



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

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

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

05/30/03

**CERTIFIED MAIL**

**RE: Final Title V Chapter 3745-77 permit**

14-31-47-3443  
Bond Road Landfill  
Larry G. Riddle  
Bond Road Site, Inc.  
10795 Hughes Road  
Cincinnati, OH 45251-4598

Dear Larry G. Riddle:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully.

The Ohio EPA is encouraging 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.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Review Appeals Commission 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 Commission. It is also requested by the Director that a copy of the appeal be served upon the Environmental Enforcement Section of the Office of the Attorney General. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

If you have any questions, please contact Hamilton County Dept. of Environmental Services.

Very truly yours,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: Hamilton County Dept. of Environmental Services  
File, DAPC PMU



State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: 05/30/03

Effective Date: 06/20/03

Expiration Date: 06/20/08

This document constitutes issuance of a Title V permit for Facility ID: 14-31-47-3443 to:
Bond Road Landfill
11425 Bond Road
Whitewater Township, OH 45030-8929

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description, and Emissions Unit Activity Description. Rows include F001, F007, F008, F009, P001, P007, P008, P009, P010, and P011.

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Hamilton County Dept. of Environmental Services
250 William Howard Taft Rd
Cincinnati, OH 45219-2660
(513) 946-7777

OHIO ENVIRONMENTAL PROTECTION AGENCY

Handwritten signature of Christopher Jones

Christopher Jones
Director

## PART I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Section

#### 1. Monitoring and Related Record Keeping 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.

*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))*

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 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.

*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))*

c. The permittee shall submit required reports in the following manner:

i. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

ii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) with respect to emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

(a) Written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations ; (ii) the probable cause of such deviations; and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Part III of this Title V permit, the written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii)

pertaining to the submission of monitoring reports every six months and the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations. See B.6 below if no deviations occurred during the quarter.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i), (ii) and (iii))*

- (b) Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the deviation reporting requirements for this Title V permit, written reports that identify each malfunction that occurred during each calendar quarter shall be submitted, at a minimum, quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters.

In identifying each deviation caused by a malfunction, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Also, if a deviation caused by a malfunction is identified in a written report submitted pursuant to paragraph (a) above, a separate report is not required for that malfunction pursuant to this paragraph. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing, at a minimum, on a quarterly basis.

Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation, operational restriction, and control device operating parameter limitation shall be reported in the same manner as described above for malfunctions. These written reports for malfunctions (and scheduled maintenance projects, if appropriate) shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(iii))*

iii. **For monitoring, record keeping, and reporting requirements:**

Written reports that identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year, for the previous six calendar months. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, record keeping, and reporting requirements. 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.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))*

- iv. 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 (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

*(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))*

## 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 of any emissions unit(s) 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. Except as provided in OAC rule 3745-15-06, 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 emissions unit(s) that is (are) served by such control system(s).

*(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iii))*

## 3. **Risk Management Plans**

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b. as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

*(Authority for term: OAC rule 3745-77-07(A)(4))*

## 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.

*(Authority for term: OAC rule 3745-77-07(A)(5))*

## 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.

*(Authority for term: OAC rule 3745-77-07(A)(6))*

## **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 reissuance, or modification, or for denial of a permit renewal application.
- 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, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. 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, reopening 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 permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

*(Authority for term: OAC rule 3745-77-07(A)(7))*

## **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.

*(Authority for term: OAC rule 3745-77-07(A)(8))*

## **8. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(9))*

## **9. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one

operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(10))*

#### **10. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

*(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))*

#### **11. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of 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, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

*(Authority for term: OAC rule 3745-77-07(B))*

#### **12. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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 paragraph (E) of OAC rule 3745-77-03.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - 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.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
  - ii. Compliance certifications shall include the following:
    - (a) An identification of each term or condition of this permit that is the basis of the certification.
    - (b) The permittee's current compliance status.
    - (c) Whether compliance was continuous or intermittent.
    - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
    - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
  - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

*(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))*

### 13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

*(Authority for term: OAC rule 3745-77-07(F))*

#### **14. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

*(Authority for term: OAC rules 3745-77-07(H)(1) and (2))*

#### **15. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

*(Authority for term: OAC rule 3745-77-07(G))*

#### **16. Off-Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.)  
(Authority for term: OAC rule 3745-77-07(I))

**17. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.  
(This term is provided for informational purposes only.)

**18. Insignificant Activities**

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.  
(Authority for term: OAC rule 3745-77-07(A)(1))

**19. Permit to Install Requirement**

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.  
(Authority for term: OAC rule 3745-77-07(A)(1))

**20. Air Pollution Nuisance**

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.  
(Authority for term: OAC rule 3745-77-07(A)(1))

**B. State Only Enforceable Section**

## 1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping 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 (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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., 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.)

## 2. Records Retention Requirements

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.

## 3. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. 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, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

## 4. 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 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. 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 emissions unit(s) that is (are) served by such control system(s).

**5. 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 of any transfer of this permit.

**6. 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., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

## Part II - Specific Facility Terms and Conditions

### A. State and Federally Enforcable Section

1. National Emission Standards for Hazardous Air Pollutants

Municipal Solid Waste Landfills

Action: Final Rule

Effective Date: January 16, 2003

Section 63.1930

This subpart establishes national emission standards for hazardous air pollutants for existing and new municipal solid waste (MSW) landfills. This subpart requires all landfills described in Section 63.1935 to meet the requirements of 40 CFR Part 60, Subpart Cc or WWW and requires timely control of bioreactors. This subpart also requires such landfills to meet the startup, shutdown, and malfunction (SSM) requirements of the general provisions of this part and provides that compliance with the operating conditions shall be demonstrated by parameter monitoring results that are within the specified ranges. It also includes additional reporting requirements.

Section 63.1935

You are subject to this subpart if you meet the criteria in paragraph (a) or (b) of this section.

(a) You are subject to this subpart if you own or operate a MSW landfill that has accepted waste since November 8, 1987 or has additional capacity for waste deposition and meets any one of the three criteria in paragraphs (a)(1) through (3) of this section:

(1) Your MSW landfill is a major source as defined in 40 CFR 63.2 of Subpart A.

(2) Your MSW landfill is collocated with a major source as defined in 40 CFR 63.2 of Subpart A.

(3) Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m<sup>3</sup>) and has estimated uncontrolled emissions equal to or greater than 50 megagrams per year (Mg/yr) NMOC as calculated according to Section 60.754(a) of the MSW landfills new source performance standards in 40 CFR Part 60, Subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan that applies to your landfill.

(b) You are subject to this subpart if you own or operate a MSW landfill that has accepted waste since November 8, 1987 or has additional capacity for waste deposition, that includes a bioreactor, as defined in Section 63.1990, and that meets any one of the criteria in paragraphs (b)(1) through (3) of this section:

(1) Your MSW landfill is a major source as defined in 40 CFR 63.2 of Subpart A.

