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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Agnico-Eagle Mines Ltd. **Licence No: _____**
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: **Rachel Lee Gould** Tel: **(604) 608-2557** Fax: **(604) 608-2559**
   E-mail: **rgould@agnico-eagle.com**

2. Project Manager: Martin Bergeron Tel: (604**) 608-2557** Fax: **(604) 608-2559**
   E-mail: **mbergeron@agnico-eagle.com**

3. Does the applicant hold the necessary property rights? **Yes – land use licenses from the Kivalliq Inuit Association, Department of Indian and Northern Affairs and the Government of Nunavut**

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? **No**
   If so, please provide letter of authorization.

5. Duration of the Project
   - **X** One year or less Start and completion dates: **March 15, 2008 – August 1, 2008**
   - Multi Year:
   - If Multi-Year indicate proposed schedule of on site activities
   - Start: Completion:

CAMP CLASSIFICATION

6. Type of Camp
   - Mobile (self-propelled)
   - Temporary
   - Seasonally Occupied:
   - **X** Permanent
   - Other:_____

7. What is the design, maximum and expected average population of the camp?
   The maximum capacity of the camp is 340 persons; for this phase of construction the maximum number of persons at camp will be 200 with an expected average population of 200 persons.

8. Provide history of the site if it has been used in the past.
   The Meadowbank Project has operated a camp on site since 1995. Exploration drilling and environmental studies have occurred at the site since this time.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.
The Meadowbank camp is located approximately 70 km north of the Hamlet of Baker Lake. Second Portage Lake is located to the east of the site, Third Portage Lake to the west and south, and Turn Lake to the north.

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.
The camp has been in operation since 1995. Agnico-Eagle Mines Ltd. purchased the Meadowbank gold project in 2007; consequently, AEM has no knowledge if the assistance of the Regional Inuit Association Land Manager was sought when selecting the location of the camp.

11. Is the camp or any aspect of the project located on:
Crown Lands Permit Number (s)/Expiry Date: **s**
Commissioners Lands Permit Number (s)/Expiry Date: _____
X Inuit Owned Lands Permit Number (s)/Expiry Date: KIA Land Use License # KVCL303H305; expiry date December 31, 2010

12. Closest Communities (direction and distance in km):
The camp is located approximately 70 km north of the Hamlet of Baker Lake.

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?
Public meetings are held yearly in Baker Lake to update residents on exploration plans and progress of the project. A community liaison office was opened in Baker Lake in 2004 and a community liaison officer (a local Baker Lake resident) was hired to aid in disseminating information about the project to local residents. A year end non-technical report is produced each year and distributed to interested parties.

14. Will the project have impacts on traditional water use areas used by the nearby communities?
Will the project have impacts on local fish and wildlife habitats?
No significant impacts are anticipated.

PURPOSE OF THE CAMP

15. **X** Mining (includes exploration drilling)
Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
Other _____

16. Activities (check all applicable)
Preliminary site visit
X Prospecting
X Geological mapping
X Geophysical survey
X Diamond drilling
Reverse circulation drilling
Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)

X Other: Road Construction and Operations; Concrete Batch Plant Installation and Operations; Pre-development of Two On-Land Starter Pits

1. Road Construction and Operations:

To allow for construction completion, culvert installations, and routine operations activities on the all weather private access road between the Meadowbank Project site and the Hamlet of Baker Lake.

2. Concrete Batch Plant Installation and Operations:

To allow for the set up and operation of a batch concrete plant at the Meadowbank Project site to produce concrete for early footings for the anticipated permanent camp and other mine site facilities.

3. Pre-development of Two On-Land Starter Pits

Development of the North and South starter pits on the Portage deposit to allow for the winter extraction and stockpiling of overburden and rock fill materials that will be used for the construction of the East Dike (pending issue of the Type A Water License) in the summer of 2008.

17. Type of deposit (exploration focus):
    - Lead Zinc
    - Diamond
    - **X** Gold
    - Uranium
    - Other: _____

DRILLING INFORMATION – no drilling will take place out of this camp

18. Drilling Activities - **none**
    - Land Based drilling
    - Drilling on ice

19. Describe what will be done with drill cuttings? **N/A**

20. Describe what will be done with drill water? **N/A**

21. List the brand names and constituents of the drill additives to be used? Includes MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable. **N/A**

22. Will any core testing be done on site? Describe. **N/A**

SPILL CONTINGENCY PLANNING

23. The proponent is required to have a site specific Spill Contingency Plan prepared and submitted with the application This Plan should be prepared in accordance with the *NWT Environmental Protection Act, Spill Contingency Planning and Reporting Regulations, July 22, 1998* and *A Guide to the Spill Contingency Planning and Reporting Regulations, June 2002*. Please include for review.
    Yes, a spill contingency plan is included with this application.

