



Sustainable Development

Environmental Stewardship Division
Environmental Approvals Branch
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File No. 75.10

June 19, 2019

Shannon Gaultier, CMMA, Chief Administrative Officer
Municipality of Lorne
Box 10, 307-3rd Street
Somerset, MB R0G 2L0
Email: rmlorne@mymts.net

Dear Shannon Gaultier:

**Re: Municipality of Lorne – Village of Somerset Wastewater Treatment Lagoon –
Minor Alteration Approval - Environment Act Licence No. 813**

I am responding to the September 6, 2018 Notice of Alteration request, submitted by you, relative to a request for alteration to Environment Act Licence No. 813 (Licence), originally issued for the operation of the Development being a wastewater treatment lagoon located on portions of NW 20-5-9 WPM in the Municipality of Lorne. The submission is considered a Notice of Alteration (NoA) pursuant to Section 14 of The Environment Act.

The intent of the NoA is to change the discharge window from April 2nd - May 31st of any year to June 15th - October 31st of any year. As previously communicated to you, current wastewater effluent standards for wastewater treatment facilities do not include a total coliform limit to be met before the treated effluent is discharged.

Upon review of the NoA, I am satisfied that the identified changes in the environmental effects as would result from the proposed alterations will be insignificant as the proposed discharge window will be outside the fish spawning season. Therefore, pursuant to Section 14(2) of The Environment Act, I amend Clauses 1 and 2 of the Licence, and replace Clause 3 of the Licence as follows:

Respecting Operation

1. The Licencee shall maintain and operate the wastewater treatment lagoon in such a manner that :
 - a) the Licencee shall not cause or permit an odour nuisance to be created as a result of the construction, operation or alteration of the Development, and shall take such steps as the Director may require to eliminate or mitigate an odour nuisance;
 - b) the Licencee shall not cause or permit groundwater contamination and the alteration of adjacent soil conditions;
 - c) the organic loading on the primary cell, as indicated by the five-day biochemical oxygen demand, is not in excess of 56 kilograms per hectare per day;

- d) the depth of liquid in the primary cell and the secondary cell does not exceed 1.5 metres; and
 - e) a 1.0 metre freeboard is maintained in the primary cell and the secondary cell at all times.
2. a) The Licencee shall not discharge effluent from the wastewater treatment lagoon:
- i. where the organic content of the effluent, as indicated by the five day carbonaceous biochemical oxygen demand, is in excess of 25 milligrams per litre;
 - ii. where the fecal coliform content of the effluent, as indicated by the MPN index, is in excess of 200 per 100 millilitres of sample;
 - iii. where the total suspended solids content of the effluent is in excess of 25 milligrams per litre;
 - iv. where the unionized ammonia content of the effluent is in excess of 1.25 milligrams per litre expressed as nitrogen (N), at $15^{\circ}\text{C} \pm 1^{\circ}\text{C}$;
 - v. between the 1st day of November of any year and the 15th day of June of the following year;
 - vi. when flooding from any cause is occurring along the effluent drainage route; or
 - vii. when such a discharge would cause or contribute to flooding in or along the effluent drainage route.
- b) The Licencee shall, when chlorine is used as a disinfecting agent:
- i. notify the Director in advance;
 - ii. dechlorinate effluent prior to discharge;
 - iii. obtain grab samples prior to and daily during the discharge period and have them analyzed for total residual chlorine; and
 - iv. not discharge effluent where the concentration of the total residual chlorine is in excess of 0.02 milligrams per litre.

Respecting Monitoring and Reporting

3. a) The Licencee shall, prior to each effluent discharge campaign, obtain grab samples of the treated wastewater and have them analyzed for:
- i. the organic content as indicated by the five-day carbonaceous biochemical oxygen demand and expressed as milligrams per litre;
 - ii. the total suspended solids content expressed as milligrams per litre;
 - iii. the fecal coliform content as indicated by the MPN index and expressed as MPN per 100 millilitres per sample;
 - iv. the total phosphorus content expressed as milligrams per litre; and
 - v. the unionized ammonia nitrogen expressed as milligrams per litre.
- b) The Licencee shall immediately notify the Director each time the operating depth of any cell of the wastewater treatment lagoon does not comply with the maximum operating depth and minimum freeboard requirements for that cell as specified in Clause 1 of this Licence.
- c) The Licencee shall during each year maintain the following records and retain them for a minimum period of five calendar years:
- i. reports of visual inspections conducted a minimum of once per month;
 - ii. wastewater sample dates;
 - iii. original copies of laboratory analytical results of the sampled wastewater;

- iv. a summary of laboratory analytical results;
- v. cell isolation dates (i.e., valve operation records);
- vi. effluent discharge dates;
- vii. estimated effluent discharge volumes;
- viii. maintenance and repairs;
- ix. expansions to the collection system with associated capacity assessment;
- x. updated organization charts identifying all certified operators, including backup operators; and
- xi. a summary of any wastewater collection system overflows sanitary sewer overflows/combined sewer overflows.

d) The Licencee shall submit an annual report to the Environment Officer by February 28 of the following year including all records required by Clause 3(c) of this Licence.

This approval is contingent on your receiving an updated Environment Act Licence to be issued in the near future.

Should you have any questions concerning this approval, please contact Asit Dey, Environmental Engineer at (204)945-2614 or at asit.dey@gov.mb.ca.

Yours sincerely,



Cordella Friesen
Director
The Environment Act

- c: Mark Van den Bussche, Operator, The Municipality of Lorne
Scott Davies/Yvonne Hawryliuk/Tyler Kneeshaw, Environmental Compliance and Enforcement
Asit Dey, Environmental Approvals Branch
Public Registries