓪ ᐱᔨᖏᓇᖅᑕᖏᑦ, SCP, ᐊᓚᓗᓪ ᐊᑐᖅᑕᐅᓕᕐᓂ ᑐᐊᕕᓇᖅᑐᓕᕐᓂᓂᖅ ძᕆᔨᓄᑦ ᐅᓪᓗᐊᓂᓪᓗᓂ ᐋᖅᑭᐅᐅᒪᓂᖅ
- ᐅძᐊ ᐊᓯᕈᖏᓂᖅᓴᐃᓂᓪᓗᓂ ᐃᓕᑎᐅᔪᓂ:
  - ᖃᑎᖅᑭᓂᖅ ძᕆᔨᓄᑦ ᐅᓪᓗᐊᓂᓪᓗᓂᓪᓗᓂᓪᓚᐅᑎ ᐊᓚᓗᓪ ᐱᓴᓴᖅᐱᐅᑎᖓᑦ ERT-ᓄᑦ ᐃᓕᑎᓴᐅᓕᕐᓂ;
  - ᖃᓄᓄᖏᓂᖏᓐᓄ, ᐃᓂᖏᓐᓄ ᐅᖃᓕᓕᒫᓴᐸ ᐊᓚᓗᓪ ᐱᐅᖏᑦᑐᓄᑦ ᑐᖃᓄᖅᑕᓕᕆᔨᒃᑲᓂ;
  - ᐃᓂᐅᔨᒥᑦ ᐊᓚᓗᓪ ᓕᓪᑕᒋᓂᑦ ძᕆᔨᓄᑦ ᐅᓪᓗᐊᓂᓪᓗᓂᓪᓗᓂ ᐱᖏძᑎᑦ ᐊᓚᓗᓪ ᖃᓄᖅ ᐊᑐᖅᑕᐅᓴᓕᖅᑲᖏᖅᓂᖏᓐᓄᓄᑦ;
  - ᑐᑐᐊᕕᓇᖅᑐᖃᖅᑦᑎᑎᑦᖃᖅᑎᓕᕐᓂᖃᖅᑲᐅᑎᑕᐅᓴᓕᖅᑲᓕᒋᑦ;
  - ᖃᖅᓴᑕᐅᓴᐅᑦᐅᐅᑐᑎᑦ“ᐱᐅᖏᑕᒋᔭᖏᓐᓇᖅᑐᓄᑦ” ᐱᔨᖏᓇᖅᑐᑦ; ᐊᓚᓗᓪ
  - ᐱᓴᕈᐅᔨᖏᓇᖅᑐᑦ ᐊᓚᓗᓪ ᖃᓄᓄᖏᓂᓕᒫᖅᑎᑦᑎᓂᐅᔨᖏᓇᖅᖏᓂᖅᑦ ძᕆᔨᓄᑦ.