(2) Your MSW landfill is collocated with a major source as defined in 40 CFR 63.2 of Subpart A.

(3) Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million Mg and 2.5 million m<sup>3</sup> and that is not permanently closed as of January 16, 2003.

Section 63.1940

(a) An affected source of this subpart is a MSW landfill, as defined in Section 63.1990, that meets the criteria in Section 63.1935(a) or (b). The affected source includes the entire disposal facility in a contiguous geographic space where household waste is placed in or on land, including any portion of the MSW landfill operated as a bioreactor.

(b) A new affected source of this subpart is an affected source that commenced construction or reconstruction after November 7, 2000. An affected source is reconstructed if it meets the definition of reconstruction in 40 CFR 63.2 of Subpart A.

(c) An affected source of this subpart is existing if it is not new.

Section 63.1945

(a) If your landfill is a new affected source, you must comply with this subpart by January 16, 2003 or at the time you begin operating, whichever is last.

**A. State and Federally Enforcable Section (continued)**

- (b) If your landfill is an existing affected source, you must comply with this subpart by January 16, 2004.
- (c) If your landfill is a new affected source and is a major source or is collocated with a major source, you must comply with the requirements in Sections 63.1955(b) and 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of Subpart WWW.
- (d) If your landfill is an existing affected source and is a major source or is collocated with a major source, you must comply with the requirements in Sections 63.1955(b) and 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of Subpart WWW, the Federal plan, or EPA approved and effective State or tribal plan that applies to your landfill or by January 13, 2004, whichever occurs later.
- (e) If your landfill is a new affected source and is an area source meeting the criteria in Section 63.1935(a)(3), you must comply with the requirements of Sections 63.1955(b) and 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of Subpart WWW.
- (f) If your landfill is an existing affected source and is an area source meeting the criteria in Section 63.1935(a)(3), you must comply with the requirements in Sections 63.1955(b) and 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of Subpart WWW, the Federal plan, or EPA approved and effective State or tribal plan that applies to your landfill or by January 16, 2004, whichever occurs later.

Section 63.1947

You must comply with this subpart by the dates specified in Section 63.1945(a) or (b) of this subpart. If you own or operate a bioreactor located at a landfill that is not permanently closed as of January 16, 2003 and has a design capacity equal to or greater than 2.5 million Mg and 2.5 million m<sup>3</sup>, then you must install and operate a collection and control system that meets the criteria in 40 CFR 60.752(b)(2)(v) of Part 60, Subpart WWW, the Federal plan, or EPA approved and effective State plan according to the schedule specified in paragraph (a), (b), or (c) of this section.

(a) If your bioreactor is at a new affected source, then you must meet the requirements in paragraphs (a)(1) and (2) of this section:

- (1) Install the gas collection and control system for the bioreactor before initiating liquids addition.
- (2) Begin operating the gas collection and control system within 180 days after initiating liquids addition or within 180 days after achieving a moisture content of 40 percent by weight, whichever is later. If you choose to begin gas collection and control system operation 180 days after achieving a 40 percent moisture content instead of 180 days after liquids addition, use the procedures in Section 63.1980(g) and (h) to determine when the bioreactor moisture content reaches 40 percent.

(b) If your bioreactor is at an existing affected source, then you must install and begin operating the gas collection and control system for the bioreactor by January 17, 2006 or by the date your bioreactor is required to install a gas collection and control system under 40 CFR Part 60, Subpart WWW, the Federal plan, or EPA approved and effective State plan or tribal plan that applies to your landfill, whichever is earlier.

**A. State and Federally Enforcable Section (continued)**

(c) If your bioreactor is at an existing affected source and you do not initiate liquids addition to your bioreactor until later than January 17, 2006, then you must meet the requirements in paragraphs (c)(1) and (2) of this section:

(1) Install the gas collection and control system for the bioreactor before initiating liquids addition.

(2) Begin operating the gas collection and control system within 180 days after initiating liquids addition or within 180 days after achieving a moisture content of 40 percent by weight, whichever is later. If you choose to begin gas collection and control system operation 180 days after achieving a 40 percent moisture content instead of 180 days after liquids addition, use the procedures in Section 63.1980(g) and (h) to determine when the bioreactor moisture content reaches 40 percent.

Section 63.1950

You are no longer required to comply with the requirements of this subpart when you are no longer required to apply controls as specified in 40 CFR 60.752(b)(2)(v) of Subpart WWW, or the Federal plan or EPA approved and effective State plan or tribal plan that implements 40 CFR Part 60, Subpart Cc, whichever applies to your landfill.

Section 63.1952

If you own or operate a landfill that includes a bioreactor, you are no longer required to comply with the requirements of this subpart for the bioreactor provided you meet the conditions of either paragraphs (a) or (b).

(a) Your affected source meets the control system removal criteria in 40 CFR 60.752(b)(2)(v) of Part 60, Subpart WWW or the bioreactor meets the criteria for a nonproductive area of the landfill in 40 CFR 60.759(a)(3)(ii) of Part 60, Subpart WWW.

(b) The bioreactor portion of the landfill is a closed landfill as defined in 40 CFR 60.751, Subpart WWW, you have permanently ceased adding liquids to the bioreactor, and you have not added liquids to the bioreactor for at least 1 year. A closure report for the bioreactor must be submitted to the Administrator as provided in 40 CFR 60.757(d) of Subpart WWW.

(c) Compliance with the bioreactor control removal provisions in this section constitutes compliance with 40 CFR Part 60, Subpart WWW or the Federal plan, whichever applies to your bioreactor.

Standards

Section 63.1955

(a) You must fulfill one of the requirements in paragraph (a)(1) or (2) of this section, whichever is applicable:

(1) Comply with the requirements of 40 CFR Part 60, Subpart WWW.

(2) Comply with the requirements of the Federal plan or EPA approved and effective State plan or tribal plan that implements 40 CFR Part 60, Subpart Cc.

(b) If you are required by 40 CFR 60.752(b)(2) of Subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan to install a collection and control system, you must comply with the requirements in Sections 63.1960 through 63.1985 and with the general provisions of this part specified in table 1 of this subpart.

**A. State and Federally Enforcable Section (continued)**

(c) For approval of collection and control systems that include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, record keeping or reporting provisions, you must follow the procedures in 40 CFR 60.752(b)(2). If alternatives have already been approved under 40 CFR Part 60 Subpart WWW or the Federal plan, or EPA approved and effective State or tribal plan, these alternatives can be used to comply with this subpart, except that all affected sources must comply with the SSM requirements in Subpart A of this part as specified in Table 1 of this subpart and all affected sources must submit compliance reports every 6 months as specified in Section 63.1980(a) and (b), including information on all deviations that occurred during the 6-month reporting period. Deviations for continuous emission monitors or numerical continuous parameter monitors must be determined using a 3 hour monitoring block average.

