Manitoba
Environment and Climate Change
Environmental Approvals Branch
Box 35, 14 Fultz Boulevard
Winnipeg MB R3Y 0L6
T 204 945-8321 F 204 945-5229
EABDirector@gov.mb.ca

Public Registry File Number: 6000.00
File Number: 18230

September 27, 2024

Bernardo Pasco
Chief Administrative Officer
Rural Municipality of West Interlake
Box 370 #38 Main Street
Ashern MB R0C 0E0
cao@rmofwestinterlake.com

Dear Bernardo Pasco:

Re: Ashern Waste Disposal Ground Permit No. 41187 P2

Please find enclosed Permit No. 41187 P2 in response to your application dated February 26, 2024, and additional information received on June 27, 2024. You wish to continue to operate Ashern Waste Disposal Ground on portions of SE 09-26-07 WPM in the Rural Municipality of West Interlake, Manitoba.

The Rural Municipality of West Interlake must follow all permit requirements and federal, provincial, and municipal regulations and by-laws.

Anyone affected by this decision may appeal, in writing, to the Minister of Environment and Climate Change at minecc@manitoba.ca by October 27, 2024. The permit is available on the public registry at https://www.gov.mb.ca/sd/eal/registries/6000wmfpermits/index.html

For clauses 17-24, the designated environment officer of the Environmental Approvals Branch is Desalegn Edossa, who may be contacted at Desalegn.Edossa@gov.mb.ca or 204-945-7021.

…2

If you have any questions about this approval, please contact Tyler Kneeshaw, Regional Supervisor, Environmental Compliance and Enforcement Branch at EnvCEInterlake@gov.mb.ca or 204-239-3608.

Sincerely,

Original Signed By
Agnes Wittmann
Director
The Environment Act

Enclosure

c. Tyler Kneeshaw – Environmental Compliance and Enforcement
Desalegn Edossa – Environmental Approvals

Waste Disposal Ground Operating Permit

Manitoba
Environment and Climate Change

File No. : 18230

Permit No.: 41187 P2
Issue Date: September 27, 2024

Following the Waste Management Facilities Regulation under The Environment Act, the Rural Municipality of West Interlake is hereby permitted to run Ashern Waste Disposal Ground on portions of SE 09-26-07 WPM in the Rural Municipality of West Interlake, Manitoba. Schedule A of this permit identifies the facility.

This permit is subject to being amended, suspended, or revoked under sections 7 and 9 of the Waste Management Facilities Regulation.

Definitions

In this permit,

"operator" means the holder of a licence or permit issued in respect of the waste management facility; and

"liquid waste" means waste that has a slump of more than 150 mm using the Canadian Standards Association Slump Test Method A23.2-5C.

General Terms and Operating Conditions

1. This permit expires on September 27, 2029.

2. The operator must maintain and operate the facility following the Waste Management Facilities Regulation and any future amendments, and this permit.

3. The operator must:
   a) review and update the operations manual at least every five years, or at an earlier time if required by the director; and
   b) submit the operations manual to the director or environment officer upon request.

4. The operator must obtain approval in writing from the director before altering the facility.

Special Operational Requirements

5. The operator must not accept any animal mortalities, liquid waste or other wastes that have the potential to generate excessive amounts of leachate without the approval of the designated environment officer.

6. The operator must maintain the leachate or liquid level within the active waste cell to be less than 0.3 metre at any point on the landfill liner.

7. The operator must apply an interim cover biweekly over the active waste in the waste cell constructed in 2018 or any future cell.

8. The operator must always maintain at least 1 metre freeboard in the evaporation pond. In the event the liquid level breaches into the freeboard level, the operator must reduce the volume by a method approved in writing by the director.

9. The operator must monitor and record the evaporation pond liquid level biweekly when the pond is not frozen.

10. The operator must implement a maintenance plan to ensure vegetation is controlled around the evaporation pond to optimize evaporation pond functionality.

Site Access and Control

11. The operator must restrict access to the facility when site supervision is not provided, with a locked gate, barrier or other system approved in writing by an environmental officer.

Materials Acceptance and Handling

12. The operator must:
    a) segregate materials collected for recycling or reuse;
    b) temporarily stockpile these materials in designated areas with clear signage; and
    c) must maintain these areas to control weeds, vectors, and the quality of the materials.

