

Meadowbank Gold Project  
Doc. No. 502 Ver. 0  
Date: 31-August-07

# TYPE A WATER LICENSE APPLICATION DOCUMENTS

| Document Title                                                                                                | Document Number | Document Issue | Issue Date    |            |
|---------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------|------------|
| Meadowbank Gold Project - 2006 Baseline Ground Water Quality                                                  | 317             | Rev. 1         | 18-Aug-07     | G20070     |
| Detailed Design of Dewatering Dikes Meadowbank Gold Project Volume 1                                          | 342             | Ver. 0         | 13-Mar-07     | G2007c     |
| Detailed Design of Dewatering Dikes Meadowbank Gold Project Volume 2                                          | 342             | Ver. 0         | 13-Mar-07     | G2007c     |
| Detailed Design of Dewatering Dikes Meadowbank Gold Project Volume 3                                          | 342             | Ver. 0         | 13-Mar-07     | G2007c     |
| Sewage Treatment System to be used at Meadowbank Gold Project, Nunavut                                        | 355             | Rev. 1         | 13-Aug-07     | G2007K     |
| Mitigative Measures for Potential Seepage from Tailings Facility                                              | 375             | Rev. 1         | 23-Aug-07     | G2007f     |
| Meadowbank Gold Project - Integrated Report on Evaluation of Tailings Management Alternatives                 | 383             | Ver. 0         | 02-Feb-07     | C2007      |
| Conceptual Design of the Effluent Outfall Diffuser for Wally Lake                                             | 412             | Ver. 0         | 25-Jul-07     | G2007g     |
| Detailed Design of Central Dike Meadowbank Gold Project Volume 1                                              | 420             | Ver. 0         | 16-Mar-07     | G2007a     |
| Detailed Design of Central Dike Meadowbank Gold Project Volume 2                                              | 420             | Ver. 0         | 16-Mar-07     | G2007a     |
| Detailed Design of Central Dike Meadowbank Gold Project Volume 3                                              | 420             | Ver. 0         | 16-Mar-07     | G2007a     |
| Meadowbank Gold Project Operational ARD/ML Sampling and Testing Plan                                          | 425             | Ver. 0         | 23-Aug-07     | MMC2007d   |
| Meadowbank Gold Project Fault Testing and Monitoring Plan                                                     | 432             | Ver. 0         | 23-Aug-07     | MMC2007b   |
| Pit Slope Design Criteria for the Portage and Goose Island Deposits Meadowbank Gold Project Volume 1          | 449             | Ver. 0         | 05-Apr-07     | G2007d     |
| Pit Slope Design Criteria for the Portage and Goose Island Deposits Meadowbank Gold Project Volume 2          | 449             | Ver. 0         | 05-Apr-07     | G2007d     |
| Meadowbank Gold Project Water Quality and Flow Monitoring Plan                                                | 450             | Ver. 0         | 27-Aug-07     | MMC2007c   |
| Meadowbank Gold Project Hazardous Materials Management Plan                                                   | 457             | Ver. 0         | 24-Aug-07     | MMC2007e   |
| Landfill Design and Management Plan Meadowbank Gold Project                                                   | 458             | Ver. 0         | 27-Aug-07     | G2007i     |
| Proposed Water Treatment Methods Meadowbank Gold Project                                                      | 467             | Ver. 0         | 28-Aug-07     | G2007L     |
| Meadowbank Gold Project Emergency Response Plan                                                               | 482             | Ver. 0         | 24-Aug-07     | MMC2007g   |
| Meadowbank Gold Project Spill Contingency Plan                                                                | 483             | Ver. 0         | 27-Aug-07     | MMC2007f   |
| Meadowbank Gold Project Type A Water License Application                                                      | 485             | Ver. 0         | 28-Aug-07     |            |
| Report Addendum Detailed Design of Dewatering Dikes Meadowbank Gold Project                                   | 492             | Ver. 0         | 12-Jul-07     | G2007b     |
| Assessment of Effluent Dilution Potential for the Third Portage Lake Diffuser                                 | 497             | Ver. 0         | 22-Aug-07     | G2007h     |
| Landfarm Option Analysis Meadowbank Gold Project                                                              | 498             | Ver. 0         | 23-Aug-07     | G2007j     |
| Updated Predictions of Brackish Water Upwelling in Open Pits with Mining Rate of 8500 tpd, Meadowbank Project | 499             | Ver. 0         | 27-Jul-07     | G2007e     |
| Meadowbank Gold Project Mine Waste & Water Management                                                         | 500             | Ver. 0         | 24-Aug-07     | MMC2007a   |
| Meadowbank Gold Project Preliminary Closure & Reclamation Plan                                                | 511             | Ver. 0         | 28-Aug-07     | MMC2007h   |
| Proposed Discharge Water Quality Criteria for the Portage and Vault Attenuation Ponds                         | 515             | Ver. 0         | 27-Aug-07     | G2007n     |
| Water Quality Predictions Meadowbank Gold Project                                                             | 516             | Ver. 0         | 28-Aug-07     | G2007m     |
| Meadowbank Gold Project Aquatic Effects Management Program                                                    |                 |                | October 2005  | C2005      |
| CV's for Signing Professionals                                                                                |                 |                | 31-Aug-07     |            |
| Cumberland Meadowbank NNLP - Habitat Compensation Addendum                                                    |                 |                | 07-Feb-07     | AzimUTH200 |
| Meadowbank Gold Project No-Net-Loss Plan (NNLP)                                                               |                 |                | November 2006 | C2006      |
| Independent Review of Pit Slope Design Criteria for the Portage and Goose Island Deposits                     |                 |                | 14-Apr-07     | SMGL2007   |
| Expert Review of Meadowbank Tailings and Dewatering Dike Designs - Draft                                      |                 |                | 30-Mar-07     | MORG2007   |

