

**OHIO ENVIRONMENTAL PROTECTION AGENCY  
PERMIT TO INSTALL**

Application Number: 05-14378  
Application Received: February 27, 2006  
Permit Fee: \$20,369.30  
Permit Fee Balance: \$20,369.30 – \$400.00 = \$19,969.30

Applicant: Cherokee Run Landfill, Inc.  
Address: 2946 US Route 68 N  
Bellefontaine, OH 43311

Name: Cherokee Run Landfill  
Location: The facility is located approximately 2 miles north of US Route 33 on the east side of US Route 68N in Rushcreek and Lake Townships.

PTI: Vertical Expansion

Issuance Date: April 8, 2008

Effective Date:

The above-named entity is hereby issued a permit-to-install (permit) for the above-described source pursuant to Ohio Administrative Code (OAC) Rule 3745-27-02. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed and/or modified in accordance with the plans, specifications, and/or information accompanying the permit application, the above-described source of environmental pollutants will operate in compliance with applicable state and federal laws, rules, and regulations, and does not constitute expressed or implied assurances that, if constructed and/or modified in accordance with those plans, specifications, and/or information accompanying the permit application, the above-described source of environmental pollutants will be granted the necessary operating permits and/or licenses. This permit is issued subject to the attached conditions which are hereby incorporated and made a part hereof.

Ohio Environmental Protection Agency

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Chris Korleski, Director

## PERMIT SUMMARY

This is a draft permit (PTI Number 05-14378) which, if issued as a final permit, authorizes a vertical expansion of the Cherokee Run Landfill (Facility), an existing municipal solid waste disposal facility, located in Logan County. Cherokee Run Landfill, Inc. is the owner, operator, and applicant of the Facility.

The permit application proposes a vertical expansion with a gross capacity of 2,036,930 cubic yards. If approved, the total acreage of the Facility would be maintained at 200 acres with a capacity of 15,772,671 cubic yards. Based on the Facility's authorized maximum daily waste receipt (AMDWR) of 4,500 tons, the anticipated life of the Facility is 2.36 years. Based on the average gate receipts, anticipated Facility life is 3.56 years.

The Facility's design includes a composite (recompacted clay and geosynthetic membrane) liner system, a leachate collection system, a surface water management system, a ground water monitoring system, an explosive gas monitoring system, an explosive gas extraction system, and a final closure cap system. The permit also incorporates 30 years of post-closure care and financial assurance for closure and post-closure care.

This permit also includes an exemption from OAC Rule 3745-27-07(H)(2)(d) which prohibits a landfill facility from being located above an unconsolidated aquifer system capable of sustaining a yield of 100 gallons per minute (gpm) for a 24-hour period within 1000 feet of the limits of waste placement.

This summary is provided solely for informational purposes and does not constitute a part of, or otherwise affect, the attached permit.

## PERMIT CONDITIONS

1. The director of the Ohio Environmental Protection Agency (Ohio EPA), or an authorized representative, may enter upon the premises of the above-named applicant (permittee) at any reasonable time during construction and operation for the purpose of making inspections, conducting tests, or examining records or reports pertaining to the construction, modification, or installation of the above-described source of environmental pollutants (municipal solid waste disposal facility).
2. The Facility shall be constructed in strict accordance with the plans, specifications, and information submitted as part of the application for this permit. There may be no deviation from the approved plans without the express written approval of Ohio EPA. Any deviation from the approved plans or the permit conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the Facility will operate in compliance with all Ohio laws and regulations. Additional Facility

components shall be installed upon orders of Ohio EPA if the Facility is inadequate or cannot meet applicable standards.

3. Issuance of this permit does not relieve the permittee of the duty to comply with all applicable federal, state, and local laws, ordinances, and regulations.
4. This permit shall apply only to the Facility shown on the plans submitted as part of PTI Application Number 05-14378 as received on Feb. 27, 2006 with subsequent revisions received on May 15, 2007 and January 8, 2008.
5. This permit may be modified, or alternatively revoked and reissued, to comply with any revisions to OAC Chapter 3745-27 applicable to this municipal solid waste disposal facility.
6. The permittee shall provide for the proper maintenance and operation of the Facility in accordance with the provisions of OAC Chapter 3745-27.
7. Nothing in this permit shall be construed to authorize any waiver from the requirements of any applicable federal or state laws or regulations. This permit shall not be interpreted to release the permittee from responsibility under Ohio Revised Code (ORC) Chapters 3704, 3714, 3734, or 6111; under the Federal Clean Water Act, the Resource Conservation and Recovery Act, or the Comprehensive Environmental Response, Compensation, and Liability Act; or from other applicable requirements for remedying conditions resulting from any release of contaminants to the environment.
8. This permit does not authorize the acceptance of any hazardous or infectious wastes, except for those excluded from hazardous or infectious waste regulation by ORC Chapter 3734.
9. This permit does not authorize the acceptance of any asbestos or asbestos-containing waste material that is subject to the provisions of NESHAP, 40 CFR Part 61, Subpart M. No such asbestos or asbestos-containing waste material may be accepted without first obtaining the necessary permits from Ohio EPA.
10. Not later than seven (7) days prior to starting any construction authorized under this permit, the permittee shall submit to Ohio EPA, Southwest District Office (SWDO) and the Logan County Health Department (LCHD) written notification of the anticipated construction start date so that construction of this Facility can be routinely inspected by Ohio EPA, SWDO and the LCHD before being placed into operation.
11. The permittee shall perform the following activities during construction and operation of the facility in accordance with the cited provisions of OAC Chapter 3745-27 as follows:

