



30 March 2009

**Via E-Mail**

Chief Administrative Officer  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU  
X0B 1J0

Attention: Ms. Phyllis Beaulieu

Dear Ms. Beaulieu,

**Reference: Tahera Diamond Corporation Jericho Diamond Mine Monthly SNP Report for February 2009**

Deloitte & Touche, as “Agents” for INAC, is pleased to provide Nunavut Water Board (NWB) with the Jericho Diamond Mine (Jericho) monthly report for February 2009 as required under Water License 2AM-JER0410.

**SNP Sampling**

During the month of February 2009 samples were collected as required for the SNP sampling program. A summary of the sampling is provided in Table1.

**Table 1: SNP Water Sampling Reports**

| <b>SNP Station</b> | <b>Sampling Date</b> | <b>Lab #</b> | <b>Comment</b> |
|--------------------|----------------------|--------------|----------------|
| SW1                | Feb. 26, 2009        | 290059       | Taiga          |
| Various            | Feb. 26, 2009        | L737855      | ALS            |

All Samples were collected as per requirements under Water License 2AM-JER0410 for the month of February.

Note:

The diamond plant did not operate in February and there was no discharge of supernatant water from the PKCA.

## **Results**

### *Water Sampling and Analysis Results*

Table 2 provides the results for samples related to the SNP sampling requirements for the month of February 2009.

### *Flow and Volume Measurements*

Table 3 provides a breakdown of flow and volume measurements and solid material moved as required under Part K, Items 12 and 13 of the water license.

Should you have any questions regarding the monthly report for February 2009 please contact the undersigned.

Yours truly,



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c. L. Staples, G. Stevens, D. Haggar

