



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL  
MAHONING COUNTY**

**CERTIFIED MAIL**

Street Address:

Mailing Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Lazarus Gov.  
Center

**Application No:** 02-20127

**Fac ID:** 0250000840

**DATE:** 5/15/2007

Mahoning Landfill, Inc.  
Jerry Ross  
7916 Chapel St., SE  
Waynesburg, OH 44688

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43216-1049.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$1200** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

*Michael W. Ahern*

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

NEDO

EASTGATE DEV & TRANSPORTATION STUDY

PA

WV

**MAHONING COUNTY**

**PUBLIC NOTICE  
ISSUANCE OF DRAFT PERMIT TO INSTALL **02-20127** FOR AN AIR CONTAMINANT SOURCE  
FOR **Mahoning Landfill, Inc.****

On 5/15/2007 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Mahoning Landfill, Inc.**, located at **3510 Garfield Rd., New Springfield**, Ohio.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 02-20127:

**Vertical landfill expansion and increase in the acceptable maximum daily waste receipts**

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

Dennis Bush, Ohio EPA, Northeast District Office, 2110 East Aurora Road, Twinsburg, OH 44087  
[(330)425-9171]



**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT PERMIT TO INSTALL 02-20127**

Application Number: 02-20127  
Facility ID: 0250000840  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Mahoning Landfill, Inc.  
Person to Contact: Jerry Ross  
Address: 7916 Chapel St., SE  
Waynesburg, OH 44688

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**3510 Garfield Rd.  
New Springfield, Ohio**

Description of proposed emissions unit(s):  
**Vertical landfill expansion and increase in the acceptable maximum daily waste receipts**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

---

Chris Korleski  
Director

Mahoning Landfill, Inc.

Facility ID: 0250000840

PTI Application: 02-20127

Issued: To be entered upon final issuance

Part I - GENERAL TERMS AND CONDITIONS

**A. State and Federally Enforceable Permit-To-Install General Terms and Conditions**

**1. Monitoring and Related Recordkeeping and Reporting Requirements**

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written

**Mahoning Landfill, Inc.**

**Facility ID: 025000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## **2. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the

**Mahoning Landfill, Inc.**

**Facility ID: 0250000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

permittee shall comply with the requirement to register such a plan.

**Mahoning Landfill, Inc.**

**Facility ID: 025000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

**4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

**5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

**6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the

**Mahoning Landfill, Inc.**

**Facility ID: 0250000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

**Mahoning Landfill, Inc.**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

**Facility ID: 0250000840**

**7. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

**9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

**Mahoning Landfill, Inc.**

**Facility ID: 0250000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

- iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

#### **10. Permit-To-Operate Application**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

#### **11. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

#### **12. Air Pollution Nuisance**

**Mahoning Landfill, Inc.**

**Facility ID: 0250000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**Mahoning Landfill, Inc.**

**Facility ID: 0250000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

**13. Permit-To-Install**

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

**B. State Only Enforceable Permit-To-Install General Terms and Conditions**

**1. Compliance Requirements**

The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

**2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**3. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing

13

**Mahoning Landfill, Inc.**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance  
of any transfer of this permit.**

**Facility ID: 0250000840**

**Mahoning Landfill, Inc.**

**Facility ID: 0250000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

**4. Authorization To Install or Modify**

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**5. Construction of New Sources(s)**

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**6. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**7. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**8. Construction Compliance Certification**

**Mahoning Landfill, Inc.**

**Facility ID: 0250000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**C. Permit-To-Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	98

**Mahoning Landfill, Inc.**

**Facility ID: 0250000840**

**PTI Application: 02-20127**

**Issued: To be entered upon final issuance**

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment - (F001) - Facility roadways and parking areas.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>There shall be no visible particulate emissions of fugitive dust from any unpaved roadway or parking area surface except for a time not to exceed 3 minutes during any 60-minute observation period.</p> <p>There shall be no visible particulate emissions of fugitive dust from any paved roadway or parking area surface except for a time not to exceed 1 minute during any 60-minute observation period.</p> <p>Particulate emissions shall not exceed 50 tons per year.</p> <p>See section A.I.2.f below.</p>
OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

**2. Additional Terms and Conditions**

- 2.a All roadways and parking areas are covered by this permit and subject to the above-mentioned requirements.
- 2.b In accordance with the permittee's permit application, the permittee has committed to treat the roadways and parking areas with water via a spray truck at sufficient treatment frequencies to ensure compliance and to limit vehicles to a speed of 10 miles per hour. If watering and speed reduction are not sufficient to control emissions, Ohio EPA may require additional fugitive dust control measures. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

Emissions Unit ID: F001

- 2.c** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections, pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for any roadway or parking area that is covered with snow and/or ice, or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface resulting from the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- 2.e** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.f** There shall be no visible particulate emissions except for one (1) minute during any 60-minute period from any paved roadway area surface where facility vehicles enter or leave the premises as a result of material drag out.
- 2.g** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times, if the control measure is necessary for the materials being transported.
- 2.h** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology (BAT) requirements of OAC rule 3745-31-05.
- 2.i** If control measures for the minimization of the deposit of mud or dust on public roads are insufficient to achieve compliance with applicable emission limitations and/or control requirements, Ohio EPA may require the permittee to submit to NEDO an approvable plan and schedule for the design, installation, maintenance, and operation of a wheel and undercarriage washing station that shall be used by all vehicles leaving the facility. The design shall include adequate onsite travel distance on well-maintained surfaces to allow the vehicles to properly "throw off" any excess water the truck wheels may hold to

Emissions Unit ID: F001

eliminate the potential of causing water slicks, ice, etc. from forming on any public thoroughfares.