(d) If you own or operate a bioreactor that is located at a MSW landfill that is not permanently closed and has a design capacity equal to or greater than 2.5 million Mg and 2.5 million m<sup>3</sup>, then you must meet the requirements of paragraph (a) and the additional requirements in paragraphs (d)(1) and (2) of this section.

(1) You must comply with the general provisions specified in Table 1 of this subpart and Sections 63.1960 through 63.1985 starting on the date you are required to install the gas collection and control system.

(2) You must extend the collection and control system into each new cell or area of the bioreactor prior to initiating liquids addition in that area, instead of the schedule in 40 CFR 60.752(b)(2)(ii)(A)(2).

**General and Continuing Compliance Requirements**

**Section 63.1960**

Compliance is determined in the same way it is determined for 40 CFR Part 60, Subpart WWW, including performance testing, monitoring of the collection system, continuous parameter monitoring, and other credible evidence. In addition, continuous parameter monitoring data, collected under 40 CFR 60.756(b)(1), (c)(1), and (d) of Subpart WWW, are used to demonstrate compliance with the operating conditions for control systems. If a deviation occurs, you have failed to meet the control device operating conditions described in this subpart and have deviated from the requirements of this subpart. Finally, you must develop and implement a written SSM plan according to the provisions in 40 CFR 63.6(e)(3). A copy of the SSM plan must be maintained on site. Failure to write, implement, or maintain a copy of the SSM plan is a deviation from the requirements of this subpart.

**Section 63.1965**

A deviation is defined in Section 63.1990. For the purposes of the landfill monitoring and SSM plan requirements, deviations include the items in paragraphs (a) through (c) of this section.

(a) A deviation occurs when the control device operating parameter boundaries described in 40 CFR 60.758(c)(1) of Subpart WWW are exceeded.

(b) A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour.

(c) A deviation occurs when a SSM plan is not developed, implemented, or maintained on site.

## **A. State and Federally Enforcable Section (continued)**

### Section 63.1975

Averages are calculated in the same way as they are calculated in 40 CFR Part 60, Subpart WWW, except that the data collected during the events listed in paragraphs (a), (b), (c), and (d) of this section are not to be included in any average computed under this subpart:

- (a) Monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments.
- (b) Startups.
- (c) Shutdowns.
- (d) Malfunctions.

Notifications, Records, and Reports

### Section 63.1980

(a) Keep records and reports as specified in 40 CFR Part 60, Subpart WWW, or in the Federal plan, EPA approved State plan or tribal plan that implements 40 CFR Part 60, Subpart Cc, whichever applies to your landfill, with one exception: You must submit the annual report described in 40 CFR 60.757(f) every 6 months.

(b) You must also keep records and reports as specified in the general provisions of 40 CFR Part 60 and this part as shown in Table 1 of this subpart. Applicable records in the general provisions include items such as SSM plans and the SSM plan reports.

(c) For bioreactors at new affected sources you must submit the initial semiannual compliance report and performance test results described in 40 CFR 60.757(f) within 180 days after the date you are required to begin operating the gas collection and control system by Section 63.1947(a)(2) of this subpart.

(d) For bioreactors at existing affected sources, you must submit the initial semiannual compliance report and performance test results described in 40 CFR 60.757(f) within 180 days after the compliance date specified in Section 63.1947(b) of this subpart, unless you have previously submitted a compliance report for the bioreactor required by 40 CFR Part 60, Subpart WWW, the Federal plan, or an EPA approved and effective State plan or tribal plan.

(e) For bioreactors that are located at existing affected sources, but do not initiate liquids addition until later than the compliance date in Section 63.1947(b) of this subpart, you must submit the initial semiannual compliance report and performance tests results described in 40 CFR 60.757(f) within 180 days after the date you are required to begin operating the gas collection and control system by Section 63.1947(c) of this subpart.

(f) If you must submit a semiannual compliance report for a bioreactor as well as a semiannual compliance report for a conventional portion of the same landfill, you may delay submittal of a subsequent semiannual compliance report for the bioreactor according to paragraphs (f)(1) through (3) of this section so that the reports may be submitted on the same schedule.

(1) After submittal of your initial semiannual compliance report and performance test results for the bioreactor, you may delay submittal of the subsequent semiannual compliance report for the bioreactor until the date the initial or subsequent semiannual compliance report is due for the conventional portion of your landfill.

(2) You may delay submittal of your subsequent semiannual compliance report by no more than 12 months after the due date for submitting the initial semiannual compliance report and performance test results described in 40 CFR 60.757(f) for the bioreactor. The report shall cover the time period since the previous semiannual report for the bioreactor, which would be a period of at least 6 months and no more than 12 months.

(3) After the delayed semiannual report, all subsequent semiannual reports for the bioreactor must be submitted every 6 months on the same date the semiannual report for the conventional portion of the landfill is due.

## **A. State and Federally Enforcable Section (continued)**

(g) If you add any liquids other than leachate in a controlled fashion to the waste mass and do not comply with the bioreactor requirements in Sections 63.1947, 63.1955(c) and 63.1980(c) through (f) of this subpart, you must keep a record of calculations showing that the percent moisture by weight expected in the waste mass to which liquid is added is less than 40 percent. The calculation must consider the waste mass, moisture content of the incoming waste, mass of water added to the waste including leachate recirculation and other liquids addition and precipitation, and the mass of water removed through leachate or other water losses. Moisture level sampling or mass balances calculations can be used. You must document the calculations and the basis of any assumptions. Keep the record of the calculations until you cease liquids addition.

(h) If you calculate moisture content to establish the date your bioreactor is required to begin operating the collection and control system under Section 63.1947(a)(2) or (c)(2), keep a record of the calculations including the information specified in paragraph (g) of this section for 5 years. Within 90 days after the bioreactor achieves 40 percent moisture content, report the results of the calculation, the date the bioreactor achieved 40 percent moisture content by weight, and the date you plan to begin collection and control system operation.

### Other Requirements and Information

#### Section 63.1985

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or tribal agency. If the EPA Administrator has delegated authority to a State, local, or tribal agency, then that agency as well as the U.S. EPA has the authority to implement and enforce this subpart. Contact the applicable EPA Regional Office to find out if this subpart is delegated to a State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under Subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the EPA Administrator and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are as follows. Approval of alternatives to the standards in Section 63.1955. Where these standards reference another subpart, the cited provisions will be delegated according to the delegation provisions of the referenced subpart.

#### Section 63.1990

Terms used in this subpart are defined in the Clean Air Act, 40 CFR Part 60, Subparts A, Cc, and WWW; 40 CFR Part 62, Subpart GGG, and Subpart A of this part, and this section that follows:

Bioreactor means a MSW landfill or portion of a MSW landfill where any liquid other than leachate (leachate includes landfill gas condensate) is added in a controlled fashion into the waste mass (often in combination with recirculating leachate) to reach a minimum average moisture content of at least 40 percent by weight to accelerate or enhance the anaerobic (without oxygen) biodegradation of the waste.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

- (1) Fails to meet any requirement or obligation established by this subpart, including, but not limited to, any emissions limitation (including any operating limit) or work practice standard;
- (2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or
- (3) Fails to meet any emission limitation, (including any operating limit), or work practice standard in this subpart during SSM, regardless of whether or not such failure is permitted by this subpart.

