

2017 Proposed Whale Tail Pit Project
Type A Water Licence Framework for
Water Licence No. 2AM-WTP ----

The following table outlines Agnico Eagle's comments on potential water licence conditions to proceed with the activities and infrastructure associated with the Whale Tail Pit Project, should the Nunavut Water Board exercise its jurisdiction and authority under the *Nunavut Agreement* and *Nunavut Waters and Nunavut Surface Rights Tribunal* to proceed and issue a licence. Given the significant overlap between Whale Tail and the existing Meadowbank Mine, this framework uses the current Meadowbank Type A Water Licence as a base and adds certain Whale Tail -specific conditions. This framework also incorporates the Haul Road Type B Water Licence.

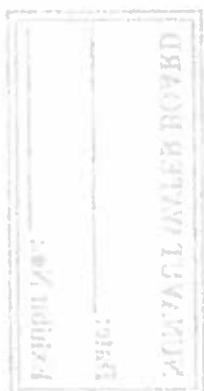
The draft framework does not present any new information, and reflects information from the Application as well as the current public record. Statements and conditions provided in the draft framework are intended to support the Nunavut Water Board and staff in their development of a water licence for the Whale Tail Pit Project.

The "Comments" column refers to the following Licences:

- Type A Water Licence No. 2AM-MEA1523 (Meadowbank) ("MB Licence")
- Type B Water Licence No. AEA1525 ("Haul Road Licence")

As set out below, in Agnico's view a number of items included in the MB Licence are also appropriate for inclusion in the Whale Tail Type A Water Licence. For those items, Agnico has included a note in the comment column which states "To be taken from MB Licence", with the specific reference.

Proposed terms		Agnico Eagle Comments and Annotation
Water Licence Cover Sheet		
• Water Management Area: THELON, QUOICH & BACK WATERSHEDS (5, 9 & 31) • Location: Whale Tail Pit Mine and Haul Road • Quantity of Water not to be exceeded: ○ 10,975,300 cubic metres annually as per Part E ○ 45,750 cubic meters for dust suppression along the Haul Road annually as per Part E • Expiry 2026		All other information to be taken from the cover sheet per MB Licence. The volume for dust suppression assumes 299 m³/day (based on Haul Road Licence) from May to September of each

**Part A: Scope, Definitions and Enforcement**

year.

1. Scope

a. This Licence authorizes the Licensee to use Waters and deposit of Waste in support of a Mining Undertaking classified as per Schedule 1 of the Regulations, at the Whale Tail and Haul Road Project. This Licence allows for the upgrade, operation and decommissioning of the Haul Road between the Meadowbank Gold Mine (Licence ZAM-MEA1525) and Whale Tail Pit. As outlined in the Type "A" Water Licence Application (Application) submitted to the Nunavut Water Board (NWB) on July 8, 2016 and as reviewed throughout the regulatory process.

The Licensee may conduct mining, and associated activities at the Meadowbank Gold Whale Tail Pit satellite deposit in the Kivalliq Region of Nunavut at the following project extents:

Project Extents	Latitude	Longitude
Haul Road	65° 04' 53.3" N	96° 01' 00.8" W
	65° 23' 49.7" N	96° 40' 35.8" W
Whale Tail Pit Project Area	65° 25' 22.241" N	96° 46' 6.042" W
	65° 25' 12.707" N	96° 35' 44.100" W
	65° 21' 35.740" N	96° 36' 3.944" W
	65° 21' 45.248" N	96° 46' 24.463" W
Whale Tail Pit Camp Site	95° 24' 36" N	96° 41' 41" W

In general, as follows:

- Use of water from Nemo Lake for camp, mining, associated activities and domestic purposes;
- Withdrawal and use of water from unnamed lake approximately 250 metres from the Emulsion Plant for use in explosives mixing
- Withdrawal and use of water from Whale Tail Lake (South Basin) for re-flooding of open pits following pit development;
- Quarrying of materials from specified locations;
- Operation of a camp at the Whale Tail Pit Project site;
- Construction and operation of the Amapuq Haul Road including associated water crossings and bridges;
- Construction and operation of the Whale Tail Waste Rock Storage Facility, and Ore Stockpiles;
- Operation of a Sewage Treatment Plant, Waste Water Treatment Plant and controlled discharge of treated Effluent during operations;
- Set-up and operation of a diesel fired equipment including use of the Waste Incinerator or approved equipment;
- Construction and operation of Contact and Non-Contact Water management systems;
- Construction and operation of emulsion facility;
- Construction and operation of the Whale Tail Landfill;
- Use of the Landfarm or other approved landfarm facility;