13. The operator must remove the materials identified in clause 12 of this permit regularly or upon the request of an environment officer, within the timeframe specified.

Placement and Cover

14. The operator may use material other than soil to cover the active area upon receiving written approval from the director or the environment officer.

Surface Water Management

15. The operator must construct the facility such that all uncontaminated surface water flows to the perimeter ditch and impacted water from all material storage areas is contained within the facility boundaries.

Site Construction and Upgrading

16. The operator must have all waste disposal cells, modifications, or alterations designed by and construction overseen by an engineer.

17. The operator must, before beginning any construction at the facility, submit an electronic copy of the final engineering design plans, sealed by an engineer, to the designated environment officer. The plans will show the engineering details of each new or altered component and the location of each new or altered component relative to other components.

18. The operator must construct the facility following the design plans submitted to the designated environment officer following clause 17 of this permit and subject to any terms and conditions set by the designated environment officer.

19. Notwithstanding clause 18 of this permit, construction must be subjected to the following conditions:
    a) the operator must provide for testing of all clay liners and cut-off walls by a qualified consultant to confirm that compaction is 95% Standard Proctor Density on maximum lifts of 0.15 m (150 mm); and

b) all active areas or leachate containment developed from or with clay must be constructed to achieve a hydraulic conductivity of not more than $1x10^{-7}$ cm/s with a minimum thickness of one metre perpendicular to the surface. If appropriate or sufficient clay is not available an alternative proposal must be submitted to the designated environment officer for written approval before construction.

20. The operator must, unless approved by the designated environment officer, arrange with the designated environment officer a mutually acceptable time and date for any required soil sampling between the 15th day of May and the 15th day of October of any year.

21. The operator must, following Schedule B of this permit, take and test undisturbed soil samples from:
    a) the clay of new waste disposal cell(s);
    b) leachate ponds; and
    c) any clay component of the facility requiring testing by the designated environment officer.

22. The number and location of samples and test methods will be specified by the designated environment officer up to a maximum of 20 samples per cell or clay component of the facility.

23. The operator must, not less than two weeks before using any component of the facility as referenced in clause 21 of this permit, submit for the approval of the designated environment officer the results of the tests carried out following clause 21 of this permit.

24. The operator must:
    a) prepare record drawings of the facility and must label the drawings “record drawings”; and
    b) submit "record drawings" along with a construction report to the designated environment officer within 120 days of the completion of construction of the facility.

       The construction report must include the following:
       (i) the engineer’s inspection dates and notes;
       (ii) density measurements (for clay lined facility); and
       (iii) updated site plan showing the new cell, monitoring well installation logs, locations, and background water samples (if applicable).

Burning of Specified Waste

25. The operator must only burn:
    a) separated and readily combustible materials such as boughs, leaves, loose straw, paper products, cardboard, non-salvageable untreated wood, and packing materials derived from wood; and
    b) when there is an appropriate volume of materials as identified in clause 25 a) of this permit.

Composting

26. The operator must, unless otherwise approved by an environment officer, compost only yard and leaf waste.

Monitoring and Reporting Requirements

27. The operator must collect, store, and analyze groundwater monitoring well samples using approved field and laboratory techniques for dissolved analysis. The operator must retain the analytical results in a format acceptable to the environment officer.

28. The operator must sample the groundwater monitoring wells for those parameters identified in Schedule C of this permit once per year, or at a frequency approved by the environment officer.

29. The operator must submit an annual report, in a format acceptable to the environment officer, detailing the sampling methodology, field observations, and results of groundwater sampling analyses, complete with previous results and trends. The operator must submit the report annually to an environment officer no later than December 31st of each year.