Emissions limitation means any emission limit, opacity limit, operating limit, or visible emissions limit.

EPA approved State plan means a State plan that EPA has approved based on the requirements in 40 CFR Part 60, Subpart B to implement and enforce 40 CFR Part 60, Subpart Cc. An approved State plan becomes effective on the date specified in the notice published in the Federal Register announcing EPA's approval.

Federal plan means the EPA plan to implement 40 CFR Part 60, Subpart Cc for existing MSW landfills located in States and Indian country where State plans or tribal plans are not currently in effect. On the effective date of an EPA approved State or tribal plan, the Federal plan no longer applies. The Federal plan is found at 40 CFR Part 62, Subpart GGG.

**A. State and Federally Enforcable Section (continued)**

Municipal solid waste landfill or MSW landfill means an entire disposal facility in a contiguous geographical space where household waste is placed in or on land. A municipal solid waste landfill may also receive other types of RCRA Subtitle D wastes (see Section 257.2 of this chapter) such as commercial solid waste, nonhazardous sludge, conditionally exempt small quantity generator waste, and industrial solid waste. Portions of a municipal solid waste landfill may be separated by access roads. A municipal solid waste landfill may be publicly or privately owned. A municipal solid waste landfill may be a new municipal solid waste landfill, an existing municipal solid waste landfill, or a lateral expansion.

Tribal plan means a plan submitted by a tribal authority pursuant to 40 CFR Parts 9, 35, 49, 50, and 81 to implement and enforce 40 CFR Part 60, Subpart Cc.

Work practice standard means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the Clean Air Act.

As stated in Sections 63.1955 and 63.1980, you must meet each requirement in the following table that applies to you.

Table 1 of Subpart AAAA of Part 63: Applicability of NESHAP General Provisions to Subpart AAAA

Part 63 Citation	Description	Explanation
63.1(a) .....	Applicability: general applicability of NESHAP in this part.	Affected sources are already subject to the provisions of paragraphs (a)(10)-(12) through the same provisions under 40 CFR, Part 60 Subpart A.
63.1(b) .....	Applicability determination for stationary sources.	
63.1(e) .....	Title V permitting	
63.2 .....	Definitions	
63.4 .....	Prohibited activities and circumvention.	Affected sources are already subject to the provisions of paragraph (b) through the same provisions under 40 CFR Part 60, Subpart A.
63.5(b) .....	Requirements for existing, newly constructed, and reconstructed sources.	
63.6(e) .....	Operation and maintenance requirements, startup, shutdown and malfunction plan provisions.	
63.6(f) .....	Compliance with nonopacity emission standards	Affected sources are already subject to the provisions of paragraphs (f)(1) and (2)(i) through the same provisions Under 40 CFR Part 60, Subpart A.
63.10(b)(2)(i)-(b)(2)(v)....	General record keeping requirements.	

**A. State and Federally Enforceable Section (continued)**

- 63.10(d)(5) ..... If actions taken during a startup, shutdown and malfunction plan are consistent with the procedures in the startup, shutdown and malfunction plan, this information shall be included in a semi-annual startup, shutdown and malfunction plan report. Any time an action taken during a startup, shutdown and malfunction plan is not consistent with the startup, shutdown and malfunction plan, the source shall report actions taken within 2 working days after commencing such actions, followed by a letter 7 days after the event.
  - 63.12(a) ..... These provisions do not preclude the State from adopting and enforcing any standard, limitation, etc., requiring permits, or requiring emissions reductions in excess of those specified.
  - 63.15 ..... Availability of information and confidentiality.
- 

**B. State Only Enforceable Section**

1. The following insignificant emissions units are located at this facility:

- T001 - 21,000-gallon leachate storage tank;
- T002 - 21,000-gallon leachate storage tank;
- T003 - 2,100-gallon leachate storage tank;
- T004 - 2,100-gallon leachate storage tank;
- T005 - 1,000-gallon above ground diesel storage tank;
- Z007 - Landfill ground water remediation vents; and
- Z008 - Storage Piles.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Landfill Roadways and Parking Areas (F001)

**Activity Description:** Landfill Roadways and Parking Areas.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
unpaved roadways and parking areas	OAC rule 3745-31-05(A)(3) (PTI 14-04858)	Total combined particulate emissions (PE) from the paved roadways and parking areas, and unpaved roadways shall not exceed 63.6 tons per year (TPY).
		Total combined particulate matter with a diameter of 10 microns or less in size (PM10 emissions) from the paved roadways and parking areas, and unpaved roadways shall not exceed 13.2 TPY.
		There shall be no visible PE except for 3 minutes during any 60-minute observation period.
paved roadways and parking areas		See Section A.I.2 below.
	OAC rule 3745-17-07(B)(5)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)(2)	The control measure specified by this rule are the same as or less stringent than the control measures established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(A)(3) (PTI 14-4858)	There shall be no visible PE except for one minute during any 60-minute observation period.
	OAC rule 3745-17-07(B)(4)	See Section A.I.2 below.
		The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rules 3745-17-08(B)(8) and (B)(9)	The control measures specified by these rules are the same as or less stringent than the control measures established pursuant to OAC rule 3745-31-05(A)(3).

## 2. Additional Terms and Conditions

- 2.a** The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rule 3745-31-05(A)(3) are listed below:
- unpaved roadways: unpaved roadways #1, #2, #3, and #4
- unpaved parking areas: none
- 2.b** The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-31-05(A)(3), 3745-17-07 and 3745-17-08 are listed below:
- paved roadways: paved roadways #1, #2, and #3
- paved parking areas: paved parking areas #1 and #2
- 2.c** The permittee shall employ best available control measures on all unpaved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by sweeping and flushing with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** Any unpaved roadway, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measures specified above for paved surfaces. Any unpaved roadway that takes the characteristics of a paved roadway due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways. Any unpaved roadway area that is paved shall be subject to the visible emission limitation for paved roadways.
- 2.f** 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 an unpaved or paved 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.g** 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.h** 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.i** 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(A)(3).

## 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 of the paved and unpaved roadway segments and each parking area in accordance with the following frequencies:

paved and unpaved roadways      minimum inspection frequency

all      daily during operation

paved parking areas      minimum inspection frequency

all      daily during operation

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 Hamilton County Department of Environmental Services, 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. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and C(3) of OAC rule 3745-77-08.
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 4.d shall be kept separately for (1) the paved roadways and parking areas and (2) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

## IV. Reporting Requirements

1. The permittee shall submit quarterly 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 quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

## V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

1.a Emissions Limitation: No visible PE except for 1 minute during any 60-minute period (for paved roadways and parking areas).

Applicable Compliance Method: Compliance with the visible PE limitation for the paved roadways and parking areas specified in Section A of this permit 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.