• Operation of the Whale Tail Attenuation Pond; • De-watering of Whale Tail Lake (North Basin); • Management and disposal of Wastes associated with the Whale Tail satellite deposit including: waste rock storage facility, landfill, ore stockpiles, water treatment plant, attenuation pond and other wastes as described in the Application; • Handling and storage of petroleum products and hazardous materials including explosives and other reagents; • Construction of Whale Tail site water management infrastructure including: Mammoth dike, Waste Rock Storage facility Dike, Mammoth channel culverts, Whale Tail Dike, Whale Tail Attenuation Pond, saddle/Coffer Dam, Storm water storage Pond, Northwest Dike, and Whale Tail Diversion channel. • Controlled and regulated Discharge of Effluent to Mammoth Lake from Whale Tail Attenuation Pond via Mammoth Lake Diffuser; • Re-flooding of Whale Tail open pit following pit development; and • Progressive Reclamation and Abandonment planning of on-site facilities and infrastructure.	
1(b) and 1(c)	To be taken from MB Licence, Part A, Item 1(b) and 1(c)
2. Definitions	See "Schedule A" below for revisions
3. Enforcement (a)-(c)	To be taken from MB Licence, Part A, Item 3(a) and (c)
Part B: General Conditions	
1-12	To be taken from MB Licence, Part B, Item 1-12
13. The Licensee shall implement the following Plans also required under Type A Water Licence 2AM-MEA1525. As approved by the board, any changes to these plans approved under Type A Water Licence 2AM-MEA1525 or this Licence shall be applicable to both licences: a. Aquatic Effects Management Program (AEMP), Version 3 (November 2015); b. Core Receiving Environment Monitoring Program (CREMP) (January 2016); c. Groundwater Monitoring Plan, Version 6 (June 2016); d. Quality Assurance/Quality Control (QA/QC) Plan, Version 2 (July, 2014); e. Emergency Response Plan, Version 9 (Nov. 2014); f. Hazardous Material Management Plan, Version 3 (October 2013); g. Spill Contingency Plan, Version 6 (Mar. 2016); h. Operational ARD/AML Testing and Sampling Plan, Version 2 (November 2013); i. Dewatering Dikes: Operation, Maintenance and Surveillance Manual, Version 6 (March 2017);	Refer to Attachment A which includes additional details related to the Mercury Monitoring Studies Program, CREMP and Water Quality and Flow Plan

i. Armonia Management Plan (June 2016)	
14. The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing. The Board has approved (or accepted) the following Plans for implementation under the relevant sections in the Licence. Any changes to the plans deemed significant shall be considered as an amendment to the plan(s) or as a modification and must be approved by the Board. a. Whale Tail Water Quality Monitoring and Management Plan for Dike Construction and Dewatering, (Nov. 2016); b. Whale Tail Water Quality and Flow Monitoring Plan, (Nov. 2016); c. Whale Tail Bulk Fuel Storage Facility: Environmental Performance Monitoring Plan (Nov. 2016); d. Whale Tail Interim Closure and Reclamation Plan; e. Whale Tail Landfill Design and Management Plan, (Nov. 2016); f. Whale Tail Waste Rock Management Plan, (Nov. 2016); g. Whale Tail Water Management Report and Plan, (Nov. 2016); h. Whale Tail Pit Haul Road Management Plan (June 2016); i. Waste Water Treatment System Operation and Maintenance Plan, Version 1 (Dec. 2015) j. Mercury Monitoring Studies Program	Refer to Attachment A, which includes additional details related to the updates in the Whale Tail Waste Rock Management Plan.
16. The Licensee shall update and revise for submission to the Board for approval in writing at least sixty (60) days after issuance of the Licence, the following plans and documents. The updates are to take into account commitments made with respect to submissions received during the technical review of the Application, as well as final submissions and issues raised during the Public Hearing Process, where applicable. a. Core Receiving Environment Monitoring Program (CREMP); b. Whale Tail Water Quality and Flow Monitoring Plan, (Nov. 2016); c. Whale Tail Water Quality Monitoring and Management Plan for Dike Construction and Dewatering, (Nov. 2016); d. Whale Tail Waste Rock Management Plan, (Nov. 2016); e. Detailed diffuser design; f. Final design of the landfill	See INAC Meeting Notes, Sept. 14, 2017 Consistent with MB Licence Part D item 4.5 Final landfill design was in MB Part D item 2. We recommend it is covered here.
17-19	To be taken from MB Licence, Part B, Item 16-18
Part C. Conditions Applying to Security	
1. Subject to the conditions set out in Part C, Items 2 and 3, the Licensee shall, within thirty (30) days following the approval of this	

