

P.O. Box 119 GJOA HAVEN, NU X0B 1J0 Tel: (867) 360-6338 FAX: (867) 360-6369 בב" בעב" החבה הרבה של המוש אינות המווא במווא למווא המווא במווא למווא המווא המווא במווא במווא במווא המווא המווא

File: 1BR-CUL0207/F4/F6

By Email and Regular Mail

June 15, 2006

Paul Brugger Site Manager, Cullaton Lake Barrick Gold Inc. BCE Place, Canada Trust Tower, Suite 3700 161 Bay Street, P.O. Box 212 Toronto, Ontario M5J 2S1

Email: pbrugger@barrick.com

Subject: Shear Lake Encapsulated Waste Rock Contingency Plan and Revision to the Abandonment and Reclamation Plan; Licence 1BR-CUL0207 (NWB1CUL0207)

Dear Mr. Brugger:

The Nunavut Water Board ("NWB") would like to acknowledge receipt on March 30, 2006 of two documents from Barrick Gold Inc. to revise the approved *Abandonment and Restoration Plan* and to address the need for a contingency plan with respect to the Shear Lake Encapsulated Waste Rock. These submissions were a requirement of Amendment No.1, effective June 6, 2005

The first submission under Part F, Item 4 reflects the requirement of Amendment No.1 to revise the approved Abandonment and Restoration Plan to include the work carried out on the encapsulation of the Shear Lake waste rock as recommended by URS Norecol Dames and Moore Inc. in the report entitled "Assessment of Closure Options and Impacts, Shear Leake Zone Waste Rock Dump, Cullaton Lake Mine, Nunavut, March 2003". Following the technical review of the submission, the NWB has determined that the revisions to the Abandonment and Reclamation Plan adequately address the requirement of the amended Licence and are acceptable to the Board.

The second submission, under Part F, Item 6 as a requirement under Amendment No.1, is with respect to providing a contingency plan for the Shear Lake Encapsulated Waste Rock and the potential for seepage requiring treatment. Following the technical review of the submission, the NWB has determined that the Contingency Plan for the Shear Lake Encapsulated Waste Rock seepage adequately addresses the requirement of the amended Licence. The NWB also

recognizes the need for the Licensee, under Part F, item 6, to address the possibility of permafrost failing to establish within the waste rock. The submission, as received, adequately addresses the issue of seepage to re-occur and would apply as well to a "non-permafrost" closure of the Waste Rock. The submission has been determined to be acceptable to the Board.

Should you have any questions regarding this matter, please feel free to contact David Hohnstein, Technical Advisor Mining (780) 443-4406, at your earliest convenience.

Yours truly,

Original signed by:

David Hohnstein Technical Advisor Mining

DH/pb

Cc: Distribution list - Kivalliq

LICENCE AMENDMENT No. 1

Licensee: Barrick Gold Corporation

License No: NWB1CUL0207 License Issued: September 28, 2002

Effective Date: May 27, 2005

Pursuant to its authority under Article 13 of the Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada and the Nunavut Waters and the Nunavut Surface Rights Tribunal Act, the Nunavut Water Board hereby grants the following license amendment.

The License issued September 28, 2002 and its approved Abandonment And Restoration Plan shall be amended to include the following terms and conditions to allow Barrick Gold Corporation to dispose of Shear Lake Waste Rock by encapsulation at Cullaton Lake, Nunavut (latitude 61°16' N; longitude 98°30' W, NTS: 65G/8); remove the monitoring requirements for ground temperatures at Station 940-26 and Specific Conductance at all water quality monitoring stations; and replace the monitoring requirements at Station 940-25 with Station 940-27.