1.b Emission Limitation: No visible PE except for 3 minutes during any 60-minute period (for unpaved roadways).

Applicable Compliance Method: Compliance with the visible PE limitation for the unpaved roadways and parking areas specified in Section A of this permit 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.

1.c Emission Limitation: 63.6 TPY of PE from the paved roadways and parking areas, and unpaved roadways combined

Applicable Compliance Method: The annual PE limitation shall be determined using the following methodology:

$$\text{TPY of PE} = (A) \times (B) \times (1-C) \times (1 \text{ ton}/2,000 \text{ lbs})$$

where:

A = annual vehicle miles traveled [the maximum values used in the PTI application were 153,163 miles on paved roadways; 187,594 miles on unpaved roadways]

B = PE emission factor, lbs per vehicle mile traveled\* [4.37 lbs of PE/vehicle mile, for paved roadways; 17.26 lbs of PE/vehicle mile for, unpaved roadways]

C = control efficiency, in percent (%), expressed as a decimal [97% control efficiency for unpaved roadways; 95.5% control efficiency for paved roadways]

\* calculated from AP-42, Fifth Edition, Chapter 13.2.1, dated 10/97, and Chapter 13.2.2, dated 9/98

1.d Emission Limitation: 13.2 TPY of PM10 emissions from the paved and unpaved roadways.

Applicable Compliance Method: The annual PE limitation shall be determined using the following methodology:

$$\text{TPY of PM10 emissions} = (A) \times (B) \times (1-C) \times (1 \text{ ton}/2,000 \text{ lbs})$$

where:

A = annual vehicle miles traveled [the maximum values used in the PTI application were 153,163 miles on paved roadways; 187,594 miles on unpaved roadways]

B = PM10 emission factor, in lbs per vehicle mile traveled\* [0.85 lbs of PM10 emissions/vehicle mile, for paved roadways; 3.64 lbs of PM10 emissions/vehicle mile, for unpaved roadways]

C = control efficiency, in percent (%) expressed as a decimal [97% control efficiency for unpaved roadways; 95.5% control efficiency for unpaved roadways]

\* calculated from AP-42, Fifth Edition, Chapter 13.2.1, dated 10/97, and Chapter 13.2.2, dated 9/98

Facility Name: **Bond Road Landfill**  
Facility ID: **14-31-47-3443**  
Emissions Unit: **Landfill Roadways and Parking Areas (F001)**

**VI. Miscellaneous Requirements**

**None**

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** 150 Ton/hr Portable Soil Shredding Operation (F007)

**Activity Description:** 150 Ton/hr Portable Soil Shredding Operation Including Material Handling and Storage. Permitted under PTI # 14-4771 for Rumpke Sanitary Landfill in Hamilton County, Ohio.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
150 tons/hour soil shredding operation including material handling, screening, and storage	OAC rule 3745-31-05(A)(3) (PTI 14-4771)	<p>4.08 lbs of particulate emissions (PE)/hour*</p> <p>2.04 lbs of particulate matter with a diameter of 10 microns or less (PM10 emissions)/hour*</p> <p>38.53 tons per year (TPY) of PE 19.26 TPY of PM10 emissions</p> <p>* The hourly emission limitations specified above are based upon the emission unit's potential to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations.</p> <p>The hourly PE and PM10 emission limitations established in PTI 14-4771 are for the material handling and screening operations only. The hourly PE from the storage piles associated with this emissions unit are not included in this emission limitation.</p> <p>See Section A.II below.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO, and OAC rules 3745-17-07(B) and 3745-17-08(B).</p> <p>See Section A.I.2 below.</p>
	40 CFR Part 60, Subpart OOO	

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-07(B)(1)	The visible PE limitation of fugitive dust specified by this rule is less stringent than that specified in 40 CFR Part 60, Subpart OOO.
	OAC rule 3745-17-08(B)	No person shall cause or permit any fugitive dust source to be operated, or any materials to be handled, transported, or stored, without installing reasonably available control measures (RACM) to prevent fugitive dust from becoming airborne. RACM for this emissions unit is the maintaining of soil to be shredded in a moist condition.

**2. Additional Terms and Conditions**

- 2.a** Fugitive PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed a 10 percent opacity, except as provided by rule 40 CFR Section 60.672.
- 2.b** Fugitive PE from any crusher shall not exceed 15% opacity.
- 2.c** There shall be no visible PE of fugitive dust from any material storage pile associated with this emissions unit, except for one minute during any 60-minute observation period.

**II. Operational Restrictions**

- 1.** All material processed through this emissions unit shall contain sufficient moisture so as to minimize or eliminate visible PE of fugitive dust at all times when this emissions unit is in operation. The moisture content shall be sufficient to demonstrate compliance with the visible PE limitation specified in this permit. Should the moisture content prove insufficient to be able to demonstrate compliance with the visible PE limitation, additional control measures shall be employed.
- 2.** During the unloading onto or removal from the material storage piles associated with this emissions unit, the drop height of the front end loader and stackers shall be minimized in order to minimize or eliminate visible PE of fugitive dust.
- 3.** The maximum annual amount of material processed in this emissions unit shall not exceed 500,000 TPY.

**III. Monitoring and/or Record Keeping Requirements**

- 1.** The permittee shall maintain monthly records of the total amount of material processed in this emissions unit each month, in tons.
- 2.** The permittee shall maintain annual records of the total amount of material processed in this emissions unit for each calendar year, in tons [the summation of A.III.1 for each month of the calendar year].
- 3.** On days when this emission unit is in operation, the permittee shall inspect the shredding operation, material handling operations, and storage piles to ensure that the moisture content of the soil present is sufficient to minimize or eliminate fugitive visible particulate emissions. Should abnormal fugitive visible emissions be present, additional control measures shall be employed to further minimize or eliminate fugitive visible emissions. The results of this inspection and any corrective measures taken to minimize or eliminate fugitive visible emissions shall be recorded in a log book.

#### IV. Reporting Requirements

1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total amount, in tons, of material processed in this emissions unit for the calendar year. Each report shall be submitted by January 31 of each year and cover the previous calendar year.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
  - a. each day during which an inspection required in Section A.III.3 was not performed; and
  - b. each instance when an additional control measure, that was to be implemented as a result of an inspection, was not implemented.
3. The quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

#### V. Testing Requirements

1. Compliance with the emission limitations and material usage restriction specified in Sections A.I.1 and A.II.3 shall be determined by the following methods:

**1.a** Emission Limitations: 4.08 lbs of PE/hr; 2.04 lbs of PM10 emissions/hr

Applicable Compliance Method: The hourly emission limitations specified above are based upon the emission unit's potential to emit and were established by the following methodology:

$$\text{lbs of PE} = (A) \times (B) \times (1-C)$$

$$\text{lbs of PM10 emissions} = (A) \times (B) \times (1-C) \times (0.50)^*$$

where:

A = PE factor, as calculated from AP-42, Chapter 11.3, dated August, 1997 [see emission calculations detailed in PTI 14-4771 for specific emission factors (load-in, load-out, shredding, etc)] .