DOC 485

Table 1.1: Concordance Table with Project Certificate (NIRB 2006) and Type-A Water License Guidelines (NWB 2007)

| Reference #        | 004 DEC 30/06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Condition/Commitment/Information Request | MMC Type-A Water License Application                                                                                                      |                                |
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| 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<br>Golder 2007a, m, o                                                                                                         | 499<br>516<br>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, 3.3.7, 4.3.2<br>Golder 2007i                                                                                                   | 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, 4.3.2<br>Golder 2007k                                                                                                          | 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, 3.2.10, 3.2.11<br>Golder 2007g, h                                                                                            | 412, 497                       |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          | MMC 2007c, h, i, m, n<br>Golder 2007g, h, i, m, n                                                                                         | 450, 511<br>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, 4.3.3, 4.9, 5, 6.8<br>MMC 2007a, h<br>Golder 2007m, n                                                                         | 500 511<br>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, 6.2<br>MMC 2007d                                                                                                                 | 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, 3.2.2<br>Golder 2007a, b, c, d<br>Morgenstern 2007<br>Stacey Mining Geotechnical Ltd. 2007                                     | 420 492 342 449                |
| 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, 4.2, 6.3<br>MMC 2007a, c<br>Golder 2007a<br>Cumberland 2007                                                                    | 500 450<br>420 383             |
| 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, 6.1, 6.3<br>MMC 2007a, h<br>Golder 2007a                                                                                         | 500 511<br>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, 2.3.4.3, 4.2.3, 6.3<br>MMC 2007a, b<br>Golder 2007i                                                                          | 500 432<br>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, 4.6, 6.5<br>Golder 2007i                                                                                                       | 458                            |
| NIRB Condition #25 | Cumberland shall manage and control waste in a manner that reduces or eliminates the attraction to caribou and/or raptors. Cumberland shall employ legal deterrents to caribou 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, 4.2.1, 4.6<br>Golder 2007i                                                                                                     | 458                            |
| 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, 6.7<br>MMC 2007e, f, g                                                                                                           | 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<br>Cumberland 2005, 2006<br>Stream crossing details along ANWPAP provided under separate water license application<br>Sec 3.2.6 | ---                            |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |                                                                                                                                           |                                |
| NIRB               | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          | Sec 4.2.1                                                                                                                                 |                                |

