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**AN ORDER OF THE CLEAN ENVIRONMENT COMMISSION
UNDER THE CLEAN ENVIRONMENT ACT**

RE: THE CLEAN ENVIRONMENT COMMISSION and ROBERT D. HAMMOND, Applicant,

WHEREAS pursuant to the provisions of The Clean Environment Act, Robert D. Hammond filed a proposal with the department in connection with the operation of a sewage lagoon system located in the SW 1/4 of Section 7, Township 21, Range 4, EPM, in the Rural Municipality of Gimli, Manitoba, serving the Spruce Sands Trailer Park, with discharge of treated effluent to irrigate agricultural land located in the said quarter section;

AND WHEREAS in the absence of limits, terms and conditions prescribed in a regulation issued under the said Act, the proposal was referred to The Clean Environment Commission to prescribe limits, terms and conditions;

AND WHEREAS after giving notice of the proposal, the Commission did not receive notice of representation from any person likely to be affected by an order of the Commission issued in connection with the said operation;

AND WHEREAS the Commission considered the proposal on the 16th day of April, 1984;

IT IS HEREBY ORDERED THAT

1. The Applicant shall not discharge effluent from the said sewage lagoon system where:
 - (a) the organic content of the effluent, as indicated by the five day biochemical oxygen demand, is in excess of 30 milligrams per liter;
 - (b) the faecal coliform content of the effluent, as indicated by the MPN Index, is in excess of 200 per 100 milliliters of sample;
 - (c) the total coliform content of the effluent, as indicated by the MPN Index, is in excess of 1500 per 100 milliliters of sample.

2. The Applicant shall not discharge effluent from the said sewage lagoon system between the 1st day of November of any year and the 1st day of May of the following year without receiving prior approval from the Clean Environment Commission.

3. The Applicant shall maintain and operate the said sewage lagoon system in such a manner that:
 - (a) the release of offensive odours is minimized;

 - (b) the organic loading on the primary cell, as indicated by the five day biochemical oxygen demand, is not in excess of 112 kilograms per hectare per day.

4. The Applicant shall ensure that:
 - (a) the effluent from the said sewage lagoon system is disposed of by spray irrigation in the SW 1/4 of Section 7, Township 21, Range 4, EPM;

 - (b) there is no sewage effluent irrigation in circumstances where effluent spray may be carried onto a public road or onto private property not owned or controlled by the landowner using the irrigation system;

 - (c) spray irrigation with sewage effluent does not take place:
 - (i) during or for at least 7 days prior to harvesting of crops;

 - (ii) during or for 30 days prior to grazing by dairy cattle;

 - (iii) during and for 7 days prior to grazing by livestock other than dairy cattle;

 - (d) an agricultural crop is maintained and harvested annually on the effluent-irrigated land;

4. (e) only forage crops, cereal grain and oil seed crops are grown on effluent-irrigated land provided that where corn is grown its use shall be restricted to silage;
 - (f) no direct runoff of sewage effluent is permitted;
 - (g) if surface ponding or surface runoff occurs during irrigation, the gross depth of effluent applied during any application of effluent is reduced;
 - (h) irrigation in connection with the said operation is discontinued for a continuous period of not less than 14 hours in every 24 hour period.
5. The Applicant shall prior to the construction of dykes for the said sewage lagoon system:
 - (a) remove all organic topsoil from the area where the dykes will be constructed; or
 - (b) remove all organic material for a depth of 0.3 metres and a width of 3.0 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 6, to a minimum thickness of one metre measured perpendicular to the face of the side wall.
6. The Applicant shall construct the said sewage lagoon system with clay or other suitable material such that all interior surfaces of the said sewage lagoon system are underlain with a minimum of 1 metre of soil having a hydraulic conductivity of 1×10^{-7} centimetres per second or less.
7. The Applicant shall notify the Environmental Management Division two weeks prior to the completion of construction of the said sewage lagoon system.
8. The Applicant shall either:
 - (a) subject undisturbed soil samples from the completed sewage lagoon cells to hydraulic conductivity tests, the number and location of said samples to be specified by an officer of the Environmental Management Division up to a maximum of twenty samples; or

