In accordance with the Livestock Manure and Mortalities Management Regulation, Man. Reg. 42/98 (the “LMMMR”) under The Environment Act, C.C.S.M. c. E125, this permit is issued to:

Rolling Acres Holding Colony Ltd. (the permittee)

for the construction of a high density polyethylene (HDPE) lined earthen manure storage facility located at SE 02-17-15 WPM in the Rural Municipality of Rosedale in the Province of Manitoba and is subject to the TERMS AND CONDITIONS in the following clauses:

1. The permittee shall ensure that the terms and conditions contained in Permit LM-1221 are strictly adhered to unless any amendments to the terms and conditions are approved in writing by the Director.

2. The construction of the manure storage facility shall be in accordance with the design and specifications of the permit application as submitted by Mr. Peter Grieger, P.Eng., with South-Man Engineering to this office on July 26, 2018, the siting and construction requirements set out in Schedule A of the LMMMR, and the terms and conditions of this permit.

3. An Environment Officer with the Environmental Approvals Branch of Manitoba Sustainable Development shall be notified in writing prior to commencement of construction, modification, or expansion of the manure storage facility.

4. If the construction, modification, or expansion of the manure storage facility occurs during freezing periods, appropriate cold weather protocols shall be followed and details of the protocols followed and temperature logs shall be included in the construction report referred to in Clause 13 of this permit.

5. If the construction of the manure storage facility is suspended for more than 90 days, the Director shall be notified in writing before resuming construction of the manure storage facility.

6. Any alterations of environmental significance to the design or specifications, proposed after the permit has been issued, shall be provided in writing to an Environment Officer with the Environmental Approvals Branch of Manitoba Sustainable Development for consideration by the Director. Those proposed alterations shall only be incorporated into the construction of the manure storage facility after the Director has approved them in writing. Other proposed alterations related to the efficacy and serviceability of the facility may be incorporated at the discretion of the professional engineer referred to in Clause 2 of this permit, upon notification to the Director.

7. Any alterations referred to in Clause 6 of this permit, and any other alterations to the design or specifications of the permit application, shall be reflected in the sealed professional engineer’s certificate and construction report referred to in Clauses 12 and 13 of this permit.

8. The permittee shall notify the assigned Environment Officer one week prior to commencing the installation of the liner.

9. The permittee shall construct and maintain a continuous liner, such that:
   (i) the liner is constructed from HDPE geomembrane;
(ii) the liner has a minimum thickness of 60 mils;
(iii) all sections of the liner are joined by dual track seaming;
(iv) the liner is installed in accordance with ASAE Standard EP340.2 for the Installation of Flexible Membrane Linings;
(v) the liner is installed to the top of the dikes above the floor elevation or or base of each cell;
(vi) non-destructive test methods are used to test the integrity of:
   a) all field seams joining liner sections in accordance with ASTM Standard D 5820-95 (Reapproved 2006); and
   b) all other field seams in accordance with ASTM Standard D 4437-99; and
(vii) an installation report is prepared within 30 days of commencing the installation of the liner. The installation report shall include the test results, a discussion of the results, and a statement that the liner was installed in accordance with the manufacturer's requirements.

10. The Permittee shall, not less than one week before the HDPE lined earthen manure storage facility is placed into operation, submit for the approval of the Environment Officer the report prepared pursuant to sub-Clause 9 (vii) of this permit.

11. No person shall set the manure storage facility into operation until the Director has been provided with a sealed professional engineer's certificate and record drawings.

12. The sealed professional engineer’s certificate and record drawings shall demonstrate that:

   (i) the work of any contractor or other person performing work for which the permit is required conforms to the siting and construction requirements set out in Schedule A of the LMMMR and the permit;
   (ii) the completed construction of the manure storage facility conforms to the siting and construction requirements set out in Schedule A of the LMMMR and the permit; and
   (iii) the work has been completed in accordance with Clauses 2 and 6 of this permit.

13. The sealed professional engineer’s certificate and record drawings shall be accompanied by a construction report that includes items listed below and in Attachment 1:

   (i) any construction details that are not consistent with design and specifications of the permit application;
   (ii) a construction progress summary, including any inspection records;
   (iii) the name of the general contractor;
   (iv) any site or laboratory results collected for quality assurance or quality control; and

14. The failure to comply with any term or condition of this permit may result in the immediate revocation of this permit.

15. The Director reserves the right to amend any term or condition of this permit.

August 14, 2018
Date

Tracey Braun
Director, Environmental Approvals
Attachment 1: Items to be included in Construction Report

- Date stamped pictures of critical check points (e.g., earthwork equipment used, measurement type & timing, subgrade preparation, leak detection system installation, liner installation & testing) - this information is to be forwarded to Environmental Approvals Branch during the construction;
- Pipeline hydrostatic pressure test results on a form acceptable to the Director;
- Monitoring well construction logs;
- Monitoring well and water table elevations;
- Background water quality results;
- Complete elevation survey for the top of dike and storage bottom elevations;
- Capacity in days of the constructed / modified / expanded storage.