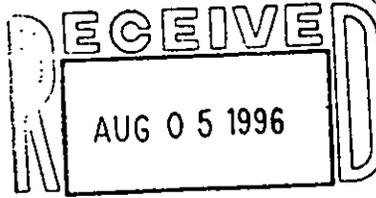




State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149
(614) 644-3020
FAX (614) 644-2329



George V. Voinovich
Governor

Donald R. Schregardus
Director

NOVAA
STEUBENVILLE, OHIO 43952

December 30, 1992

Re: Harrison County Sanitary Landfill
Permit to Install: New Facility
Appl. No.: 17-785

CERTIFIED MAIL

Chambers Development of Ohio, Inc.
Attn: Robert T. Lawry, Vice President
232 South Main Street
P.O. Box 1
Cadiz, Ohio 43907

Dear Mr. Lawry:

The Ohio Environmental Protection Agency, pursuant to Ohio Revised Code Chapter 3734 and the rules adopted thereunder, has reviewed the application for a permit with accompanying detail plans, specifications and/or information (hereinafter referred to as "application") regarding the above-referenced facility. This application has been approved by the Director subject to the conditions of compliance contained in the permit approval enclosed herewith and with all applicable laws, rules and standards. All construction must be supervised by an engineer or expert qualified in such work. Because the permit approval contains conditions of compliance, I urge you to read it carefully.

You are requested to submit within fifteen (15) days of the date of issuance of this Permit to Install, the required permit fee of seventy-nine thousand, six hundred dollars (\$79,600.00) (\$80,000.00 - \$400.00 application fee = \$79,600.00), payable to the Treasurer, State of Ohio. Please send the required payment to:

Ohio Environmental Protection Agency
Fiscal Administration
1800 WaterMark Drive
P.O. Box 1049
Columbus, OH 43266-0149

Payment of the \$79,600.00 fee within 15 days is a condition of your Permit to Install. Failure to submit the fee as required will invalidate the Permit to Install as issued.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Board of Review pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action

Chambers Development of Ohio, Inc.
Mr. Robert T. Lawry
December 30, 1992
Page Two

complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Board. An appeal may be filed with the Environmental Board of Review at the following address:

Environmental Board of Review
236 East Town Street
Room 300
Columbus, Ohio 43215

If you have any questions, please contact the Ohio EPA District Office to which you submitted your application.

Very truly yours,

Thomas E. Crepeau

Thomas E. Crepeau, Manager
Data Management Section
Division of Solid and Infectious Waste Management

TEC/dhs

Enclosures

cc: Scott Hester, DSIWM, CO ✓
Grover Thompson, DDAGW, CO
Rob Berger, PIC
Stuart Bruny, Chief, SEDO
Steve Williams, DDAGW, SEDO
Fred Klingelhafer, DAPC, SEDO
Pat Deluca, NOVAA
Harrison County Health Department
Carroll, Columbiana, Harrison Counties
Solid Waste Management District
Ron Landis, Chambers Development Company, Inc.

ptifinalltr(24-25)

OHIO ENVIRONMENTAL PROTECTION AGENCY

FEE STATEMENT

Ohio ID No.: 34-00-04

Date: December 30, 1992

Pursuant to Section 3745.11(F) of the Ohio Revised Code, a permit fee of
\$79,600.00 (\$80,000.00 - \$400.00 application fee = \$79,600.00)

is required for Permit to Install No.: 17-785.

Issued To:

Name Chambers Development of Ohio, Inc.
Address 232 South Main Street
Cadiz, Ohio 43907

Solid Waste Facility Information:

Facility Name Harrison County Sanitary Landfill
Facility Address State Route 9
Facility City Cadiz
Facility County Harrison
Facility Township Archer

Issued On:

December 30, 1992

You are requested to submit the above-mentioned fee within fifteen (15) days of the issuance of this permit. Failure to submit the required fee will invalidate the Permit to Install as issued.

MAKE CHECKS PAYABLE TO: Treasurer, State of Ohio

Please send the required payment and a copy of this invoice to:

Ohio Environmental Protection Agency
Attn: Fiscal Administration
1800 WaterMark Drive
P.O. Box 1049
Columbus, Ohio 43266-0149

OHIO ENVIRONMENTAL PROTECTION AGENCY

PERMIT TO INSTALL

Application No.: 17-785

Application Received: 03/07/90

Permit Fee: \$80,000.00

Applicant: Chambers Development of Ohio, Inc.

