

Appendix 2
July 7, 2004
Water Quality Monitoring Results

Cullaton Lake
Water Quality Monitoring Results
July 7, 2004

Location	Sample Number	Field PH	Temperature °C	Lab PH	Suspended Solids mg/L	Total Cyanide mg/L	Total Arsenic mg/L	Total Copper mg/L	Total Lead mg/L	Total Mercury mg/L	Total Nickel mg/L	Total Zinc mg/L
Tailings Pond No. 1 (at discharge)	940-2A	7.5	15.3	7.77	<3.0	<0.0050	0.00159	0.0014	<0.0010	<0.000050	<0.020	<0.0050
	940-2B			7.78	<3.0	0.0064	0.00139	0.0013	<0.0010	<0.000050	<0.020	<0.0050
Tailings Pond No. 2	940-3A	7.6	19.3	7.96	<3.0	0.0072	0.00305	0.0043	<0.0010	<0.000050	<0.020	<0.0050
	940-3B			7.90	<3.0	0.0126	0.00308	0.0044	<0.0010	<0.000050	<0.020	<0.0050
Tailings Pond No. 1 (spillway)	940-18A	7.9	18.5	7.89	<3.0	0.0096	0.00165	0.0018	<0.0010	<0.000050	<0.020	<0.0050
	940-18B			7.88	<3.0	0.0100	0.00177	0.0017	<0.0010	<0.000050	<0.020	<0.0050
Tailings Pond No. 1 (at piezometer)	940-19A	7.3	16.3	7.69	<3.0	0.0074	0.00209	0.0015	<0.0010	<0.000050	<0.020	<0.0050
	940-19B			7.85	<3.0	0.0104	0.00191	0.0015	<0.0010	<0.000050	<0.020	<0.0050
Tailings Pond No. 1 (seepage at east side)	940-20A	7.3	21.3	8.13	<3.0	0.0104	0.00297	0.0041	<0.0010	<0.000050	<0.020	<0.0050
	940-20B			8.16	3.4	0.0190	0.00302	0.0041	<0.0010	<0.000050	<0.020	<0.0050
Tailings Pond No. 1 (seepage at northeast corner)	940-22	Dry										
Quarry Pit	940-23A	7.9	15.7	7.56	<3.0	<0.0050	0.00096	<0.0010	<0.0010	<0.000050	<0.020	0.0087
	940-23B			7.65	<3.0	<0.0050	0.00096	<0.0010	<0.0010	<0.000050	<0.020	0.0081
Quarry Pit (flow to Tailings Pond No. 1)	940-24	Dry										
Seepage from Shear Lake Encapsulated Waste Rock	940-25A	5.4	22.5	6.71	<3.0	0.0220	0.00181	0.0074	0.0085	<0.000050	<0.020	0.0484
	940-25B			6.72	<3.0	0.0166	0.00195	0.0074	0.0078	<0.000050	<0.020	0.0476

**Cullaton Lake
Water Quality Monitoring
July 7, 2004
Quality Control Results**

Parameter	Sample 940-3A	Replicate (1)	Sample 940-20B	Replicate (2)	Detection Limit
Lab pH	7.96	7.96	8.16	8.18	0.01
Total Suspended Solids mg/l	<3.0	N/A	3.4	N/A	3
Total Cyanide mg/l	0.0072	N/A	0.0190	N/A	0.0050
Total Arsenic mg/l	0.00305	0.00305	0.00302	0.00302	0.00010
Total Copper mg/l	0.0043	0.0042	0.0041	0.0041	0.0010
Total Lead mg/l	<0.0010	<0.0010	<0.0010	<0.0010	0.0010
Total Mercury mg/l	<0.000050	<0.000050	<0.000050	<0.000050	0.000050
Total Nickel mg/l	<0.020	<0.020	<0.020	<0.020	0.020
Total Zinc mg/l	<0.0050	<0.0050	<0.0050	<0.0050	0.0050

Notes:

(1) ALS Environmental QC # 394800

(2) ALS Environmental QC # 394801

N/A – not analyzed

**Cullaton Lake
Water Quality Monitoring Results
2001- 2004**

CULLATON LAKE GOLD MINES LTD.

