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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI

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Oct. 16, 2006

Mayor Derrick Power  
Hamlet of Kugluktuk  
P. O. Box 271  
Kugluktuk, Nunavut X0B 0E0

**Subject: 2004 Water Sampling Results**

Dear Mayor Derrick Power,

The **Nunavut Water Board** (NWB) has reviewed the 2004 Water Sampling Results, which is to fulfill the requirements of **Part H Item 2**, water licence **NWB3KUG0308**.

The **NWB** would like to point the hamlet to **Environmental Canada (EC)** December 2<sup>nd</sup>, 2005 intervener statement regarding 2004 Annual Report. In the statement, David W. Abernethy requested that the sample results for months of May and July be submitted for review, and recommended that the correct monitoring timeline (May to August) be followed in the future. EC also pointed out that the September analyses did not test total phenols and oil and grease concentrations. The NWB requests that the Hamlet submit sampling results according to the water licence requirements of monitoring timeline and parameters.

The **NWB** understands that the concentrations of Fecal Coliforms, BOD<sub>5</sub> and TSS of most samples are much lower than the effluent discharge limits of the water license **NWB3KUG0308** except one sample at SNP KUG-2 on October 14<sup>th</sup>. The **NWB** would like to point out that the sampling date in August is unknown, and the mercury concentration at SNP KUG-2 in August was 0.04 µg/L, which may exceed the CCME guidelines (Canadian Water Quality Guidelines for the Protection of Aquatic Life) for Mercury (inorganic), i.e. 0.026 µg/L for freshwater and 0.016 µg/L for marine, which may impact the aquatic life. The **NWB** also notes that the chromium concentrations on October 14<sup>th</sup> at SNP KUG-2 and KUG-4 were 5.7 µg/L and 2.5 µg/L, respectively, which may exceed the CCME guidelines (Canadian Water Quality Guidelines for the Protection of Aquatic Life) for Hexavalent Chromium (Cr(VI)), i.e. 1.0 µg/L for freshwater and 1.5 µg/L for marine. The **NWB** request that the Hamlet closely monitor the water quality at SNP KUG-2 and KUG-4 and submit annual monitoring results in time, and recommends that the Hamlet add Hexavalent Chromium (Cr(VI)) and Mercury (inorganic) into the parameter measurement list.



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The NWB has yet to receive the report for 2005 Water Sampling Results and request that it is provided immediately.

If you require assistance whatsoever please feel free to contact the undersigned at (867) 360-6338ext.27 or [tech4@nwb.nunavut.ca](mailto:tech4@nwb.nunavut.ca) .

Sincerely,

Zhong Liu  
Technical Advisor

Encl. EC letter dated December 2, 2005