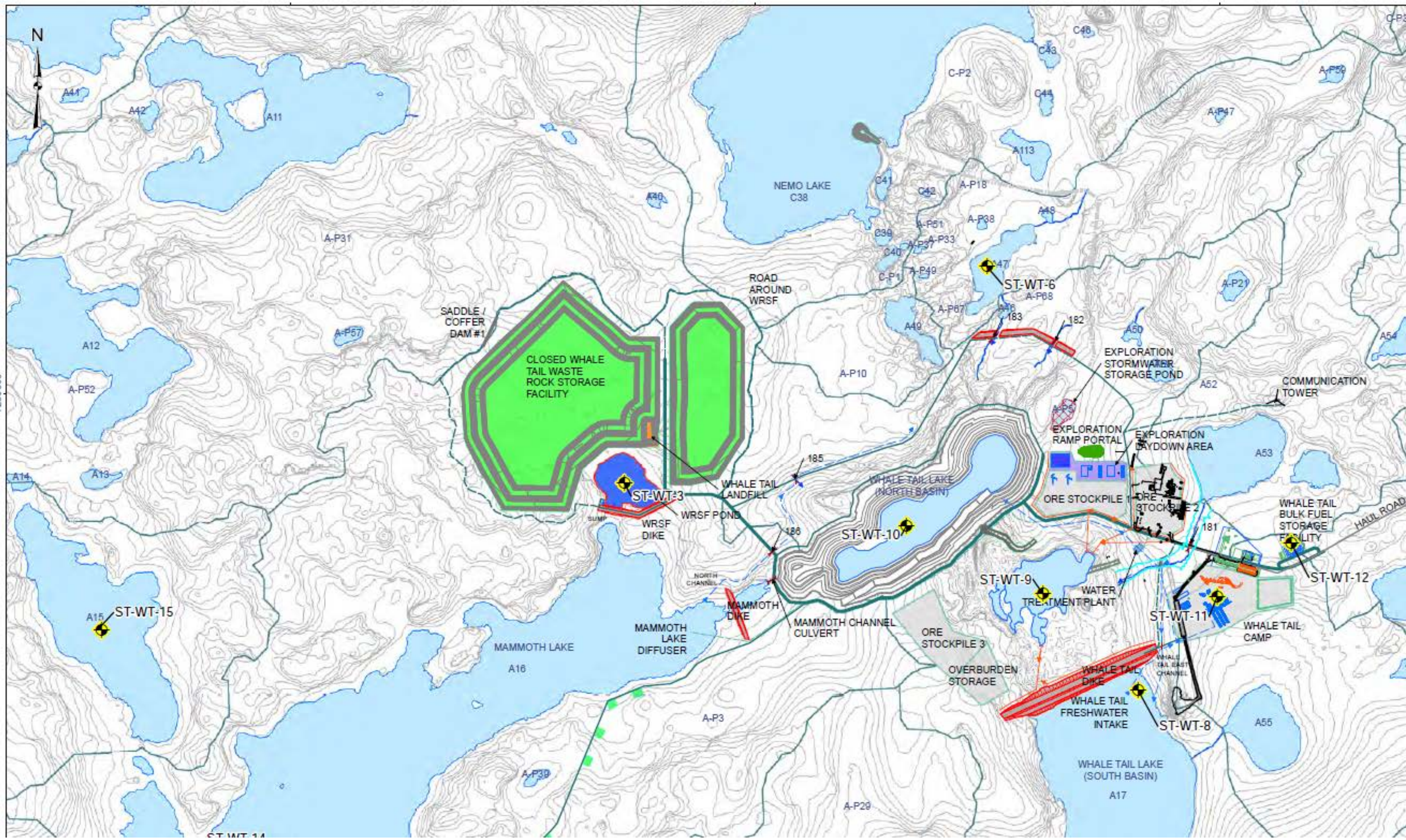
WHALE TAIL PIT CLOSURE PLANNING
WHALE TAIL ᓄᓇᒥᑦᐃᓗᑦᑐᖅᓯᒪᔨᖅ ᐅᖅᑯᐊᖅᑕᓪᓕᐊᓂᑦᑐᓴᓂᖅ

- After 4 years of mining at Whale Tail Pit , beginning in late 2022 and continuing until 2025, both sites will actively close
- Meadowbank Mine site Interim Closure and Reclamation Plan approach is unchanged
- Progressive closure of Vault Pit and portions of Meadowbank site during operations of Whale Tail Pit
- Refer to the Meadowbank Interim Closure and Reclamation Plan (January 2014)
  - Bonding and Securities set according to Type A License 2AM MEA1525
- To support the Whale Tail Pit Type A License refer to the Whale Tail Interim Closure and Reclamation Plan
  - Closure of the Whale Tail Pit site
  - Closure of the Whale Tail Haul Road
- INAC guidance on closure and reclamation will be adhered to.

