

## **SUMMARY OF COMMENTS/RECOMMENDATIONS**

**PROPONENT:** Department of Aboriginal and Northern Affairs  
**PROPOSAL NAME:** Island Lake Community Sewage Treatment Plant  
**CLASS OF DEVELOPMENT:** 2  
**TYPE OF DEVELOPMENT:** Waste/Scrap Wastewater Treatment Plant  
**CLIENT FILE NO.:** 2706.10

### **OVERVIEW:**

On April 27, 2000, the Department received a Proposal from the Department of Aboriginal & Northern Affairs to replace the Island Lake Community sewage treatment plant by constructing a new extended aeration sewage treatment plant with a ultra violet light (UV) disinfection system and converting the existing plant into a aerobic sludge digester and dewatering facility. The sewage treatment plant will be located on Stevenson Island adjacent to the existing treatment plant.

On May 4, 2000, the Department placed copies of the Proposal in the Public Registries located at 123 Main St. (Union Station), the Centennial Public Library and the Island Lake Community Council office. As well, copies of the Proposal were provided to the Interdepartmental Planning Board and TAC members. The Department placed a public notification of the Proposal in Grassroots News on May 16, 2000. The newspaper and TAC notification invited responses until May 31, 2000.

### **COMMENTS FROM THE PUBLIC:**

- No responses were received to the public notification.

### **COMMENTS FROM THE TECHNICAL ADVISORY COMMITTEE:**

#### **Highways**

- *No comment.*

#### **Policy Coordination Branch**

- *No comment.*

#### **Historic Resources**

- *No concerns.*

#### **Intergovernmental Affairs**

- *No comment.*

### **Health**

- *No comment.*

### **Environment-Operations Division**

- *Dewatered sludge should be disposed of in a registered waste disposal ground*
- *The flow equalization tank could become overwhelmed if three truck hauls occur over a short period. Should a minimum time period between truck haul loads be established?*
- *UV disinfection systems in Northern Manitoba have not been universally successful. The treatment plant should include a backup disinfection chlorinator.*

#### Disposition:

- The draft Licence requires that the dewatered sludge be disposed of at a landfill.
- The draft Licence includes organic and hydraulic loading limits on the sewage treatment plant. The proponent has overstated the septage treatment capacity of the facility based on established design criteria (no site-specific data was provided on organic strength of septage). The proponent advised that septage would be hauled with a small tank trailer pulled by an ATV. The volume of the tank was estimated to be 200 gal. Based on this information, the problems associated with slug loading from septage hauling should be preventable. The underestimation of the organic load from septage should be accommodated in the excess organic treatment capacity of the new treatment plant.
- The draft Licence includes microbiological limits. The department does not specify the method of treatment or treatment processes that must be used. The proponent has selected a UV disinfection process and has advised the department that a conservative design approach was taken to ensure that effective treatment. UV systems are in use throughout North America and have provided effective treatment if properly designed and maintained. If the design of the disinfection system does not meet the requirements of the Licence, enforcement procedures should be followed to require system improvements.
- Chlorination of wastewater is not recommended due to toxicity related concerns.

### **Water/Terrestrial Quality Management**

- *Is the effluent discharged at the shoreline or is it piped out to deeper water?*
- *Will the disposal of sludge bags in a landfill require a separate Environment Act Licence?*
- *The negative impacts to the Garden Hill drinking water supply are highly unlikely, given the ratio of volume of receiving water to effluent. However, a water quality monitoring program should be considered at least for an initial period following the upgrading of the wastewater treatment plant to ensure that the effluent is not impacting the drinking water supply.*

Disposition:

- The effluent is piped out into deeper water for discharge.
- Disposal of sludge at an approved landfill will not required a separate licence. Requirements for sludge disposal are included in the draft Licence.
- The proposed wastewater treatment plant will replace the existing treatment plant. It will be located adjacent to the existing plant. The existing treatment plant has been operating since 1971. Based on the dilution available in the receiving waterway, the general direction of flow in the area and the monitoring of potable water supplies, a regular effluent monitoring program has been recommended in the draft Licence.

**Canadian Environmental Assessment Agency**

- *The application of the Canadian Environmental Assessment Act with respect to this proposal will not be required.*

**PUBLIC HEARING:**

A public hearing is not required.

**RECOMMENDATION:**

The Proponent should be issued a Licence, in accordance with the attached draft, to operate the sewage treatment plant. Enforcement of the Licence should be assigned to the Northern Region.

PREPARED BY:

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