

# OHIO ENVIRONMENTAL PROTECTION AGENCY

## PERMIT TO INSTALL

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Application Number: 03-16520  
Application Received: October 20, 2004  
Permit Fee: \$15,204.58  
Permit Fee Balance: \$14,804.58

Applicant: Celina Sanitary Landfill  
Address: 6141 Depweg Road  
Celina, Ohio 45822

Name: Celina Sanitary Landfill  
Location: The facility is located at 6141 Depweg Road, immediately northeast of the intersection of State Route 127 and Depweg Road in Franklin Township, Mercer County, Ohio.

Permit Type: Vertical Expansion

Issuance Date:

Effective Date:

The above-named entity is hereby issued a permit approval (permit to install) for the above-described source pursuant to Ohio Administrative Code (OAC) Rule 3745-27-02. Issuance of this permit approval 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 approval is issued subject to the attached conditions which are hereby incorporated and made a part hereof.

Ohio Environmental Protection Agency

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Joseph P. Koncelik, Director

## PERMIT SUMMARY

This is a DRAFT permit to install (PTI Number 03-16520) which, if approved, authorizes the vertical expansion of the approved limits of waste placement, previously specified in PTI Number 03-3790, issued September 30, 1994, at the Celina Sanitary Landfill (Facility), a municipal solid waste disposal facility located in Mercer County. Celina Sanitary Landfill, Inc. (a subsidiary of Allied Waste Industries, Inc.) is both the owner and operator of the Facility.

This PTI application proposes a 49.5-acre vertical expansion, approximately 1,520,000 cubic yards. The proposed expansion gains additional airspace by extending separatory liner to the edge of the 1994 waste limits, filling waste prior to construction of the new separatory liner extensions, changing ditches and roads that were cut into waste to "tack-on" ditches, and filling 10 to 20 feet higher than the currently approved elevations.

The Facility's proposed expansion will provide disposal services for approximately 5.5 years based on the Facility's authorized maximum daily waste receipt (AMDWR) of 499 tons or 10 years based on the annual average waste receipts of 95,000 tons.

The proposed expansion will incorporate into its construction a separatory liner system (recompacted clay) and a leachate collection system in areas that will receive waste under this proposed expansion that are not over a composite liner or separatory liner. It also will incorporate a surface water management system, a ground water monitoring system, an explosive gas monitoring system, and a final cap system (clay/geosynthetic membrane). The permit also incorporates 30 years of post-closure care and financial assurance for closure and post-closure care.

Upon final issuance, this permit approval grants the applicant an exemption, pursuant to Ohio Revised Code (ORC) Section 3734.02(G), from the siting criterion in OAC Rule 3745-27-07(H)(2)(d), which requires that a sanitary landfill facility not be located above an unconsolidated aquifer system capable of sustaining a yield of 100 gallons per minute (gpm) for a 24-hour period to an existing or future water supply well located within 1000 feet of the limits of solid waste placement of the sanitary landfill facility.