B = maximum hourly throughput of 150 tons.

C = assumed conservative control efficiency of 75%, expressed as a decimal, from AP-42, Chapter 11.3, dated August, 1997.

\* The PM10 emissions are conservatively estimated to be 50% of the total PE from this emissions unit, based on AP-42, Fifth Edition, Chapter 11.3, dated August, 1997.

**1.b** Emission Limitations: 38.53 TPY of PE; 19.26 TPY of PM10 emissions

Applicable Compliance Method: Compliance shall be determined by calculating emissions using the following equations:

$$\text{TPY of PE} = (A) \times (B) \times (1-C) \times (1 \text{ ton}/2,000 \text{ lbs})$$

$$\text{TPY of PM10 emissions} = (A) \times (B) \times (1-C) \times (1 \text{ ton}/2,000 \text{ lbs}) \times (0.50)^*$$

where:

A = PE emission factor, as calculated from AP-42, Fifth Edition, Chapter 11.3, dated August, 1997 [see emission calculations detailed in PTI 14-4771 for specific emission factors (load-in, load-out, shredding, etc)] .

B = total annual material throughput, in tons, [as determined pursuant to the record keeping requirements specified in Section A.III.2].

C = assumed conservative control efficiency of 75%, expressed as a decimal, from AP-42, Fifth Edition, Chapter 11.3, dated August, 1997.

\* The PM10 emissions are conservatively estimated to be 50% of the total PE from this emissions unit, based on AP-42, Fifth Edition, Chapter 11.3, dated August, 1997.

**V. Testing Requirements (continued)**

- 1.c** Material Usage Restriction: The maximum annual amount of material processed in this emissions unit shall not exceed 500,000 TPY.

Applicable Compliance Method: Compliance with the material usage restriction shall be determined by the record keeping requirements specified in Section A.III.2.

- 1.d** Emission Limitation: No visible PE of fugitive dust from any material storage pile associated with this emissions unit, except for one minute during any 60-minute observation period.

Applicable Compliance Method: Compliance 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.

- 1.e** Emission Limitations:

a. Visible fugitive PE from any transfer point on the belt conveyors and from any other emission point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10% opacity, except as provided by rule 40 CFR Section 60.672.

b. Visible fugitive PE from any crusher shall not exceed 15% opacity.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitations in (a) and (b) above through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Test Method 9.

## VI. Miscellaneous Requirements

### 1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. in the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. the portable emissions unit is equipped with best available technology;
- g. the portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
- j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

### 2. Any site approval issued by Ohio EPA, pursuant to A.VI.1 above, shall be valid for no longer than three years and is subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate Ohio EPA field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee shall file a "Notice of Intent to Relocate," within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate Ohio EPA field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate Ohio EPA field office having jurisdiction over the new site will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in civil penalties.

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** 250 Ton/hr Portable Soil Shredding Operation (F008)

**Activity Description:** 250 Ton/hr Portable Soil Shredding Operation Including Material Handling and Storage. Permitted under PTI # 14-4771 for Rumpke Sanitary Landfill in Hamilton County, Ohio.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
250 tons/hour soil shredding operation including material handling, screening, and storage	OAC rule 3745-31-05(A)(3) (PTI 14-4771)	6.80 lbs of particulate emissions (PE)/hour* 3.40 lbs of particulate matter emissions with a diameter of 10 microns or less (PM10)/hour*  41.02 TPY of PE 20.51 TPY of PM10 emissions  * The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no hourly recordkeeping or reporting is required to demonstrate compliance with these limits.  The lbs of PE and PM10/hr emission limitations established in PTI 14-4771 are for the material handling and screening operations only. The hourly PE emissions from the storage piles associated with F008 are not included in this emission limitation.  See Section A.II below.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO, and 3745-17-07(B)(1) and 3745-17-08(B).  See Section A.I.2 below.
	40 CFR Part 60, Subpart OOO	

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-07(B)(1)	The fugitive visible PE limitation established by this rule is less stringent than that specified in 40 CFR Part 60, Subpart OOO.
	OAC rule 3745-17-08(B)	No person shall cause or permit any fugitive dust source to be operated; or any materials to be handled, transported, or stored; without installing reasonably available control measures to prevent fugitive dust from becoming airborne. RACM for this emissions unit is the maintaining of soil to be shredded in a moist condition.

**2. Additional Terms and Conditions**

- 2.a** Fugitive PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10 percent opacity, except as provided by rule 40 CFR 60.672.
- 2.b** Fugitive PE from any crusher shall not exceed 15 percent opacity.
- 2.c** There shall be no fugitive visible PE from any material storage pile associated with this emissions unit, except for one minute during any 60-minute observation period.

**II. Operational Restrictions**

- 1.** Material processed through this emissions unit shall contain sufficient moisture to minimize or eliminate visible PE of fugitive dust at all times when the emissions unit is in operation. The moisture content shall be sufficient to demonstrate compliance with the visible PE limitation specified in this permit. Should the moisture content prove insufficient to be able to demonstrate compliance with the visible emission limitations within this permit, additional control measures shall be employed.
- 2.** During the unloading onto or removal from the material storage piles associated with this emissions unit, the drop height of the front end loader and stackers shall be minimized in order to minimize or visible PE of fugitive dust.
- 3.** The maximum annual amount of material processed in this emissions unit shall not exceed 500,000 tons/yr.

**III. Monitoring and/or Record Keeping Requirements**

- 1.** The permittee shall maintain monthly records of the total amount of material processed in this emissions unit each month, in tons.
- 2.** The permittee shall maintain annual records of the total amount of material processed in this emissions unit for each calendar year, in tons [the summation of A.III.1 for each month of the calendar year].
- 3.** On days when this emission unit is in operation, the permittee shall inspect the shredding operation, material handling operations, and storage piles to ensure that the moisture content of the soil present is sufficient to minimize or eliminate fugitive visible PE. Should abnormal fugitive visible emissions be present, additional control measures shall be employed to further minimize or eliminate fugitive visible emissions. The results of this inspection and any corrective measures taken to minimize or eliminate fugitive visible emissions shall be recorded in a log book.

#### IV. Reporting Requirements

1. The permitted shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total amount, in tons, of material processed in this emissions unit for the calendar year. Each report shall be submitted by January 31 of each year and cover the previous calendar year.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
  - a. each day during which an inspection required in Section A.III.3 was not performed; and
  - b. each instance when an additional control measure, that was to be implemented as a result of an inspection, was not implemented.
3. The quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

#### V. Testing Requirements

1. Compliance with the emission limitations and material process restriction specified in Sections A.I.1, A.I.2 and A.II shall be determined by the following methods:

**1.a** Emission Limitations: 6.80 lbs of PE/hr; 3.40 lbs of PM10 emissions/hr

Applicable Compliance Method: The hourly PE and PM10 emission limitations are based upon the emissions unit's potential to emit and were established by the following methodology:

$$\text{lbs of PE/hr} = (A) \times (B) \times (1-C)$$

$$\text{lbs of PM10} = \text{lbs of PE (as calculated above)} \times 0.50^*$$

where:

A = PE emission factor, as calculated from AP-42, Chapter 11.3, dated August, 1997 edition [see emission calculations detailed in PTI 14-4771 for specific emission factors (load-in, load-out, shredding, etc)].