CULLATON LAKE MINE

WATER MONITORING RESULTS 2001 - 2004

STATION 940-02A - TAILINGS POND NO. 1 DISCHARGE

Physical and General	Units	Water License	July 26 2001	July 3 2002	July 29 2003	July 7 2004	MINIMUM	MAXIMUM	AVERAGE
pH (lab)	units	6.0 - 9.5	8.00	7.81	8.07	7.77	7.77	8.07	7.91
Temperature	°C		21.6	14.1	21.0	15.3	14.1	21.6	18.0
Conductivity (lab)	uS/cm					479	479	479	479
Suspended Solids (105°C)	mg/L	25.0	4	3	3	3	3	4	3
Total Cyanide	mg/L		0.015	0.009	0.005	0.0050	0.005	0.015	0.009
Minor Cations									
Arsenic	mg/L	0.300	0.0025	0.0022	0.0025	0.00159	0.00159	0.00250	0.00220
Copper	mg/L	0.200	0.002	0.002	0.002	0.0014	0.0014	0.0020	0.0019
Lead	mg/L	0.200	0.001	0.001	0.001	0.0010	0.001	0.0010	0.0010
Mercury	mg/L		< 0.00005	< 0.00005	< 0.00005	< 0.000050	< 0.00005	< 0.00005	< 0.00005
Nickel	mg/L	0.300	< 0.02	0.003	0.001	< 0.020	0.001	< 0.020	< 0.011
Zinc	mg/L	0.300	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.005	< 0.005	< 0.005

Notes:
D: Dry
ND: None detected

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CULLATON LAKE MINE

WATER MONITORING RESULTS 2001 - 2004
STATION 940-03A - TAILINGS POND NO. 2 DISCHARGE

Physical and General	Units	Water License	July 26 2001	July 3 2002	July 29 2003	July 7 2004	MINIMUM	MAXIMUM	AVERAGE
pH (lab)	units	6.0 - 9.5	8.29	8.05	8.07	7.96	7.96	8.29	8.09
Temperature	°C		21.6	15.7	20.8	19.3	15.7	21.6	19.4
Conductivity (lab)	uS/cm					214	214	214	214
Suspended Solids (105°C)	mg/L	25.0	< 3	3	5	3	< 3	5	4
Total Cyanide	mg/L		0.035	0.010	0.010	0.0072	0.0072	0.035	0.016
Minor Cations									
Arsenic	mg/L	0.300	0.0042	0.0032	0.0059	0.00305	0.00305	0.00590	0.00409
Copper	mg/L	0.200	0.003	0.003	0.003	0.0043	0.0030	0.0043	0.0033
Lead	mg/L	0.200	< 0.001	< 0.001	< 0.001	< 0.0010	< 0.001	< 0.0010	< 0.0010
Mercury	mg/L		< 0.00005	< 0.00005	< 0.00005	< 0.000050	< 0.00005	< 0.00005	< 0.00005
Nickel	mg/L	0.300	< 0.02	0.003	0.004	< 0.020	0.003	< 0.020	< 0.012
Zinc	mg/L	0.300	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.005	< 0.005	< 0.005

Notes:

D: Dry

ND: None detected

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WATER MONITORING RESULTS 2001 - 2004
STATION 940-18A - TAILINGS POND NO. 1 SPILLWAY DISCHARGE

