

# OHIO ENVIRONMENTAL PROTECTION AGENCY

## PERMIT TO INSTALL

AUG 10 2011

ENTERED DIRECTOR'S JOURNAL

**Application Number:** 06-08446  
**Application Received:** December 14, 2010  
**Permit Fee:** \$6,990.00  
**Permit Fee Balance:** \$6,590.00

**Applicant:** Cardinal Operating Company  
**Address:** P.O. Box B  
Brilliant, Ohio 43913

**Facility:** Cardinal FAR1 Residual Waste Landfill

**Location:** The facility is located approximately one mile north of the Cardinal Plant which is located near Brilliant, Ohio. The facility is within Wells Township, Jefferson County.

**Permit:** Lateral and Vertical Expansion

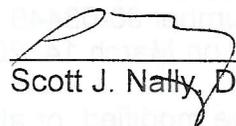
**Issuance Date:** AUG 10 2011

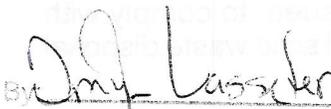
**Effective Date:** AUG 10 2011

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

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

  
\_\_\_\_\_  
Scott J. Nally, Director

By  Date: 8-10-11

### PERMIT SUMMARY

This FINAL permit to install (PTI Number 06-08446) authorizes partial lateral and vertical expansion and partial lateral and vertical retraction of the approved limits of waste placement at the Cardinal FAR1 Residual Waste Landfill (Facility), an existing residual solid waste landfill in Jefferson County. With the partial retraction of the permitted limits of waste placement within the northern portion of Cell 3, six existing ground water monitoring wells will be retained. The Cardinal Operating Company is the applicant for the permit.

The expansion will create a net additional 699,000 cubic yards of permitted airspace which increases the total disposal capacity to 18,943,000 cubic yards. The total acreage within the limits of waste placement will increase from 126.97 acres to 129.45 acres. The anticipated daily waste receipt for the Facility is 4,050 tons.

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 (residual solid waste disposal facility).
2. The Facility shall be constructed in strict accordance with the plans, specifications, and information submitted to Ohio EPA which constitute this permit. There shall be no deviation from the approved permit or the permit conditions without the express, written approval of Ohio EPA. Any deviation from the approved permit or the permit conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of this permit does not constitute an assurance that the Facility will operate in compliance with all Ohio laws and regulations. Additional landfill 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 those facilities shown on the plans submitted as part of PTI Application Number 06-08446 received on December 14, 2010, with subsequent revisions received on March 14, 2011.
5. This permit may be modified, or alternatively revoked and reissued, to comply with any revisions to OAC Chapter 3745-30 applicable to this residual 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 3745-30.
7. Nothing in this permit shall be construed to authorize any waiver from the requirements of any applicable federal or state laws or regulations except as specified herein. 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.
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 days prior to starting any construction authorized by this permit, the permittee shall submit to Ohio EPA, Southeast District Office (SEDO), Division of Materials and Waste Management (DMWM) written notification of the anticipated construction start date, so that construction of this Facility can be routinely inspected by Ohio EPA, SEDO, DMWM before the Facility is 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 3745-30 as follows:
  - a. The test pad required by OAC Rule 3745-30-07(F)(1) shall be constructed as necessary and a report containing the test results shall be submitted to Ohio EPA, SEDO, DMWM not later than 14 days prior to the initial construction date of the landfill component that the test pad models. Each lift of the test pad shall be tested for the maximum dry density and optimum moisture content according to ASTM D698-00a (standard proctor) or ASTM D1557-00 (modified proctor), for grain size distribution using ASTM D422-63 (sieve and hydrometer), and for Atterberg limits using ASTM D4318-00. The test methods above shall be performed at least twice for each lift of the test pad.
  - b. The pre-construction tests required by OAC Rule 3745-30-07(D) shall be performed and the test results submitted to Ohio EPA, SEDO, DMWM not later than seven days prior to the intended use of the materials in construction.
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 Residual Solid Waste Landfill Facility Inspection Checklist. Written results of the inspections, including any corrective actions taken, shall be made available to Ohio EPA upon request.
  - b. Surface water control structures, including sedimentation ponds, sedimentation pond discharge structures, pipes, ditches, and culverts, shall be inspected at least weekly for erosion, clogging, or failure, and prompt corrective action shall be taken, if necessary. A log documenting inspection results, any corrective actions taken, any water quality samples taken, and the date and weather conditions during any water quality sampling shall be maintained on site and submitted to Ohio EPA, SEDO upon request.
  - c. To ensure proper operation of sedimentation pond(s), the pond(s) shall be cleaned out when the sediment storage volume, as measured at the principal spillway, has reached 60 percent of the height of the principal spillway. This height shall be measured from the base of the sedimentation pond to the inlet elevation of the principal spillway.
13. Protective cover material and granular drainage layer material shall be placed from the bottom of the slope to the top of the slope and not across the slope or down the slope on all slopes that exceed a grade of 15 percent.

**END OF PERMIT CONDITIONS**