Revocation

30. This permit replaces Permit No. 41187 P1, which is expired.

Original Signed By
Agnes Wittmann
Director
The Environment Act

Schedule A to Permit No. 41187 P2

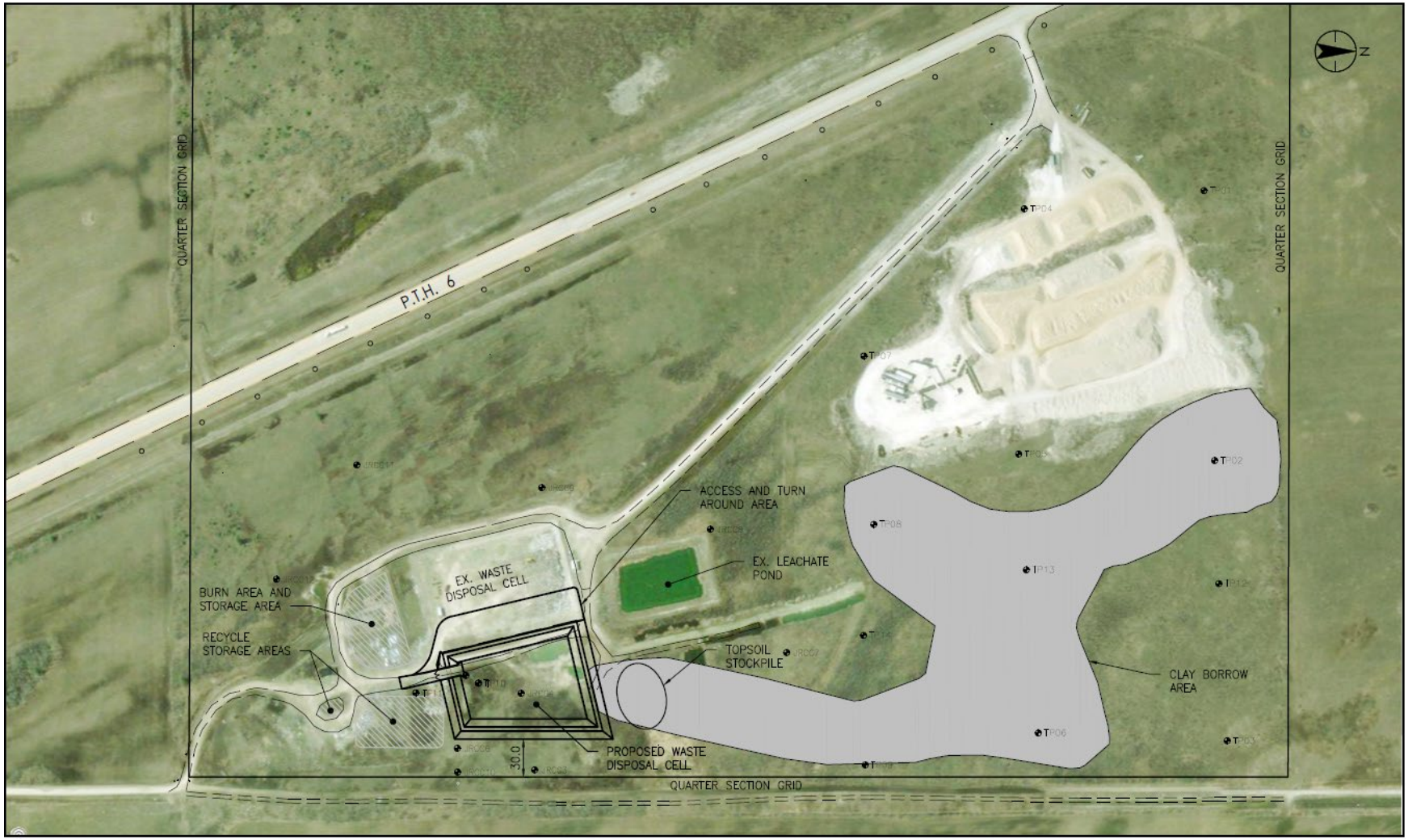

Figure 1 Facility Layout

Schedule B to Permit No. 41187 P2
Soil sampling following clause 21 of this permit

Soil Sampling

1. The licensee must provide a drilling rig, acceptable to the designated environment officer, to extract soil samples from the specified liner of the structure. This includes all liners constructed with clay. The drill rig must have the capacity to drill to the maximum depth of the clay liner plus an additional 2 metres. The drill rig must be equipped with both standard and hollow stem augers. The minimum hole diameter must be five inches.

2. For liners placed or found at the surface of the structure, the licensee must provide a machine, acceptable to the designated environment officer, capable of pressing a sampling tube into the liner in a straight line motion along the centre axis line of the sample tube and without sideways movement.

