

Table 1: Concordance Table with Project Certificate (NIRB 2006) and Type-A Water License Guidelines (NWB 2007)

Reference #	Condition/Commitment/Information Request	MMC Type-A Water License Application
NIRB Condition #8	Cumberland shall, within 30 days of re-opening of the camp, re-sample existing groundwater monitoring wells and combining the sampling data with existing rounds of groundwater sampling data, re-evaluate the salinity, major ion concentrations, and dissolved metal load of groundwater flowing to the mine pits and incorporate the results into the water quality monitoring and treatment program. At the time samples are taken Cumberland shall also assess the condition of existing groundwater monitoring wells and replace any defective wells. Cumberland shall continue to undertake semi-annual groundwater samples and re-evaluate the groundwater quality after each sample collection. Cumberland shall report the results of each re-evaluation to NIRB's Monitoring Officer, INAC and EC, and incorporate the results of the additional data into the water license application to the NWB	Sec 2.3.3.7 (p45) Golder 2007e, m, o (Doc. 499, 516, 317)
NIRB Condition #9	Cumberland shall provide detailed plans for water treatment for the tailings (reclaim pond) discharge, and on a contingency basis for the attenuation pond discharge(s) and for the pits, including estimates of treatment efficiency for each parameter of concern and the description of pH adjustments in the water license application to the NWB.	Sec 3.3.2 (p75), 3.3.7 (p79), 4.3.2 (p88) Golder 2007l (Doc. 467)
NIRB Condition #10	Cumberland shall provide details of the camp sewage treatment, including the type of treatment to be used and the expected treatment capabilities, in the water license application to the NWB	Sec 3.3.6 (p79), 4.3.2 (p88), Appendix B AEM 2007a* Golder 2007k (Doc. 355)
NIRB Condition #11	Cumberland shall provide details regarding the effluent outfall configuration, including discharge characteristics, the likely behaviour of the plume(s), and bathymetric information for Wally Lake in the water license application to the NWB.	Sec 2.3.3.3 (p33), 3.2.10 (p70), 3.2.11 (p70) AEM 2007a* Golder 2007g, h, p* (Doc. 412, 497, 536*)
NIRB Condition #12	Cumberland shall provide details of a comprehensive water use and water management plan for the Baker Lake marshalling area, including monitoring of the discharge from the marshalling area sump, in the water license application to the NWB.	Included with Type-B Water License Application submission for the Baker Lake Marshalling Area
NIRB Condition #13	Cumberland shall not permit the water discharged into Wally Lake and Third Portage Lake to exceed receiving environment discharge criteria established by the NWB or as otherwise required by law.	Sec 3.2.12 (p73), 4.3.3 (p93), 5 (p106), 6.8 (p115), 6.9 (p116) MMC 2007a (Doc. 500, s15, p15-1) MMC 2007c, h (Doc.No. 450, 511) Golder 2007g, h, l, m, n (Doc. 412, 497, 516, 515)
NIRB Condition #14	Cumberland shall not remove dewatering dikes until the quality of water contained within them is of sufficient quality to meet receiving environment discharge criteria established by the NWB or as otherwise required by law.	Sec 3.2.12 (p73), 4.3.3 (p93), 4.9 (p101), 5 (p106), 6.8 (p115) MMC 2007a, h (Doc. 300, 511) Golder 2007m, n (Doc. 516, 515)
NIRB Condition #15	Cumberland shall within two (2) years of commencing operations re-evaluate the characterization of mine waste materials, including the Vault area, for acid generating potential, metal leaching and non metal constituents to confirm FEIS predictions, and re-evaluate rock disposal practices by conducting systematic sampling of the waste rock and tailing in order to incorporate preventive and control measures into the Waste Management Plan to enhance tailing management during operations and closure. The results of the re-evaluations shall be provided to the NWB and NIRB's Monitoring Officer.	Sec 4.1 (p81), 6.2 (p109) MMC 2007d (Doc. 425)
NIRB Condition #17	Cumberland shall undertake a detailed technical review of all dike and pitwall designs at the final design stage, and submit the final dike designs for water depths of greater than 10 metres for an expert analysis and Cumberland shall include the detailed technical review and the expert analysis in the application to the NWB for a water license.	Sec 3.2.1 (p59), 3.2.2 (p61) Golder 2007a, b, c, d (Doc. 420, 492, 342, 449) Morgenstern 2007 Stacey Mining Geotechnical Ltd. 2007
NIRB Condition #18	Cumberland shall commit to a pro-active tailings management strategy through active monitoring, inspection, and mitigation. The tailings management strategy will include the review and evaluation of any future changes to the rate of global warming, compliance with regulatory changes, and the ongoing review and evaluation of relevant technology developments, and will respond to studies conducted during the mine operation.	Sec 2.3.4 (p47), 4.2 (p84), 6.3 (p113) MMC 2007a, c, d (Doc. 500, 450, 425) Golder 2007a (Doc. 420) Cumberland 2007 (Doc. 383)