## II. Operational Restrictions

1. Used oil, as defined by OAC rule 3745-279-01, shall not be used as a dust suppressant.
2. The permittee shall have posted speed limit signs identifying 10 miles per hour as the maximum on-site speed limit on unpaved roadways.

## III. Monitoring and/or Record keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform daily inspections of the roadways and parking areas.
2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the Northeast District Office of Ohio EPA, modify the above-mentioned inspection frequencies, if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in section A.III.4.d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and

**Mahoning Landfill, Inc.**  
**DTL Application: 02 20127**

**Facility ID: 0250000840**

Emissions Unit ID: F001

shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

**Issued: To be entered upon final issuance**

**IV. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

**V. Testing Requirements**

1. Compliance with the emission limitations specified in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:

There shall be no visible particulate emissions of fugitive dust from any unpaved roadway or parking area surface except for a time not to exceed 3 minutes during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the emission limitation for unpaved roadways and parking areas shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.
  - b. Emission Limitation:

There shall be no visible particulate emissions of fugitive dust from any paved roadway or parking area surface except for a time not to exceed 1 minute during any 60-minute observation period.

**Issued: To be entered upon final issuance**

## Applicable Compliance Method:

Compliance with the emission limitation for paved roadways and parking areas shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

## c. Emission Limitation:

Particulate emissions shall not exceed 50 tons per year.

## Applicable Compliance Method:

$$E_{paved} \left( \frac{\text{ton}}{\text{yr}} \right) = 0.52 * \left( k_{paved} * \left( \frac{sL}{2} \right)^{0.65} * \left( \frac{W}{3} \right)^{1.5} - C \right) * \left( 1 - \frac{P}{4N} \right) * \left( \frac{\text{ton}}{2000lb} \right) * (MILESpaved) \left( \frac{MATLin}{Avgpayload} \right)$$

Compliance shall be determined by summing the emissions from the equations from AP-42 Chapters 13.2.1 (11/06) for paved and 13.2.2 (11/06) for unpaved roadways below:

$$E_{unpaved} \left( \frac{\text{ton}}{\text{yr}} \right) = 0.56 * \left[ \frac{k_{unpaved} * \left( \frac{s}{12} \right)^a \left( \frac{S}{30} \right)^d}{\left( \frac{M}{0.5} \right)^c} - C \right] * \left[ \frac{365 - P}{365} \right] * \left( \frac{\text{ton}}{2000lb} \right) * (MILESunpaved) \left( \frac{MATLin}{Avgpayload} \right)$$

where:

$k_{paved}$  = the particle size multiplier for paved roadways, 0.082 lb/VMT for TSP on public access roads;

$sL$  = the road surface silt loading, 0.015 g/m<sup>2</sup> default value limited access roads;

$W$  = the mean vehicle weight, 27.5 tons, from application;

**Issued: To be entered upon final issuance**

C = the emission factor for 1980's vehicle fleet exhaust, brake wear and tear, 0.00047 lb/VMT;

P = the number of days with more than 0.01 inch of precipitation, 157.8 for Youngstown;

N = the number of days in the averaging period , (365/yr);

kunpaved = the particle size multiplier for unpaved roadways, 6 lbs/VMT for TSP on public access roads;

s = the surface material silt content, 6.4 % assumed;

S = the established speed limit, 10 mph;

M = the moisture content of the surface, assumed 10%;

a = a constant, 1 for TSP on public access roads;

c = a constant, 0.3 for TSP on public access roads;

d = a constant, 0.3 for TSP on public access roads;

MILESpaved = the total miles traveled on paved roads, round trip, from application 0.4 mile;

MILESunpaved = the total miles traveled on unpaved roads, round trip, from application 1.8 miles;

MATLin = the projected annual waste, aggregate, and sand brought on site, estimated from application 1,825,000 tons; and

Avgpayload = the average amount of waste brought in each truck, from application 10 tons/truck.

d. Emission Limitation:

There shall be no visible particulate emissions of fugitive dust from any paved roadway area surface where facility vehicles enter or leave the premises as a result of material drag out except for a time not to exceed 1 minute during any 60-minute observation period.