Physical and General	Units	Water License	July 26 2001	July 3 2002	July 29 2003	July 7 2004	MINIMUM	MAXIMUM	AVERAGE
pH (lab)	units	6.0 - 9.5	8.10	7.86	8.87	7.89	7.86	8.87	8.18
Temperature	°C		21.5	14.2	20.5	18.5	14.2	21.5	18.7
Conductivity (lab)	uS/cm					521	521	521	521
Suspended Solids (105°C)	mg/L	25.0	< 3	< 3	4	< 3	< 3	4	< 3
Total Cyanide	mg/L		0.009	0.008	0.009	0.0096	0.008	0.010	0.009
Minor Cations									
Arsenic	mg/L	0.300	0.0023	0.0021	0.0029	0.00165	0.00165	0.0029	0.0022
Copper	mg/L	0.200	0.002	0.001	0.002	0.0018	0.001	0.002	0.0017
Lead	mg/L	0.200	< 0.001	< 0.001	< 0.001	< 0.0010	< 0.001	< 0.001	< 0.001
Mercury	mg/L		< 0.00005	< 0.00005	< 0.00005	< 0.000050	< 0.00005	< 0.00005	< 0.00005
Nickel	mg/L	0.300	< 0.02	0.002	0.001	< 0.020	0.001	< 0.020	< 0.011
Zinc	mg/L	0.300	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.005	< 0.005	< 0.005

Notes:

D: Dry

ND: None detected

CULLATON LAKE GOLD MINES LTD.
CULLATON LAKE MINE

WATER MONITORING RESULTS 2001 - 2004
STATION 940-19A - TAILINGS POND NO. 1 PIEZOMETER

Physical and General	Units	Water License	July 26 2001	July 3 2002	July 29 2003	July 7 2004	MINIMUM	MAXIMUM	AVERAGE
pH (lab)	units	6.0 - 9.5	8.11	7.89	8.08	7.69	7.69	8.11	7.94
Temperature	°C		22.0	12.7	20.8	16.3	12.7	22.0	18.0
Conductivity (lab)	uS/cm					511	511	511	511
Suspended Solids (105°C)	mg/L	25.0	< 3	3	8	3	< 3	8	4
Total Cyanide	mg/L		0.010	0.012	< 0.005	0.0074	< 0.005	0.012	< 0.009
Minor Cations									
Arsenic	mg/L	0.300	0.0024	0.0030	0.0036	0.00209	0.00209	0.0036	0.0028
Copper	mg/L	0.200	0.002	0.002	0.002	0.0015	0.0015	0.002	0.0019
Lead	mg/L	0.200	< 0.001	0.001	< 0.001	< 0.0010	< 0.001	< 0.001	< 0.001
Mercury	mg/L		< 0.00005	< 0.00005	< 0.00005	< 0.000050	< 0.00005	< 0.00005	< 0.00005
Nickel	mg/L	0.300	< 0.02	0.003	0.002	< 0.020	0.002	< 0.020	< 0.011
Zinc	mg/L	0.300	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.005	< 0.005	< 0.005

Notes:
D: Dry
ND: None detected

CULLATON LAKE GOLD MINES LTD.

CULLATON LAKE MINE

WATER MONITORING RESULTS 2001 - 2004

STATION 940-20A - TAILINGS POND NO. 1 EAST SIDE SEEPAGE

Physical and General	Units	Water License	July 26 2001	July 3 2002	July 29 2003	July 7 2004	MINIMUM	MAXIMUM	AVERAGE
pH (lab)	units	6.0 - 9.5	8.43	D	D	8.13	0	8.43	4.14
Temperature	°C		24.3	D	D	21.3	0	24.3	11.4
Conductivity (lab)	uS/cm		NA	D	D	642	0	642	161
Suspended Solids (105°C)	mg/L	25.0	5	D	D	<	0	5	2
Total Cyanide	mg/L		0.019	D	D	0.0104	0	0.019	0.007
Minor Cations									
Arsenic	mg/L	0.300	0.0028	D	D	0.00297	0	0.00297	0.0014
Copper	mg/L	0.200	0.005	D	D	0.0041	0	0.005	0.0023
Lead	mg/L	0.200	< 0.001	D	D	< 0.0010	0	< 0.001	< 0.0005
Mercury	mg/L		< 0.00005	D	D	< 0.000050	0	< 0.00005	< 0.00003
Nickel	mg/L	0.300	< 0.02	D	D	< 0.020	0	< 0.020	< 0.010
Zinc	mg/L	0.300	< 0.005	D	D	< 0.0050	0	< 0.005	< 0.003