NIRB Condition #19	Cumberland shall provide for a minimum of two (2) metres cover of tailings at closure, and shall install thermistor cables, temperature loggers, and core sampling technology as required to monitor tailing freezeback efficiency. Cumberland shall report to NIRB's Monitoring Officer for the annual reporting of freezeback effectiveness.	Sec 4.2 (p84), 6.1 (p108), 6.3 (p113) MMC 2007a, h (Doc. 500, 511) Golder 2007a (Doc. 420)
NIRB Condition #20	Prior to construction, Cumberland shall identify mitigation measures that can be taken if groundwater monitoring around the tailings facility demonstrates that contamination from tailings has occurred through the fault. Upon drawdown of the North arm of Second Portage Lake, Cumberland shall conduct further tests to assess the permeability of any faults and provide the results to regulators. If doubt remains Cumberland shall seal the fault and conduct further permeability testing and monitoring.	Sec 2.3.4.2 (p49), 2.3.4.3 (p49), 4.2.3 (p86), 6.3 (p113) MMC 2007a, b (Doc. 500, 432) Golder 2007f (Doc. 375)
NIRB Condition #24	Cumberland shall identify an area and design for a landfill for disposal of operational and closure non-salvageable materials, including a list of any non-salvageable materials, and a procedural manual for preparation of location and placements of these materials, and incorporate the design into the final Waste Management Plan as instructed by the NWB	Sec 3.3.4(p76), 4.6 (p95), 6.5 (p114) Golder 2007i, q* (Doc. 458, 562*)

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NIRB Condition #25	Cumberland shall manage and control waste in a manner that reduces or eliminates the attraction to carnivores and/or raptors. Cumberland shall employ legal deterrents to carnivores and/or raptors at all landfill and waste storage areas. The deterrents are to be developed taking into consideration Traditional Knowledge and in consultation with the HTO, EC and INAC and incorporated into the final Waste Management Plan prior to filing the Plan with the NWB.	Sec 3.3.4 (p76), 4.2.1 (p85), 4.6 (p95) Golder 2007i, q* (Doc. 458, 562*)
NIRB Condition #27	Cumberland shall ensure that the areas used to store fuel or hazardous materials are contained using safe, environmentally protective methods based on practical, best engineering practices.	Sec 4.8 (p98), 6.7 (p115) MMC 2007e, f, g (Doc. 457, 483, 482)
NIRB Condition #31	Cumberland shall provide detailed stream crossing design criteria, including consideration of the DFO Operational Statement for Clear-span bridges for all water crossings identified to have fish presence, final crossing designs, site specific mitigation procedures, an effects monitoring program, and a maintenance and closure plan for all water course crossings, to the DFO and the NWB for review and approval.	Sec 3.2.8 (p66) Cumberland 2005, 2006 Stream crossing details along AWPAP provided under separate water license application
NIRB Condition #47	Cumberland shall develop an adaptive approach to managing the water flow from Third Portage Lake, including the consideration of alternatives to deepening the easternmost channel; submission of detailed design of the easternmost channel modifications; a monitoring program for channel erosion, verification of the maintenance of water levels in Third Portage Lake, and the success of fish habitat enhancements; and contingencies in the event of channel failure, for approval by the DFO.	Sec 3.2.6 (p64)
NIRB Condition #59	Cumberland shall, in consultation with Elders and the HTOs, design and implement means of deterring caribou from the tailing ponds, such as temporary ribbon placement or Inuksuk, with such designs not to include the use of fencing.	Sec 4.2.1 (p85)
NIRB Condition #72	On-site incinerators shall comply with Canadian Council of Ministers of Environment and Canada-Wide Standards for dioxins and furan emissions, and Canada-wide Standards for mercury emissions, and Cumberland shall conduct annual stack testing to demonstrate that the on-site incinerators are operating in compliance with these standards. The results of stack testing shall be contained in an annual monitoring report submitted to GN, EC, and NIRB's Monitoring Officer.	Sec. 3.3.3 (pp76), 4.5 (p94), 6.4 (p114)
NIRB Condition #76	Cumberland shall develop an "Early Warning Monitoring Program" along the east boundary of the Project's local study area (mine and road) including the location where Third Portage Lake flows into Tehek Lake. The "Early Warning Monitoring Program" shall discuss how the communities of Baker Lake and Chesterfield Inlet will be actively involved and shall be submitted to NIRB's Monitoring Officer for review prior to Project construction. If adverse effects from the project to any VEC are detected along this boundary, then Cumberland shall notify the NIRB's Monitoring Officer for determination as to whether and to what extent additional monitoring is required.	Sec 6.8 (p115), 6.9 (p116) Cumberland 2005, 2006
