



In consideration of Decision Summary RA20026, Authorization RA20026 is issued to:

Name: Mark Astner, and Manna Farms Ltd. (the “co-permit holders”)
Address: RR1 Ferintosh AB T0B 1M0
Contact person: Mark Astner

Permitted construction (based on the submitted site plan):

- Round earthen liquid manure storage (EMS) (radius of 27 m x 4.5 m deep)
- Convert the clay liner on two existing hog barns into concrete liners (57 m x 21.6 m)
 - Construction of manure collection pits (inside the converted hog barns)

The co-permit holders shall comply with the requirements of the *Agricultural Operation Practices Act* (AOPA) and the regulations passed pursuant to that act.

The co-permit holders shall adhere to the descriptions contained in the filed application together with the site plan, building plans, engineering reports and other attached documents, unless otherwise noted in the following conditions.

The co-permit holders shall contact the NRCB at least 10 working days in advance of the desired inspection date to schedule the inspection in referenced in conditions #2 and 5, below.

The co-permit holders is responsible for all costs associated with monitoring, sampling, testing, recording and reporting requirements.

Construction conditions

Converted hog barns (two)

1. The concrete used to construct the liner of the converted hog barns must meet the specifications for category B (liquid manure shallow pits) in Technical Guideline Agdex 096-93 “Non-Engineered Concrete Liners for Manure Collection and Storage Areas.” The co-permit holders shall provide written confirmation, from a qualified third party, confirming that the concrete used for the manure collection and storage areas meets the required specification.
2. The co-permit holders shall not allow livestock or manure in the converted hog barns, until the two facilities have been inspected by NRCB personnel and confirmed by them, in writing, to have been constructed in accordance with the terms and conditions of this permit.
3. The co-permit holders shall complete construction of the manure collection and storage portions of the converted hog barns prior to November 30, 2021. Upon request, this deadline may be extended by the NRCB in writing.

Round EMS

4. The co-permit holders shall provide the NRCB with a written construction completion report for the EMS. The report shall be stamped and signed by a “professional engineer,” as defined in the Standards and Administration Regulation, and shall:
 - Certify that the EMS was constructed at the location specified in the site plan provided with the application;
 - Certify that the EMS was constructed according to the recommended construction procedures in the Envirowest Engineering Inc. report dated June 3, 2020;
 - Provide the EMS dimensions, including elevations below and above grade, berm height, and side slopes.

This report must be provided to the NRCB before the inspection referenced in condition #5 below, or by a later date as directed in writing by the NRCB.

5. The co-permit holders shall not allow manure in the new EMS until the manure collection and storage parts of the facility have been inspected by NRCB personnel and confirmed by them, in writing, to have been constructed in accordance with the terms and conditions of this permit.
6. The co-permit holders shall complete construction of the EMS prior to November 30, 2023. Upon request, this deadline may be extended by the NRCB in writing.

This Authorization becomes effective immediately, in conjunction with previously issued Registration RA04039. The Authorization conditions will remain in effect unless amended in writing by the NRCB.

July 8, 2020

(Original Signed)
Francisco Echegaray, P.Ag.
Approval Officer