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

## PERMIT CONDITIONS

1. The director, 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 proposed facility shall be constructed in strict accordance with the plans, specifications, and information submitted as part of the application for this permit approval. There may be no deviation from the approved plans without the express, written approval of the Ohio Environmental Protection Agency (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 proposed facility will operate in compliance with all Ohio laws and regulations. Additional landfill components shall be installed upon orders of Ohio EPA if the proposed municipal solid waste disposal facility is inadequate or cannot meet applicable standards.
3. Issuance of this permit approval does not relieve the permittee of the duty to comply with all applicable federal, state, and local laws, ordinances, and regulations.
4. This permit approval shall apply only to those facilities shown on the plans submitted as part of PTI Application Number 03-16520 as received on October 20, 2004, with subsequent revisions received through August 15, 2006.
5. This permit approval 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 municipal solid waste disposal facility in accordance with the provisions of OAC Chapter 3745-27.
7. Nothing in this permit approval shall be construed to authorize any waiver from the requirements of any applicable federal or state laws or regulations. This permit approval 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 approval 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 approval 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 approval, the permittee shall submit to Ohio EPA, Northwest District Office (NWDO) and the Mercer County Health Department written notification of the anticipated construction start date, so that construction at the Facility can be routinely inspected by Ohio EPA, NWDO and the Mercer County Health Department 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 test pad required by OAC Rule 3745-27-08(E) shall be constructed, and a report containing the test results shall be submitted to Ohio EPA, NWDO not later than fourteen (14) days prior to the intended construction date of the landfill component which the test pad models.
  - b. The pre-construction tests required by OAC Rule 3745-27-08(D) shall be performed, and the test results submitted to Ohio EPA, NWDO not later than seven (7) days prior to the intended use of the materials in construction.
  - c. The pre-construction interface tests required by OAC Rule 3745-27-08(G) shall be performed, and the test results submitted to Ohio EPA, NWDO not later than seven (7) days prior to the intended use of each geosynthetic material authorized by this permit approval.
  - d. The construction certification report required by OAC Rule 3745-27-08(H) shall be submitted to Ohio EPA, NWDO not later than forty-five (45) days prior to the anticipated date of waste receipt. Pursuant to OAC Rule 3745-27-19(C)(1), the permittee shall not accept waste in a phase until Ohio EPA, NWDO 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 disposal 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 and the Mercer County Health Department, 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, NWDO and the Mercer County Health Department, upon request.
  - c. To ensure proper operation of sedimentation pond(s), the pond(s) shall be cleaned out completely annually, or more frequently if 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. This permit will not be issued as a final action until the permittee submits a certification report to Ohio EPA, NWDO, which documents the southeast perimeter leachate collection system construction. In addition, the leachate collection system shall be fully operational.
14. The Facility shall be constructed and filled in accordance with the 6-series drawings submitted as part of the PTI application. Construction of the final cap system shall commence per these drawings.
15. Construction certification reports for any constructed or repaired engineered component of the sanitary landfill shall be submitted to Ohio EPA, NWDO prior to April 1 of the year following construction.
16. To the extent that this permit approval specifies requirements different from or in addition to previous solid waste permits issued for the Facility, the terms and conditions contained herein shall take precedence over any conflicting requirements.
17. Prior to waste acceptance in any disposal area newly authorized by this permit approval, 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.
18. Pursuant to ORC Sections 3745.11(Q) and (V), payment of the solid waste permit to install fee balance, in the amount of \$14,804.58 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 approval. Failure to timely submit the required permit fee balance will result in assessment of late penalties in accordance

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with ORC Sections 3745.11(Q) and (V).

**END OF PERMIT CONDITIONS**

### **ORC Section 3734.02(G) Exemption from Siting Criterion**

The permittee has requested an exemption from OAC Rule 3745-27-07(H)(2)(d), which requires that a sanitary landfill facility not be located above an unconsolidated aquifer system capable of sustaining a yield of 100 gallons per minute (gpm) for a 24-hour period to an existing or future water supply well located within 1000 feet of the limits of solid waste placement of the sanitary landfill facility. The uppermost aquifer system beneath the landfill facility (lower sand) meets this definition of a high yield aquifer.

Documentation was submitted to characterize the soil media and hydrogeologic properties beneath the landfill facility and to demonstrate that there is little potential for landfill activities to impact the high yield aquifer.

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 or license or comply with other requirements of ORC Chapter 3734.

The owner or operator has demonstrated that the thickness and low permeability of the lower till unit (which is present between the landfill and the high yield aquifer) act to retard downward ground water flow, posing a barrier to potential leachate releases. The owner or operator documented evidence in support of this demonstration including high blow counts of the lower till, the absence of ground water impacts, high hydraulic head differences, tritium analysis, and an extensive pumping test of the high yield aquifer. As part of this demonstration, the owner or operator calculated the vertical time-of-travel through the lower till to be between 290 and 460 years. This time-of-travel analysis is conservatively protective for the vertical expansion in that it was performed assuming a considerably thinner till thickness than is actually present between existing waste and the high yield aquifer. Considering these results, granting an exemption from OAC Rule 3745-27-07(H)(2)(d) 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 exempted from OAC Rule 3745-27-07(H)(2)(d), which requires that a sanitary landfill facility not be located above an unconsolidated aquifer system capable of sustaining a yield of 100 gpm for a 24-hour period to an existing or future water supply well located within 1000 feet of the limits of solid waste placement of the sanitary landfill facility, provided that the permittee complies with the permit.