Notes:
D: Dry
NA: Not analyzed
ND: None detected

CULLATON LAKE GOLD MINES LTD.
CULLATON LAKE MINE

WATER MONITORING RESULTS 2001 - 2004
STATION 940-22A - TAILINGS POND NO. 1 NORTH EAST CORNER SEEPAGE

Physical and General	Units	Water License	July 26 2001	July 3 2002	July 29 2003	July 7 2004
pH (lab)	units	6.0 - 9.5	D	D	D	D
Temperature	°C		D	D	D	D
Conductivity (lab)	uS/cm		D	D	D	D
Suspended Solids (105°C)	mg/L	25.0	D	D	D	D
Total Cyanide	mg/L		D	D	D	D
Minor Cations						
Arsenic	mg/L	0.300	D	D	D	D
Copper	mg/L	0.200	D	D	D	D
Lead	mg/L	0.200	D	D	D	D
Mercury	mg/L		D	D	D	D
Nickel	mg/L	0.300	D	D	D	D
Zinc	mg/L	0.300	D	D	D	D

Notes:

D: Dry

ND: None detected

CULLATON LAKE GOLD MINES LTD.
CULLATON LAKE MINE

WATER MONITORING RESULTS 2001 - 2004
STATION 940-23A - QUARRY PIT

Physical and General	Units	Water License	July 26 2001	July 3 2002	July 29 2003	July 7 2004	MINIMUM	MAXIMUM	AVERAGE
pH (lab)	units	6.0 - 9.5	D	7.82	8.07	7.56	0	8.07	5.86
Temperature	°C		D	12.7	20.7	15.7	0	20.7	12.3
Conductivity (lab)	uS/cm		D			83.7	0	84	42
Suspended Solids (105°C)	mg/L	25.0	D <	3	10	< 3	0	10	4
Total Cyanide	mg/L		D <	0.005	0.006	< 0.0050	0	< 0.006	< 0.004
Minor Cations									
Arsenic	mg/L	0.300	D	0.0020	0.0019	0.00096	0	0.0020	0.0012
Copper	mg/L	0.200	D	0.003	0.002	< 0.0010	0	0.003	< 0.0015
Lead	mg/L	0.200	D <	0.001	< 0.001	< 0.0010	0	< 0.0010	< 0.0008
Mercury	mg/L		D <	0.00005	< 0.00005	< 0.000050	0	< 0.00005	< 0.00004
Nickel	mg/L	0.300	D	0.003	0.002	< 0.020	0	< 0.020	< 0.006
Zinc	mg/L	0.300	D	0.008	0.007	0.0087	0	0.0087	0.0059

Notes:

D: Dry

ND: None detected

CULLATON LAKE GOLD MINES LTD.
CULLATON LAKE MINE

WATER MONITORING RESULTS 2001 - 2004
STATION 940-24A - QUARRY PIT SEEPAGE TO TAILINGS POND NO.1

Physical and General	Units	Water License	July 26 2001	July 3 2002	July 29 2003	July 7 2004
pH (lab)	units	6.0 - 9.5	D	D	D	D
Temperature	°C		D	D	D	D
Conductivity (lab)	uS/cm		D	D	D	D
Suspended Solids (105°C)	mg/L	25.0	D	D	D	D
Total Cyanide	mg/L		D	D	D	D
Oil and Grease	mg/L	If visible	D	D	D	D
Minor Cations						
Arsenic	mg/L	0.300	D	D	D	D
Copper	mg/L	0.200	D	D	D	D
Lead	mg/L	0.200	D	D	D	D
Mercury	mg/L		D	D	D	D
Nickel	mg/L	0.300	D	D	D	D
Zinc	mg/L	0.300	D	D	D	D

Notes:

D: Dry

ND: None detected

CULLATON LAKE GOLD MINES LTD.