**Mahoning Landfill, Inc.**  
DTI Application: 02-20127

**Facility ID: 0250000840**

Emissions Unit ID: F001

Applicable Compliance Method:

Compliance with this emission limitation shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**VI. Miscellaneous Requirements**

None

**Issued: To be entered upon final issuance**

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment - (F001) - Facility roadways and parking areas.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Issued: To be entered upon final issuance**

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment - (F002) - Municipal Solid Waste (MSW) Landfill - operations - waste disposal activities including dumping, spreading, compacting, covering, and gas generation.**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(A)(3)	<p>Particulate emissions of fugitive dust shall not exceed 28.5 tons per year.</p> <p>Visible particulate emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average.</p> <p>Use of fugitive dust control measures at sufficient frequencies to comply with the above emission limitations.</p>
<p>40 CFR Part 60, Subpart WWW</p> <p>OAC Chapter 3745-76</p>	The requirements of these applicable rules are equivalent to the requirements established pursuant to OAC rule 3745-31-05(A)(3).
<p>40 CFR Part 61, Subpart M</p> <p>OAC Chapter 3745-20</p>	<p>This landfill shall not accept regulated asbestos-containing materials (RACM).</p> <p>The requirements of these applicable rules are equivalent to the requirements established pursuant to OAC rule 3745-31-05(A)(3).</p>
OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

**Issued: To be entered upon final issuance**

## **2. Additional Terms and Conditions**

- 2.a** When the landfill is closed, the permittee is no longer subject to the requirement to maintain an operating permit under part 70 or 71 of this chapter for the landfill if the landfill is not otherwise subject to the requirements of either Part 70 or 71, provided the 5-year projected NMOC emission rate will not exceed 50 Mg/yr. [40 CFR 60.752(d)]
- 2.b** For purposes of submitting a timely application for, and obtaining an operating permit under Title V of the Act, the permittee is subject to the requirements of §§70.5(a)(1)(i) or 71.5(a)(1)(i) of this chapter. [40 CFR 60.752(b)(1) and 60.752(c)]
- 2.c** If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, then the permittee shall request the Ohio EPA Northeast District Office to reopen the Title V permit for review, or determine a site-specific methane generation rate constant and recalculate the NMOC emission rate using the procedures provided in this permit. [40 CFR 60.752(c)]
- 2.d** The facility shall not accept for disposal any RACM as defined in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos, 40 CFR Part 61, Subpart M, Section 141 and OAC rule 3745-20, or any subsequent revisions to either rule. RACM is defined to include:
- a. friable asbestos material;
  - b. Category I non-friable asbestos-containing material that has become friable;
  - c. Category I non-friable asbestos-containing material that will be or has been subjected to sanding, grinding, cutting, or abrading; or
  - d. Category II non-friable asbestos-containing material that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.
- 2.e** In addition, this facility shall not accept any Category II non-friable asbestos-containing material. For asbestos materials, the permittee shall be

Emissions Unit ID: F002

limited to accepting Category I non-friable asbestos-containing material that has not or will not be subjected to sanding, grinding, cutting, or abrading. The permittee shall ensure that any Category I non-friable asbestos-containing material which has not or will not be subjected to sanding, grinding, cutting, or abrading shall not become friable during processing at the landfill. Any asbestos-containing material that is friable or becomes friable is subject to the asbestos NESHAP regulation. If any asbestos material arrives at the landfill from an unregulated residence and meets the description of regulated asbestos-containing material as described in (a) through (d) above, the landfill shall:

- a. cause or permit no visible emissions to the outside air from the asbestos-containing waste materials during on-site transportation, transfer, deposition or compacting operations;
  - b. assure that deposition and burial operations be conducted in a manner which prevents handling by equipment or persons that causes asbestos-containing waste materials to be broken-up or dispersed before the materials are buried;
  - c. cover the asbestos-containing waste material with at least 12 inches of non-asbestos-containing material, as soon as practicable after deposition, but no later than at the end of the operating day; and
  - d. assure that during the unloading, deposition, burial and initial compaction of asbestos-containing waste materials, the disposal site is restricted adequately to deter unauthorized entry of the general public and any unauthorized personnel to within one hundred feet of the operations. [40 CFR 61.154, Subpart M] & [OAC rule 3745-20-06]
- 2.f** There shall be no open burning, in violation of OAC Chapter 3745-19, at this facility. [OAC Chapter 3745-19]
- 2.g** Pursuant to the authority in ORC section 3704.03(L), any representative of the director may, upon presentation of proper identification, enter at any reasonable time upon any portion of the property where this landfill is located, including any improvements thereon, to make inspections; take samples; conduct tests; examine records or reports pertaining to any emissions of air contaminants; and inspect monitoring equipment, emissions control equipment, and/or methods of operation and gas sampling. No operator or agent of this landfill shall act in any manner to refuse, hinder, or thwart this legal right of entry. [ORC section 3704.03(L)]
- 2.h** If this landfill is permanently closed, the permittee shall comply with all of the applicable provisions of OAC rule 3745-20-07. [OAC rule 3745-20-07(D)]