NIRB Condition #78 and #79	78. Cumberland shall file a complete Closure and Reclamation Plan developed to comply with INAC's policy for full cost of restoration and any related NWB requirements such that the Inuit and taxpayers are not liable for any cost associated with the cleanup, modification, decommission, or abandonment. 79. In addition to the NWB's requirements, the final Closure and Reclamation Plan shall require Cumberland to: 1. Ensure that mine facilities and infrastructure are abandoned in such a manner that: a. The Project site is physically stable and any requirements for long term maintenance and monitoring are minimized; b. Threats to public safety and wildlife are eliminated; and c. Affected areas are returned to the original undisturbed conditions to the fullest extent possible. 2. Prevent continuing impacts from contaminants and wastes on the environment including those associated with acid rock drainage; 3. Remove all hazardous materials and waste and as much salvageable waste as practicable from the Project area; and 4. Enter into written arrangements with its abandonment and reclamation contractors to ensure all site debris is cleaned up off the lands, including wind-blown debris.	Sec 4.9 (p101) MMC 2007h (Doc. 511)
NIRB Condition #85	Cumberland shall develop a detailed blasting program to minimize the effects of blasting on fish and fish habitat, water quality, and wildlife and terrestrial VECs.	Sec. 4.4 (p93) Cumberland 2005, 2006

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NIRB Condition #26, #37, #38, #39, #42, #44, #75, #77, and #82 (emergency preparedness and spill response)	<p>26. Cumberland shall ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including wind-blown debris.</p> <p>37. Cumberland will contract only Transport Canada certified shippers to carry cargo for the Project, and will require shippers transporting cargo through Chesterfield Inlet to carry the most up-to-date emergency response/spill handling equipment as recommended and accepted by the Government of Canada with the crew trained to deploy the equipment, including practice drills deploying spill equipment in remote locations within the Inlet.</p> <p>38. Cumberland shall make every reasonable effort to minimize the number of ships and barges transporting cargo for the Project, and require shippers transporting cargo for the Project through Chesterfield Inlet to be operated in accordance with safe shipping management policies, including using Canadian Hydrographic Service published detailed marine charts and nautical instructions, and be fitted with modern state-of-the-art navigation equipment.</p> <p>39. Within three (3) months of contracting with a shipping company to transport cargo to the Project through Chesterfield Inlet and prior to the commencement of shipping, Cumberland shall advertise and hold a community information meeting in Chesterfield Inlet to fully discuss the shipping program for the Project. Thereafter, Cumberland shall annually advertise and hold a community information meeting in Chesterfield Inlet to report on the Project and to hear from Chesterfield Inlet residents and respond to concerns. A consultation report shall be submitted to NIRB's Monitoring Officer within one month of the meeting.</p> <p>42. Cumberland shall ensure all fuel transfer operations take place in accordance with the <i>Arctic Waters Pollution Prevention Act</i> and relevant oil transfer guidelines.</p> <p>44. Within one (1) month of contracting with a shipper, Cumberland shall submit a comprehensive Spill Contingency and Emergency Response Plan to regulatory authorities.</p> <p>75. Cumberland shall provide a list of possible accidents and malfunctions for the Project. It must consider the all-weather road, shipping spills, cyanide and other hazardous materials spills, and pitwall/dikes/dam failures, and include and assessment of the accident risk and mitigation developed in consultation with Elders and potentially affected communities.</p> <p>77. Cumberland shall as soon as possible, review and coordinate its Emergency Response Plan with the emergency response plans of the Hamlets of Baker Lake and Chesterfield Inlet.</p> <p>82. Cumberland shall monitor the ingress/egress of ship cargo at Baker Lake and report any accidents or spills immediately to the regulatory agencies as required by law and to NIRB's Monitoring Officer annually.</p>	<p>Sec 4.8 (p98), 6.7 (p115) MMC 2007e, f, g (Doc. 457, 483, 482)</p> <p>Marine aspects included with Type-B Water License Application submission for the Baker Lake Marshalling Area</p>
NIRB Commitment #1	Commit to re-run model for sensitivity analysis on total dissolved solids concentrations in pit waters	Sec 2.3.3.7 (p45) Golder 2007e, m, o (Doc. 499, 516, 317)
NIRB Commitment #2	Commit to resample groundwater monitoring wells in summer 2006	Sec 2.3.3.7 (p45) Golder 2007o (Doc. 317)
NIRB Commitment #4	Commit to identifying mitigation measures if groundwater contamination (tailings) has occurred during operation. Include what triggers would be used in this evaluation	Sec 2.3.4.2 (p49), 2.3.4.3 (p49), 4.2.3 (p86), 6.3 (p113) MMC 2007a, b (Doc. 500, 432) Golder 2007f (Doc. 275)
NIRB Commitment #5	Commit to assessing permeability of fault upon drawdown of North arm of Second Portage Lake and commit to establishing trigger levels and mitigation strategies	Sec 2.3.4.2 (p49), 2.3.4.3 (p49), 4.2.3 (p86), 6.3 (p113) MMC 2007a, b (Doc. 500, 432)