Licence by the Minister, furnish and maintain security with the Minister in the amount of \$13,142,963. As set out in the <i>Whale Tail Security Management Agreement</i>, May 17, 2016 Version, the amount secured under this Part constitutes 50% of the total security amount of \$26,285,926 that is required to reclaim the Undertaking and reflects that the other 50% of the global security amount will be held outside the Licence by the Kivalliq Inuit Association, in accordance with the terms and conditions of the <i>Whale Tail Security Management Agreement</i>.	Note that the full security amount of \$26,285,926 includes Whale Tail as well as Haul Road reclamation currently referenced in the Haul Road Licence. As per the Whale Tail Security Management Agreement, the other \$13,142,963 will be held by the Kivalliq Inuit Association.
2	To be taken from MB Licence, Part C, Item 2
3. The Licensee may, at any time, submit to the Board for consideration and approval, a request to change the amount of security outlined in Part C, Item 1. The submission shall include supporting evidence to justify the request, and the Minister and the Kivalliq Inuit Association will be consulted by the Board during the Board's consideration of this request.	
4-6	To be taken from MB Licence, Part C, Item 4-6
Part D: Conditions Applying to Construction and Operation	
1. The Licensee shall submit to the Board for approval, at least sixty (60) days prior to Construction, final design and Construction drawings accompanied, with a detailed report, for the following: a. Water works, including: Water Intake and causeway water control structures (dikes, berms, jetties, channels) and water crossings (culverts, bridges); b. Waste disposal facilities including: Contact Water Treatment Plant, Sewage Treatment Plant, Discharge Diffuser, Waste Rock Storage Facilities, Overburden stockpiles, and Landfill; and c. Whale Tail Bulk Fuel Storage Containment Facilities.	
2. The Licensee shall submit to the Board for approval, at least six (6) months prior to Construction of the Whale Tail Waste Rock Storage Facility, Saddle Dams, Cofferdams, diversion channel, or new dikes, final design and construction drawings accompanied by a detailed assessment report from the Independent Geotechnical Expert Review Panel.	

3.	The Licensee shall, within ninety (90) days of completion of construction of the Whale Tail Haul Road, submit to the Board for review, a Construction Summary Report including as-built plans and drawings signed and stamped by Engineer, and detailed explanation reflecting any deviations from construction drawings taking into account construction and field decisions and how they may affect the performance of engineered facilities.	
4.	The Licence shall submit to the Board for review, at least six (6) months prior to commissioning, final design and construction drawings of the Whale Tail Landfill.	
5.	The Licensee shall use fill material for construction only from approved sources that have been demonstrated by appropriate geochemical analyses to not produce Acid Rock Drainage and to be Non-Metal Leaching, and free of contaminants.	To be taken from MB Licence, Part D, Item 4
6-8		To be taken from MB Licence, Part D, Item 6-8
9.	All Effluent from the Whale Tail Sewage Treatment Plant shall be directed to the Whale Tail Attenuation Pond. Whale Tail Attenuation Pond water quality shall be monitored in accordance with the licence criteria and may be discharged via the Mammoth diffuser. Effluent from dewatering of Whale Tail Lake (North Basin) will be discharged to Whale Tail Lake (South Basin) and will be treated in the Water Treatment Plant, if it meets water quality criteria will and discharged to Mammoth Lake via the Mammoth Lake Diffuser.	
10.	The Licensee shall inspect daily, all construction activities for signs of erosion that may affect surface water flowing to Nemo Lake, Mammoth Lake, and Whale Tail Lake (South Basin).	
11 - 23.		To be taken from MB Licence, Part D, Items 12-23
Part E Conditions Applying to Water Use and Management		
1.	The Licensee shall obtain fresh Water for the Whale Tail Pit satellite deposit from Nemo Lake at Monitoring Station ST-WT-5 using the Nemo Lake Freshwater Water Intake for domestic camp use, construction and associated use or as otherwise approved by the Board in writing. The use of Waters from Nemo Lake, for all purposes, shall not exceed a total of one hundred seventy five thousand (174,708) cubic metres per year from the Licence approval date for construction, forty five thousand seven hundred and forty seven (45,747) cubic metres per year for dust suppression on the road, one hundred and ninety two hundred thousand (191,052) cubic metres per year for operation, notification of closure, followed by a maximum of ten million four hundred thirteen thousand, five hundred and fifty seven (10,413,557) cubic metres per year, from closure through to the Expiry of the Licence.	
The Licensee shall obtain fresh Water from Whale Tail Lake (North Basin) for mining and associated use or as otherwise approved by the Board in writing.		
The Licensee shall obtain fresh Water from an unnamed lake for the purpose of explosives mixing and associated use, or as otherwise approved by the Board in writing.		