B = maximum hourly throughput of 250 tons.

C = assumed conservative control efficiency of 75%, expressed as a decimal, from AP-42, Chapter 11.3, dated August, 1997.

\* The PM10 emissions are conservatively estimated to be 50% of the total PE from this emissions unit, based on AP-42, Chapter 11.3, dated August, 1997.

**1.b** Emission Limitations: 41.02 TPY of PE; 20.51 TPY of PM10 emissions

Applicable Compliance Method: Compliance may be determined by calculating emissions using the following equation:

$$\text{TPY of PE} = (A) \times (B) \times (1-C) \times 0.0005$$

$$\text{TPY of PM10} = \text{TPY of PE (as calculated above)} \times 0.50^*$$

where:

A = PE emission factor, as calculated from AP-42, Chapter 11.3, dated August, 1997 edition [see emission calculations detailed in PTI 14-4771 for specific emission factors (load-in, load-out, shredding, etc)].

B = total annual throughput, in tons, from Section A.III.2.

C = assumed conservative control efficiency of 75%, expressed as a decimal, from AP-42, Chapter 11.3, dated August, 1997.

\* The PM10 emissions are conservatively estimated to be 50% of the total PE from this emissions unit, based on AP-42, Chapter 11.3, dated August, 1997.

## V. Testing Requirements (continued)

- 1.c** Material Process Restriction: 500,000 tons/yr.

Applicable Compliance Method: Compliance with the material process restriction shall be determined by the record keeping requirements specified in Section A.III.2.

- 1.d** Emission Limitation: No visible PE of fugitive dust from any material storage pile associated with this emissions unit, except for one minute during any 60-minute observation period.

Applicable Compliance Method: Compliance 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.

- 1.e** Emission Limitations:

a. Visible fugitive PE from any transfer point on the belt conveyors and from any other emission point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10% opacity, except as provided by rule 40 CFR Section 60.672.

b. Visible fugitive PE from any crusher shall not exceed 15% opacity.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitations in (a) and (b) above through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Test Method 9.

## VI. Miscellaneous Requirements

- 1.** Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);

c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and

d. in the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

f. the portable emissions unit is equipped with best available technology;

g. the portable emission unit owner has identified the proposed site to the Ohio EPA;

h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

**VI. Miscellaneous Requirements (continued)**

- j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

2. Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Portable 150 Tons/hr Soil Crusher (F009)

**Activity Description:** Portable 150 Tons/hr Soil Crusher. Permitted under PTI # 06-5712. Source F003 for Beech Hollow Sanitary Landfill in Jackson County, Ohio.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
150 tons/hour soil/rock crushing operation including material handling, screening, and storage piles	OAC rule 3745-31-05(A)(3) (PTI 06-5712)	5.77 tons per year (TPY) of particulate emissions (PE) from the soil/rock crushing operation  27.41 TPY of PE from storage pile load-in/load-out operations and from wind erosion of storage piles  0.08 TPY of PE from material handling operations associated with the soil/rock crusher  See Section A.II below.  There shall be no visible PE from any material storage pile associated with this emissions unit except for a period of time not to exceed one minute during any 60-minute observation period.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO, and OAC rules 3745-17-07(B)(1) and 3745-17-07(B)(6).
	40 CFR Part 60, Subpart OOO	See Sections A.I.2.a and A.I.2.b below.
	OAC rule 3745-17-07(B)(1)	See Section A.I.2.c below.
	OAC rule 3745-17-07(B)(6)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-08(B)	No person shall cause or permit any fugitive dust source to be operated; or any materials to be handled, transported, or stored; without installing reasonably available control measures to prevent fugitive dust from becoming airborne. RACM for this emissions unit is the maintaining of soil/rock to be crushed in a moist condition.

## 2. Additional Terms and Conditions

- 2.a Fugitive PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10 percent opacity, except as provided by rule 40 CFR 60.672.
- 2.b Fugitive PE from any crusher shall not exceed 15 percent opacity.
- 2.c Visible PE from the material handling operations associated with this emissions unit shall not exceed 20% opacity as a 3-minute average.

## II. Operational Restrictions

- 1. Material processed through this emissions unit shall contain sufficient moisture to minimize or eliminate visible PE of fugitive dust at all times when this emissions unit is in operation. The moisture content shall be sufficient to demonstrate compliance with the visible PE limitation specified in this permit. Should the moisture content prove insufficient to be able to demonstrate compliance with the visible emission limitations within this permit, additional control measures shall be employed.
- 2. During the unloading onto or removal from the material storage piles associated with this emissions unit, the drop height of the front end loader and stackers shall be minimized in order to minimize or eliminate visible PE of fugitive dust.
- 3. The maximum annual amount of material processed in this emissions unit shall not exceed 453,600 tons/yr.

## III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the total amount of material processed in this emissions unit each month, in tons.
- 2. The permittee shall maintain annual records of the total amount of material processed in this emissions unit for each calendar year, in tons [the summation of A.III.1 for each month of the calendar year].
- 3. On days when this emission unit is in operation, the permittee shall inspect the crushing operation, material handling operations, and storage piles to ensure that the moisture content of the soil present is sufficient to minimize or eliminate fugitive visible PE. Should abnormal fugitive visible emissions be present, additional control measures shall be employed to further minimize or eliminate fugitive visible emissions. The results of this inspection and any corrective measures taken to minimize or eliminate fugitive visible emissions shall be recorded in a log book.

## IV. Reporting Requirements

- 1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total amount, in tons, of material processed in this emissions unit for the calendar year. Each report shall be submitted by January 31 of each year and cover the previous calendar year.

#### IV. Reporting Requirements (continued)

2. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
  - a. each day during which an inspection required in Section A.III.3 was not performed; and
  - b. each instance when an additional control measure, that was to be implemented as a result of an inspection, was not implemented.
3. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.

#### V. Testing Requirements

1. Compliance with the emission limitations and the material process restriction specified in Sections A.I.1, A.I.2 and A.II.3 shall be determined by the following methods:

- 1.a Emission Limitations:

5.77 TPY of PE from the soil/rock crushing operation;

27.41 TPY of PE from storage pile load-in/load-out and wind erosion from storage piles; and

0.08 TPY of PE from material handling operations associated with the soil/rock crusher

Applicable Compliance Method: The annual emission limitations were established by using the following methodology:

$TPY\ of\ PE = (A) \times (B) \times (1-C) \times 1\ ton/2,000\ lbs$

where:

A = PE emission factor, as calculated from AP-42, Chapter 11.3 dated August, 1997 edition [see emission calculations detailed in PTI 06-5712 for specific emission factors (load-in, load-out, crushing, storage piles, etc)].