NIRB Commitment #43	Re-do WQ modeling with less conservative assumptions: no rock wetting factors, no permafrost, use 1-kg IV rather than 100-kg IV rates for poor-end; used 100-kg for best estimate; higher temperature of soil to air by 4.4°C; long-term WQ w global warming; minimal improvement to WQ from UM cover (not automatic transition)	Sec 2.3.3.7 (p45), 5 (p106) Golder 2007m (Doc No. 516)
NIRB Commitment #44	Additional field and lab analysis of WR to segregated PAG and non-PAG rock	Sec 4.1 (p81), 6.2 (p109) MMC 2007d (Doc. 425)
NIRB Commitment #45	Diffuser design and impact of effluent on receiving environments	Sec 2.3.3.3 (p33), 3.2.10 (p70), 3.2.11 (p70) Golder 2007g, h, p* (Doc. 412, 497, 536*) Cumberland 2005, 2006
NIRB Commitment #46	Adaptive management of (placement of) mine waste material considering monitoring results obtained during operation	Sec 4.1 (p81), 6.2 (p109) MMC 2007d (Doc. 425)
NIRB Commitment #48	Detailed plans for water treatment	Sec 3.3.2 (p75), 3.3.7 (p79), 4.3.2 (p88) Golder 2007g, h, l, n (Doc. 412, 497, 467, 515) Cumberland 2005, 2006

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Reference #	Condition/Commitment/Information Request	MMC Type-A Water License Application
NIRB Commitment #49	Evaluation of viability of proposed in-situ and active treatment system and subsequent effects of effluent to receiving environment (near and far-field)	Sec 3.3.2 (p75), 3.3.6 (p79), 4.3.2.2 (p89), 4.3.2.3 (p91) Golder 2007g, h, l (Doc. 412, 497, 467)
NIRB Commitment #50	Re-evaluate (salinity) model using 2003 and 2004 groundwater data	Sec 2.3.3.7 (p45) Golder 2007e, m, o (Doc. 499, 516, 317)
NIRB Commitment #60	Continued geochemical characterization (laboratory and field tests) of UM, PAG and uncertain PAG rock and input into adaptive waste management plan	Sec 4.1 (p81), 6.2 (p109) MMC 2007d (Doc. 425)
NIRB Commitment #61	Lake bed sediment samples to be collected and analyzed for geotechnical properties	Sec 2.3.4 (p47), 4.2.1 (p85) Golder 2007a (Doc. 420)
NIRB Commitment #62	Review tailings and waste management alternatives including climate change, conduct gap analysis to determine deficiencies required for engineering and construction of dikes	Sec 3.2.1 (p59), 3.2.2 (p61), 4.1 (p81), 4.2 (p84) MMC 2007a (Doc. 500) Golder 2007a, b, c (Doc. 420, 492, 342) Cumberland 2007 (Doc. 383)
NIRB Commitment #63	Consolidate Tailings management alternatives assessment into one document	Sec 4.2 (p84) Cumberland 2007 (Doc. 383)
NIRB Commitment #64	Perform a technical review of dewatering dikes	Sec 3.2.1 (p59), 3.2.2 (p61) Golder 2007a, b, c, d (Doc. 420, 492, 342, 449) Morgenstern 2007 Stacey Mining Geotechnical Ltd. 2007
NIRB Commitment #65	Carry out coupled seepage-thermal and solute transport modeling including Second Portage Lake fault zone	Sec 2.3.3.7 (p45), 4.2 (p84) MMC 2007a, b (Doc. 500, 432) Golder 2007a(Doc. 420)
NIRB Commitment #70	Prepare and implement Incinerator Waste Management Plan	Sec. 3.3.3 (p76), 4.5 (p94), 6.4 (p114)
NIRB Commitment #73	Conduct annual incinerator stack emission monitoring for mercury, dioxins and furans and report results to Environment Canada and Government of Nunavut	Sec. 3.3.3 (p76), 4.5 (p94), 6.4 (p114)
NIRB Commitment #74	Provide annual report of the quantity and type of waste generated at the mine site distinguishing landfilled, recycled and incinerated streams	Sec. 3.3.3 (p76), 4.5 (p94), 6.4 (p114)
NIRB Commitment #75	Reassess the selection of incinerators and justify the decision in regards to best available economically feasible technologies (BAEFT)	Sec. 3.3.3 (p76), 4.5 (p94), 6.4 (p114)
NIRB Commitment #86	Management approach to waste rock piles and quarry sites	Sec 4.1 (p81), 6.2 (p109) MMC 2007d (Doc. 425)

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Reference #	Condition/Commitment/Information Request	MMC Type-A Water License Application
NIRB Commitments #6, #29, #33 - #36, #38, #41 & #42 (emergency preparedness and spill response)	6. Compile a technical memo that addresses "Accidents and Malfunctions" resulting from catastrophic events	Sec 4.8 (p98), 6.7 (p115) MMC 2007e, f, g (Doc. 457, 483, 482) Marine aspects included with Type-B Water License Application submission for the Baker Lake Marshalling Area
	29. Engage in discussions with representatives of the Canadian Coast Guard to reassess where response and spill kits are currently located within Nunavut, and not put the onus on TC for placing community spill kits in the Hamlets of Chesterfield Inlet and Baker Lake	
	33. Only a Transport Canada Certified Shipper will be hired to carry Cumberland's supplies	
	34. The shipping company will have spill equipment on board with crew trained to deploy the equipment	
	35. The Coast Guard will be notified as soon as a spill has occurred and, if required, will provide further spill support	
	36. Once the shipping company is hired, the shipper and Cumberland will return to Chesterfield Inlet for a one-day workshop to more fully discuss the successful companies' procedures, type of ships, spill equipment, etc.	