- a. The pre-construction tests required by OAC Rule 3745-27-08(D) shall be performed, and the test results shall be submitted to Ohio EPA, SWDO not later than seven (7) days prior to the intended use of the materials in construction.
  - b. The pre-construction interface tests required by OAC Rule 3745-27-08(G) shall be performed, and the test results shall be submitted to Ohio EPA, SWDO not later than seven (7) days prior to the use of each geosynthetic material authorized by this permit.
  - c. The construction certification report required by OAC Rule 3745-27-08(H) shall be submitted to Ohio EPA, SWDO and LCHD not later than forty-five (45) days prior to the anticipated date of waste receipt in newly constructed areas. Pursuant to OAC Rule 3745-27-19(C)(1), the permittee shall not accept waste in a phase until Ohio EPA, SWDO provides written concurrence of the construction certification report for that phase.
12. The permittee shall provide for the following inspections and facility maintenance:
- a. The permittee shall provide for daily inspection of the Facility and completion of the Municipal Solid Waste Landfill Daily Log of Operations, Form 3. Written results of the inspections, including any corrective measures employed, shall be made available to Ohio EPA or LCHD upon request.
  - b. Surface water control structures, including sedimentation ponds, sedimentation pond discharge structures, pipes, ditches, and culverts, shall be inspected at least monthly for erosion, clogging, or failure and prompt corrective action shall be taken, if necessary. Written results of the inspections, including a discussion of any corrective measures taken, any water quality samples taken, and the date and weather conditions, shall be recorded on the required daily log forms. The information shall be maintained on site and submitted to Ohio EPA, SWDO or LCHD upon request.
  - c. To ensure proper operation of sedimentation pond(s), the pond(s) shall be cleaned out as necessary when the volume of the settled particles necessitates cleaning based either on inspection results or to maintain the storage volume required by OAC Rule 3745-27-08(D)(3).
13. The permittee shall execute and fund a financial assurance instrument meeting the requirements of OAC Rules 3745-27-15, 3745-27-16, and 3745-27-17 prior to waste acceptance in any disposal area newly authorized by this permit.

14. Pursuant to ORC Sections 3745.11(Q) and (V), payment of the solid waste permit to install fee balance, in the amount of \$19,969.30 payable to "Treasurer, State of Ohio," shall be submitted to Ohio EPA, Attn: Fiscal Administration, P.O. Box 1049, Columbus, Ohio 43216-1049. The fee balance shall be submitted within thirty (30) days of the effective date of this permit. Failure to timely submit the required permit fee balance will result in assessment of late penalties in accordance with ORC Sections 3745.11(Q) and (V).

### **END OF PERMIT CONDITIONS**

#### **EXEMPTION FROM OAC RULE 3745-27-07(H)(2)(D)**

The permittee has requested an exemption from OAC Rule 3745-27-07(H)(2)(d) which prohibits a landfill facility from being located above an unconsolidated aquifer system capable of sustaining a yield of 100 gallons per minute (gpm) for a 24-hour period within 1000 feet of the limits of waste placement.

The Cherokee Run Landfill site overlies unconsolidated surficial and glacial deposits consisting of interbedded silty clays/sandy clays with layers of silt, sand and gravel. Underlying the unconsolidated units are the Devonian Ohio Shale and the Devonian Columbus Limestone.

Typically, the uppermost glacial deposit at the site consists of clay/silt till. This unit varies in thickness from approximately 10 to 100 feet. Within the glacial till is a sequence of sand and gravel approximately 30 feet thick. This unit is found at approximate elevations of 1340 to 1310 feet above mean sea level. This unit is present beneath the entire site, with the possible exception of the southwest corner of the existing landfill. This unit is the uppermost aquifer system and is capable of yielding 100 gpm of water for a 24 hour period.

Low permeability glacial sediments immediately underlie the landfill and overlie the uppermost aquifer system. Additionally, landfill related impacts to ground water in the vicinity of the proposed vertical expansion have not occurred.

Pursuant to ORC Section 3734.02(G), the director may, by order, exempt any person generating, collecting, storing, treating, disposing of, or transporting solid wastes, or processing solid wastes that consist of scrap tires, in such quantities or under such circumstances that, in the determination of the director, are unlikely to adversely affect the public health or safety or the environment from any requirement to obtain a registration certificate, permit, or license or comply with other requirements of ORC Chapter 3734.

As part of the previously approved PTI application, the location of the facility above a 100 gpm aquifer system was "deemed acceptable" in accordance with the municipal

solid waste regulations, as effective March 1, 1990. Under the current municipal solid waste regulations, as effective August 15, 2003, an exemption is necessary in order to vertically expand the facility above a 100 gpm aquifer system.

Ohio EPA has reviewed the request and has concluded that, because of the low permeability glacial sediments immediately underlying the landfill and overlying the uppermost aquifer system, and because no landfill related impacts to ground water in the vicinity of the proposed vertical expansion have occurred, granting an exemption from OAC Rule 3745-27-07(H)(2)(d), which prohibits locating the facility above a 100 gpm aquifer system, is unlikely to adversely affect the public health or safety or the environment. Therefore, pursuant to ORC Section 3734.02(G), the permittee is hereby granted an exemption from OAC Rule 3745-27-07(H)(2)(d), which prohibits locating the Facility above an unconsolidated aquifer system capable of sustaining a yield of one hundred gpm for a twenty-four hour period to an existing or future water supply well. This exemption shall remain in effect throughout the effective period of this permit unless otherwise revoked.

**END OF PERMIT EXEMPTIONS**