The Licensee shall obtain water for use in dust suppression on the Haul Road from Pipe Dream Lake, Innuugayualik Lake, ponded water (against the road), and ponds and lakes proximal to the road as indicated in the Application. If the Licensee requires water in sufficient volume that the source water body may be drawn down the Licensee shall, at least thirty (30) days prior to commencement of use of water, submit to the Board for approval in writing, the following: volume required, hydrological overview of the water body, details of impacts, and proposed mitigation measures. Streams and water bodies not authorized under Part C, Item 1 cannot be used as a water source unless authorized and approved by the Board in writing.	
2. The Licensee shall obtain fresh water from Whale Tail Lake (South Basin) at Monitoring Station ST-WT-8 for re-flooding of Whale Tail Pit and associated use, or as otherwise approved by the Board in writing. The use of Waters from Whale Tail Lake shall not exceed a total of ten million four hundred thirteen thousand five hundred and seven (10,413,557) cubic metres per year starting on notification of closure through to the Expiry of the Licence.	
3	To be taken from MB Licence, Part E, Item 3
4. The Licensee shall submit a Whale Tail Water Management Report and Plan (November 2016) on an annual basis to the Board for review following the commencement of Operations. The Plan must include an updated Water Balance. The Water Management Plan shall include an action plan to be implemented if predicted re-flooded pit water quality indicates that treatment is necessary. The Licensee shall not breach dikes until the water quality in the re-flooded area meets CCME Water Quality Guidelines for the Protection of Aquatic Life, baseline concentrations, or appropriate site specific water quality objectives. Subject to the Board approval, if water quality parameters are above CCME Guidelines, a site specific risk assessment must be conducted to identify water quality objectives that are protective of the aquatic environment.	
5. The Licensee shall submit a Water Quality Model for pit re-flooding as part of the Water Management Plan which shall be re-calibrated as necessary and updated at a minimum of once every two (2) years following commencement of Operations. The results and implications of the predictive model shall be reported to the Board.	For consistency, this has been taken from MB Licence Part E Item 8; This meets INAC commitments outlined in Attachment A.
6-8	To be taken from MB Licence, Part D, Item 10-12
Part F Conditions Applying to Waste Disposal and Management 1.	To be taken from MB Licence, Part F, Item 1
2. The Licensee shall dispose of Sewage Effluent and direct all sludge removed from the Sewage Treatment Plant to the Waste Rock	

Storage Facility or the Tailings Storage Facility or to the Landfarm as a nutrient amendment in accordance with the Operation and Maintenance Manual: Sewage Treatment Plant, dated April 2013 as approved by the Board.

3. The Discharge of Effluent from the Whale Tail Attenuation Pond at Monitoring Station ST-WT-2 shall be directed to Mammoth Lake through the Mammoth Lake Diffuser and shall not exceed the following Effluent quality limits:

Constituent	Unit	Proposed Whale Tail Effluent Quality Criteria	
		Mean ^{a)}	Maximum ^{b)}
Conventional Constituents			
pH	-	6 - 9.5	6 - 9.5
Total suspended solids	mg/L	15	30
Total Dissolved Solids	mg/L	1,400	1,400
Nutrients			
Total Ammonia	mg-N/L	16.0	32.0
Total phosphorus	mg-P/L	0.3	0.6
Total Metals			
Aluminum	mg/L	0.5	1
Arsenic	mg/L	0.1	0.2
Cadmium	mg/L	0.002	0.004
Chromium	mg/L	0.02	0.04
Copper	mg/L	0.1	0.2
Iron	mg/L	1.0	2.0
Lead	mg/L	0.05	0.1
Mercury	mg/L	0.004	0.008
Nickel	mg/L	0.25	0.5
Zinc	mg/L	0.1	0.2
Other			
Total Petroleum Hydrocarbons	mg/L	3.0	6.0

Note: - = no units;

a) Mean = Maximum Monthly Mean Concentration;

b) Maximum = Maximum Concentration in a Grab Sample.