	38. Cumberland will request that the shipping company contracted to carry fuel for the project carry out practice drills deploying their spill equipment in various locations within the Inlet	
	41. Cumberland and the Shipper will carry shipping insurance	
	42. Cumberland will conduct annual community consultation visits in Chesterfield to report on the project and related shipping activities and to hear any concerns/comments from Chesterfield Inlet residents	
NWB Section 2.1 (i)	Design rational; design requirements, design criteria, design parameters, design standards/analysis/method	Sec 2.3 (22), 3 (p57), 4 (p81), 6 (p108) AEM 2007a*, b* MMC 2007a (Doc. 500) Golder 2007a, b, c, d, g, h, i, j, k, l, p*, o, q*, r* (Doc., 420, 492, 342, 449, 412, 497, 458, 498, 355, 467, 536*, 317, 562*, 564*) Additional engineering design aspects provided with Type B Water License Application submission for the Baker Lake Marshalling Area and All-Weather Private Access Road
NWB Section 2.1 (ii)	Design assumptions and the limitations associated with such design assumptions	
NWB Section 2.1 (iii)	The inclusion of clear, definable engineering qualifiers with all design drawings and reports	
NWB Section 2.1 (iv)	Site specific data and analysis to support the design and management decisions made	
NWB Section 2.1 (v)	Materials that appropriately delineate the particulars of a design or plan	
NWB Section 2.1 (vi)	Construction methods and procedures in how infrastructure will be put in place on-site	
NWB Section 2.1 (vii)	Instrumentation and monitoring requirements of the proposed designs and plans	
NWB Section 2.1 (viii)	Details on how facilities, structures, and plans will be operated, maintained and implemented	
NWB Section 2.1 (ix)	Details on chemicals or other hazardous or potentially hazardous materials that will be used and will be in contact with or may impact water either directly or indirectly	Sec 4.8 (p98) MMC 2007e, f, g (Doc. 457, 483, 482)
NWB Section 2.1 (x)	Mitigation measures that will be implemented when working in close proximity to water	Sec 3.1 (p58), 3.2.1 (p59), 3.2.5 (p64), 3.2.8 (p66), 3.2.10 (p70), 3.2.11 (p70), 3.2.12 (p73), 4.3.1 (p88), 4.3.3 (p93), 4.4 (93), 6.9 (p116) Cumberland 2005, 2006 MMC 2007a, e, f, g (Doc. 500, 457, 483, 482) Golder 2007a, b, c (Doc., 420, 492, 342) Additional measures provided with Type B Water License Application submission for the Baker Lake Marshalling Area and All-Weather Private Access Road
NWB Section 2.1 (xi)	Appropriate referencing of other documents and annexed materials	MMC 2007 (Doc. 485, Doc. 502 and Doc 528)

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NWB Section 2.2 (i)	earthwork infrastructure	Sec 3.2.1 (p59), 3.2.2 (p61), 3.2.3 (p62), 3.2.4 (p64), 3.2.12 (p73), 4.3.1 (p88), 4.2 (p84), 4.3.3 (p93), 4.4 (p93), 4.9 (p101), 6.1 (p108), 6.8 (p115), 6.9 (p116) Cumberland 2005, 2006 MMC 2007a, b, c, d, h (Doc. 500, 432, 450, 425, 511) Golder 2007a, b, c, f (Doc., 420, 492, 342, 375) Morgenstern 2007
NWB Section 2.2 (ii)	water intake facilities and how water will be withdrawn	Sec 3.1 (p58), Appendix A MMC 2007a (Doc. 500)
NWB Section 2.2 (iii)	interim and permanent waste rock facilities	Sec 3.3.1 (p74), 4.1 (p81), 4.9 (p101), 6.1 (p108), 6.2 (p109), 6.8 (p115) MMC 2007a, c, d, h (Doc. 500, 450, 425, 511)
NWB Section 2.2 (iv)	tailings containment area	Sec 3.2.2 (p61), 3.3.2 (p75), 4.2 (p84), 4.9 (p101), 6.1 (p108), 6.3 (p113)6.8 (p115) Cumberland 2007 MMC 2007a, b, c, d, h (Doc. 500, 432, 450, 425, 511) Golder 2007a, f (Doc., 420, 375)
NWB Section 2.2 (v)	landfills	Sec 3.3.5 (p77), 4.7 (p95), 4.9 (p101), 6.5 (p114), 6.8 (p115) MMC 2007a, c, h (Doc. 500, 450, 511) Golder 2007i, q* (Doc. 458, 562*)
NWB Section 2.2 (vi)	landfarms	Sec 3.3.4 (p76), 4.6 (p98), 4.9 (p101), 6.6 (p114) Golder 2007j, r* (Doc. 498, 564*)
NWB Section 2.2 (vii)	fuel and chemical storage facilities	Sec 4.8 (p98), 4.9 (p101), 6.7 (p115), 6.8 (p115) MMC 2007c, e, f, g (Doc. 450, 457, 483, 482)
NWB Section 2.2 (viii)	explosives management areas and facilities	Sec 4.8 (p98), 4.9 (p101), 6.7 (p115), 6.8 (p115) AEM 2007b* MMC 2007c, e, f, g (Doc. 450, 457, 483, 482)
NWB Section 2.2 (ix)	construction materials (i.e. quarried rock)	Details on quarries provided with Type B Water License Application submission for the All-Weather Private Access Road
NWB Section 2.2 (x)	hazardous waste facilities	Sec 4.8 (p98), 4.9 (p101), 6.7 (p115), 6.8 (p115) MMC 2007c, e, f, g (Doc. 450, 457, 483, 482)
NWB Section 2.2 (xi)	site water management facilities	Sec 3.2.6 (p64), 3.2.7 (p65), 3.2.8 (p66), 3.2.9 (p68), 4.9 (p101), 6.8 (p115) MMC 2007a, b, c, h (Doc. 500, 432, 450, 511) Golder 2007f (Doc. 375)

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NWB Section 2.2 (xii)	wastewater treatment facilities	Sec 3.2.10 (p70), 3.2.11 (p70), 3.3.6 (p79), 3.3.7 (p79), 4.3.2 (p88), 4.9 (p101), 5 (p106), 6.8 (p115), 6.9 (p116) AEM 2007a* Cumberland 2005 MMC 2007a, h (Doc. 500, 511) Golder 2007g, h, k, l, m, n, p* (Doc. 412, 497, 355, 467, 516, 515, 536*)