| Reference #                                                                                                                    | Condition/Commitment/Information Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MMC Type-A Water License Application                                                                         |
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| Condition #59<br>NIRB                                                                                                          | designs not to include the use of fencing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sec 3.3.3, 4.5, 6.4                                                                                          |
| Condition #72                                                                                                                  | On-site incinerators shall comply with Canadian Council of Ministers of Environment 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 6.8, 6.9<br>Cumberland 2005, 2008                                                                        |
| 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 Tenek 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 4.9<br>MMC 2007h                                                                                         |
| Condition #78<br>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.<br>79. In addition to the NWB's requirements, the final Closure and Reclamation Plan shall require Cumberland to:<br>1. Ensure that mine facilities and infrastructure are abandoned in such a manner that:<br>a. The Project site is physically stable and any requirements for long term maintenance and monitoring are minimized;<br>b. Threats to public safety and wildlife are eliminated; and<br>c. Affected areas are returned to the original undisturbed conditions to the fullest extent possible.<br>2. Prevent continuing impacts from contaminants and wastes on the environment including those associated with acid rock drainage;<br>3. Remove all hazardous materials and waste and as much salvageable waste as practicable from the Project area; and<br>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.<br>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<br>Cumberland 2005, 2008<br>Sec 4.8, 6.7<br>MMC 2007e, 1 g                                           |
| Condition #85<br>NIRB<br>Condition #26, #37, #38, #39, #42, #44, #75, #77, and #82 (emergency preparedness and spill response) | 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.<br>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.<br>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.<br>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.<br>42. Cumberland shall ensure all fuel transfer operations take place in accordance with the Arctic Waters Pollution Prevention Act and relevant oil transfer guidelines.<br>44. Within one (1) month of contracting with a shipper, Cumberland shall submit a comprehensive Spill Contingency and Emergency Response Plan to regulatory authorities.<br>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.<br>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.<br>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.<br>Commit to re-run model for sensitivity analysis on total dissolved solids concentrations in pit waters | Marine aspects included with Type-B Water License Application submission for the Baker Lake Marshalling Area |
| NIRB<br>Commitment #1                                                                                                          | Commit to re-run model for sensitivity analysis on total dissolved solids concentrations in pit waters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sec 2.3.3.7<br>Golder 2007e, m, o                                                                            |
| NIRB<br>Commitment #2                                                                                                          | Commit to resample groundwater monitoring wells in summer 2008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sec 2.3.3.7<br>Golder 2007o                                                                                  |
| NIRB<br>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, 2.3.4.3, 4.2.3, 6.3<br>MMC 2007a, b<br>Golder 2007i                                             |
| NIRB<br>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, 2.3.4.3, 4.2.3, 6.3<br>MMC 2007a, b                                                             |