SCOPE, DEFINITIONS AND ENFORCEMENT

"Passive Treatment System" means the treatment of seepage from the encapsulated waste rock pile with limestone or dolomite as described in the letter of August 19, 2003 from Barrick to the NIRB

APPROVED ABANDONMENT AND RESTORATION PLAN

In accordance with Licence NWB1CUL0207, Part F, Item 4, the Licensee shall, within the next annual review, revise the approved A&R Plan for Cullaton Lake, under Section 4.4 of the Plan, to include a subsection to address the Shear Lake Zone Waste Rock Dump and its potential for acidic drainage. This revision is to incorporate the latest information with respect to the closure of the Shear Lake Waste Rock disposal area (carried out in 2001) and several recommendations put forward by interested persons during the review of this activity, as well as the report presented by URS Norecol Dames & Moore Inc. that was submitted with the application. The revised Plan should include, but not limited to information pertaining to the following:

Section 4.4 Shear Lake Zone

Revise the Plan to address the following information for Item 4.4.1 in the Plan

- 4.4.1 Shear Lake Waste Rock Dump
- 1. The reclamation of the waste rock dump, to be carried out as recommended in the URS Norecol Dames & Moore Inc. assessment report and is summarized as follows;
 - i. Excavation and consolidation of all the Shear Lake Zone waste rock into a single pile;
 - ii. Construction of pad approximately 1 metre thick using compacted fine grained till with a toe berm for collection of runoff and seepage;
 - iii. Placement of the waste onto the till pad; and

- iv. Capping of the waste with a 1m thick layer of compacted fine grained till, overlain by a 1m thick layer of coarser, compacted till. The cap is to be revegetated using a local seed mix.
- 2. Additional measures to be taken;
 - i. An evaluation and reporting of the encapsulation of the Shear Lake Waste Rock to determine the effectiveness of the cover and subsequent treatment that may be required. Should seepage take place from the encapsulated waste rock dump, and mitigation measures are required due to water quality, passive treatment utilizing limestone may be initiated as discussed in the report by URS Norecol, Dames and Moore.
 - ii. Further mitigation measures that are to be investigated and implemented if water quantity is shown to increase, or deterioration in water quality occurs over the monitoring period.

PART C: CONDITIONS APPLYING TO WASTE DISPOSAL

Insert Part C, Item 1(e)

(e) Monitoring of the encapsulated Shear Lake Waste Rock "cap" for erosion shall be carried out until such a point that vegetation is sufficiently established so as to stabilize the cap and preclude significant erosion thereof. These observations are to be documented within the annual geotechnical inspection, Part C, Item 1(d).

PART F: CONDITIONS APPLYING TO ABANDONMENT AND RESTORATION

Insert Part F, Item 6

The Licensee shall submit to the Board, a Contingency Plan to address:

- i. the potential of permafrost not to re-aggrade into the waste rock pile/cover as anticipated; and
- ii. clogging of the "passive treatment system" given the relatively flat terrain of the mine site and the remediation or mitigation of sediments contaminated with levels of metals in excess of CCME guidelines due to seepage from the encapsulated waste rock pile.

Table A

Summarized changes to monitoring requirements (see revised Table A);

- Item i) Monitoring at Station 940-25 is no longer required as the station no longer exists;
- Item ii) Monitoring at Station 940-26 for ground temperatures is no longer required;
- Item iii) Annual water sampling of Shear Lake Creek, down gradient of the capped waste pile has been added as Station 940-27;
- Item iv) the requirement to record the Field Conductivity as a sampling requirement of the SNP was removed as granted by letter dated March 2, 2000.

All terms and conditions of the Licence NWB1CUL0207 dated September 28th, 2002 still apply.

This Licence Amendment issued and recorded at Gjoa Haven on May 27, 2005.

