



Environment Canada **Environnement Canada**

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Via Email

Re: NWB3KUG0308 – Hamlet of Kugluktuk – 2004 Annual Report

On behalf of Environment Canada (EC), I have reviewed the above mentioned application. The following specialist advice has been provided pursuant to Environment Canada's mandated responsibilities for the enforcement of the *Canadian Environmental Protection Act*, Section 36(3) of the *Fisheries Act*, the *Migratory Birds Convention Act*, and the *Species at Risk Act*.

The Hamlet of Kugluktuk has submitted an Annual Report for 2004 which presents information concerning its municipal water supply and waste disposal facilities in accordance with its water licence requirements. The report states that 39,500 m³ of freshwater was consumed by Kugluktuk residents from the Coppermine River for municipal undertakings, an amount that is well within the 64,000 m³ limit set in their hamlet's water licence. The quantity of discharged sewage waste was not metered. The Hamlet has reported that 45,424 m³ of sewage waste was discharged by taking the value of consumed freshwater increased by 15%. It is not uncommon for Hamlets to substitute the value of consumed freshwater for the quantity of sewage waste.

As a component the Hamlet's licence, a Monitoring Program must assess the impacts received by the freshwater aquatic environment (surface and groundwater) from municipal undertakings. Data is gathered from four monitoring stations and is submitted for review with Annual Reports. The monitoring stations record the raw water supply prior to treatment (station KUG-1), effluent quality from the solid waste containment area's final discharge points (KUG-2), raw sewage at the truck offload point (KUG-3), and the total quantity of sewage disposal (KUG-4).

The raw water supply prior to treatment (KUG-1) and the raw sewage at the truck offload point (KUG-3) are to be recorded in monthly and annual quantities. Effluent discharged from the final discharge points of the solid waste (KUG-2) and sewage disposal (KUG-4) facilities are to be sampled on a monthly basis during the months of May to August. Their samples must be analyzed according to a set of parameters provided in the licence.



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The Hamlet has submitted the KUG-2 and KUG-4 sample results for the months of June, August, September, and October 2004. If available, EC requests that the sample results for the months of May and July be submitted for review. If these samples have not been taken EC recommends that the correct monitoring timeline be followed in the future. Furthermore, the September analyses for these two monitoring stations did not test total phenols and oil and grease concentrations. Environment Canada requests that the licensee carefully review the parameters to be monitored in future Monitoring Program submissions.

If there are any changes in the proposed project, EC should be notified, as further review may be necessary. Please do not hesitate to contact me if you have any questions or comments with regards to the foregoing at (867) 975-4631 or by email via david.abernethy@ec.gc.ca.

Regards,

David W. Abernethy
Environmental Assessment Technician

Cc: Colette Spagnuolo (Environmental Assessment and Contaminated Sites Specialist)