4. The Discharge of Effluent from a Final Discharge Point at Monitoring Program Stations ST-WT-2 shall be demonstrated to be non-Acutely Lethal under the following test and as stipulated in Schedule I of the Licence:

a. Acute Lethality of Effluents to Rainbow Trout (as per Environment Canada's Environmental Protection Series Biological Test

Taken from MB Licence, Part F, Item 5

Method EPS/1/RM/13 Second Edition December 2000 (with May 2007 amendments).									
5. All water collected prior to discharge from the Non-Contact Water diversions (Monitoring Stations ST-WT-7 and ST-WT-13) and Whale Tail Seepage (Monitoring Station ST-S-1-To TBD) during Operations shall not exceed the following Effluent quality limits:									
	<table><tr><th>Parameter</th><th>Maximum Average Concentration (mg/L)</th><th>Maximum Allowable Grab Sample Concentration (mg/L)</th></tr><tr><td>TSS</td><td>15</td><td>30</td></tr></table>	Parameter	Maximum Average Concentration (mg/L)	Maximum Allowable Grab Sample Concentration (mg/L)	TSS	15	30		
Parameter	Maximum Average Concentration (mg/L)	Maximum Allowable Grab Sample Concentration (mg/L)							
TSS	15	30							
6			To be taken from MB Licence, Part F, Item 7						
7. The Discharge of Effluent to land from fuel containment facilities at Whale Tail Bulk Fuel Storage Facility (ST-WT-12), shall not exceed the following Effluent quality limits			To be taken from MB Licence, Part F, Item 8 for limits						
8-12			To be taken from MB Licence, Part F, Item 9-13						
13. The Licensee is authorized to dispose of and contain all non-hazardous solid Wastes at the on-site Landfill in accordance with the approved Whale Tail Landfill Design and Management Plan, dated (November 2016), or as otherwise approved by the Board in writing.									
14-15			To be taken from MB Licence, Part F Item 16-17						
16. The Licensee shall dispose of waste rock in accordance with the approved Whale Tail Pit Waste Rock Management Plan (November 2016).									
17			To be taken from MB Licence, Part D, Item 20-21						
18 Licensee shall dispose of tailings and operate the Tailings Storage Facility in accordance with the approved Meadowbank Tailings Management Plan, dated March 2017, and Guide to the Management of Tailings Facilities (Mining Association of Canada September 1998). The tailings solids fraction shall be permanently contained within the Tailings Storage Facility.			Consistent with MB Part F Item 19						
Part G Conditions Applying to Modifications									
1-4			To be taken from MB Licence, Part G						
Part H Conditions Applying to Emergency Response and Contingency Planning									
1. The Licensee shall implement and maintain the Emergency Response Plan, dated November 2014, and the Spill Contingency Plan, dated March 2016, as approved by the Board. The Licensee shall comply with the Plan and any changes deemed significant									

	shall require the submission and subsequent approval of the Board in writing	
2-9		To be taken from MB Licence, Part H, Item 2-9
Part I Conditions Applying to General and Aquatic Effects Monitoring		
1		To be taken from MB Licence, Part I, Item 1
2.	The Licensee shall implement the Core Receiving Environmental Monitoring Program (CREMP), dated November 2015 and combined with Whale Tail Pit CREMP Addendum (January 2016), as approved by the Board. The updated CREMP shall include all comments provided during the technical review of Application.	
3.	The Licensee shall implement the: • Whale Tail Water Quality and Flow Monitoring Plan, dated November 2016, as approved by the Board • Mercury Monitoring Studies Plan, as approved by the Board	This satisfies commitment DFO, ECCC and HC
4-5		To be taken from MB Licence, Part I, Item 4-5
6.	The Licensee shall establish the locations for the proposed compliance and internal monitoring locations as they relate to existing drainage courses beneath the Whale Tail Waste Waste Rock Storage Facilities to ensure potential seep locations are adequately identified in accordance with the Groundwater Monitoring Plan, dated September 2016, as approved by the Board.	
7.		To be taken from MB Licence, Part I, Item 7
8.	The Licensee shall measure and record the following on a Monthly basis in cubic metres or as otherwise stated: (a) The volume of fresh Water obtained from Nemo Lake; (b) The volume of fresh Water obtained for purposes of explosives mixing; (c) The volume of Effluent and fresh Water transferred to the pit lakes; (d) The volume of fresh Water de-watered from Whale Tail Lake (North Basin); (e) The flow during periods of discharge from the Landfill, Waste Rock Storage Facilities, Waste Water Treatment Plant, Contact Water Collection System, and area Sumps collecting Contact Water (f) The volume of water transferred from the Whale Tail Bulk Fuel Storage Facility; (g) The volume of Sewage sludge removed from the Waste Water Treatment Plant (h) Tonnes of mineralized and un-mineralized waste rock store (i) The volume of fresh water obtained for dust suppressant along the Whale Tail Pit Haul Road	
9.	The Licensee shall undertake a geotechnical inspection, to be carried out annually by a Geotechnical Engineer, between the months of July and September. The inspection shall be conducted in accordance with the Canadian Dam Safety Guidelines where applicable and take into account all major earthworks, including:	