CULLATON LAKE MINE

WATER MONITORING RESULTS 2001 - 2004 STATION 940-25A - SEEPAGE FROM WASTE ROCK DUMP TO SHEAR LAKE

Physical and General	Units	Water License	July 26 2001	July 3 2002	July 29 2003	July 7 (1) 2004
pH (lab)	units	6.0 - 9.5	D	D	D	6.71
Temperature	°C		D	D	D	22.5
Conductivity (lab)	uS/cm		D	D	D	88.7
Suspended Solids (105°C)	mg/L	25.0	D	D	D	< 3
Total Cyanide	mg/L		D	D	D	< 0.0220
Minor Cations						
Arsenic	mg/L	0.300	D	D	D	0.00181
Copper	mg/L	0.200	D	D	D	0.0074
Lead	mg/L	0.200	D	D	D	0.0085
Mercury	mg/L		D	D	D	< 0.000050
Nickel	mg/L	0.300	D	D	D	< 0.020
Zinc	mg/L	0.300	D	D	D	0.0484

Notes:

D: Dry

ND: None detected

(1) The seepage analyzed was not reporting to Shear Lake. It was flowing east into grasslands.

Appendix 3
July 7, 2004
Thermistor Monitoring Results

THERMISTOR MONITORING RESULTS
Station 940-21
Temperature °C

July 7, 2004

Depth	T1	T2	T3	T4
0.3m	25.46	22.43	26.91	24.99
0.8m	9.69	8.12	21.26	8.89
1.3m	2.76	3.48	10.54	2.76
1.8m	-0.66	0.16	2.62	-0.66
2.3m	-2.10	-0.55	-0.78	-2.21
2.8m	-3.23	-1.67	No reading	-1.89

July 29, 2003

Depth	T1	T2	T3	T4
0.3m	20.8	19.1	20.8	17.5
0.8m	17.2	15.1	20.7	15.1
1.3m	9.9	10.3	17.2	10.3
1.8m	6.15	7.9	9.7	3
2.3m	1.68	5.8	5.8	-2.7
2.8m	0.28	No reading	No reading	-2.9

July 3, 2002

Depth	T1	T2	T3	T4
0.3m	17.5	19.12	No reading	20.83
0.8m	4.53	6.15	No reading	7.93
1.3m	1.68	1.68	No reading	4.53
1.8m	-3.91	0.41	No reading	1.68
2.3m	-5.72	-0.78	No reading	0.41
2.8m	-3.91	-2.42	No reading	4.1

July 26, 2001

Depth	T1	T2	T3	T4
1	25.46	18.13	21.65	20.89
2	12.58	3.33	13.83	4.84
3	-2.52	1.94	4.84	3.05
4	-2.73	-1.45	-0.66	-2.52
5	-3.13	-5.37	-3.72	-7.2
6	-3.72	-5.55	-4.29	-7.2

Appendix 4
2005 Spill Response Plan

CULLATON LAKE ENVIRONMENTAL SPILL RESPONSE PLAN

COMPANY INFORMATION

Cullaton Lake Gold Mines Ltd. is wholly owned by Barrick Gold Inc. The Barrick head office responsible for the site is located at:

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

The site manager is:

Paul Brugger,
Phone: 807-964-1657 (Thunder Bay, Ontario)
Cell: 807-473-7947

SITE LOCATION:

The Cullaton Lake property is located in the southern part of the District of Keewatin in the Nunavut Territory. The property is 250 km west of Arviat, NU, 400 km northwest of Churchill, Manitoba and 645 km north of Thompson, Manitoba.

FACILITY:

Cullaton Lake operated as an underground gold mine for four years from 1981 to 1985. Decommissioning and reclamation began in 1991 and was completed in 2001. By the end of 2001, all mine buildings had been removed, roads were decommissioned and the tailings impoundment area was reclaimed. No chemicals, fuels or reagents remain on site.