**II. Operational Restrictions**

1. The permittee shall ensure that solid wastes are deposited, spread, and compacted in such a manner as to minimize or prevent visible emissions of fugitive dust. The permittee shall require all truckloads of solid waste to be unloaded in a manner that will minimize the drop height of the solid wastes. Any dusty materials or wastes likely to become airborne shall be watered as necessary prior to or during dumping operations in order to minimize or eliminate visible emissions of fugitive dust. Watering shall be conducted in such a manner as to avoid the pooling of liquids and runoff. No dusty material shall be dumped during periods of high wind speed, unless the material has been treated to prevent fugitive dust emissions from becoming airborne.
2. The permittee shall employ best available control measures for the above-identified landfill fugitive dust operations/sources for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee maintains that the inherent moisture content of the materials involved in fugitive dust operations/sources is at a level which is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee shall employ best available control measures to ensure compliance.
3. The above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the fugitive dust operation/sources until further observation confirms that use of the control measure(s) is unnecessary.
4. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05. [OAC rule 3745-17-08 w/ BAT 3745-31-05(A)(3)]

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall keep for at least five (5) years up-to-date, readily accessible, on-site records of a design capacity report, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.758(a)]
2. The permittee shall maintain records of the NMOC emission rate for the landfill using the procedures specified in 40 CFR 60.754(a)(1) and these terms. The NMOC emission rate shall be recalculated and reported annually.
3. The permittee shall keep readily accessible, on-site records of any conversion of

**Issued: To be entered upon final issuance**

design capacity from volume to mass or mass to volume, the annual recalculation of site-specific density, design capacity, and the supporting documentation. Off-site records may be maintained if they are retrievable within four (4) hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.758(f)]

4. The permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing and/or non-degradable wastes, excluded from collection as provided in 40 CFR 60.759(a)(3)(i), as well as any nonproductive areas excluded from collection as provided in 40 CFR 60.759(a)(3)(ii). [40 CFR 60.758(d)(2)]
5. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust resulting from any landfill operations (such as wastes unloading, covering, excavation, and wind erosion). The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions. [OAC rule 3745-17-07(B) w/ OAC rule 3745-31-05(A)(3)]
6. The permittee shall maintain a daily operations log which records/documents any watering activity employed to minimize or eliminate visible emissions of fugitive dust for each waste dumping/placement area; the record shall include the time, the location, and the amount of water employed, in gallons. [OAC rule 3745-31-05(A)(3)]

**IV. Reporting Requirements**

1. The permittee shall submit an NMOC emission rate (Tier 1) report to the Director annually. The NMOC emission rate shall be calculated using the formula and procedures provided in 40 CFR 60.754(a) or (b), as applicable. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements

Emissions Unit ID: F002

used to estimate the annual emissions. The Director may request such additional information as may be necessary to verify the reported NMOC emission rate. The annual NMOC emissions report shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 of each year and shall cover the previous calendar year, until a collection and control system is installed in compliance with 60.752(b)(2) and operating in accordance with 40 CFR 60.753 and 60.755. [40 CFR 60.752(b)(1), 60.755, & 40 CFR 60.757(b)]

2. The permittee shall submit a collection and control system design plan and an application to modify the permit to install to implement the plan to the Director within one year of the first report in which the emission rate equals or exceeds 50 megagrams per year, except as follows:
  - a. If the permittee elects to recalculate the NMOC emission rate after Tier 2 NMOC sampling and analysis, and the resulting rate is less than 50 megagrams per year, annual periodic reporting shall be resumed, using the Tier 2 determined site-specific NMOC concentration, until the calculated emission rate is equal to or greater than 50 megagrams per year or the landfill is closed. The revised NMOC emission rate report, with the recalculated emission rate based on NMOC sampling and analysis, shall be submitted within 180 days of the first calculated exceedance of 50 megagrams per year.
  - b. If the permittee elects to recalculate the NMOC emission rate after determining a Tier 3 site-specific methane generation rate constant (k), and the resulting NMOC emission rate is less than 50 Mg/yr, annual periodic reporting shall be resumed. The resulting site-specific methane generation rate constant (k) shall be used in the emission rate calculation until such time as the emissions rate calculation results in an exceedance. The revised NMOC emission rate report based on the provisions of 40 CFR 60.754(a)(4) and the resulting site-specific methane generation rate constant (k) shall be submitted to the Director within one year of the first calculated emission rate exceeding 50 megagrams per year. [40 CFR 60.757(c)]
3. If the annual report demonstrates that calculated NMOC emission rate is equal to or greater than 50 megagrams per year, unless Tier 2 or Tier 3 sampling demonstrates that the emission rate is less than 50 megagrams per year, the permittee shall comply with the following:
  - a. Within one year, the permittee shall submit a collection and control system design plan that complies with 40 CFR 60.752 and is prepared by a professional engineer, and an amended permit to install application to the Director; and
  - b. Within 30 months, the permittee shall install and operate a collection and control system that captures the gas generated within the landfill as required by 40 CFR Part 60, Subpart WWW. [40 CFR 60.752(b)(2)]