- ᓯᑕᒪᓄᑦ ᐅᑭᐅᓄᑦ ᐅᓴᖅᑕᕆᐊᓕᐅᔭᓐᓃᑎᒃ Whale Tail ᓄᓇᒥᑦ ᐃᓗᑐᖅᓯᒪᔨᖅᑎᑦ, ᐱᒋᐊᖅᓗᓂ 2022 ᓄᖕᓴᓕᖅᑎᑦᓗᔪ ᐊᒻᒪᓗᓂ ᑲᔨᓯᓗᓂ 2025-ᒧᑦ, ᑕᒪᖅᑎᒃ ᐃᓂᐅᔨᑦ ᐅᖅᑯᐊᖅᓂᐊᖅᑐᑦ
- ᐊᐳᖅᑎᵒᓰᖅᑐᒥᑦ ᐅᓴᖅᖃᓂᐊᖅᓚᵇ ᐅᖅᑯᐊᖅᓂᖕᓚ ᐊᒻᒪᓗᓂ ᐅᑎᖅᑎᑎᓭᓕᓕᓂᐊᓂᖅᓯᒪᓕᐅᑎᒧᑦ ᐊᑐᖅᑕᐅᔨᖅ ᐊᓯᐊᖕᓚᕐᓂᑐᖅ
- ᐅᖅᑯᐊᖅᑕᓪᓕᐊᓂᖅ Vault ᓄᓇᒥᑦ ᐃᓗᑐᖅᓯᒪᔨᖅᑎᑦ ᐊᒻᒪᓗᓂ ᐃᓕᖕᓚᕆᓂᖅᐳᖅ ᐊᐅᓚᑦᑐᖅᓰᖅᑐᒥᑦ ᐊᐅᓪᓛᖅᑐᖅᑕᐅᓂᖅᓗᔪ Whale Tail ᓄᓇᒥᑦ ᐃᓗᑐᖅᓯᒪᔨᖅ
- ᑕᑯᓗᔪ ᐊᐅᖅᑎᑎᓰᖅᑐᖅ ᐅᖅᑯᐊᖅᑕᓪᓕᐊᑎᑦᓗᔪ ᐊᒻᒪᓗᓂ ᐅᑎᖅᑎᑎᓚᐅᔭᓐᓃᑎᒃ ᓴᓇᐊᖅᑐᓂᒃ (ᖃᓄᐊᓚ 2014)
  - ᐊᑐᖅᑐᓂ ᐊᒻᒪᓗᓂ ᒥᐊᓂᖅᓯᓂᓪᓕᑦ ᐊᖅᑭᖅᓯᓂᖅ ᒪᑕᒃᓴᔪ Type A ᑕᐃᓴᖏᓐ 2AM MEA1525
- ᐃᑲᔪᐃᓂᐊᓪᓗᓂ Whale Tail ᓄᓇᒥᑦ ᐃᓗᑐᖅᓯᒪᔨᖅ Type A ᑕᐃᓴᖏᓐᓂᒥᑦ ᑕᑯᓗᔪ ᐅᖅᑯᐊᖅᑕᓪᓕᐊᑎᑦᓗᔪ ᐊᒻᒪᓗᓂ ᐅᑎᖅᑎᑎᓚᐅᔭᓐᓃᑎᒃ ᓴᓇᐊᖅᑐᑎ
  - ᐅᖅᑯᐊᖅᑕᓪᓕᐊᓂᖅ Whale Tail ᓄᓇᒥᑦ ᐃᓗᑐᖅᓯᒪᔨᖅ
  - ᐅᖅᑯᐊᖅᑕᓪᓕᐊᓂᖅ Whale Tail-ᒥᑦ ᐅᓂᒃᑕᒃᓴᓂᓪᓕᑦ ᐊᐠᓂᑯᑎ
- INAC-ᑯᑦ ᒪᒃᑯᖅᑎᑎᓂᕐᓚᑦ ᐅᖅᑯᐊᖅᑕᓪᓕᐊᑎᑦᓗᔪ ᐊᒻᒪᓗᓂ ᐅᑎᖅᑎᑎᓚᓂᓪᓕᑦ ᒪᒃᑯᑕᐅᓂᐊᖅᑐᖅ.