NWB Section 2.2 (xiii)	ore stockpiles and waste rock piles	Sec 4.9 (p101), 6.8 (p115) AEM 2007c* MMC 2007c (Doc. 450)
NWB Section 2.2 (xiv)	dewatering programs	Sec 3.2.5 (p64), 4.3.1 (p88), 4.4 (p93), 6.9 (p116) Cumberland 2005, 2006 MMC 2007a (Doc. 500)
NWB Section 2.2 (xvi)	road, airstrip and ice road construction	Airstrip Details on the road provided with Type B Water License Application submission for the All-Weather Private Access Road
NWB Section 2.2 (xvii)	water use	Sec 3.1 (p58) MMC 2007a (Doc. 500)
NWB Section 2.2 (xviii)	macroscopic site surface water and groundwater management	Sec 2.3.3 (p26), 3.2.7 (p65), 3.2.8 (p66), 3.2.9 (p68), 4.9 (p101), 6.8 (p115) MMC 2007a, b, c, h (Doc. 500, 432, 450, 511) Golder 2007e, f, o (Doc. 499, 375, 317)
NWB Section 2.2 (xix)	spill contingency and emergency response	Sec 4.8.3 (p100), 4.8.4 (p101) MMC 2007f, g (Doc. 483, 482)
NWB Section 2.2 (xx)	interim and final abandonment and reclamation of the mine site	Sec 4.1.3 (p84), 4.2.3 (p86), 4.3.3 (p93), 4.6.3 (p98), 4.9 (p101) MMC 2007a, h (Doc. 500, 511) Golder 2007i, r* (Doc. 458, 564*)
NWB Section 2.2 (xxi)	aquatic effects monitoring	Sec 4.4 (p93), 6.9 (p116) Cumberland 2005, 2006 Additional information provided with Type B Water License Application submission for the Baker Lake Facilities and All-Weather Private Access Road
NWB Section 2.2 (xxii)	general monitoring	Sec 4.1 (p81), 4.2 (p84), 4.3 (p87), 6 (p108) MMC 2007a, b, c, d, h (Doc. 500, 432, 450, 425, 511) Golder 2007a, b, c, i, q*, r* (Doc. 420, 492, 342, 458, 562*, 564*) Additional information provided with Type B Water License Application submission for the Baker Lake Facilities and All-Weather Private Access Road

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NWB Section 2.2 (xxiii)	quality assurance and quality control	Sec 6 (p108) Cumberland 2005 MMC 2007c, d (Doc. 450, 425) Golder 2007r* (Doc. 564*) Additional information provided with Type B Water License Application submission for the Baker Lake Facilities and All-Weather Private Access Road
NWB Section 2.2 (xxiv)	geotechnical and structural monitoring	Sec 4.1 (p81), 4.2 (p84), 6.1 (p108), 6.2 (p109), 6.3 (p113) MMC 2007a, c (Doc. 500, 432) Golder 2007a, b, c (Doc. 420, 492, 342)
NWB Section 2.2 (xxvi)	metal leaching / acid rock drainage management	Sec 2.3.5 (p51) 4.1 (p81), 4.2 (p84), 4.9 (p101), 6.1 (p108), 6.2 (p109), 6.3 (p113) MMC 2007a, c, d, h (Doc. 500, 450, 425, 511)
NWB Section 2.2 (xxvii)	permafrost protection	Sec 2.3.2 (p23), 4.1 (p81), 4.2 (p84), 4.9 (p101), 6.1 (p108), 6.2 (p109), 6.3 (p113) MMC 2007h (Doc. 500, 511) Golder 2007a (Doc. 420)
NWB Section 3.1(i)	Results of the assessment of the permeability of any faults beneath the northwest arm of Second Portage Lake (i.e. the tailings impoundment area)	Sec 2.3.4.2 (p49), 2.3.4.3 (p49), 4.2.3 (p86), 6.3 (p113) MMC 2007a, b (Doc. 500, 432)
NWB Section 3.1(ii)	Mitigation measures that can be undertaken if groundwater monitoring around the Second Portage tailings facility demonstrates that contamination from tailings has occurred through the fault	Sec 2.3.4.2 (p49), 2.3.4.3 (p49), 4.2.3 (p86), 6.3 (p113) MMC 2007a, b (Doc. 500, 432) Golder 2007f (Doc. 375)
NWB Section 3.1(iii)	Results of the re-sampling of the existing groundwater monitoring wells, which was to occur as soon as possible upon reopening the camp in 2007	Sec 2.3.3.7 (p45) Golder 2007o (Doc. 317)
NWB Section 3.1(iv)	Revised estimates of the quality of the groundwater that will flow into the open pits, using existing groundwater data from both rounds of sampling (i.e. 2003 and 2004)	Sec 2.3.3.7 (p45) Golder 2007e, m, o (Doc. 499, 516, 317)
NWB Section 3.1(v)	Revised site water quality model using the updated estimates of the quality of groundwater flowing to the pits, and additional groundwater quality data collected on site. The revised water quality model should be used to assess the impacts of pit water discharges on the environment and to the develop mitigation measures for disposing of pit water of poor quality	Sec 2.3.3.7 (p45), 5 (p106) MMC 2007a (Doc. 500) Golder 2007e, m, o (Doc. 499, 516, 317)
NWB Section 3.1(vi)	Detailed contingency plans for the treatment of turbid water during dewatering activities and/or increased suspended solids during operations (i.e. rewatering)	Sec 3.2.1 (p59), 3.2.5 (p64), 3.2.12 (p73), 4.3.1 (p88), 4.4 (p93), 6.8 (pp115), 6.9 (p116) MMC 2007a (Doc. 500) Cumberland 2005, 2006
NWB Section 3.1(vii)	Detailed information regarding the disposal of lake bottom sediments	Sec 2.3.4 (p47), 3.2.1 (p59), 4.2.1 (p85) MMC 2007a (Doc. 500) Golder 2007a (Doc. 420)
NWB Section 3.1(viii)	Detailed water treatment plans for discharges from the Tailings Impoundment Area, as well as the Vault Pit attenuation pond (on a contingency basis). Water treatment plans should include estimates of treatment efficiency for each parameter of concern and a description of pH adjustment methods	Sec 3.3.2 (p75), 3.3.7 (p79), 4.3.2 (p88) Golder 2007l (Doc. 467)