**Issued: To be entered upon final issuance**

- c If the permittee seeks to install a collection system that does not meet the specifications in 40 CFR 60.759, the permittee shall provide to the Director a description of the design and operation of the collection system, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. The Director may specify additional appropriate monitoring procedures. [40 CFR 60.756(e)]

The permittee shall submit a permit to install (PTI) application and be issued a new PTI, before an expansion or an increase in the waste material received increases the calculated NMOC emissions to equal or exceed 50 megagrams/year. If the amended design capacity report is not submitted with the PTI application, the permittee shall submit an amended design capacity report to the director within 90 days of the increase in the maximum design capacity of the landfill. [40 CFR 60.752(a) & 60.757(a)]

- 4. If the estimated NMOC emission rate as reported in the annual report to the Director is less than 50 megagrams per year in each of the next five (5) consecutive years, the permittee may elect to submit an estimate of the NMOC emission rate for the next five-year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the five (5) years for which an NMOC emission rate is estimated. This estimate shall be revised at least once every five (5) years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the five-year estimate, a revised five-year estimate shall be submitted to the Director. The revised estimate shall cover the five-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the five-year emissions. [40 CFR 60.752(b)(1), 60.755, & 40 CFR 60.757(b)]
- 5. The permittee shall submit an amended design capacity report to the Director providing notification of an increase in the design capacity of the landfill, within 90 days of an increase in the maximum design capacity of the landfill. This increase in design capacity may result from an increase in the permitted volume of the landfill or an increase in the density as documented in the annual recalculation required in 40 CFR 60.758(f). The amended design capacity report shall contain the following information:
  - a. A map or plot of the landfill, providing the size and location of the landfill, and identifying all areas where solid waste may be landfilled according to the permit issued by Ohio EPA's Division of Solid and Infectious Waste Management.
  - b. The maximum design capacity of the landfill. Where the maximum design

Emissions Unit ID: F002

capacity is specified in the permit issued by Ohio EPA's Division of Solid and Infectious Waste Management, a copy of the portion of the permit specifying the maximum design capacity may be submitted as part of the report. If the maximum design capacity of the landfill is not specified in the permit, the maximum design capacity shall be calculated using good engineering practices. The calculations shall be provided, along with the relevant parameters as part of the report. The Director may request other reasonable information as may be necessary to verify the maximum design capacity of the landfill. [40 CFR 60.757(a)(2) and (a)(3) and OAC rule 3745-31]

6. Pursuant to the New Source Performance Standards (NSPS), the source owner/operator is hereby advised of the requirements to report the following at the appropriate times: [40 CFR 60.7]
  - a. construction date (no later than 30 days after such date);
  - b. actual start-up date (within 15 days after such date); and
  - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Permit Management Unit  
Lazarus Government Center  
P.O. Box 1049  
Columbus, Ohio 43216-1049

and

Ohio EPA, Northeast District Office  
2110 East Aurora Road  
Twinsburg, Ohio 44087

7. The permittee shall submit a closure report to the Director within 30 days of cessation of waste acceptance. The Director may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the Director, no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR 60.7(a)(4). If the landfill closes, and was not required to install a gas control and collection system terms of this permit specific to 40 CFR Part 60, Subpart WWW are no longer applicable. [40 CFR 60.752(b)(ii)(B), 40 CFR 60.757(d) and OAC Chapter 3745-31]
8. The permittee shall submit quarterly written reports that (a) identify all days during which any visible emissions of fugitive dust from materials were observed from

Emissions Unit ID: F002

operations involving this emissions unit (such as wastes unloading, covering, excavation and wind erosion) and (b) describe any corrective actions taken to minimize or eliminate the visible emissions. These reports shall be submitted to the director (the Ohio EPA Northeast District Office) by January 31, April 30, July 31 and October 31 and shall cover the previous calendar quarters. [OAC rule 3745-17-07(B) w/ OAC rule 3745-31-05(A)(3)]

9. The permittee shall maintain records of the total volume of material received each day. These records shall be maintained for a period of not less than three (3) years, and the records shall be available for review by the director or his representative during normal business hours. [40 CFR Part 60, Subpart WWW] & [OAC 3745-31-05]

## V. Testing Requirements

1. The permittee shall calculate Tier 2 and/or Tier 3 NMOC emission rates for the landfill using the procedures specified in 40 CFR 60.754. [40 CFR 60.752(b)]
2. The NMOC emission rate shall be calculated using either of the following equations specified below. Both equations may be used if the actual year-to-year solid waste acceptance rate is known, as specified in 40 CFR 60.754(a)(1)(i), for part of the life of the landfill. The default values to be used in both equations are 0.05 per year for "k", unless a site-specific methane generation rate constant is determined as specified in a Tier 3 determination; 170 cubic meters per megagram for "L<sub>0</sub>"; and 4,000 ppm by volume as hexane for "C<sub>NMOC</sub>", unless samples are collected and the actual NMOC concentration is determined, as specified in a Tier 2 determination.