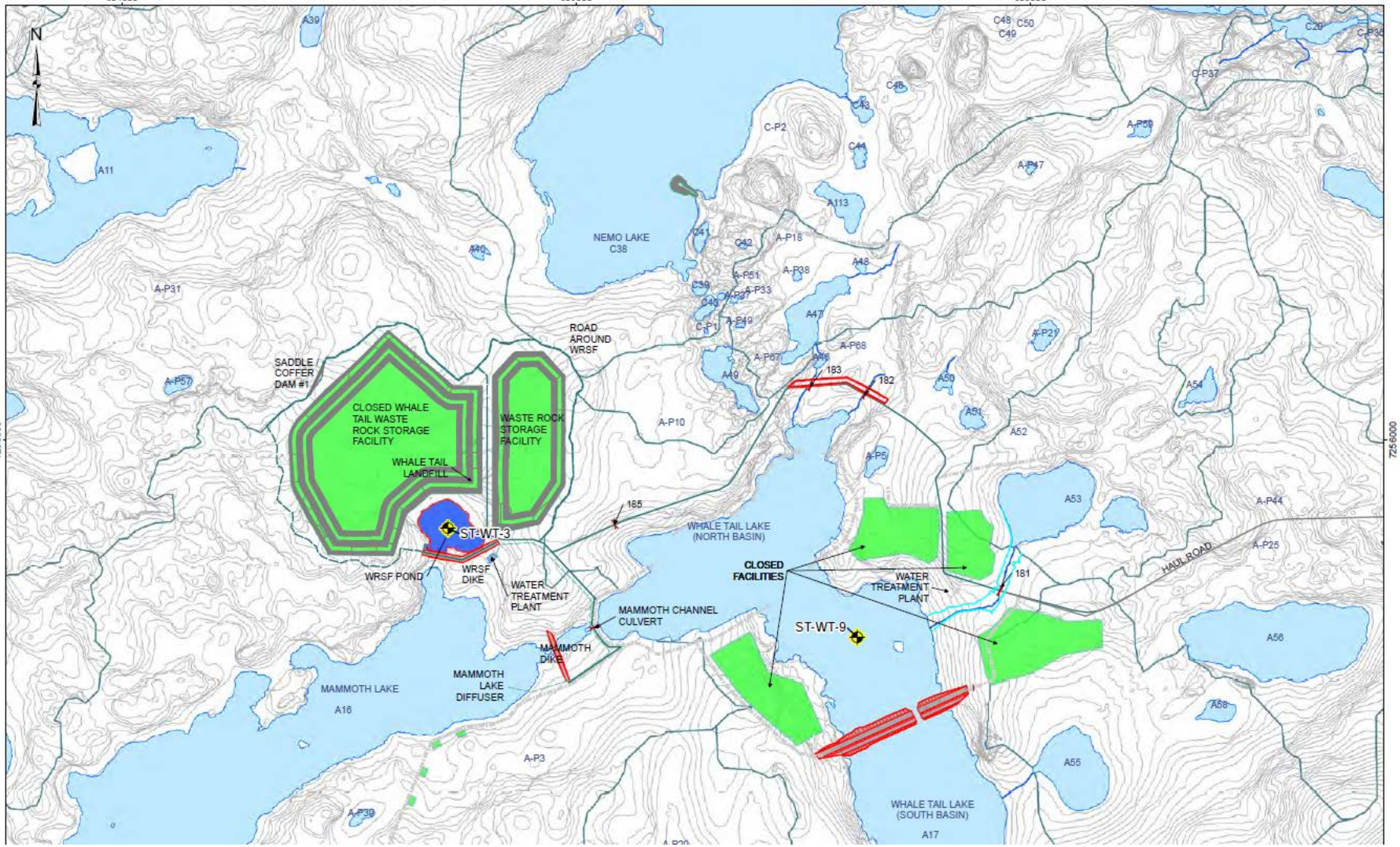
WHALE TAIL PIT CLOSURE – 2024

WHALE TAIL ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓯᒪᔪᖅ ᐅᑯᐊᕐᓂᖅ - 2024