**Table 2: Water Sampling and Analysis Results**

**Project**

**Report To**

**ALS File No.**

**Date Received**

**Date**

Greg Stevens, DELOITTE & TOUCHE LLP

L737855

26-Feb-09

18-Mar-09

| <b>RESULTS OF ANALYSIS</b>         | <b>Detection Limits</b> |           | <b>Detection Limits</b> |           |
|------------------------------------|-------------------------|-----------|-------------------------|-----------|
| Sample ID                          | JER-SW1                 | JER-SW1   | JER-SW4                 | JER-SW4   |
| Date Sampled                       | 25-FEB-09               | 25-FEB-09 | 25-FEB-09               | 25-FEB-09 |
| Time Sampled                       | 10:00                   | 10:00     | 10:00                   | 10:00     |
| ALS Sample ID                      | L737855-1               | L737855-1 | L737855-2               | L737855-2 |
| Matrix                             | Water                   | Water     | Water                   | Water     |
| <b>Physical Tests</b>              |                         |           |                         |           |
| Conductivity                       | 2                       | 636       | 2                       | 367       |
| Hardness (as CaCO3)                | 0.7                     | 42.3      | 0.5                     | 111       |
| pH                                 | 0.01                    | 7.61      | 0.01                    | 7.59      |
| Total Suspended Solids             | 3                       | 15.5      | 3                       | <3.0      |
| Total Dissolved Solids             | 10                      | 414       | 10                      | 222       |
| Turbidity                          | 0.1                     | 11.8      | 0.1                     | 0.45      |
| <b>Anions and Nutrients</b>        |                         |           |                         |           |
| Acidity (as CaCO3)                 | 1                       | 5.7       | 1                       | 2.5       |
| Alkalinity, Bicarbonate (as CaCO3) | 1                       | 92.0      | 1                       | 59.0      |
| Alkalinity, Carbonate (as CaCO3)   | 1                       | <1.0      | 1                       | <1.0      |
| Alkalinity, Hydroxide (as CaCO3)   | 1                       | <1.0      | 1                       | <1.0      |
| Alkalinity, Total (as CaCO3)       | 1                       | 92.0      | 1                       | 59.0      |
| Ammonia as N                       | 0.025                   | 1.63      | 0.005                   | 0.132     |
| Chloride (Cl)                      | 2.5                     | 45.1      | 0.5                     | 19.0      |
| Nitrate (as N)                     | 0.025                   | 14.1      | 0.005                   | 13.7      |
| Nitrite (as N)                     | 0.005                   | 0.0962    | 0.001                   | 0.0308    |
| Ortho Phosphate as P               | 0.1                     | 3.20      | 0.001                   | <0.0010   |
| Total Dissolved Phosphate As P     | 0.1                     | 3.13      | 0.002                   | 0.0054    |
| Total Phosphate as P               | 0.1                     | 3.68      | 0.002                   | 0.0083    |
| Sulfate (SO4)                      | 2.5                     | 72.4      | 0.5                     | 32.0      |
| <b>Organic / Inorganic Carbon</b>  |                         |           |                         |           |
| Total Inorganic Carbon             | 0.5                     | 17.5      | 0.5                     | 14.2      |
| Total Organic Carbon               | 0.5                     | 25.4      | 0.5                     | 4.04      |
| <b>Total Metals</b>                |                         |           |                         |           |
| Aluminum (Al)-Total                | 0.002                   | 0.0739    | 0.001                   | 0.0166    |
| Antimony (Sb)-Total                | 0.0002                  | 0.00411   | 0.0001                  | 0.00044   |
| Arsenic (As)-Total                 | 0.0002                  | 0.00078   | 0.0001                  | 0.00044   |
| Barium (Ba)-Total                  | 0.0001                  | 0.00479   | 0.00005                 | 0.0747    |
| Beryllium (Be)-Total               | 0.001                   | <0.0010   | 0.0005                  | <0.00050  |
| Bismuth (Bi)-Total                 | 0.001                   | <0.0010   | 0.0005                  | <0.00050  |
| Boron (B)-Total                    | 0.02                    | 0.164     | 0.01                    | 0.047     |
| Cadmium (Cd)-Total                 | 0.0001                  | 0.00010   | 0.00005                 | 0.000052  |
| Calcium (Ca)-Total                 | 0.1                     | 11.8      | 0.05                    | 25.4      |
| Chromium (Cr)-Total                | 0.001                   | 0.0023    | 0.0005                  | <0.00050  |
| Cobalt (Co)-Total                  | 0.0002                  | 0.00071   | 0.0001                  | 0.00014   |
| Copper (Cu)-Total                  | 0.0002                  | 0.111     | 0.0001                  | 0.00245   |
| Iron (Fe)-Total                    | 0.03                    | 1.03      | 0.03                    | <0.030    |
| Lead (Pb)-Total                    | 0.0001                  | 0.00113   | 0.00005                 | 0.000074  |
| Lithium (Li)-Total                 | 0.01                    | 0.479     | 0.005                   | <0.0050   |
| Magnesium (Mg)-Total               | 0.1                     | 3.61      | 0.05                    | 12.3      |
| Manganese (Mn)-Total               | 0.0001                  | 0.0458    | 0.00005                 | 0.00736   |
| Mercury (Hg)-Total                 | 0.00005                 | <0.000050 | 0.00005                 | <0.000050 |
| Molybdenum (Mo)-Total              | 0.0001                  | 0.00550   | 0.00005                 | 0.00528   |
| Nickel (Ni)-Total                  | 0.001                   | 0.0144    | 0.0005                  | 0.00494   |
| Potassium (K)-Total                | 1                       | 23.9      | 0.5                     | 12.5      |
| Selenium (Se)-Total                | 0.002                   | <0.0020   | 0.001                   | <0.0010   |
| Silicon (Si)-Total                 | 0.05                    | 3.45      | 0.05                    | 1.91      |
| Silver (Ag)-Total                  | 0.00002                 | 0.000022  | 0.00001                 | <0.000010 |
| Sodium (Na)-Total                  | 1                       | 97.1      | 0.5                     | 17.8      |