$$a. \quad M_{NMOC} = \sum_{i=1}^n 2kL_0 M_i (e^{-kti}) (C_{NMOC}) (3.6 \times 10^{-9})$$

T

he following equation shall be used if the actual year-to-year solid waste acceptance rate is known:

where:

$M_{NMOC}$  = Total NMOC emission rate from the landfill, megagrams per year;

k = methane generation rate constant, year<sup>-1</sup>;

L<sub>0</sub> = methane generation potential, cubic meters per megagram solid waste;

M<sub>i</sub> = mass of solid waste in the i<sup>th</sup> section, megagrams;

**Issued: To be entered upon final issuance**

$t_i$  = age of the  $i^{\text{th}}$  section, years;

$C_{\text{NMOC}}$  = concentration of NMOC, parts per million by volume as hexane;

$3.6 \times 10^{-9}$  = conversion factor; and

$n$  = number of sections.

The mass of non-degradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value for  $M_i$ ,

$$\text{if } M_{\text{NMOC}} = 2L_0R(e^{-kc} - e^{-kt})(C_{\text{NMOC}})(3.6 \times 10^{-9})$$

do

cumentation of the nature and amount of such wastes is maintained.

- b. The following equation shall be used if the actual year-to-year solid waste acceptance rate is unknown:

where:

$M_{\text{NMOC}}$  = mass emission rate of NMOC, megagrams per year;

$L_0$  = methane generation potential, cubic meters per megagram solid waste;

$R$  = average annual acceptance rate, megagrams per year;

$k$  = methane generation rate constant, year<sup>-1</sup>;

$t$  = age of landfill, years;

$C_{\text{NMOC}}$  = concentration of NMOC, parts per million by volume as hexane;

$c$  = time since closure, years; for active landfill  $c=0$  and  $e^{-kc}=1$ ; and

$3.6 \times 10^{-9}$  = conversion factor.

The mass of non-degradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value of

**Issued: To be entered upon final issuance**

R, if documentation of the nature and amount of such wastes is maintained. [40 CFR 60.754(a)(1)]

3. The calculated NMOC mass emission rate shall be compared to the standard of 50 megagrams per year. If the calculated NMOC emission rate is calculated to be less than 50 megagrams per year, the permittee shall submit an annual or 5-year estimate of the NMOC emission rate, and shall recalculate the NMOC mass emission rate annually and submit the report to the director.

If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, within one year, the permittee shall either:

- a. submit a collection and control system design plan, prepared by a professional engineer, and shall install it in compliance with 40 CFR 60.752(b)(2); or
  - b. determine a site-specific NMOC concentration and recalculate the NMOC emission rate using the procedures provided in a Tier 2 determination. [40 CFR 60.754(a)(2)]
4. A Tier 2 NMOC concentration shall be determined using the following sampling procedure:
    - a. There shall be at least two sample probes per hectare of landfill surface that has retained waste for at least two (2) years. If the landfill is larger than 25 hectares in area, only 50 sample probes are required. The sample probes should be located to avoid known areas of non-degradable solid waste.
    - b. One sample of landfill gas from each probe shall be collected and analyzed to determine the NMOC concentration using Method 25 or 25C of Appendix A of 40 CFR Part 60. Method 18 of Appendix A of 40 CFR Part 60 may be used to analyze the samples collected by the Method 25 or 25C sampling procedure.
    - c. Taking composite samples from different probes into a single cylinder is allowed; however, equal sample volumes must be taken from each probe. For each composite, the sampling rate, collection times, beginning and ending cylinder vacuums, or alternative volume measurements must be recorded to verify that composite volumes are equal. Composite sample volumes should not be less than one liter, unless evidence can be provided to substantiate the accuracy of smaller volumes. The compositing shall be terminated before the cylinder approaches ambient pressure where measurement accuracy diminishes.