| Reference #         | Conditions/Commitment/Information Request                                                                                                                                                                                                                                                                                        | MMC Type-A Water License Application                                                                  |
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| 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, 5<br>Golder 2007m                                                                        |
| NIRB Commitment #44 | Additional field and lab analysis of WR to segregated PAG and non-PAG rock                                                                                                                                                                                                                                                       | Sec 4.1, 6.2<br>MMC 2007d                                                                             |
| NIRB Commitment #45 | Diffuser design and impact of effluent on receiving environments                                                                                                                                                                                                                                                                 | Sec 2.3.3.3, 3.2.10, 3.2.11<br>Golder 2007g, h<br>Cumberland 2005, 2006                               |
| NIRB Commitment #46 | Adaptive management of (placement of) mine waste material considering monitoring results obtained during operation                                                                                                                                                                                                               | Sec 4.1, 6.2<br>MMC 2007d                                                                             |
| NIRB Commitment #48 | Detailed plans for water treatment                                                                                                                                                                                                                                                                                               | Sec 3.3.2, 3.3.7, 4.3.2<br>Golder 2007g, h, i, n<br>Cumberland 2005, 2006                             |
| 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, 3.3.6, 4.3.2.2, 4.3.2.3<br>Golder 2007g, h, i                                              |
| NIRB Commitment #50 | Re-evaluate (salinity) model using 2003 and 2004 groundwater data                                                                                                                                                                                                                                                                | Sec 2.3.3.7<br>Golder 2007e, m, o                                                                     |
| NIRB Commitment #50 | Continued geochemical characterization (laboratory and field tests) of UM, PAG and uncertain PAG rock and input into adaptive waste management plan                                                                                                                                                                              | Sec 4.1, 6.2<br>MMC 2007d                                                                             |
| NIRB Commitment #60 | Lake bed sediment samples to be collected and analyzed for geotechnical properties                                                                                                                                                                                                                                               | Sec 2.3.4, 4.2.1<br>Golder 2007a                                                                      |
| NIRB Commitment #61 |                                                                                                                                                                                                                                                                                                                                  |                                                                                                       |
| 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, 3.2.2, 4.1, 4.2<br>MMC 2007a<br>Golder 2007a, b, c<br>Cumberland 2007                      |
| NIRB Commitment #63 | Consolidate Tailings management alternatives assessment into one document                                                                                                                                                                                                                                                        | Sec 4.2<br>Cumberland 2007                                                                            |
| NIRB Commitment #64 | Perform a technical review of dewatering dikes                                                                                                                                                                                                                                                                                   | Sec 3.2.1, 3.2.2<br>Golder 2007a, b, c, d<br>Morgenstern 2007<br>Slacey Mining Geotechnical Ltd. 2007 |
| NIRB Commitment #65 | Carry out coupled seepage-thermal and solute transport modelling including Second Portage Lake fault zone                                                                                                                                                                                                                        | Sec 2.3.3.7, 4.2<br>MMC 2007a, b<br>Golder 2007a                                                      |
| NIRB Commitment #70 | Prepare and implement Incinerator Waste Management Plan                                                                                                                                                                                                                                                                          | Sec 3.3.3, 4.5, 6.4                                                                                   |
| 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, 4.5, 6.4                                                                                   |
| 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, 4.5, 6.4                                                                                   |
| 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, 4.5, 6.4                                                                                   |
| NIRB Commitment     | Management approach to waste rock piles and quarry sites                                                                                                                                                                                                                                                                         | Sec 4.1, 6.2<br>MMC 2007d                                                                             |

