

Environment Act Licence

Manitoba
Environment



Licence No. 1553

Issue Date MAY 12, 1992

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

THIS LICENCE IS ISSUED TO:

RURAL MUNICIPALITY OF MACDONALD; "the Licencee"

for the construction and operation of the Development being the construction of a new primary cell and the conversion of the existing primary cell to a secondary cell to be located in the south half of Section 27, Township 8 Range 2 EPM in the Rural Municipality of Macdonald, serving the unincorporated village of La Salle, with discharge of treated effluent via an open ditch along P. R. 247, to the La Salle River, and subject to the following specifications, limits, terms and conditions:

DEFINITIONS

In this Licence,

"Five-day Biochemical Oxygen Demand" means that part of oxygen demand usually associated with biochemical oxidation of organic material within 5 days at 20° C.

"MPN Index" means the most probable number of coliform organisms in a given volume of wastewater as determined by statistical estimation.

"Hydraulic Conductivity" means the velocity of flow through the soil.

"in-situ" means on site.

"Director" means the Director, Environment Act

"DPD method" means the diethyl-p-phenylenediamine colorimetric method of determining chlorine residuals in accordance with the most recent version of the Standard Methods For the Examination of Water and Wastewater.

GENERAL SPECIFICATIONS

1. The Licencee shall ensure that all sewage generated within the unincorporated village of La Salle is directed towards the primary cell of the wastewater treatment lagoon, and shall construct, maintain and operate the said wastewater treatment lagoon in such a manner as to minimize the release of offensive odours.
2. The Licencee shall, upon the completion of construction of the primary cell, and prior to the placing of the cell in operation, install a fence around the sewage lagoon facility to limit access.

LIMITS, TERMS AND CONDITIONS

3. The Licencee shall not permit the organic loading on the primary cell of the said wastewater treatment lagoon, in terms of five-day biochemical oxygen demand, to exceed 56 kilograms per hectare per day.
4. The Licencee shall not permit the depth of sewage in the primary cell of the said wastewater treatment lagoon to exceed a depth of 1.5 metres.
5. The Licencee 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 of sample;
 - (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) where a residual chlorine content is detectable in the effluent by the DPD method;
 - (e) at any time between the first day of November of any year and the 15th day of May of the following year;
 - (f) when flooding from any cause is occurring along the effluent discharge route; or
 - (g) when such discharge causes or contributes to flooding in or along the effluent discharge route.
6. The Licencee shall ensure that there is no ponding of effluent along the effluent discharge route.
 7. The Licencee shall provide a minimum of seven days notice to the Manitoba Department of Highways of a proposed discharge of treated effluent into the open ditch along R.R. 247.
 8. The Licencee shall, prior to the placing of the new primary cell in operation, remove a minimum of one-third of the length of the embankment separating the existing primary and secondary cells to allow for the efficient mixing of wastewater within the proposed secondary cell.
 9. The Licencee shall construct the primary cell of the said wastewater treatment lagoon with clay or other suitable material such that all interior surfaces of the primary cell are underlain with a minimum of 1 metre of soil having a hydraulic conductivity of 1×10^{-7} centimetres per second, or less.

10. The Licencee shall arrange with a designated Environment Officer of the Manitoba Department of Environment, a mutually acceptable time and date for any required soil sampling between the first day of April and the thirty first day of October of any year.
11. The Licencee shall either:
 - (a) subject undisturbed soil samples from the constructed primary cell of the wastewater treatment lagoon to hydraulic conductivity tests, the number and location of samples to be specified by the designated Environment Officer of the Manitoba Department of Environment, up to a maximum of twenty samples; or
 - (b) where undisturbed samples cannot be taken, test the soils of 4 plane surfaces from the primary cell of the wastewater treatment lagoon for hydraulic conductivity by an in situ field test method as prescribed by the designated Environment Officer of the Manitoba Department of Environment.

MONITORING AND REPORTING SPECIFICATIONS

12. The Licencee shall, not less than 4 weeks before the constructed primary cell is placed in operation, submit to the Director the results of the tests carried out pursuant to Clause 11.
13. The Licencee 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.

REVOCATION

14. If in the opinion of the Director the Licencee has exceeded or is exceeding the specifications, limits, terms, and conditions set out herein, the Director may revoke, temporarily or permanently, this Licence.
15. This Licence replaces Licence No. 954 which is hereby rescinded.



Larry Strachan, P. Eng.
Director, Environment Act

rescinded