24. How many spill kits will be on site and where will they be located?
There are a minimum of five spill kits on site; two at the refuelling station, one by the gasoline storage, one by the bulk fuel storage, and the other in the maintenance garage. AEM is in the process of purchasing additional spill kits to be located near all machinery on site and in every truck (construction, mining and pick ups).

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
P50 diesel fuel stored in 5 tanks each of 50 000 litres capacity and 3 tank of 75 000 litres capacity for a total storage capacity of 451 250 litres. All tanks are double walled and self contained.

Jet-A helicopter fuel stored in 1 double walled, self contained 71 250 litres capacity tank.

Small propane cylinders and one propane storage tank to be relocated from the Meadowbank site

40 drums of gasoline (205 litres/drums)

The MSDS sheets are available in the attached Spill Contingency Plan document.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
Camp water will be obtained from Third Portage Lake.

27. Estimated water use (in cubic metres/day):

Domestic Use: **45 m3/day**	Water Source: **Third Portage Lake**
Drilling: **none**	Water Source: **N/A**
Other: **15 m3/day for the batch concrete plant**	Water Source: **Third Portage Lake**

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? (see *DFO 1995, Freshwater Intake End-of-Pipe Fish Screen Guideline*) Describe:
Water is obtained from the lake using a well pump. The siphon for the pump is covered by an appropriate sized screen to prevent the entrapment of fish.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
Drinking water quality will be monitored each month during operations. Coliform bacteria will be analyzed monthly and total metals quarterly (4 times per year).

30. Will drinking water be treated? How?
Drinking water is treated at camp by the addition of small amounts of chlorine (liquid bleach).

31. Will water be stored on site?
No

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:

X Sewage

AEM proposes to install and put into operation in March of 2008 a sewage treatment plant at the Meadowbank site. This includes:

1. **a lift station and pump to transfer sewage from the camp to the STP;**
2. **a 65 m^3 capacity equalization tank to attenuate the flow peaks;**
3. **a standard Seprotech B130 series Rotary Biological Contactor (RBC) with a primary settling tank, a standard RBC and an final settling tank;**
4. **a lift station and pump to transfer treated overflow effluent from the final settling tank to Tear Drop Lake; and**
5. **a plate filter press set up in an adjoining Seacan container with filter feed pump to filter sewage sludge.**

The STP discharge standard at end of pipe will have an average concentration of: pH 6-9; TSS 100 mg/L; BOD_5 80 mg/L; Fecal Coliforms 10,000 CFU/100 mL; and Total oil and Grease 5 mg/L with no visible sheen. The treated sewage from the STP will be pumped into Tear Drop Lake, the proposed stormwater management pond for the site.

Over flow of this storm water management pond will be pumped into the northwest arm of Second Portage Lake only after it meets the following proposed average discharge criteria: pH 6-9.5; TSS 25 mg/L; Al 1.5 mg/L; BOD_5 25 mg/L; and Fecal Coliforms 1000 CFU/100 mL.

X Grey water

All grey water will be treated through the sewage treatment system.

X Sludges

Sludge from the sewage treatment plant will be drawn through sludge ports on the bottom of the primary settling tank on an as-needed basis with the filtrate being recycled to the equalization tank and the sludge incinerated.

X Solid Waste

Solid waste from the Meadowbank camp will be temporarily stored on site; the solid waste will either be disposed of in the Meadowbank Project landfill (pending approval of the NWB Type A water license) or backhauled to Baker Lake for disposal in the municipal dump (pending approval of the Hamlet of Baker Lake).

X Bulky Items/Scrap Metal

Bulky items and scrap metal from the Meadowbank camp will be temporarily stored on site; the items will either be disposed of in the Meadowbank Project landfill (pending approval of the NWB Type A water license) or backhauled to Baker Lake for disposal in the municipal dump (pending approval of the Hamlet of Baker Lake).

X Waste Oil

Waste oil will be temporarily stored at the Meadowbank site; waste oil will be transported to Baker Lake then barged south for proper disposal.

X Hazardous

Hazardous materials will be temporarily stored on site; all hazardous materials will be transported to Baker Lake then barged south for proper disposal.

X Other

Empty barrels and fuel drums will be hauled to Baker Lake to be either refilled or disposed of.