Remaining activities on the site consist of a one-day annual visit for inspection and monitoring purposes. The site is dormant and uninhabited for the remainder of the year.

SPILL CONTROL AND REPORTING PROCEDURES:

Should it be necessary to mobilize contractors to the site for any reason in the future, the contractor will be required to supply spill control and clean up materials, have a spill control plan and train personnel in spill response procedures.

Upon discovery of a spill, the person discovering the spill will take the following actions:

INITIAL ACTIONS:

- a. Stop the flow if possible.
- b. Eliminate open flame ignition sources (i.e. extinguish cigarettes, shut off motors (from a remote location if surrounded by vapours).
- c. Contain flow of fuel by dyking, barricading or blocking flow by any means available. Use earth-moving equipment if available. A dam made of earth or other available fill can be quickly constructed to contain and prevent a spill from spreading. If the ground is permeable, it may be necessary to excavate a shallow depression and line it with plastic to prevent the oil from seeping away.

ACTION IN CASE OF FIRE:

- a. Use CO₂, dry chemical, foam or water spray (fog), although water may spread the fire.
- b. Use jet streams to wash away burning gasoline.
- c. Use fog streams to protect any rescue team and trapped people.
- d. Use water to cool surface of tanks.
- e. Divert the oil or gasoline to an open area and let it burn off under control. If the fire is put out before all the fuel is consumed, beware of re-ignition. Rubber tires are almost impossible to extinguish after involvement with a fire. Have vehicles with burning tires removed from the danger area.

RECOVERY PROCEDURE:

- a. Unburned oil or gasoline can be soaked up by sand and peat moss, or by commercial absorbents such as Graboil.
- b. If necessary, contaminated soil should be excavated and disposed of as per the following section.
- c. Fuel entering the ground can be recovered by digging sumps or trenches.

DISPOSAL:

- a. Evaporation may be used if appropriate.
- b. Disposal as per the approved Abandonment and Restoration (1996) Plan.

REPORTING:

An individual discovering a spill must report it as soon as possible to the 24 hour Spill Report Line by calling:

(867) 920-8130

(1) A person reporting a spill shall give as much of the following information as possible:

- date and time of spill
- location of spill
- direction spill is moving
- name and phone number of a contact person close to the location of the spill
- type and description of contaminant spilled including an estimate of the quantity
- cause of spill
- status of spill (i.e. continuing or stopped)
- action taken to contain, recover, clean-up, and dispose of contaminant
- name, address and phone number of person reporting the spill
- name of owner, or person in charge or control of contaminant at time of spill

(2) No person shall delay reporting a spill because of lack of knowledge of the factors listed in subsection (1).

(3) The person reporting the spill shall also contact Barrick Gold Inc. to report the spill and the clean-up and disposal actions. The contact person is:

Paul Brugger,
Site Manager
Phone: 807-964-1657
Cell: 807-473-7947

Alternate:
Bill Ferdinand
Director, Environment, Health and Safety,
North American Region
Phone: 801-990-3746
Cell: 801-244-3540

Addendum 1
2003 Laboratory Quality Control Results

**Cullaton Lake Water Sampling
Water License NWB1CUL0207
July 29, 2003
Quality Control Results**

Parameter	Sample 940-2B	Replicate (1)	Detection Limit
Lab pH	8.02	8.06	0.01
Total Suspended Solids mg/l	<3	<3	3
Total Cyanide mg/l	<0.005	N/A	0.005
Total Arsenic mg/l	0.0023	0.0024	0.0001
Total Copper mg/l	0.002	0.002	0.001
Total Lead mg/l	<0.001	<0.001	0.001
Total Mercury mg/l	<0.00005	<0.00005	0.00005
Total Nickel mg/l	0.002	0.002	0.001
Total Zinc mg/l	<0.005	<0.005	0.0050

Notes:

(1) ALS Environmental QC # 347790

N/A – not analyzed