(a) Dikes ; (b) Coffor Dams; (c) Pit walls; (d) Waste Rock Storage Facilities; (e) Shoreline protection at the location of the Mammoth Lake Diffuser; (f) Geotechnical instrumentation; (g) Haul Road and site roads, in particular water course crossings; (h) Quarries; (i) Landfills; (j) Bulk Fuel Storage Facilities at the Whale Tail operations site; (k) Attenuation Ponds; and (l) Sumps.	To taken from MB Licence, Part I, Item 11-22
10-21	
22. The Licensee shall implement the Inspection and Maintenance procedures for the Haul Road in accordance with the approved Whale Tail Pit Haul Road Management Plan.	
23. The Board can modify the Monitoring Program for all phases of mining as set out in Schedule I without a public hearing. Requests for changes to the Program should be forwarded to the board in writing and should include justification for the changes.	Please refer to the water monitoring reduction framework.
PART J Conditions Applying to Abandonment, Reclamation and Closure 1. The Licensee shall implement the Whale Tail Interim Closure and Reclamation Plan submitted with the Application. 2-8 SCHEDULE A: Scope, Definitions and Enforcement As per existing Meadowbank Schedule A with changes below: Remove definition of • All Weather Private Access Road • Baker Lake Marshalling Facility • Batch Concrete Plant • Bay Goose Dike • Central Dike	To be taken from MB Licence, Part I, Item 1-8

• East Dewatering Dike (Second Portage Dewatering Dike) • East Dike Seepage Discharge Diffuser • Fresh Water Intake Barge • Incinerator • Construction and Operations Landfill • Landfill #2 (Demolition Landfill) • Landfarm • Marshalling Area Bulk Fuel Storage Facility • Meadowbank Mine Site Bulk Fuel Storage Facility • Meadowbank Security Management Agreement • Portage Attenuation Pond • Portage Waste Rock Storage Facility • Reclaim Pond • Rock Storage Facility - Interim Till Plug • Saddle Dam • South Camp Dike • Third Portage Lake Outfall Diffuser • Vault Attenuation Pond • Vault Dewatering Dike • Vault Haul Road Crossing • Vault Waste Rock Storage Facility • Wally Lake Outfall Diffuser • West Channel Dike • West Diversion Ditch Interception Sump	
Add definition of: • "Borrow Pits" - means sites for which materials, such as gravel or sand, are excavated for the purposes of constructing site infrastructure and facilities. • Haut Road • Marmoth Lake Diffuser • Marmoth Dike • Nemo Fresh Water Intake • Northeast Dike • Northeast Pond • Stormwater Storage Pond • Waste Rock Storage Facility Dike • Waste Rock Storage Facility Pond • Waste Water Treatment Facility • Whale Tail Security Management Agreement	