NWB Section 3.1(ix)	Details regarding treatment of camp sewage, including the type of treatment system and the expected treatment capabilities	Sec 3.3.6 (p79), 4.3.2 (p88) AEM 2007a* Golder 2007k (Doc. 355)

*support document submitted to NWB as supplemental information to initial Application submission

Reference #	Condition/Commitment/Information Request		MMC Type-A Water License Application
NWB Section 3.1(x)	The NIRB Project Certificate requires the establishment of “receiving environment discharge criteria” for discharges into Wally Lake and Third Portage Lake. The water license application should clearly outline the proposed discharge criteria, how the criteria were developed, and how these criteria will be used to prevent ecological effects in the receiving environment as a result of reconnecting the pit lakes to the watershed (especially in regards to contaminants, major ions and nutrients)		Sec 3.2.10 (p70), 3.2.11 (p70), 5 (p106) Golder 2007g, h, n (Doc. 412, 497, 515)
NWB Section 3.1(xi)	Details regarding the effluent outfall configuration		Sec 3.2.10 (p70), 3.2.11 (p70) Golder 2007g, h, p* (Doc. 412, 497, 536*)
NWB Section 3.1(xii)	Predictions for the likely behaviour of the discharge plume		Sec 3.2.10 (p70), 3.2.11 (p70) Golder 2007g, h (Doc. 412, 497)
NWB Section 3.1(xiii)	Bathymetric information for Wally Lake		Sec 2.3.3.3 (p33) Golder 2007g (Doc. 412)
NWB Section 3.1(xiv)	Detailed treatment plans for the treatment of effluent from attenuation pond and/or reclaim pond prior to transfer to the Goose Pit		Sec 3.3.2 (p75), 3.3.7 (p79), 4.3.2 (p88) MMC 2007a (Doc. 500) Golder 2007I (Doc. 467)
NWB Section 3.1(xv)	Discussion of the consequences of long-term stratification in the pit lakes and associated contingency plans		Sec 3.2.12 (p73)
NWB Section 3.1(xvi)	Monitoring plan for the Baker Lake collection sump, including parameters to be sampled, sampling frequency and sampling locations.		Included with Type-B Water License Application submission for the Baker Lake Marshalling Area
NWB Section 3.2	<div><div>i.</div><div>ii.</div><div>iii.</div><div>iv.</div><div>v.</div><div>vi.</div></div>	<div><div>Detailed Spill Contingency Plan for the mine site, the all-weather road, and the marine components. The Spill Plan should include, but not be limited to, the following information:</div><div>Identification, description and evaluation of the potential impacts of all project-related accidents and malfunctions (i.e. types, sources, threat-risk assessment, worst-case scenarios, etc.) that may occur during each phase of the project, including, but not limited to:<div><div>a. Spills of petroleum hydrocarbons, hazardous materials, and other contaminants of concern onto land, ice, and into marine waters (i.e. ocean/sea/salt waters), freshwaters, ground waters, and potable water supplies;</div><div>b. Explosions;</div><div>c. Fires;</div><div>d. Transportation accidents involving aircraft, marine vessels and barges, and land based motor vehicles, including any hazardous material cargoes for all modes.</div></div></div><div>Description of emergency response plans and procedures for the accidents, and malfunctions, including: the level of preparedness; safety; response capacity; and technological capability and any deficiencies or shortcomings in this regard, and indicate how the latter will be addressed. Plans should incorporate sufficient detail to understand and assess emergency preparedness and response capability; ensure emergency response plans will work; and, determine how and when plans will work.</div><div>Identification of communities, organizations, agencies, boards, and governmental parties (and their regulatory requirements) involved in preparing programs and identify opportunities for partnerships, coordination, and participation</div><div>Explanation of how the Applicant will ensure project contractors meet the Applicants' due diligence standards with respect to oil and hazardous material spill prevention, preparedness, response, and restoration.</div><div>A timetable for when the Applicant will file the appropriate plans and procedures as required by the governmental parties.</div></div>	<div>Sec 4.8 (p98), 6.7 (p115) MMC 2007e, f, g (Doc. 457, 483, 482)</div> <div>Marine aspects included with Type-B Water License Application submission for the Baker Lake Marshalling Area</div>
NWB Section 3.3(i)(ii)	<div><div>i.</div><div>ii.</div></div>	<div><div>Details regarding the timing of the removal of dewatering dikes and the implications of this action on water quality; and</div><div>Detailed information regarding the method used to remove/breach the dewater dykes, including details of any mitigation measures for any adverse impacts.</div></div>	<div>Sec 3.2.12 (p73), 4.3.3 (p93), 4.9 (p101), 5 (p106), 6.9 (p116) MMC 2007a, h (Doc. 500, 511) Golder 2007m (Doc. 516) Cumberland 2005, 2006</div>