Address: 232 South Main Street, P.O. Box 1

City: Cadiz State: Ohio 43907

Telephone: (614) 942-8211

Name, Location, and Description of Proposed Source:

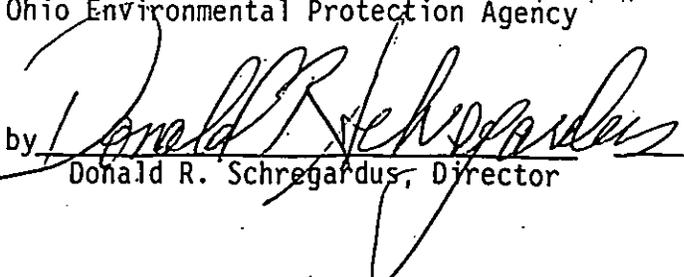
Harrison County Sanitary Landfill
Approximately 941 acres, located on the east side of
St. Rt. 9, approximately two miles north of U.S. Rt. 22
and Cadiz, Ohio.
Archer Township
Harrison County
Permit to Install: New Facility

Issuance Date: December 30, 1992

Effective Date: December 30, 1992

The above named entity is hereby ISSUED a permit approval (Permit to Install) for the above described source pursuant to Rule 3745-31 of the Ohio Administrative Code. Issuance of this permit approval (Permit to Install) 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 (Permit to Install) is issued subject to the attached conditions which are hereby incorporated and made a part hereof.

Ohio Environmental Protection Agency

by 
Donald R. Schregardus, Director

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.

By: John Mackey Date: 12/30/92

OHIO E.P.A.

DEC 30 92

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PTI SUMMARY

This permit to Install (PTI) approves the construction and operation of the proposed Harrison County Sanitary Landfill facility, owned by Chambers Development of Ohio, Inc.

The site is approximately 941 acres in size and includes a solid waste disposal area of approximately 259 acres. The PTI authorizes a maximum daily waste receipt of 5,000 tons. The operation life of the landfill will be approximately 24 years at the maximum rate, or approximately 48 years at the average rate. The facility will contain approximately fifty-eight (58) million cubic yards of solid waste when completely filled.

This landfill will incorporate into its construction Best Available Technology (BAT) features including a composite (clay/geomembrane) liner system, a leachate collection and management system, a surface water management system, a ground water monitoring system, an explosive gas extraction system, and a final closure cap system.

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

PTI CONDITIONS

Substantial construction for installation must take place within eighteen (18) months of the effective date of this permit. This deadline may be extended by up to twelve (12) months, if application is made to the Director no less than sixty (60) days before the expiration of this permit and the party shows good cause for any such extension.

The Director of Environmental Protection (Director), or his authorized representatives, may enter upon the premises of the above named applicant (permittee) during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, examining records or reports pertaining to the construction, modification or installation of the above described source of environmental pollutants (solid waste disposal facility).

The proposed source shall be constructed in accordance with the plans and application submitted for this permit to the Director. There may be no significant deviation from the approved plans without the express, written approval of the Ohio Environmental Protection Agency (Ohio EPA). Any

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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.

Mark Mackey Date 12/30/92

deviation from the approved plans or the following conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute any assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio EPA if the proposed solid waste disposal facility is inadequate or cannot meet applicable standards.

Issuance of this permit does not relieve the applicant of the duty to comply with all applicable federal, state, and local laws, ordinances, and regulations.

- 1) This approval shall only apply to those facilities shown on the plans submitted as part of the permit to install application.
- 2) The authorized maximum daily waste receipt is five-thousand (5000.0) tons.
- 3) The permit may be modified, or alternatively revoked and reissued, to comply with any revisions to Chapters 3745-27 and 3745-31 of the Ohio Administrative Code (OAC) applicable to this solid waste disposal facility.
- 4) The permittee shall provide for the proper maintenance and operation of the solid waste disposal facility in accordance with the provisions of OAC Chapter 3745-27.
- 5) Nothing in this permit shall be interpreted to release the permittee from responsibility under Chapters 3704, 3734, or 6111 of the Ohio Revised Code (ORC), under the Federal Clean Water or Comprehensive Environmental Response, Compensation, and Liability Acts or other applicable laws for remedying conditions resulting from any release of contaminants to the environment.
- 6) This permit does not include approval for the acceptance of any hazardous or infectious waste, except for those excluded from hazardous waste or infectious waste regulation by ORC Chapter 3734.
- 7) This permit does not provide for 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.