| Reference #                                                                                     | Condition/Commitment/Information Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MMC Type-A Water License Application                                                                                                                     |                        |
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| #86                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                        |
| NIRB Commitments #6, #29, #33 - #36, #38, #41 & #42 (emergency preparedness and spill response) | <p>6. Compile a technical memo that addresses "Accidents and Malfunctions" resulting from catastrophic events</p> <p>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</p> <p>33. Only a Transport Canada Certified Shipper will be hired to carry Cumberland's supplies</p> <p>34. The shipping company will have spill equipment on board with crew trained to deploy the equipment</p> <p>35. The Coast Guard will be notified as soon as a spill has occurred and, if required, will provide further spill support</p> <p>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.</p> <p>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</p> <p>41. Cumberland and the Shipper will carry shipping insurance</p> <p>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</p> | <p>Sec 4.8, 6.7<br/>MMC 2007e, f, g<br/>Marine aspects included with Type-B Water License Application submission for the Baker Lake Marshalling Area</p> | 457,483, 482           |
| 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, 2.3.4.3, 4.2.3, 6.3<br>MMC 2007a, b                                                                                                         | 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, 2.3.4.3, 4.2.3, 6.3<br>MMC 2007a, b<br>Golder 2007f                                                                                         | 500, 432<br>317        |
| 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<br>Golder 2007g                                                                                                                              | 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<br>Golder 2007e, m, o                                                                                                                        | 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 develop mitigation measures for disposing of pit water of poor quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sec 2.3.3.7, 5<br>MMC 2007a<br>Golder 2007e, m, o                                                                                                        | 500<br>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, 3.2.5, 3.2.12, 4.3.1, 4.4, 6.8, 6.9<br>MMC 2007a<br>Cumberland 2005, 2008<br>Sec 2.3.4, 3.2.1, 4.2.1<br>MMC 2007e<br>Golder 2007a             | 500<br>—<br>500<br>430 |
| NWB Section 3.1(vii)                                                                            | Detailed information regarding the disposal of lake bottom sediments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sec 3.3.2, 3.3.7, 4.3.2<br>Golder 2007f                                                                                                                  | 467                    |
| 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 3.3.6, 4.3.2<br>Golder 2007k                                                                                                                         | 355                    |
| NWB Section 3.1(ix)                                                                             | Details regarding treatment of camp sewage, including the type of treatment system and the expected treatment capabilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sec 3.2.10, 3.2.11, 5<br>Golder 2007g, h, n                                                                                                              | 412, 497, 515          |
| 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 recommending the pit lakes to the watershed (especially in regards to contaminants, major ions and nutrients)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sec 3.2.10, 3.2.11<br>Golder 2007g, h                                                                                                                    | 412, 497               |
| NWB Section 3.1(xi)                                                                             | Details regarding the effluent outfall configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sec 3.2.10, 3.2.11<br>Golder 2007g, h                                                                                                                    | 412, 497               |
| NWB Section 3.1(xii)                                                                            | Predictions for the likely behaviour of the discharge plume                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sec 2.3.3.3<br>Golder 2007g                                                                                                                              | 412                    |
| NWB Section 3.1(xiii)                                                                           | Bathymetric information for Wally Lake                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sec 3.3.2, 3.3.7, 4.3.2<br>MMC 2007a                                                                                                                     | 500                    |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                          |                        |

| Reference #           | Condition/Commitment/Information Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MMC Type-A Water License Application                                                                                                                                                                                                                                |
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| NWB Section 3.1(xv)   | Discussion of the consequences of long-term stratification in the pit lakes and associated contingency plans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Goldier 2007i                                                                                                                                                                                                                                                       |
| NWB Section 3.1(xvi)  | Monitoring plan for the Baker Lake collection sump, including parameters to be sampled, sampling frequency and sampling locations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sec 3.2.12                                                                                                                                                                                                                                                          |
| NWB Section 3.2       | <p>I. 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:</p> <p>ii. 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:</p> <p>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;</p> <p>b. Explosions;</p> <p>c. Fires;</p> <p>d. Transportation accidents involving aircraft, marine vessels and barges, and land based motor vehicles, including any hazardous material cargoes for all modes.</p> <p>iii. 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.</p> <p>iv. 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</p> <p>v. 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.</p> <p>vi. A timetable for when the Applicant will file the appropriate plans and procedures as required by the governmental parties.</p> | <p>Included with Type-B Water License Application submission for the Baker Lake Marshalling Area</p> <p>Sec 4.8, 6.7</p> <p>MMC 2007e, f, g</p> <p>Marine aspects included with Type-B Water License Application submission for the Baker Lake Marshalling Area</p> |
| NWB Section 3.3(i)(i) | <p>i. Details regarding the timing of the removal of dewatering dikes and the implications of this action on water quality; and</p> <p>ii. Detailed information regarding the method used to remove/breach the dewater dikes, including details of any mitigation measures for any adverse impacts.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Sec 3.2.12, 4.3.3, 4.9, 5, 6.9</p> <p>MMC 2007a, h</p> <p>Goldier 2007m</p> <p>Cumberland 2005, 2008</p>                                                                                                                                                         |
| NWB Section 3.4       | <p>i. Monitoring plan for incinerator emissions (including, but not limited to, stack testing and annual reporting);</p> <p>ii. Detailed waste management plan; and</p> <p>iii. Justification regarding the selection of incinerators in regards to the use of best available economically feasible technologies.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Sec 3.3.3, 4.5, 6.4</p>                                                                                                                                                                                                                                          |
| NWB Section 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> <p>i. Be done in manner that prevents the deposit of any materials in waters frequented by fish,</p> <p>ii. Comply with the DFO Freshwater Intake End-of-Pipe Fish Screen Guideline (March, 1995), to minimize impingement/entrainment of fish,</p> <p>iii. Comply with the Guidelines for the Use of Explosives in or Near Canadian Fisheries Waters (Wright and Hopky, 1998), whenever possible</p> <p>iv. Ensure that hydrostatic testing be done in manner that prevents the transfer of aquatic species into water bodies where they do not currently frequent,</p> <p>v. Ensure that groundwater is managed in a manner that prevents any seepage of hazardous waste materials into waters frequented by fish.</p> <p>vi. Site specific environmental data considerations for works in or near waters that are frequented by fish should include, but not be limited to:</p> <p>vii. Description of proposed works or undertakings (culvert crossing, bridge, intake, infilling pipeline, etc.)</p> <p>viii. Construction Plans:</p> <p>a. proposed start and completion dates</p> <p>b. methods of construction</p> <p>c. detailed site description (incl. diagrams, photos)</p> <p>d. details of materials and machinery to be used</p> <p>e. a description of types and quantities of explosives to be used, if any</p> <p>f. operation and maintenance plans</p> <p>ix. Fish and Fish Habitat Present:</p>                                                                                                                                                                                                                                                                                           | <p>Sec 4.4, 6.9</p> <p>Cumberland 2005, 2006</p>                                                                                                                                                                                                                    |

