



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center  
122 S. Front Street  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

MAR 18 2002

Robin L. Jones, Project Manager  
Waste Management, Inc.  
Closed Site Management  
4010 Powell Road  
Huber Heights, OH 45424

**Re: Akron Landfill (a.k.a. Hazel Street Landfill), Summit County  
Explosive Gas Monitoring Plan Approval**

OHIO E.P.A.  
MAR 18 2002  
ENTERED DIRECTOR'S JOURNAL

Dear Ms. Jones:

On December 31, 1996, the Ohio Environmental Protection Agency (Ohio EPA) received a document titled *Explosive Gas Monitoring Plan, System Design and Sampling & Reporting Procedures, Akron Landfill, Akron, Summit County Ohio, December 1996*. The document was prepared by Rust Environment & Infrastructure of Ohio Inc. on behalf of Waste Management of Ohio Inc. (WMI). The Akron Landfill, also known as the Hazel Street Landfill, is a closed municipal solid waste disposal facility located at 1130 Eastwood Avenue in the City of Akron, Summit County. Owned and operated by WMI, the landfill closed in 1977.

The document represents an explosive gas monitoring plan prepared in accordance with Ohio Administrative Code (OAC) Rule 3745-27-12, as effective on June 1, 1994. The rule requires the owner or operator of a closed landfill to submit an explosive gas monitoring plan for approval.

Ohio EPA has reviewed the plan, and we have determined that it fulfills the requirements of OAC Rule 3745-27-12. Therefore, the explosive gas monitoring plan for the closed Akron Landfill is hereby approved. This approval is subject to the following conditions:

1. Within 90 days from the date of this approval, WMI shall submit four complete, revised copies of an explosive gas monitoring plan for approval in accordance with OAC Rule 3745-27-12(N). Revisions to the plan shall include, but may not be limited to, the following:

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

*Maureen O'Connor* 3/18/02

Bob Taft, Governor  
Maureen O'Connor, Lieutenant Governor  
Christopher Jones, Director

- a. Identification of all on-site and off-site structures and occupied structures within 1,000 feet of the limits of waste placement pursuant to OAC Rule 3745-27-12(D)(2)(a)(iv).
- b. Identification of all other potential sources of explosive gas within 1,000 feet of the limits of waste placement, pursuant to OAC Rule 3745-27-12(D)(2)(b)(vi). Such sources shall include, but are not limited to, historical solid waste and construction/demolition debris disposal sites.
- c. Proposed permanent monitor locations between the limits of waste placement and all occupied structures within 200 feet of the limits of waste placement, pursuant to OAC Rule 3745-27-12(E)(1)(b). Where permanent monitors cannot be located, explosive gas alarms shall be used in occupied structures.
- d. Proposed temporary or permanent monitor locations between the limits of waste placement and all occupied structures within 1,000 feet of the limits of waste placement but not identified in accordance with Condition Number 1.c., pursuant to OAC Rule 3745-27-12(E)(1)(b).
- e. Identification of all regulatory authorizations granted to this site, pursuant to OAC Rule 3745-27-12(D)(3)(c). Authorizations shall include, but are not limited to, any orders issued by Ohio EPA or the Akron City Health Department; any plan approvals issued by Ohio EPA, the Ohio Department of Health, or the Akron City Health Department; any authorizations issued pursuant to OAC Rule 3745-27-13; and any air emission or water discharge permits issued by Ohio EPA.
- f. Review procedure and summary of historical records pertaining to explosive gas investigations, inspections, or complaints pursuant to OAC Rule 3745-27-12(D)(4)(a).
- g. Proposed permanent monitor locations, pursuant to OAC Rule 3745-27-12(D)(5)(a), including depths and identification designations. The plan must include an installation schedule of all permanent and temporary monitoring locations installed at the site, dates of installation, use status (currently in-use or abandoned), and abandonment date, if applicable. For monitoring locations currently in use at the site, clearly identify the monitoring frequency of each.
- h. Permanent monitor construction methods, materials, installation procedures, quality assurance, and security measures, pursuant to OAC Rule 3745-27-

12(D)(5)(b). Details on the methods of construction, materials used, installation procedures, quality assurance and quality control, and security measures employed for existing monitoring and extraction system components installed prior to 1996, as well as proposed permanent monitors.

- i. Statement of purpose and design rationale of the explosive gas monitoring system pursuant to OAC 3745-27-12(D)(6). The plan must include a rationale of why permanent and temporary monitors were not included along any perimeters of the landfill which will not contain permanent or temporary monitor locations.
  - j. A revised contingency plan meeting the requirements of OAC Rule 3745-27-12(F)(4). The revised plan shall indicate the extent to which monitoring frequency will be increased based upon validated detection of explosive gas migration.
  - k. Appendices of the explosive gas monitoring plan shall be revised to include the following:
    - i. Revised equipment manuals, if equipment used in monitoring has been replaced.
    - ii. Construction specifications and boring logs for permanent monitors, pursuant to OAC Rules 3745-27-12(F)(6)(a), 3745-27-12(G)(2), and 3745-27-12(G)(3). Appendices of the plan shall include construction specifications for existing permanent monitors as well as proposed monitors.
    - iii. A revised reporting form which includes the information required by OAC Rule 3745-27-12(I)(3). Revised forms shall include, but are not limited to, ambient barometric pressure and relative humidity.
    - iv. Geologic boring logs required pursuant to OAC Rules 3745-27-12(F)(6)(e) and 3745-27-12(D)(2)(c).
2. Within 150 days from the effective date of this approval, WMI shall implement revisions to the explosive gas monitoring system. Implementation shall include installation and monitoring of additional temporary and permanent monitors and continuous alarms, pursuant to OAC Rule 3745-27-12(E).

3. Gas condensate collected from the gas control system shall be managed as leachate in accordance with OAC Rule 3745-27-19(K)(5) and Ohio Revised Code (ORC) Chapter 6111 and the regulations adopted thereunder.
4. Nothing in this letter shall be construed to authorize any waiver from the requirements of any applicable state solid waste laws or regulations. Furthermore, this authorization shall not be interpreted to release WMI or others from responsibility under ORC Chapters 3704, 3714, 3734, or 6111; under the Federal Clean Water Act, the Resource Conservation and Recovery Act, the Toxic Substances Control Act, or the Comprehensive Environmental Response, Compensation, and Liability Act; or from other applicable requirements for remedying conditions resulting from any release of contaminants from the facility to the environment.

You are hereby notified that this action of the Director of Environmental Protection is final and may be appealed to the Environmental Review Appeals Commission pursuant to ORC Section 3745.04. The appeal must be made in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the commission within 30 days after notice of the director's action. A copy of the appeal must be served on the director within three days of filing with the commission. An appeal may be filed with the commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street  
Room 300  
Columbus, Ohio 43215

If you have any questions concerning this authorization, please contact John Schmidt of Ohio EPA's Northeast District Office at (330) 963-1200.

Sincerely,



Christopher Jones  
Director

cc: Lynn Sowers, Ohio EPA, DSIWM, NEDD  
Scott Hester, Ohio EPA, DSIWM, CO ✓  
Ed Dieringer, Akron Health Department