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.

Niki Mackey

Date

12/30/92

DEC 30 92

ENTERED DIRECTOR'S JOURNAL

- 8) The Ohio EPA's Southeast District Office and the Harrison County Health Department shall be notified of the construction starting date prior to the start of construction on each of the facility's phases so that construction of this facility can be routinely inspected by the Ohio EPA's Southeast District Office and the Harrison County Health Department before the phases are placed in operation.
- 9) The permittee shall perform the following activities during construction and operation of the facility in accordance with the cited provision of (OAC) Chapter 3745-27 as follows:
 - a) The test pad(s) required by OAC Rule 3745-27-08(F)(1) shall be constructed and a report containing the test results shall be submitted to the Ohio EPA's Southeast District Office no later than fourteen (14) days prior to the initial construction date of the landfill component which the test pad(s) models.
 - b) The earthen material tests required by OAC Rule 3745-27-08(D) shall be performed and the results submitted to the Ohio EPA's Southeast District Office no later than seven (7) days prior to the intended use of the material in construction.
 - c) The construction certification report required by OAC Rule 3745-27-08(B) shall be submitted to the Ohio EPA's Southeast District Office no later than thirty (30) days prior to the anticipated date of waste receipt in the newly constructed phase(s).
- 10) The permittee shall provide for the following inspections and maintenance of the facility:
 - a) The permittee shall provide for daily inspection of the landfill and completion of the daily inspection checklist and the solid waste disposal facility daily log of operations. Written results of the inspections, including any corrective measures employed, shall be made available to the Ohio EPA's Southeast District Office and the Harrison County Health Department, if on the Director's approved list, 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

OHIO E.P.A.

DEC 30 92

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By: Niki Mackey Date 12/30/92

if necessary. A log including inspection results, any corrective measures, and the date and weather conditions for any water quality samples, shall be maintained and submitted to the Ohio EPA's Southeast District Office and Harrison County Health Department; if on the Director's approved list, upon request.

- c) - Sedimentation ponds shall be cleaned out in accordance with the frequencies specified on Page "3-14", within Section 3.5.2. "Runoff", or when the volume of settled particles necessitates cleaning based either on inspection results or to maintain the storage volume required by OAC Rule 3745-27-08(C)(6)(d).
- 11) The permittee shall, prior to waste being disposed of at the facility, implement a Ground Water Monitoring Program which meets the requirements of OAC Rule 3745-27-10. Implementation is defined as obtaining ground water samples in accordance with the approved Ground Water Monitoring Program Plan. If any changes or additions are made to the Ground Water Monitoring Program, the written plan must be updated and submitted to the Ohio EPA's Southeast District Office prior to implementation of the changes.
- 12) Prior to waste placement at the facility, the permittee shall install proposed well clusters MW-310, 307, 305, 304, 302, 301; and 123. Water levels in these well clusters shall be monitored on a semi-annual basis once the wells are constructed. Water level monitoring shall continue throughout the life the facility. All groundwater levels shall be recorded within 24 hours of each other for all wells at the facility during the semi-annual events. A well cluster is to include one monitoring well in the shallow significant zone of saturation and one monitoring well in the regional aquifer.
- 13) The permittee shall comply with Ohio EPA policies GD0202.104 and DSIWM-01-01-001 for selecting and placing the "low permeability fill" material specified in the permit application.
- 14) The permittee shall, within 30 days of the effective date of this permit, submit a revised Ground Water Monitoring Program Plan that includes the following changes to the number, spacing and depth of ground water monitoring wells:
 - a) The commencement of monitoring the MW-312 well cluster prior to the placement of waste in the Phase-7 Area.

OHIO E.P.A.

