

## **SUMMARY OF COMMENTS/RECOMMENDATIONS**

**PROPONENT:** Rural Municipality of St. Clements  
**PROPOSAL NAME:** Lockport Wastewater Treatment Plant  
**CLASS OF DEVELOPMENT:** 2  
**TYPE OF DEVELOPMENT:** Sewage Treatment Plant  
**CLIENT FILE NO.:** 4137.00

### **OVERVIEW:**

The Department received, on February 29, 1996, a Proposal dated February 28, 1996. IDG. Stanley Inc. submitted the Proposal on behalf of the proponent, Rural Municipality of St. Clements, to construct and operate a new wastewater treatment plant consisting of raw wastewater pumps, grit removal, flow equalization tank, sequencing batch reactors, and ultraviolet light disinfection. IDG Stanley advised, on June 14, 1996, that an equalization basin is not required by the treatment system selected. Screenings and grit produced during plant operation will be hauled to a landfill. Waste activated sludge will be stored in an aerated tank and periodically hauled for disposal at the City of Winnipeg North End Water Pollution Control Centre. The Proponent proposes to locate the plant within the road allowances and the south berm of the Red River Floodway. The Proponent proposes a 150 mm gravity effluent outfall pipe into the Red River. The effluent outfall is proposed to extend approximately 20 metres into the river.

The Department, on March 4, 1996, placed copies of the Proposal in the Public Registries located at Building 2, 139 Tuxedo Avenue; the Centennial Public Library; and the Selkirk Community Library and provided copies of the Proposal to the Interdepartmental Planning Board and TAC members. As well, the Department place public notification of the Proposal in the Selkirk Journal on Monday, March 11, 1996. The newspaper and TAC notification invited responses until April 4, 1996.

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

No responses were received from citizens regarding, the development, emissions or their environmental implications.

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

#### **Rural Development**

- No response received.

#### **Natural Resources**

- The proponent's consultant has stated that Manitoba has agreed in principle to sell a portion of the floodway land to the municipality pending Environment Act approval. The proposed location for the treatment plant and lift station is part of the floodway berm and cannot be sold. It may be possible for the municipality to get authorization

to locate the plant on the berm but the Water Resources Branch should be contacted to confirm this before proceeding further with this proposal.

- Consideration should be given to the cumulative impact of future effluent discharges on the Red River and the option of establishing an artificial wetland in conjunction with the treatment plant.

Disposition:

The Consultant was advised of these requirements.

- The consultant supplied, on January 2, 1997, a letter from Natural Resources and copies of temporary Authorization Permits and advised that Lands Branch was proceeding with the documentation required to sell the land to the R. M. of St. Clements.
- The impacts associated with the plant are considered negligible.

#### **Agriculture**

- No response received.

#### **Highways**

- The Rural Municipality will be required by the Department Of Highways to enter into an “Agreement for Installations Under Provincial Highways” for the proposed wastewater installations under PTH 44 and PR 204.

Disposition:

The Consultant was notified of these requirements.

- The Consultant will contact Highways directly.

#### **Historic Resource**

- The Branch may have concerns with the plant and lift station and the proposed outfall depending on their location relative to the floodway berm. The Branch’s Impact Assessment Archaeologist will examine these areas as soon as field conditions permit to determine if any significant heritage resources are present.

Disposition:

- Historic Resources Branch completed its field examination in the spring of 1996. As a result of the examination Historic Resources Branch reported, on June 25, 1996, that they had no further concerns with the development.

#### **Industry Trade & Tourism**

- No response received.

#### **Health**

- No response received.

#### **Labour**

- No response received.

### **Sustainable Development Unit**

- No response received.

### **Urban Affairs**

- A response indicating no concerns was received.

### **Environmental Quality Management**

#### **Air Quality Management**

- The Department's odour nuisance clause be included in the *Environment Act* Licence Disposition
- Odour nuisance clause included in draft licence.

#### **Water Quality Management**

- Ammonia levels are exceeded downstream of Winnipeg as a result of discharges from the City of Winnipeg sewage treatment plants, however, this additional input will not significantly deteriorate water quality condition near Lockport.
- Since ultraviolet light is being used as the method of disinfection, we do not have any concerns pertaining to disinfection by-products affecting aquatic life in the Red River.
- An effluent monitoring program should be conducted by the proponent for a period of time sufficient to evaluate whether the plant is operating according to specification. This monitoring should include as a minimum: BOD, Fecal Coliform and NH<sub>3</sub>

#### Disposition

- Effluent monitoring requirements are included in the draft licence.

### **Environmental Operations**

- The part of the report dealing with future expansion, in relation to the possible tying in of sewage generated from the Melody Lane Trailer Park and Gaffers is unclear and should be clarified
- Flow equalization is provided with a capacity of 25 cubic metres. This is 13% of average flow and 5% of peak flow which appears to be somewhat low compared to normal design values. Departmental experience with other SBR's is that flow equalization is very important in the system to allow consistent production of proper effluent quality. It is particularly important where truck haul is allowed to dampen the organic shock loading that is bound to occur.
- The feasibility report notes that the lift station would have the same pump size if Area 3 was serviced but would have additional volumetric capacity. Area 3 may not be serviced at this time, however, the lift station would be capable of handling this future load if it was designed with the extra capacity at this stage.
- The sewage outfall should be placed in a location so that it does not impact fish spawning. Consideration should be given to the cumulative organic loading of the Red River in the Lockport area.

Disposition:

The Consultant was notified of these comments.

The consultant responded that :

- The owners of Gaffers and Melody Lane Trailer Park declined to become participants in the proposed system.
- The SBR system proposed is a continuous flow, intermittent decant SBR system which does not require a flow equalization basin.
- When additional areas are serviced the lift station will be increased to accommodate these flows.
- The outfall placement and impacts on fish have been considered in the design. Construction is to take place after spawning.

**Canadian Environmental Assessment Agency**

Western Economic Diversification will be conducting an environmental assessment under *The Canadian Environmental Assessment Act*.

- Fisheries and Oceans and The Canadian Coast Guard requested further information respecting construction of the outfall line.

Disposition

- Western Diversification will follow-up these requests under the CEAA review.

**PUBLIC HEARING:**

- None recommended

**RECOMMENDATION:**

The attached draft licence be circulated to TAC and the Proponent. Enforcement of the final Licence should be transfer to the Region at the time the Licence is issued.

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