457,483,402

500,511  
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| Reference #            | Condition/Commitment/Information Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MMC Type-A Water License Application |
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|                        | <p>a. detailed area description (including Photographic record);</p> <p>b. description of fish habitat (including river or lake bottom substrates such as silt, sand, or cobble);</p> <p>c. presence of sensitive habitats (spawning, migration corridors etc.);</p> <p>d. description of aquatic and riparian vegetation</p> <p>e. fish community and lifestage present;</p> <p>f. depth and watercourse width;</p> <p>g. max/min water flows, currents, tides;</p> <p>h. turbidity and sediment loads (total suspended solids)</p> <p>i. sport, commercial, subsistence fishery present</p> <p>x. Potential Environmental Effects and Mitigation Measures to Protect Fish Habitat</p> <p>a. potential effects on fish or fish habitat;</p> <p>b. area (in m<sup>2</sup>) to be impacted;</p> <p>c. measures to avoid sensitive periods and habitat areas (i.e., spawning beds, migration corridors);</p> <p>d. measures to avoid physical impacts on habitat;</p> <p>e. measures to maintain flows and fish passage;</p> <p>f. measures to avoid sedimentation;</p> <p>xi. Compensation/Monitoring:</p> <p>a. Detailed habitat no-net-loss plan and site restoration plan;</p> <p>b. on site construction monitoring plan;</p> <p>c. post construction monitoring</p> |                                      |
| NWB Section<br>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                              |
| NWB Section<br>Sec 3.7 | <p>The annual report should include, but not be limited to, reporting of:</p> <p>i. Water related monitoring</p> <p>ii. Comparison of water quality and quantity monitoring data to the forecasted information in the summary table attached to the application;</p> <p>iii. Implementation of the conditions in the NIRB project certificate related to NWB mandate;</p> <p>iv. Project changes under Adaptive Management; and</p> <p>v. Any actions took to resolve directions from the Inspector.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sec 4, 6                             |
| NWB Section<br>Sec 3.8 | The Applicant is to provide an estimate of security as defined under Section 78 of MNMSRTA 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<br>MMC 2007h                 |