Emissions Unit ID: F002

- d. If using Method 18, all compounds in the sample must be identified, and, at a minimum, the sample must be tested for those compounds published in the most recent Compilation of Air Pollutant Emission Factors (AP-42), minus carbon monoxide, hydrogen sulfide, and mercury. At a minimum, the instrument must be calibrated for each of the compounds on the list. The concentration of each Method 18 compound shall be converted to  $C_{\text{NMOC}}$  as hexane by multiplying it by the ratio of its carbon atoms divided by six.
- e. The NMOC concentration determined from Method 25 or 25C of Appendix A of 40 CR Part 60 shall be divided by six, to convert from  $C_{\text{NMOC}}$  as carbon to  $C_{\text{NMOC}}$  as hexane.
- f. If the landfill has an active or passive gas removal system in place, Method 25 or 25C samples may be collected from these systems instead of surface probes, provided the removal system can be shown to provide sampling as representative as the two sampling probe per hectare requirement. For active collection systems, samples may be collected from the common header pipe before the gas moving or condensate removal equipment. For these systems, a minimum of three samples must be collected from the header pipe.
- g. If more than the required number of samples are taken, all samples must be used in the analysis.
- h. The NMOC mass emission rate shall be recalculated using the average NMOC concentration from the collected samples instead of the default value.
- i. If the resulting NMOC mass emission rate, recalculated using the site-specific NMOC concentration is equal to or greater than 50 megagrams per year, the permittee shall either:
  - i. comply with 40 CFR 60.752(b)(2) and within one year submit a collection and control system design plan and application to modify the permit to install, and within 30 months after the first annual report in which the emission rate equals or exceeds 50 megagrams per year, install the system; or
  - ii. perform a Tier 3 determination to determine the site-specific methane generation rate constant,  $k$ , and recalculate the NMOC emission rate using the site-specific NMOC concentration from Tier 2 and site-specific methane generation rate constant,  $k$ , from Tier 3.
- j. If the resulting mass emission rate, recalculated using the site-specific NMOC concentration is less than 50 megagrams per year, the permittee shall submit annual or five-year reports for the estimated NMOC emissions, recalculated using the site-specific NMOC concentration. The site-specific NMOC concentration shall be retested, as above, every five (5) years. [40 CFR

**Issued: To be entered upon final issuance**

60.754(a)(3)]

5. A Tier 3 determination of the site-specific methane generation rate constant,  $k$ , shall be determined, using the procedures provided in Method 2E of Appendix A of 40 CFR Part 60. The NMOC mass emission rate shall be estimated using the equations from 40 CFR 60.754(a)(1), as included in this permit, where a site-specific methane generation rate constant  $k$  and the site-specific NMOC concentration from Tier 2, instead of the default values provided with the calculation in the rule. The resulting NMOC mass emission rate shall be compared to the standard of 50 megagrams per year.
  - a. If the resulting NMOC mass emission rate, calculated using the site-specific methane generation rate constant from Tier 3 and the site-specific concentration of NMOC from Tier 2, is equal to or greater than 50 megagrams per year, the permittee shall comply with 40 CFR 60.752(b)(2) and submit, within one year submit a collection and control system design plan and application to modify the permit to install, and within 30 months after the first annual report in which the emission rate equals or exceeds 50 megagrams per year, install the system; or
  - b. If the resulting NMOC mass emission rate, calculated using the site-specific methane generation rate constant from Tier 3 and the site-specific concentration of NMOC from Tier 2, is less than 50 megagrams per year, the permittee shall submit either annual reports or 5-year submission as required by 40 CFR 60.757(b)(1)(ii) for the estimated NMOC emissions, recalculated each year using the site-specific methane generation rate constant  $k$  and the site-specific NMOC concentration from Tier 2, and submitted as provided in 40 CFR 60.757(b)(1).
  - c. The site-specific NMOC concentration shall be retested, as above, every five (5) years, to be used in the NMOC emission estimate calculations. However, the calculation of the methane generation rate constant is performed only once, and the value obtained from this test shall be used in all subsequent annual NMOC emission rate calculations. [40 CFR 60.754(a)(4)]
6. Other methods to determine the NMOC concentration or site-specific methane generation rate constant  $k$ , may be used as an alternative to the methods required in 40 CFR 754(a)(3) or (4), only if the method has been approved by the Administrator of the U.S. Environmental Protection Agency. [40 CFR 60.754(a)(5)]
7. When calculating emissions for PSD purposes, the permittee shall estimate the NMOC emission rate for comparison to the PSD major source and significance levels in 40 CFR 51.166 or 40 CFR 52.21 using AP-42 or other approved measurement

Emissions Unit ID: F002

procedures. [40 CFR 60.754(c)]

8. Compliance with the emission limitations specified in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

Visible particulate emissions of fugitive dust (material transfer, aggregate handling, load-in/load-out operations and wind erosion) from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Reference Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3). [OAC 3745-17-07(B)]

b. Emission Limitation:

Particulate emissions of fugitive dust shall not exceed 28.5 tons per year from material transfer, aggregate handling, load-in/load-out operations and wind erosion.

Applicable Compliance Method:

The permittee shall demonstrate compliance by use of the following equation, derived using standard AP-42 and U.S. EPA emission factors, and accounts for emissions from wind erosion, daily cover material handling and placement, handling of waste (dumping waste), spreading, grading, and compaction of waste:

$$E_{F002}(TPY) = (2.11 \times 10^{-4}) * (365 - p) * (f) * (acres) + (3.99 \times 10^{-5}) * (AMDWR) * \left(\frac{U}{5}\right)^{1.3} + (23.34)$$

where:

p is the no. of dates with more than 0.01 inches of precipitation (157.8 for Youngstown);

**Issued: To be entered upon final issuance**

f is the percent of time wind speed is greater than 12 mph (22.54 for Youngstown);

acres is the maximum total exposed acreage at any time (assume working face never exceeds five (5) acres);

AMDWR is the anticipated maximum daily waste receipt (2500 tons/day from application); and

U is the mean wind speed (10 for Youngstown).

