



Fisheries and Oceans Canada Pêches et Océans Canada

Eastern Arctic Area Region Arctique de L'est
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NU-00-0068

April 11, 2011

Phyllis Beaulieu
Manager of Licensing
Nunavut Water Board
PO Box 119
Gjoa Haven NU, X0B 1J0

Dear Ms. Beaulieu:

Subject: DFO Comments, Care and Maintenance Plan, Jericho Diamond Mine

Fisheries and Oceans Canada (DFO) has reviewed the Care and Maintenance documents that have been prepared on behalf of Shear Diamonds Ltd for the Jericho Diamond Mine. After reviewing the numerous documents that pertain to the care and maintenance activities at the mine, DFO has the following comments and questions to contribute.

1. Table 3.3 in the Aquatic Effect Monitoring Plan (AEMP) report displays the water chemistry analytical testing that will be performed on the water within the Processed Kimberlite Containment Area (PKCA). Total suspended solids (TSS) monitoring/testing is not listed in Table 3.3 as a test that will be performed on the water samples. Is TSS analytical testing included in one of the analytical packages described in the Notes section of Table 3.3?
2. What is the contingency plan if the water within the PKCA does not meet criteria and is unable to be released into stream C3?
3. Section 2.2.5 of the AEMP questions the selection of the control lake that was used during previous aquatic monitoring. Can a more detailed description be provided as to why the use of the control lake for further monitoring is being questioned?
4. The Site Water Management Plan report (SWMP), section 2.9 states that "*small diameter culverts may be required under site roads crossing minor natural drainage paths*". DFO would like to review the design and construction methodology for the installation of these potential culverts under the provisions of the *Fisheries Act* if the culverts or construction has potential to impact fish bearing watercourses or waterbodies.

If you have any questions concerning the above or would like to discuss in greater detail please contact me directly by telephone at (403) 292-8675 by email at Robert.Bedingfield@dfo-mpo.gc.ca

Sincerely,



Bobby Bedingfield
Fish Habitat Biologist
Eastern Arctic Area, Iqaluit Office

cc. Derrick Moggy, DFO Eastern Arctic
 Sophia Granchinho, Nunavut Impact Review Board
 Allison Rippin-Armstrong, Environmental and Permitting, Shear Diamonds