

# Environment Act Licence

Manitoba  
Environment and  
Workplace Safety  
and Health



Licence No. 1255

Issue Date MARCH 7, 1989

In accordance with the Manitoba Environment Act (C.C.S.M. c. E125)

THIS LICENCE IS ISSUED TO:

**JAMES VALLEY HUTTERIAN MUTUAL CORPORATION; APPLICANT**


The following limits, terms, and conditions shall be complied with in connection with the construction and operation of a wastewater collection system and a wastewater treatment lagoon located on the southeast quarter of Section 14-10-3 WPM in the Rural Municipality of Carleton Place and with discharge of treated effluent to Scott Coulee that discharges into the LaSalle River or by irrigation onto agricultural land.

1. The applicant shall ensure that all domestic sewage generated within the farm site is directed toward the wastewater treatment lagoon.
2. The applicant shall ensure that no livestock waste is directed toward the wastewater treatment lagoon.
3. The applicant shall not discharge effluent from the wastewater treatment lagoon:
  - (a) where the organic content of the effluent, as indicated by the five day biochemical oxygen demand, is in excess of 30 milligrams per litre;
  - (b) where the fecal coliform content of the effluent, as indicated by the MPN index, is in excess of 200 per 100 millilitres of sample;
  - (c) where the total coliform content of the effluent, as indicated by the MPN index, is in excess of 1500 per 100 millilitres of sample;
  - (d) when flooding from any cause is occurring along the drainage route;
  - (e) when it will cause or contribute to flooding in or along the drainage route.
4. The applicant shall not discharge effluent from the wastewater treatment lagoon to the Scott Coulee drain between the 1st day of June of any year and the 30th day of April of the following year unless prior approval is given by the Director.

5. The applicant shall operate and maintain the wastewater treatment lagoon in such a manner that:
- (a) the release of offensive odours is minimized;
  - (b) the organic loading on the primary cell of the sewage lagoon system, as indicated by the five day biochemical oxygen demand, is not in excess of 56 kilogram per hectare per day;
  - (c) the depth of sewage in the primary cell does not exceed 1.5 metres.
6. The applicant shall ensure that when effluent is disposed of by irrigation:
- (a) effluent is only discharged to irrigate:
    - (i) actively growing cereal, forage or oil seed crops;
    - (ii) grassland which will not be utilized for grazing:
      - A. by dairy cattle for at least 30 days after effluent is applied;
      - B. by livestock other than dairy cattle for at least 7 days after effluent is applied;
    - (iii) agricultural crops where irrigation does not take place during or for at least 7 days prior to harvesting of the crops;
  - (b) when corn is grown it is used solely for making silage; during 10 continuous hours in every 24-hour period, no application of effluent takes place;
  - (d) if ponding or surface run off occurs during irrigation the gross depth of effluent applied during any application of effluent shall be reduced.

7. The applicant shall, in case of physical or mechanical breakdown of the wastewater collection and/or treatment system:
  - (a) notify the Director immediately;
  - (b) identify the repairs required to the wastewater collection and/or treatment system;
  - (c) complete the repairs in accordance with the written instructions of the Director.
8. The applicant shall prior to the construction of dykes for the wastewater treatment lagoon:
  - (a) remove all organic top soil from the area where the dykes will be constructed, or,
  - (b) remove all organic material to a depth of 0.3 metres and a width of 1.0 metres from the area where the dyke will be built, provided all the lagoon dykes are lined with clay or other suitable material as required by Clause 9 to a minimum thickness of one metre measured perpendicular to the face of the side wall.
9. The applicant shall construct the wastewater treatment lagoon with clay or other suitable material such that all interior surfaces of the lagoon structure are underlain with a minimum of 1.0 metres of soil having a hydraulic conductivity of 1 x 10<sup>-6</sup> centimetres per second or less.
10. The applicant shall arrange with the designated Environment Officer a mutually acceptable time and date for any required soil sampling between the 15th day of May and the 1st day of November of any year, unless prior approval, by the Director, is given.
11. The applicant shall either:
  - (a) subject undisturbed soil samples from each cell of the completed wastewater treatment lagoon to hydraulic conductivity tests, the number and location of samples to be specified by an Environment Officer up to a maximum of twenty samples; or,

- (b) where undisturbed soil samples cannot be taken, test the soil of 4 plane surfaces of the wastewater treatment lagoon for hydraulic conductivity by an insitu field test method as prescribed by the designated Environment Officer.
12. The applicant shall, not less than 2 weeks before the wastewater treatment lagoon is placed in operation, submit to the Director the results of the tests carried out pursuant to Clause 11.
13. The applicant shall install a fence around the wastewater treatment lagoon to limit access by the public.

  
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Carl Orcutt  
Director  
Environmental Control Services