|                             |         |           |         |           |
|-----------------------------|---------|-----------|---------|-----------|
| Strontium (Sr)-Total        | 0.0002  | 0.0133    | 0.0001  | 0.483     |
| Thallium (Tl)-Total         | 0.0002  | <0.00020  | 0.0001  | <0.00010  |
| Tin (Sn)-Total              | 0.0002  | 0.00277   | 0.0001  | <0.00010  |
| Titanium (Ti)-Total         | 0.01    | <0.010    | 0.01    | <0.010    |
| Uranium (U)-Total           | 0.00002 | 0.000105  | 0.00001 | 0.00395   |
| Vanadium (V)-Total          | 0.002   | <0.0020   | 0.001   | <0.0010   |
| Zinc (Zn)-Total             | 0.002   | 0.765     | 0.006   | <0.0060   |
| <b>Dissolved Metals</b>     |         |           |         |           |
| Aluminum (Al)-Dissolved     | 0.002   | 0.0086    | 0.001   | 0.0100    |
| Antimony (Sb)-Dissolved     | 0.0002  | 0.00404   | 0.0001  | 0.00038   |
| Arsenic (As)-Dissolved      | 0.0002  | 0.00076   | 0.0001  | 0.00042   |
| Barium (Ba)-Dissolved       | 0.0001  | 0.00118   | 0.00005 | 0.0746    |
| Beryllium (Be)-Dissolved    | 0.001   | <0.0010   | 0.0005  | <0.00050  |
| Bismuth (Bi)-Dissolved      | 0.001   | <0.0010   | 0.0005  | <0.00050  |
| Boron (B)-Dissolved         | 0.02    | 0.165     | 0.01    | 0.045     |
| Cadmium (Cd)-Dissolved      | 0.0001  | <0.00010  | 0.00005 | <0.000050 |
| Calcium (Ca)-Dissolved      | 0.1     | 11.2      | 0.05    | 24.3      |
| Chromium (Cr)-Dissolved     | 0.001   | 0.0013    | 0.0005  | <0.00050  |
| Cobalt (Co)-Dissolved       | 0.0002  | 0.00061   | 0.0001  | 0.00011   |
| Copper (Cu)-Dissolved       | 0.0002  | 0.0407    | 0.0001  | 0.00184   |
| Iron (Fe)-Dissolved         | 0.03    | 0.284     | 0.03    | <0.030    |
| Lead (Pb)-Dissolved         | 0.0001  | 0.00018   | 0.00005 | <0.000050 |
| Lithium (Li)-Dissolved      | 0.01    | 0.482     | 0.005   | <0.0050   |
| Magnesium (Mg)-Dissolved    | 0.1     | 3.47      | 0.05    | 12.2      |
| Manganese (Mn)-Dissolved    | 0.0001  | 0.0386    | 0.00005 | 0.000777  |
| Mercury (Hg)-Dissolved      | 0.00005 | <0.000050 | 0.00005 | <0.000050 |
| Molybdenum (Mo)-Dissolved   | 0.0001  | 0.00525   | 0.00005 | 0.00502   |
| Nickel (Ni)-Dissolved       | 0.001   | 0.0127    | 0.0005  | 0.00433   |
| Potassium (K)-Dissolved     | 1       | 23.4      | 0.5     | 12.2      |
| Selenium (Se)-Dissolved     | 0.002   | <0.0020   | 0.001   | <0.0010   |
| Silicon (Si)-Dissolved      | 0.05    | 3.45      | 0.05    | 1.97      |
| Silver (Ag)-Dissolved       | 0.00002 | <0.000020 | 0.00001 | <0.000010 |
| Sodium (Na)-Dissolved       | 1       | 97.3      | 0.5     | 17.4      |
| Strontium (Sr)-Dissolved    | 0.0002  | 0.0123    | 0.0001  | 0.461     |
| Thallium (Tl)-Dissolved     | 0.0002  | <0.00020  | 0.0001  | <0.00010  |
| Tin (Sn)-Dissolved          | 0.0002  | 0.00154   | 0.0001  | <0.00010  |
| Titanium (Ti)-Dissolved     | 0.01    | <0.010    | 0.01    | <0.010    |
| Uranium (U)-Dissolved       | 0.00002 | 0.000055  | 0.00001 | 0.00377   |
| Vanadium (V)-Dissolved      | 0.002   | <0.0020   | 0.001   | <0.0010   |
| Zinc (Zn)-Dissolved         | 0.002   | 0.512     | 0.001   | 0.0031    |
| <b>Aggregate Organics</b>   |         |           |         |           |
| Oil and Grease              | 5       | <5.0      |         | -         |
| <b>Inorganics-Nutrients</b> |         |           |         |           |
| Biological Oxygen Demand    | 2       | 12        |         |           |
| <b>Microbiology</b>         |         |           |         |           |
| Coliforms, Fecal            | 10      | 90        |         |           |

**Table 3: Flow and Volume Measurements-Part K Item 12 and 13**

[illegible]