Approved by,

Philippe di Pizzo Executive Director

A. SNP SAMPLING LOCATIONS, SAMPLING REQUIREMENTS, AND ANALYSIS REQUIREMENT.

Station Numbers	Description Kognak River freshwater pumphouse	Sampling Requirements Not required	Analysis Requirements Not required		
940-1					
940-2	Tailings Pond No. 1 adjacent to the point of discharge to Tailings Pond No. 2.	Once a year during peak flow	Total Arsenic Total Copper Total Nickel Total Zinc Total Mercury Total Cyanide Total Lead pH Total Suspended Solids		
940-3	Tailings Pond No.2 adjacent to the point of discharge to the marshland.	Once a year during peak flow	Total Arsenic Total Copper Total Nickel Total Zinc Total Mercury Total Cyanide Total Lead pH Total Suspended Solids		
940-3A	Effluent discharge pipe at outlet to marshland	Not required	Not required		
940-4	Mill tailings pump box at the mill	Not required	Not required		
940-5	Tailings Pond No. 2 near the northwest corner, adjacent to the western most point of the tailings dam.	Not required	Not required		
940-6	Tailings Pond No. 2 offshore, near middle of pond.	Not required	Not required		
940-7	Tailings Containment Area diversion ditch adjacent to the northwest corner of Tailings Pond No. 2.	Not required	Not required		
940-8	Channel in marshland approximately 600 metres downstream of Tailings Pond No. 2. Also identified as SITE 8 in the Environmental Investigation of the Kognak River at Cullaton Lake Gold Mine by Diamond and Meach, 1984 (EIKR).	Not required	Not required		
940-9	Outflow channels from marshland below Tailings Pond No. 2 to Kognak River. Also identified as SITE 9 in EIKR.	Not required	Not required		
940-10	Control marsh site approximately 100 metres west of rad leading to the fresh water intake, 50 metres north of the Kognak River, and 30 metres east of a small creek. Also identified as SITE 10 in EIKR	Not required	Not required		
940-11	Kognak River approximately 200 metres upstream of Station No. 940- 1. Also identified as SITE 2 in EIKR	Not required	Not required		
940-12	Kognak River approximately 1300 metres downstream of Station No. 940-1. Also identified as SITE 3 in EIKR	Not required	Not required		
940-13	Kognak River approximately 2850 metres downstream of Station No. 940-1. Also identified as SITE 4 in EIKR	Not required	Not required		
940-14	Kognak River approximately 4400 metres downstream of Station No. 940-1. Also identified as SITE 5 in EIKR	Not required	Not required		
940-15	B Zone Mine at the outlet of the minewater discharge pipe.	Not required	Not required		
940-16A	Shear Lake minewater disposal system at point of discharge	Not required	Not required		

940-17	Environment Canada stream gauging station number 06HD001 - Kognak River below Mountain Lake.	Not required	Not required		
940-18	Discharge from spillway or siphon at Tailings Pond No.1.	Once a year during peak flow	Total Arsenic Total Zinc Total Lead	Total Copper Total Mercury pH	Total Nickel Total Cyanide Total Suspended Solids
940-19	Piezometer stations within Tailings Pond No.1.	Once a year during peak flow	Total Arsenic Total Zinc Total Lead	Total Copper Total Mercury pH	Total Nickel Total Cyanide Total Suspended Solids
940-20	Area of seepage from east side of Tailings Pond No.1.	Once a year during peak flow	Total Arsenic Total Zinc Total Lead	Total Copper Total Mercury pH	Total Nickel Total Cyanide Total Suspended Solids
940-21	Thermistors installed in Tailings Pond No.1.	Once a year after June 1 and before August 31	Temperature		
940-22	Area of seepage from north east corner of Tailings Pond No.1.	Once a year during peak flow if flow present	Total Arsenic Total Zinc Total Lead	Total Copper Total Mercury pH	Total Nickel Total Cyanide Total Suspended Solids Total
940-23	Quarry pit	Once a year during peak flow	Total Arsenic Total Zinc Total Lead	Total Copper Total Mercury pH	Total Nickel Total Cyanide Total Suspended Solids Total
940-24	Quarry Pit Area- Area of seepage from the Quarry Pit to Tailings Pond No. 1	Once a year during peak flow.	Total Arsenic Total Zinc Total Lead	Total Copper Total Mercury pH	Total Nickel Total Cyanide Total Suspended Solids
		If visible sheen, test for the presence of hydrocarbons	Total Petroleum Hydrocarbons		Total Extractable Hydrocarbons
940-25	Waste Rock Disposal Area of seepage from Waste Rock Disposal Area to Shear Lake.	Not required	Total Arsenic Total Zinc Total Lead Total Sulphate	Total Copper Total Mercury pH	Total Nickel Total Cyanide Total Suspended Solids
940-26	Thermistors installed in Waste Rock Disposal Area	Not required	Temperature		
940-27	Waste Rock Disposal Area to Shear Lake Creek.	Once a year during peak flow.	Total Arsenic Total Zinc Total Lead Total Sulphate	Total Copper Total Mercury pH	Total Nickel Total Cyanide Total Suspended Solids

^{*}The pH and temperature of the sample shall be recorded at the time of water quality sampling, as well as the laboratory value.

Revised – Abandonment and Restoration amendment for Encapsulation of Shear Lake Waste Rock dated May 27, 2005