3. Soil samples must be collected and shipped following ASTM Standard D 1587 (Standard Practice for Thin-Walled Tube Sampling of Soils), D 4220 (Standard Practice for Preserving and Transporting Soil Samples), and D 3550 (Standard Practice for Ring-Lines Barrel Sampling of Soils). Thin-walled tubes must meet the stated requirements including length, inside clearance ratio, and corrosion protection. An adequate venting area must be provided through the sampling head.

4. At the time of sample collection, the designated environment officer must advise the licensee as to the soil testing method that must be used on each sample. The oedometer method may be used for a sample where the environment officer determines that the soil sample is taken from undisturbed clay soil which has not been remoulded and which is homogeneous and unweathered. The triaxial test must be used for all samples taken from disturbed and remoulded soils or from non-homogenous and weathered soils.

5. The licensee must provide a report on the collection of soil samples to the designated environment officer and to the laboratory technician which includes but is not limited to a plot plan indicating sample location, depth or elevation of sample, length of the advance of the sample tube length of soil sample contained in the tube after its advancement, the soil test method specified by the environment officer for each soil sample and all necessary instructions from the site engineer to the laboratory technician.

6. All drill and sample holes must be sealed with bentonite pellets after the field drilling and sampling have been completed.

Schedule B to Permit No. 41187 P2
Soil sampling following clause 21 of this permit
(continued)

Soil Testing Methods

1. Triaxial Test Method

    a) The soil samples must be tested for hydraulic conductivity using ASTM D 5084 (Standard Test Method for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter).

    b) Soil specimens must have a minimum diameter of 70 mm (2.75 inches) and a minimum height of 70 mm (2.75 inches). The soil specimens must be selected from a section of the soil sample which contains the most porous material based on a visual inspection. The hydraulic gradient must not exceed 30 during sample preparation and testing. Swelling of the soil specimen should be controlled to adjust for: the amount of compaction measured during sample collection and extraction from the tube and the depth or elevation of the sample. The effective stress used during saturation or consolidation of the sample must not exceed 40 kPa (5.7 psi) or the specific stress level, that is expected in the field location where the sample was taken, whichever is greater.

    c) The complete laboratory report, as outlined in ASTM D 5084, must be supplied for each soil sample collected in the field.

2. Oedometer Test Method

    a) The soil samples must be tested for hydraulic conductivity using ASTM D 2435 (Standard Test Method for One-Dimensional Consolidation Properties of Soils).

    b) Soil specimens must have a minimum diameter of 50 mm (2 inches) and a minimum height of 20 mm (0.8 inches). The soil specimens must be selected from a section of the soil sample which contains the most porous material based on a visual inspection. The soil specimen must be taken from an undisturbed soil sample. The soil specimen must be completely saturated.

    c) The complete laboratory report, as outlined in ASTM D 2435, must be supplied for each soil sample collected in the field

Schedule C to Permit No. 41187 P2
Groundwater chemistry parameters following clause 28 of this permit

Chemical Parameters		
Inorganics		
Alkalinity – Total		Magnesium – Dissolved
Ammonia – Total		Manganese – Dissolved
Arsenic – Dissolved		Mercury – Dissolved
Barium – Dissolved		Nitrate - Reported as N
Boron – Dissolved		Nitrite - Reported as N
Cadmium – Dissolved		Total Kjeldahl Nitrogen - Reported as N
Calcium – Dissolved		Total Phosphorous
Calcium Carbonate		Potassium – Dissolved
Chloride		Silicon – Dissolved
Chromium – Dissolved		Sodium – Dissolved
Conductivity		Total Dissolved Solids (TDS)
Copper – Dissolved		Sulphate
Iron – Dissolved		Uranium – Dissolved
Lead – Dissolved		Zinc – Dissolved
Volatile Organic Compounds (VOCs)		
BTEX		
Other Organics		
Biological Oxygen Demand (BOD)		Chemical Oxygen Demand (COD)
Dissolved Organic Carbon (DOC)		
Field Parameters		
pH		Groundwater Elevation
Conductivity		Dissolved Oxygen
Temperature		

Note: The director may revise this schedule. All dissolved samples should be filtered in the field and preserved in the field at the time of sampling. The operator must notify the director and the laboratory for dissolved samples not filtered and preserved in the field.