

# Environment Act Licence

Manitoba  
Environment



Licence No. 1449  
Issue Date FEBRUARY 1, 1991

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

THIS LICENCE IS ISSUED TO:

## TOWN OF VIRDEN: APPLICANT

The following limits, terms, and conditions shall be complied with in connection with the operation of a sewage sludge storage, transportation, treatment, and disposal system for sludge from a sewage treatment plant located in the Town of Virden with the sludge treatment system and final disposal located on the SE 1/4 of Section 24-11-26 WPM in the Rural Municipality of Wallace:

1. The Applicant shall ensure that:
  - (a) the sludge storage facility, located at the sewage treatment plant, has an adequate capacity to store all the sludge generated at the facility prior to transfer to the sludge treatment system;
  - (b) the sludge storage facility is operated and maintained in such a manner as to prevent the release of offensive odours; and
  - (c) there is no spillage of sewage sludge in and around the sewage treatment plant.
2. The Applicant shall ensure that all containers on vehicles used to transport sewage sludge from the sludge storage facility located at the sewage treatment plant to the sludge treatment facility, are totally enclosed to prevent odour emissions and are constructed and maintained to prevent leakage of sewage sludge to the satisfaction of the designated Environment Officer.

3. The Applicant shall construct and maintain the sludge dewatering cells to maximize the sludge dewatering rate and to ensure the rapid separation of the supernatant from the sludge solids.
4. The Applicant shall remove the supernatant and any liquid precipitation from the sludge dewatering cells as soon as possible and shall deposit the supernatant and the liquid precipitation in the isolated liquid evaporation cell.
5. The Applicant shall ensure that all interior surfaces of the sludge dewatering cells and the liquid evaporation cell are underlain with a minimum of 1 metre of soil having a hydraulic conductivity of  $1 \times 10^{-7}$  centimetres per second or less.
6. The Applicant shall remove the dewatered sewage sludge from each sludge dewatering cells at least once every year and shall deposit the dried sludge on a sloped pad surrounded by a berm of adequate height to contain any precipitation that falls within the berm. Any liquid that collects inside the berm shall be removed as soon as possible and deposited into the liquid evaporation cell.
7. The Applicant shall, on an annual basis, mix the dried sewage sludge with dry composted organic material prior to stockpiling it onsite.
8. The Applicant shall ensure that all the compost and sludge mixture is used within the registered waste disposal ground for top dressing on the soil cover.
9. The Applicant shall file a proposal to address odor control if, in the opinion of the Director, odours create a nuisance condition in the surrounding area.

10. The Applicant shall carryout an annual insect control program around the sludge treatment facility if, in the opinion of the Director, a insect problem occurs.



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Larry Strachan, P. Eng.  
Director  
Environment Act

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