• Whale Tail Attenuation Pond • "Whale Tail Bulk Fuel Storage Facility" means the facility designed to provide fuel storage tank and all associated infrastructure as described in the Application document entitled "Whale Tail Bulk Fuel Storage Facility: Environmental Performance Monitoring Plan" dated November 2016; • Whale Tail Camp • Whale Tail Dike • Whale Tail Diversion Channel • "Whale Tail Landfill" means the facility to be constructed and operated until the end of the mine life and designed to contain non-salvageable, non-organic, non-hazardous, solid wastes from mining activities, as described in the in the Application document entitled "Whale Tail Landfill Design and Management Plan" November 2016; • Whale Tail Lake (North Basin) • Whale Tail Lake (South Basin) • Whale Tail Pit • Whale Tail Waste Rock Storage Facility	
Revise definition of • "Contact Water Collection System" - means the system of trenches, sumps and attenuation ponds designed to manage water that may be affected physically or chemically by mine pre-development activities as described in the Water Licence Application document entitled "Whale Tail Water Management Report and Plan" dated November 2016; • "Licence" means this Type "A" Water Licence 2AM-WTP---, issued by the Nunavut Water Board in accordance with the Act, to Agrico-Eagle Mines Ltd. (AEM) for the Whale Tail Pit and Haul Road Project; • Meadowbank Security Management Agreement • "Project" means the Whale Tail Pit and Haul Road Project as outlined in the Final Environmental Impact Statement and supplemental information submitted by Agrico Eagle Mines Limited to the Nunavut Impact Review Board (NIRB) as well as the Water Licence Application, Supporting Documents, and Technical Meeting Information Supplement documents. It comprises an open pit mine and haul road from the Meadowbank mine site; • "Quarry or Quarries" means the areas of surface excavation for extracting rock material for use as construction materials in the development of infrastructure and facilities • "Tailings Storage Facility" means the facility designed to permanently contain the solid fraction of the mill tailings, located at the Meadowbank Mine Site (Water Licence 2 AM-MEA1525) • "Water Supply Facilities" means the facilities designated for the supply of water at Nemo Lake; • "Waste Disposal Facilities" means all facilities designated for the disposal of waste including: the mine site Waste Water Treatment Plant, Landfill, and Waste Rock Storage Facility,	
Schedule B General Conditions Construction	
Water	To be taken from MB Licence, Schedule B, Item 1

- Monthly and annual volume of fresh water obtained from Nemo Lake. - Results of lake level monitoring conducted under the protocol developed as per Part D Item XX for Whale Tail Lake (South Basin). - Summary of reporting results for the Water Balance and Water Quality model and any calibrations as required	
1. <u>Waste</u> Geochemical monitoring results including: a. Operational acid/base accounting and paste pH test work used for waste rock designation (PAG and NPAG rock); b. As-built volumes of waste rock used in construction and sent to the Waste Rock Storage Facilities with estimated balance of acid generation to acid neutralization capacity in a given sample as well as metal toxicity; c. All monitoring data with respect to geochemical analyses on site and related to roads, quarries, and the Haul Road; d. Leaching observations and tests on pit slope and dike exposure; e. Any geochemical outcomes or observations that could imply or lead to environmental impact; f. Geochemical data associated with tailings solids, tailings supernatant, cyanide leach residue, and bleed from the cyanide destruction process including an interpretation of the data; and Results related to the road quarries and the Haul Road.	
2. Volumes of waste rock used in construction and placed in the Waste Rock Storage Facilities. Volumes of waste rock used in construction and volumes placed in the any waste rock storage facilities Volumes of ore stockpiled and overburden stored at Whale Tail Satellite deposit.	
3. An annual update on the remaining capacity of the Tailings Storage Facility. Summary of quantities and analysis of seepage and runoff monitoring from the Landfills, and Waste Rock Storage Facilities. A summary report of all general waste disposal activities including monthly <u>Soils, Modifications, Monitoring, Closure, Plans/Reports/Studies, General</u>	To be taken from MB Licence
Other 5. A summary of public consultation and participation with local organizations and the residents of the nearby communities, including a schedule of upcoming community events and information sessions. 6. Any other details on Water use or Waste Disposal requested by the Board by November 1st of the year being reported.	
<u>Schedule D Conditions Applying to Construction</u>	
	To be taken from MB Licence

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
			Volume (m ³)	Weekly during discharge
			Field Measurements	Weekly during discharge
			1	Weekly during discharge
ST-WT-2	Attenuation Pond, post-treatment; last point of control before discharge	Operations	1-MMER effluent characterization 3-MMER acute toxicity 3-MMER sublethal toxicity	Four times per calendar year Once per month during discharge Two times per calendar year
ST-WT-3	WRSF Pond prior to pumping to Attenuation	Operations	1	Four times per calendar year, when water is

