

## **SUMMARY OF COMMENTS/RECOMMENDATIONS**

**PROPONENT:** Village of Crystal City  
**NAME OF DEVELOPMENT:** Crystal City Wastewater Stabilization Pond  
**CLASS OF DEVELOPMENT:** Two  
**TYPE OF DEVELOPMENT:** Wastewater Treatment Lagoon  
**CLIENT FILE NO.:** 72.10

### **OVERVIEW:**

The Proposal was received on June 4, 2009. It was dated April 28, 2009. The advertisement of the proposal was as follows:

“A Proposal has been filed by GENIVAR on behalf of the Village of Crystal City for the rehabilitation, expansion and continued operation of the Crystal City wastewater treatment lagoon in NW 24-2-12W, a short distance west of the village. The project involves the construction of a new clay lined secondary cell west of the existing facility, and the reconstruction and relining of the two existing cells with a synthetic liner to prevent seepage. A truck dumping station would be constructed at the reconstructed primary cell to accommodate truck hauled wastewater. Treated effluent from the upgraded facility would continue to be discharged to a drain which is a tributary to Crystal Creek, with discharges during the period June 15 to October 31. Construction of the upgrades to the facility is expected to occur in 2010.”

The Proposal was advertised in the Pilot Mound Sentinel-Courier on Tuesday, August 4, 2009. It was placed in the Main, Millennium Public Library (Winnipeg), Eco-Network, and South Central Regional Library (Morden) public registries and in the Village of Crystal City office as a public registry location. The Proposal was distributed to TAC members on July 30, 2009. The closing date for comments from members of the public and TAC members was August 31, 2009.

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

No public comments were received.

### **COMMENTS FROM THE TECHNICAL ADVISORY COMMITTEE (TAC):**

#### **Manitoba Conservation – Sustainable Resource and Policy Management**

No concerns.

#### **Manitoba Conservation – Environmental Operations**

No concerns.

### **Manitoba Conservation – Environmental Services**

Environmental Services has reviewed the EAP submitted by Genivar dated April 2009 regarding the subject project. The following items were noted in the review of the proposal:

1. In Table 5.3, the cell bottom, liquid surface level and type of dyke on the proposed cell construction should be defined the same as the drawings.
2. Synthetic liners in manure storage applications require a minimum anchor trench width of 450 mm and depth of 450 mm, I would recommend the same standards are applied to this facility for wastewater.

Disposition:

The information in Table 5.3 of the Proposal likely contains a cut and paste error. The correct values are as noted in the plans. The recommendation concerning the liner anchor trench will be forwarded to the consultant for information, and considered in the development of new wastewater treatment lagoon design guidelines by the Department.

### **Manitoba Conservation – Parks and Natural Areas Branch**

No comments.

### **Manitoba Conservation – Wildlife and Ecosystem Protection Branch**

No comments or concerns.

### **Manitoba Water Stewardship**

Manitoba Water Stewardship has reviewed the referenced file, forwarded for comment on July 30, 2009. The Department has the following comments:

- In section 5.2.4, page 22, of the Environment Act Proposal, it is noted that all new ditches less than 0.3 metres will not activate a provincial drainage licensing process. The aforementioned statement is not correct. All new drainage channels, regardless of their depth, require licensing under The Water Rights Act.
  - The Department recommends that an Environment Act Licence include the following requirement:
    - Prior to beginning construction of the proposed development, the proponent is required to submit an application for a Water Rights Licence to Construct Water Control Works, including the submission of an engineered drainage plan, prepared by a Professional Engineer, registered to practice in the Province of Manitoba.
- A contact person is Mr. Ed MacKay, C.E.T., Senior Water Resource Officer, Water Control Works and Drainage Licensing, Manitoba Water Stewardship, 1129 Queens

Avenue, Brandon, Manitoba R7A 1L9, telephone: (204) 726-6226, email: ed.mackay@gov.mb.ca.

- The proponent needs to be informed that if the proposal in question advocates any construction activities, erosion and sediment control measures should be implemented until all of the sites have stabilized.

Disposition:

This information was forwarded to the proponent's consultant.

Manitoba Water Stewardship provided further comments on the proposal on September 10, 2009:

- The Lake Winnipeg Stewardship Board has recommended that all small wastewater treatment facilities, including municipal lagoons, should meet a phosphorus limit of 1.0 mg/L. The proposed phosphorus limit of 1.0 mg/L is consistent with efforts underway across Manitoba and in upstream jurisdictions to reduce nutrient loads to Lake Winnipeg and its watershed. In the Lake Winnipeg Stewardship Board's December 2006 report to the Minister of Water Stewardship, the Board provides several strategies on how nutrient reduction could be achieved for small wastewater treatment facilities (see recommendations 14-20).
- The proponent has not indicated the length of discharge time. Recommend the license include at least two (2) week discharge length.
- On Page 18, 5.2.1 the proponent states "Any sludge in the existing cell will be incorporated with the topsoil to be placed on the interior of the cell dykes upon completion and covering of the liner." This appeared unusual, is this a standard practice?
- The Water Quality Management Section is concerned with any discharges that have the potential to impact the aquatic environment and/or restrict present and future uses of the water. Therefore it is recommended that the license require the proponent to actively participate in any future watershed based management study, plan/or nutrient reduction program, approved by the Director.

Disposition:

With respect to the first comment, a phosphorus limit on a facility of this size is not appropriate at this time. The comment concerning discharge length of time can be addressed as a licence condition. Sludge incorporation inside a reconstructed wastewater treatment lagoon is a standard practice. The final comment respecting participation in a watershed based study, plan or program can be addressed through a standard licence condition.

No concerns. If at any time however, significant heritage resources are recorded in association with these lands during development, the Historic Resources Branch may require that an acceptable heritage resource management strategy be implemented by the developer to mitigate the affects of development on the heritage resources.

Disposition:

This information was provided to the proponent's consultant.

**Mines Branch**

No concerns.

**Manitoba Infrastructure and Transportation – Highway Planning and Design Branch**

No concerns.

**Manitoba Intergovernmental Affairs – Community Planning Branch**

No concerns.

**Canadian Environmental Assessment Agency**

I have completed a survey of federal departments with respect to determining interest in the project noted above. I can confirm that the project information that was provided has been forwarded to federal departments with a potential interest. Based on the responses of the survey, application of the Canadian Environmental Assessment Act (the Act) will not be required for this project. Please note that Health Canada may provide expert advice on certain topics regarding this project if specifically requested (see attached letter).

**ADDITIONAL INFORMATION:**

No additional information was needed to address TAC comments.

**PUBLIC HEARING:**

As no requests for a public hearing were made, a public hearing is not recommended.

**RECOMMENDATION:**

All comments received on the Proposal have been addressed by providing information to the proponent's consultants, or can be been addressed through licence requirements. Therefore, it is recommended that the Development be licensed under The

Environment Act subject to the limits, terms and conditions as described on the attached Draft Environment Act Licence.

It is further recommended that enforcement of the Licence be assigned to Environmental Assessment and Licensing until construction of the wastewater treatment lagoon is completed. Enforcement of the licence then should be assigned to the Central Region.

Prepared by:

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Bruce Webb, P. Eng.

Environmental Assessment and Licensing - Land Use Section

(for Municipal, Industrial and Hazardous Waste Section)

September 9, 2009 Updated November 30, 2009

Telephone: (204) 945-7021

Fax: (204) 945-5229

E-mail: [bruce.webb@gov.mb.ca](mailto:bruce.webb@gov.mb.ca)