Emissions Unit ID: F002

**Issued: To be entered upon final issuance**  
**II Miscellaneous Requirements**

None

**Issued: To be entered upon final issuance**

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment - (F002) - Municipal Solid Waste (MSW) Landfill operations - waste disposal activities including dumping, spreading, compacting, covering, and gas generation.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Mahoning Landfill, Inc.**  
**DTI Application: 02 20127**

**Facility ID: 0250000840**

Emissions Unit ID: F002

Issued: To be entered upon final issuance

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment - (F003) - Facility storage piles - material load in/out and wind erosion**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(A)(3)	<p>There shall be no visible particulate emissions of fugitive dust from any storage pile except for a time not to exceed 1 minute during any 60-minute observation period.</p> <p>Particulate emissions shall not exceed 19.5 tons per year from wind erosion and load-in and load-out operations.</p> <p>Use of fugitive dust control measures to comply with the visible emission limitation specified above.</p> <p>See sections A.I.2.b through A.I.2.f below.</p>
OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

**2. Additional Terms and Conditions**

- 2.a All of the storage piles at this facility are covered by this permit and are subject to the requirements of OAC rule 3745-31-05.
- 2.b In accordance with the permittee's permit application, the permittee has

**Issued: To be entered upon final issuance**

committed to process aggregate material with inherently high moisture content and to minimize drop height distance from front-end loaders to ensure compliance. If at any time the moisture content is not sufficient to meet the above emission limitations for all load-in and load-out operations associated with storage piles, the permittee shall employ fugitive dust control measures to ensure compliance. Fugitive dust control measures can include, but are not limited to, the use of water, the use of other dust suppressant materials, or the use of non dust-producing approved cover materials. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** The above-mentioned control measures shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that use of the measure is unnecessary.
- 2.d** In accordance with the permittee's permit application, the permittee has committed to process aggregate material with inherently high moisture content to ensure compliance. If at any time the moisture content is not sufficient to meet the above emission limitation for wind erosion from the surfaces of all storage piles, the permittee shall employ fugitive dust control measures to ensure compliance. Fugitive dust control measures can include, but are not limited to, the use of water, the use of other dust suppressant materials, or the use of non dust producing approved cover materials. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measures shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of additional control measures shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the

requirements of OAC rule 3745-31-05.

## II. Operational Restrictions

None

## III. Monitoring and/or Record keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile at this facility on a weekly basis.
2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile at this facility on a weekly basis.
3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile at this facility on a weekly basis.
4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to ensure continued compliance for load-in and load-out of a storage pile and for wind erosion from the surface of a storage pile and determine the need for implementing additional control measures. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee may, upon receipt of written approval from the Northeast District Office of Ohio EPA, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
  - c. the dates the control measure(s) were implemented; and

**Issued: To be entered upon final issuance**

- d. on a calendar quarter basis, the total number of days the control measure(s) were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in section A.III.7.d shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

**Issued: To be entered upon final issuance**

**IV. Reporting Requirements**

1. The permittee shall submit deviation (exceedance) reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

**V. Testing Requirements**

1. Compliance with the emission limitations specified in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

There shall be no visible particulate emissions of fugitive dust from any storage pile except for a time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emission limitation for the wind erosion and load-in and load-out operations from the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

b. Emission Limitation:

Particulate emissions shall not exceed 19.5 tons per year from wind erosion and load-in and load-out operations.

Applicable Compliance Method:

Emissions Unit ID: F003

The permittee shall demonstrate compliance by summing the maximum potential emissions from wind erosion and material load in/load out from soil storage piles.

The potential emission rate for wind erosion is calculated as determined by the method from U.S. EPA's Control of Open Fugitive Dust Sources, Equation 4-9 (September 1988), as follows:

$$[1.9 * (s/1.5) * (365 - p)/235 * (f/15)] \text{ lb/acre/day} * 5 \text{ acres} * 365 \text{ days/yr} * \text{ton}/2,000 \text{ lbs}$$

where:

s = the silt content (%) of the cover material (assume 10%);

p = number of days with at least 0.01 inch of precipitation per year, 157.8 days (Youngstown); and

f = percent of time wind is at least 12 mph, 27.5% (Youngstown).

The potential emission rate for waste handling is calculated as determined from AP-42, Chapter 13.2.4.3 (11/06), as follows:

$$E = [(0.74) * (0.0032) * (U/5)^{1.3} / (M/2)^{1.2}] \text{ lb/ton} * 456,250 \text{ tons/yr} * \text{ton}/2,000 \text{ lb} * 2$$

where:

U = mean wind speed, 10 for Youngstown;

M = moisture content of the soil, assume 10%;

456,250 = cover soil material handled annually, estimated as half the annual waste receipt from application; and

2 = accounts for load-in and load-out.

## **VI. Miscellaneous Requirements**

None

**Issued: To be entered upon final issuance**

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment - (F003) - Facility storage piles -material load in/out and wind erosion.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None