Station	Description	Phase	Monitoring Parameters	Frequency
	Pond			present
		Closure	1	Four times per calendar year, when water is present
		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
		Closure	2	Monthly during open-water
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
ST-WT-8	Water intake from Whale Tail Lake	Closure	Volume (m ³)	Monthly
		Closure	1	Four times per calendar year
ST-WT-9	North Whale Tail Lake (as the basin fills and when it is connected to the south basin and prior to or when connected to the downstream environment)	Post-closure	2	Four times per calendar year, when water is present
		Closure	2	Four times per calendar year
ST-WT-10	Pit Lake (as the pit fills)	Post-closure	2	Four times per calendar year
		Operations	1	Four times per calendar year
ST-WT-11	Sewage treatment plant	Closure	1	Four times per calendar year
		Operations	4	Prior to discharge or transfer of effluent
ST-WT-12	Secondary containment at Whale Tail Bulk Fuel Storage Facility	Closure	4	Prior to discharge or transfer of effluent
		Operations	4	Prior to discharge or transfer of effluent

Station	Description	Phase	Monitoring Parameters	Frequency
ST-WT-13	Lake A45	Operations	3	Flow, Monthly during open-water
		Closure	3	Flow, Monthly during open-water until water levels have returned to baseline levels
ST-WT-14	Lake A16 outlet	Construction	2	Monthly during open-water
		Operations	2	Monthly during open-water
ST-WT-15	Lake A15	Closure	2	Monthly during open-water
		Construction	2	Monthly during open-water
		Operations	2	Monthly during open-water
		Closure	2	Monthly during open-water

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. 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
2	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).

Attachment A:

Agnico Eagle is committed to address INAC Commitments as per INAC meeting memo dated September 14, 2017 (referred to in Part E Item 6 and 8), through the following:

1. Conduct detailed hydrodynamic modelling of the WRSF contact water mixing into Mammoth Lake post-closure. Modelling will include scenarios of cover contamination with north wall ultramafic rock previously considered (Golder 2017) and for active layer depth ranges observed at Meadowbank WRSF 2. Update the Waste Rock Storage Facility Management Plan (EIS Volume 8, Appendix 8-A.1) details of the steps involved in waste rock management planning to segregate and store waste rock in its correct location outlined in Golder (2017) adapted to Whale Tail open pit and WRSF and additional sampling and monitoring plans 3. Updated Monitoring and Management Plans will be submitted 60 days prior to operations 4. Finalize the security estimate to take into account potential for long-term treatment and establish a mechanism to progressively reduce the security to be approved by relevant parties]

INAC FC-3 - The Proponent shall conduct a hydrogeological characterization study plan to validate hydraulic gradients and verify the potential for arsenic diffusion from submerged Whale Tail pit walls. The results of the hydrogeological studies shall be provided for review on an annual basis

2. If warranted, the pit design shall be revised and/or appropriate mitigation measures should be developed to incorporate the results from the additional studies. The Proponent shall report the results of the hydrogeological characterization and their implications to the pit design and relevant management plans for review prior to pit construction.

3. Should results of modelling suggest that arsenic diffusion may result in elevated concentrations in the flooded pit post-closure, the Proponent shall perform detailed hydrodynamic modelling of the flooded pit lake prior to closure to evaluate meromixis and flooded pit lake water quality. The results of modelling shall be provided for review prior to pit closure

To address ECCC- 5 Agnico Eagle has made the following commitment (referred to in Part B Item 14)

Monitoring will continue into post-closure and modelled predictions will be updated using geochemistry and water quality monitoring data obtained during construction and operation. Additional site-specific data continues to be collected to validate the water quality model inputs, including the following:

- Thermistor data from existing and new instrumentation to be installed as the waste rock pile is built,
- Waste rock chemical composition through sampling and analysis of mined waste rock to be placed in the WRSF for disposal and in the area to be used for cover,

- Water quality monitoring information collected at the locations and frequency described in the Water Quality and Flow Monitoring Plan (EIS Volume 8, Appendix 8.B-3) and the Core Receiving Environment Program (EIS Volume 8, Appendix 8-E.2).
- Laboratory-scale leaching tests and larger field-scale rock leaching tests to document waste rock geochemical behavior in time and under site specific conditions

To address ECCC- 8 Agnico Eagle has made the following commitment (referred to in Part B Item 13):

Conduct a separate mercury monitoring studies program (water, sediment, and biota of Whale Tail Lake South Basin), that will be conducted alongside the Core Receiving Environment Monitoring Program (CREMP) and Fisheries and Offsetting Monitoring Plan, with results compared to model predictions. In consultation with ECCC, Kivik, DFO and BL HTO, and consistent with the CREMP, we will establish a site specific triggers and thresholds. Details of the monitoring program will be provided 60 days prior to Construction.