

Environment Act Licence

Manitoba
Environment



Licence No. 1365
Issue Date MAY 9, 1990

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

THIS LICENCE IS ISSUED TO:

CROSSROADS CHRISTIAN COMMUNICATIONS LTD.; APPLICANT

(CIRCLE SQUARE RANCH)

The following limits, terms, and conditions shall be complied with in connection with the operation of a wastewater treatment lagoon located on SW 1/4 Section 20-9-10 WPM and with discharge of treated effluent onto agricultural land located on the said property:

1. The Applicant shall ensure that all sewage generated within the camp site is directed toward the wastewater treatment lagoon.
2. 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) between the first day of November of any year and the 15th day of May of the following year, unless prior approval is given by the Director.
3. The Applicant shall not discharge effluent from the primary cell of the wastewater treatment lagoon, except to the secondary cell of the lagoon.

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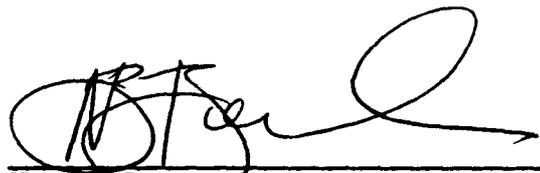
4. The Applicant shall operate and maintain the wastewater treatment lagoon in such a manner that:
 - (a) the release of offensive odours is minimized;
 - (b) the organic loading on the primary cell of the sewage lagoon system, as indicated by the five day biochemical oxygen demand, is not in excess of 56 kilograms per hectare per day;
 - (c) the depth of sewage in the primary cell does not exceed 1.5 metres.
5. The Applicant shall discharge effluent from the wastewater treatment lagoon only onto lands owned or lawfully controlled by the Applicant.
6. The Applicant shall not discharge effluent within 300 metres of any dwelling not owned or lawfully controlled by the Applicant.
7. The Applicant shall not discharge effluent within 60 metres of any property boundary, surface watercourse or groundwater well.
8. The Applicant shall carry out the irrigation with effluent in such a manner that:
 - (a) effluent is only discharged to irrigate;
 - (i) stubble fields, or worked stubble fields in the fall after the growing season has ended; or,
 - (ii) cultivated summerfallow fields; or,
 - (iii) grasslands which will not be utilized for hay, grazing or similar use during or for at least:
 - A. 30 days prior to grazing by dairy cattle;
 - B. 7 days prior to grazing by livestock other than dairy cattle; or,
 - (iv) agricultural crops where:
 - A. irrigation does not take place during or for at least 7 days prior to harvesting of the crops;

- B. forage crops, cereals grain or oil seed crops are grown on effluent irrigated lands provided that where corn is grown it is used solely for silage;
 - (b) if surface ponding or surface runoff occurs during irrigation the gross depth of effluent applied during any application of effluent shall be reduced;
 - (c) no application of effluent takes place during not less than 10 continuous hours in every 24-hour period.
9. 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.
10. The Applicant shall install and maintain a 1.5 metre high barbed wire fence, with a minimum of 6 evenly distributed strands of wire around the wastewater treatment lagoon to limit access.
11. The Applicant shall regulate the growth of vegetation on the dykes of the wastewater treatment lagoon and the immediate area so that the height of the vegetation does not exceed 15 centimetres from the ground surface.
12. The Applicant shall:
- (a) construct each cell of the wastewater treatment lagoon with a continuous impermeable polyvinyl chloride (PVC) liner with a minimum thickness of 0.5080 millimeter (20 mil);

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- (b) cover the PVC liner with a minimum of 200 millimetres of clean sand;
 - (c) notify the designated Environment Officer not less than 7 days prior to commencing the installation of the PVC liner.
13. This Licence replaces Licence No. 1197 which is hereby rescinded.



**Norman R. Brandson
Director
Environmental Management Services**

FILE NO: 2910.10