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
All organic wastes will be disposed of in the incineration system.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
Non-combustible waste from the Meadowbank camp will be temporarily stored on site; the waste will either be disposed of in the Meadowbank Project landfill (pending approval of the NWB Type A water license) or backhauled to Baker Lake for disposal in the municipal dump (pending approval of the Hamlet of Baker Lake).

35. Describe location (relative to water bodies and camp facilities), dimensions and volume, and freeboard for all sumps (if applicable).
The treated sewage from the STP will be pumped into Tear Drop Lake, the proposed stormwater management pond for the site. Tear Drop Lake is a small non-fish bearing pond located in the immediate area proposed for the Meadowbank Gold Project mill and service facilities. It is a shallow pond that freezes to the bottom in winter.

Over flow of this storm water management pond will be pumped into the northwest arm of Second Portage Lake only after it meets the following proposed average discharge criteria: pH 6-9.5; TSS 25 mg/L; Al 1.5 mg/L; BOD_5 25 mg/L; and Fecal Coliforms 1000 CFU/100 mL.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
N/A

OPERATION AND MAINTENANCE

37. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place?
Water Supply - A similar water supply system has been used successfully at the Meadowbank camp since 1995; the system has operated well with no known problems over this time period. If there is equipment malfunction, standard procedures will be employed to fix or replace the equipment.

Solid Waste Disposal – These items are being temporarily stored on site in appropriate storage containers; permanent disposal involves placing a landfill (pending the necessary approvals) or, as a contingency measure, barging south in the summer months. A cold climate will not have an impact on disposal activities.

Hazardous Waste Disposal – These items are being temporarily stored on site in appropriate storage containers; items will be barged south in the summer months for permanent disposal. A cold climate will not have an impact on disposal activities.

Sewage Treatment and Disposal - The RBC waste treatment system is proven, standard technology in cold weather environments. In the event of an equipment malfunction, the equalization tank is capable of storing the wastes for a period of 12 hours.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
A closure and reclamation plan is included with the application.

BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.

X Physical Environment (Landscape and Terrain, Air, Water, etc.)
X Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
X Socio-Economic Environment (Archaeology, Land and Resources Use, Demographics, Social and Culture Patterns, etc.)
Other: _____

Baseline information has been conducted for several years in anticipation of continued development of the project. Baseline work to date includes the following:

1996 – Preliminary aquatic baseline study
1997 – Aquatic base line study
1998 - Reconnaissance survey for hydrology studies
- Aquatic baseline studies for water and sediment quality, and lower trophic level population
- Review of wildlife literature
- Collection of traditional use information
- Reconnaissance survey for waste characterization studies
1999 – Studies were continued in hydrology, aquatic ecology, fisheries, vegetation, wildlife, ARD, and archaeology
- Continuous atmospheric monitoring and upgrading of measurements to include snowfall and thermal radiation.
2000 – Collection of climatic data
2001 – Collection of climatic data
2002 – Continued collection of baseline data
2003 – Continued collection of baseline data, including: fisheries and aquatics, wildlife, vegetation and terrestrial habits, and hydrology.
2004 – Continued collection of baseline data, including: fisheries and aquatics, wildlife, vegetation and terrestrial habits, hydrology, and ARD. Completion of Draft Environmental Impact Statement; submitted to NIRB in December 2004
2005 - Wildlife, fisheries and aquatic monitoring
2006 - Wildlife, fisheries and aquatic monitoring
2007 – Wildlife, fisheries and aquatic monitoring

REGULATORY INFORMATION

40. At a minimum, you should ensure you have a copy of and consult the documents below for compliance with existing regulatory requirements:

 ARTICLE 13 – *NCLA -Nunavut Land Claims Agreement*
 NWNSRTA – *The Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002*
 Northwest Territories Waters Regulations, 1993

 NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
 NWB - Interim Rules of Practice and Procedure for Public Hearings
 RWED – *Environmental Protection Act, R-068-93- Spill Contingency Planning and Reporting Regulations, 1993*
 RWED A Guide to the Spill Contingency Planning and Reporting Regulations, 2002
 NWTWB - Guidelines for Contingency Planning
 Canadian Environmental Protection Act, 1999 (CEPA)
 Fisheries Act, RS 1985 - s.34, 35, 36 and 37
 DFO - Freshwater Intake End of Pipe Fish Screen Guideline
 NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT

 Canadian Council for Ministers of the Environment (CCME); Canadian Drinking Water Quality Guidelines, 1987
 Public Health Act - Camp Sanitation Regulations
 Public Health Act - Water Supply Regulations
 Territorial Lands Act and *Territorial Land Use Regulations*; Updated 2000