DEC 30 92

ENTERED DIRECTOR'S JOURNAL

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,

By: Niki Mackey Date 12/30/92

- b) Add two shallow monitoring wells into the shallow significant zone of saturation at the toe of the Phase I portion of the landfill on opposite sides of the stream, approximately 50 feet apart. In addition add one deep monitoring well into the regional aquifer system at the toe of the Phase I portion of the landfill next to the stream.
 - c) Add two well clusters on the slopes of the valley between the well clusters required in condition 14(b) and well clusters MW-316 and MW-314. A well cluster is to include one monitoring well in the shallow significant zone of saturation and one monitoring well in the regional aquifer.
 - d) Add shallow wells (first water bearing zone encountered) at locations 314 and 316.
 - e) Abandon MW-103A and MW-103B prior to waste placement in phase I and replace with a well cluster approximately 250 feet to the southwest. See condition 14(c).
 - f) Move the location of MW-304 approximately 100 feet northwest to the center of drainage.
 - g) Move the location of MW-308 approximately 100 feet northwest.
 - h) Move the location of MW-312 approximately 100 feet south to the center of drainage.
 - i) Move the location of MW-316 approximately 200 feet downslope (west).
- 15) The permittee is not required to analyze ground water samples from monitoring well clusters MW-304, 305, 306, 307, and 308 per OAC rule 3745-27-10 until such time as those wells are downgradient of the active solid waste disposal area.
- 16) The permittee shall, within 30 days of the effective date of this permit, submit to Ohio EPA's Southeast District Office, for approval, a proposal to monitor ground water outfall GO-309 on a weekly basis for specific conductivity, in addition to regularly quarterly sampling. The proposal shall include a means of determining a significant increase and the triggering of additional sampling.

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By: Niki Mackey Date 12/30/92

- 17) The permittee shall, within 30 days of the effective date of this permit, revise the methodology for decommissioning wells located at the facility. The permittee shall attempt to pull the casing and over-drill the well and fill the bore hole with a cement/bentonite grout.
- 18) The permittee shall install the facility's underdrain system, at a minimum, in the locations shown on plan sheet drawing "7C" and to a depth which will allow it to be interfaced with the actual bedrock surface. Alterations are acceptable through written concurrence from Southeast District Office, if it is not feasible to place the drain at the bedrock interface.
- 19) The permittee shall comply with the requirements of OAC Rule 3745-27-14(A)(3) during the thirty (30) year minimum post-closure care period.
- 20) The permittee shall comply with the requirements of OAC rule 3745-27-08(F)(3) during the placement of all recompacted soil liner material and all recompacted soil barrier layer material at the facility.
- 21) The permittee shall comply with the requirements of OAC rule 3745-27-08(F)(4)(a), (b) and (c) during the placement of all geomembranes at the facility.
- 22) The permittee shall comply with the requirements of OAC rule 3745-27-08(F)(2).
- 23) The permittee shall revise the design of sedimentation pond #3 to a more conventional configuration to eliminate potential maintenance problems that may be caused by the inlet location and rectangular area at the western end of the pond. The revised design must be submitted to Ohio EPA's Southeast District Office, for approval, prior to construction of the pond at the facility.
- 24) The permittee shall comply with the requirements of OAC rule 3745-27-08(G) during the construction of this facility.
- 25) The financial assurance instrument shall be executed prior to issuance of a final permit to install and funded not later than thirty (30) days after issuance of a final permit, as specified in Ohio Administrative Code Rule 3745-27-15. If the instrument cannot be executed without concurrent funding, or if execution and funding are essentially the same, then the action must take place no later than thirty (30) days after the issuance of a final permit to install.

OHIO E.P.A.

DEC 30 92

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.

By: Ash Mackey Date 12/30/92

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Harrison County Sanitary Landfill
Harrison County
Page 8

END OF CONDITIONS

Payment of the required eighty thousand dollar (\$80,000.00) Permit to Install fee, payable to: "Treasurer, State of Ohio", shall be forwarded to the Ohio EPA, ATTN: Fiscal Administration, 1800 WaterMark Drive, P.O. Box 1049, Columbus, Ohio, 43266-0149, within fifteen days of the effective date of this permit. Failure to submit the fee in time will invalidate the PTI.

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.

By: Lili Mackey Date 12/30/92

OHIO E.P.A.
DEC 30 92
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