NWB Section Sec 3.4	<div><div>i.</div><div>ii.</div><div>iii.</div></div>	<div><div>Monitoring plan for incinerator emissions (including, but not limited to, stack testing and annual reporting);</div><div>Detailed waste management plan; and</div><div>Justification regarding the selection of incinerators in regards to the use of best available economically feasible technologies.</div></div>	<div>Sec. 3.3.3 (p76), 4.5 (p94), 6.4 (p114)</div>

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Reference #	Condition/Commitment/Information Request	MMC Type-A Water License Application
NWB Section Sec 3.5	<p>Generally, to mitigate potential impacts to fish and fish habitat, any works or undertakings associated with the Meadowbank Project that are in or near waters frequented by fish should: Comply with the DFO legislation/policies/guidelines/Operational Statements as outlined below or noted within Section 3 of the Preliminary Guidelines for the Applicant.</p> <ul style="list-style-type: none">i. Be done in manner that prevents the deposit of any materials in waters frequented by fish,ii. Comply with the DFO Freshwater Intake End-of-Pipe Fish Screen Guideline (March, 1995), to minimize impingement/entrainment of fish,iii. Comply with the Guidelines for the Use of Explosives in or Near Canadian Fisheries Waters (Wright and Hopky, 1998), whenever possibleiv. Ensure that hydrostatic testing be done in manner that prevents the transfer of aquatic species into water bodies where they do not currently frequent,v. Ensure that groundwater is managed in a manner that prevents any seepage of hazardous waste materials into waters frequented by fish.vi. Site specific environmental data considerations for works in or near waters that are frequented by fish should include, but not be limited to:vii. Description of proposed works or undertakings (culvert crossing, bridge, intake, infilling pipeline, etc.)viii. Construction Plans:<ul style="list-style-type: none">a. proposed start and completion datesb. methods of constructionc. detailed site description (incl. diagrams, photos)d. details of materials and machinery to be usede. a description of types and quantities of explosives to be used, if anyf. operation and maintenance plansix. Fish and Fish Habitat Present:<ul style="list-style-type: none">a. detailed area description (including Photographic record),b. description of fish habitat (including river or lake bottom substrates such as silt, sand, or cobble),c. presence of sensitive habitats (spawning, migration corridors etc.),d. description of aquatic and riparian vegetatione. fish community and lifestage present,f. depth and watercourse width,g. max/min water flows, currents, tides,h. turbidity and sediment loads (total suspended solids)i. sport, commercial, subsistence fishery presentx. Potential Environmental Effects and Mitigation Measures to Protect Fish Habitat<ul style="list-style-type: none">a. potential effects on fish or fish habitat,b. area (in m²) to be impacted,c. measures to avoid sensitive periods and habitat areas (i.e., spawning beds, migration corridors),d. measures to avoid physical impacts on habitat,e. measures to maintain flows and fish passage,f. measures to avoid sedimentation,xi. Compensation/Monitoring:<ul style="list-style-type: none">a. Detailed habitat no-net-loss plan and site restoration plan,b. on site construction monitoring plan,c. post construction monitoring	Sec 4.4 (p93), 6.9 (p116) Cumberland 2005, 2006
NWB Section Sec 3.6	The Applicant will also be responsible to provide formal applications to the Navigable Waters Protection Program (NWPP) for any works	Sec 1.2 (p9)

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Reference #	Condition/Commitment/Information Request	MMC Type-A Water License Application
NWB Section Sec 3.7	The annual report should include, but not be limited to, reporting of: i. Water related monitoring ii. Comparison of water quality and quantity monitoring data to the forecasted information in the summary table attached to the application; iii. Implementation of the conditions in the NIRB project certificate related to NWB mandate; iv. Project changes under Adaptive Management; and v. Any actions took to resolve directions from the Inspector.	Sec 4 (p81), 6 (p108)
NWB Section Sec 3.8	The Applicant is to provide an estimate of security as defined under Section 76 of <i>NWNSRTA</i> and Section 12 of the NWT Water Regulations. The Applicant must inform the NWB if a compensation agreement is in place as required under Section 58 otherwise an estimate of compensation as suggested under Section 60 of the Act for the Board's decision is required.	Sec 4.9 (p101) MMC 2007h (Doc. 511)

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