WHALE TAIL PIT POST CLOSURE – 2025 TO 2029

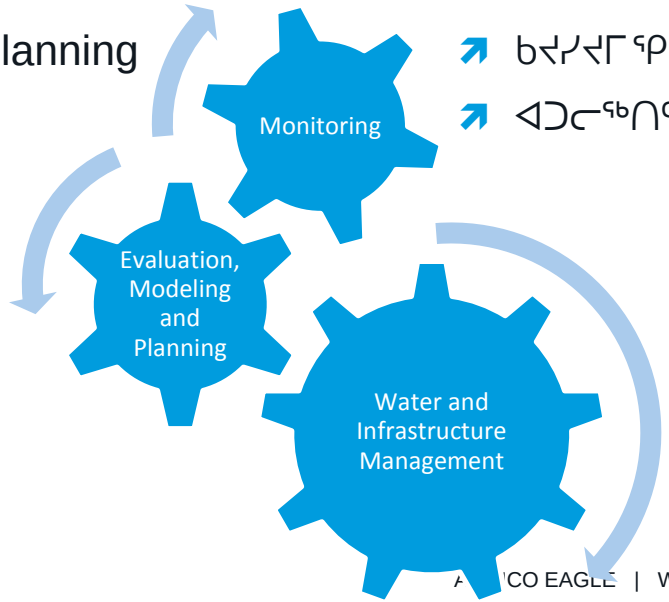
WHALE TAIL ᓄᓇᒥᐅᑕᖅᑕᕐᓂᒃ ᑭᖑᓂᖅᐸᒃᑐᐃᓂᖅ ᐅᑯᐊᖅᑐᖅ - 2025 ᐅᖃᖅᖢᓂ 2029



CLOSURE AND RECLAMATION PLANNING
ᐅᑯᐊᖅᓂᖅᐊᓕᒐᓗ ᐅᑎᖅᑎᑎᓇᓂᖅᒧᑦᐸᖅᓇᐃᓂᖅ

- Adhere to ARD/ML Monitoring Plan, WRSF Management Plan, WQ and Flow Monitoring Plan
- Use knowledge/ data gained from active closure of Vault Pit
- Proactive Monitoring and Decision Making will ensure post closure goals are met
  - Geochemical
  - Thermistor
  - Water Quality in sumps and pit
  - Modelling
- Continuous evaluation and planning
- Adaptive Management

- ᒪᓕᓪᓗᒍ ARD/ML-ᒥᒃ ᖃᐅᔨᓴᒋᐊᖃᑦᑕᖅᓂᖅᒧᑦ ᐸᖅᓇᐅᑎ, WRSF-ᒥᒃ ᐊᐅᓕᕆᑎᓂᖅᒧᑦ ᐸᖅᓇᐅᑎ, WQ-ᒥᒃ ᐊᓚᒪᓗ ᖃᐅᔨᓴᒋᐊᖃᑦᑕᖅᓂᖅᒧᑦ ᐸᖅᓇᐅᑎ
- ᐊᑐᖅᓗᒋᑦ ᖃᐅᔨᒪᓂᖅᓴᓐᓂᒃ/ᐅᓴᓴᐅᑎᑦ/ᑎᑎᖅᑲᐃᑦ ᐱᔭᐅᔪᑦ ᐅᑯᐊᖅᐸᑦᓀᐊᓂᖅᒥᑦ Vault ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓱᒪᔪᖅ
- ᖃᐅᔨᓴᒋᐊᖅᓂᖅᖃᖅᑕᐃᓐᓇᖅᓗᓂᒃᓗ ᐊᓚᒪᓗ ᐃᓱᒪᓀᐅᓇᓂᖅᒧᑦ ᐅᑯᐊᖅᑯᓂᖅᓴᓂᖅᒧᑦ ᐸᖅᓇᐅᑎᓄᑦ ᑎᑭᐅᑎᑎᑦᑎᓂᐊᖅᑐᖅ
  - ᓄᓇᒥᑦ ᐱᐅᓐᓕᑦᑐᐃᑦ
  - ᐅᓇᖅᓂᖅᓱᐅᔨᑎ
  - ᐃᒪᐅᐸᖅᐅᓇᓐᓂᖏᓐᓄᑦ ᑲᑎᖅᓱᖅᑕᐅᔪᓂᑦ ᐊᓚᒪᓗ ᓄᓇᒥᑦ ᐃᓗᑦᑐᖅᓱᒪᔪᒥᑦ
  - ᐊᖅᑭᐅᒪᔪᓕᐅᓇᓂᖅ
- ᖃᔪᓱᔪᒥ ᖁᑎᖅᑭᓂᖅ ᐊᓚᒪᓗ ᐸᖅᓇᐃᓂᖅᒧᑦ
- ᐊᑐᓕᖅᑎᑦᑎᓂᖅᓴᓐᓂᒃ ᐊᐅᓕᕆᑎᓂᖅ



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