B = total annual throughput, in tons, from Section A.III.2.

C = assumed conservative control efficiency of 75%, expressed as a decimal, from AP-42, Chapter 11.3 dated August, 1997.

- 1.b Emission Limitation: There shall be no visible PE from any material storage piles associated with this emissions unit except for a period of time not to exceed one minute during any 60-minute observation period. Applicable Compliance Method: Compliance 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.

- 1.c Emission Limitations:

- a. Visible fugitive PE from any transfer point on the belt conveyors and from any other emission point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10% opacity, except as provided by rule 40 CFR Section 60.672.

- b. Visible fugitive PE from any crusher shall not exceed 15% opacity.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitations in (a) and (b) above through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Test Method 9.

- 1.d Material Process Restriction: 453,600 tons/yr.

Applicable Compliance Method: Compliance with the material process restriction shall be determined by the record keeping requirements specified in Section A.III.2.

## VI. Miscellaneous Requirements

### 1. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. in the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. the portable emissions unit is equipped with best available technology;
- g. the portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
- j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

### 2. Any site approvals issued by the Ohio EPA, pursuant to A.VI.1 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Landfill Gas Generation (P001)

**Activity Description:** Landfill Gas Generation and Material Handling and Solid Waste Operations. Combined With Previous Source F002.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
new municipal solid waste (MSW) landfill (landfill capacity greater than 2.5 mm cubic meters and non-methane organic compound (NMOC) emission rate less than 50 megagrams per year (Mg/yr)), including material handling and solid waste disposal operations	OAC rule 3745-31-05(A)(3) (PTI 14-3569)	Particulate emissions (PE) emissions shall not exceed 14.64 tons per year (TPY).  Particulate matter emissions with a diameter of less than 10 microns (PM10) shall not exceed 7.32 TPY.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B) and 3745-17-08(B).
	OAC rule 3745-17-07(B)(1)	See sections A.I.2. and A.II. below. Visible emissions of any fugitive dust shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)	The control measures specified by this rule are the same as or less stringent than the control measures established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 60, Subpart WWW	The NMOC emission rate for this landfill is currently less than 50 Mg/yr. Therefore, at present the landfill is exempt from the control requirements as specified in 40 CFR Part 60, Subpart WWW.  If the NMOC emission rate, upon the recalculation as required in 40 CFR 60.752(b)(1)(ii), is equal to or greater than 50 Mg/yr, the permittee shall install a collection and control system in accordance with the time schedule specified in 40 CFR 60.752(b)(2).

## 2. Additional Terms and Conditions

- 2.a** The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:
- unloading, conveying, transfer, and loading of solid wastes and topsoils
- 2.b** The permittee shall ensure that solid wastes and topsoils are deposited, spread and compacted in such a manner as to minimize or prevent visible emissions of dust. This facility shall require all truckloads of solid waste to be unloaded in a manner which will minimize the drop height of the solid wastes. Any dusty materials, topsoils, 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 done 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 it has been treated to prevent it from becoming airborne.
- 2.c** Unvegetated cover material and soil in the waste disposal area must be periodically wetted with water to minimize or eliminate fugitive dust generation. The frequency and amounts of this water application will depend on weather conditions, cover material conditions and soil conditions.
- 2.d** All vehicles hauling material shall be closed, covered or tarped coming to or leaving the facility in order to minimize visible emission of fugitive dust and to eliminate load loss.
- 2.e** All wastes shall be covered with at least 6 inches of soil or alternative cover approved by the Director by the end of each day.
- 2.f** There shall be no open burning in violation of OAC Chapter 3745-19 at this facility.

## II. Operational Restrictions

- 1.** This facility shall not accept for disposal any Regulated Asbestos-Containing Material (RACM) as defined in the NESHAP for Asbestos, 40 CFR Part 61, Subpart M, Section 141 amended 11/20/90 or any subsequent revisions. This regulation defines RACM as "(a) Friable asbestos material, (b) Category I nonfriable asbestos containing material (ACM) that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II nonfriable ACM 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.

For asbestos containing materials, this facility shall be limited to accepting asbestos materials which contain less than or equal to one percent asbestos and Category I and Category II nonfriable ACM that has not or will not be subjected to sanding, grinding, cutting, or abrading.

This facility shall ensure that any Category I and Category II nonfriable ACM which has not or will not be subjected to sanding, grinding, cutting, or abrading shall not become friable during processing at the landfill.

- 2.** This facility shall be limited to accepting no more than 1,464,000 tons of material per calendar year (only 1% of the acceptable material can be C&D material as defined in Ohio Revised Code (RC) Section 3714.01(c)). Based on an assumed density of 1,000 pounds per cubic yard of as received material, the facility shall be limited to accepting no more than 2,928,000 cubic yards per year.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall inspect the material handling operations at the landfill (unloading, conveying, transfer, and loading of solid wastes and topsoils) daily during operation to ensure that the control measures as described in A.1.2.b, c, d and e are being implemented as described.

The permittee shall maintain records of the following information:

- a. all the dates and times during which inspections were performed;
- b. all the dates during which it was determined that any of the control measures described in Section A.1.2.b through e was not implemented; and
- c. on a calendar quarter basis, the total number of days any of the control measures was not implemented as described in Section A.1.2 of this permit.

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

2. The needed frequencies of implementation of control measures shall be determined by the permittee's inspections as described above. Implementation of the control measures shall not be necessary if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measures may be suspended if unsafe or hazardous conditions would be created by its use. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, 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. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and C(3) of OAC rule 3745-77-08.
3. The permittee shall maintain records of the volume of material received per day on an as-received basis. These records shall be maintained for a period of not less than five years and the records shall be made available for review by the Hamilton County Department of Environmental Services during normal business hours.
4. As required in 40 CFR 60.752(b)(1)(ii), the permittee shall recalculate the NMOC emission rate using the procedures specified in 40 CFR 60.754(a)(1) until such a time as the calculated NMOC emission rate is equal to or greater than 50 Mg/yr, or the landfill is closed. The permittee shall collect and record the relevant information to be able to perform the calculations specified in 40 CFR 60.754(a)(1).

### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all days during which any of the control measures for the material handling operations was not implemented.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements in paragraph A.1.c.ii of the General Terms and Conditions of this permit.

2. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total quantity of solid waste received in the previous year. The reports shall be received by January 31 of each year and cover the previous calendar year.

#### **IV. Reporting Requirements (continued)**

3. The permittee shall submit an annual report which details the annual NMOC emission rate from the landfill. This report shall be submitted by January 31 of each year and shall cover the previous calendar year of operation. If the estimated NMOC emission rate as reported in the annual report to the Hamilton County Department of Environmental Services is less than 50 Mg/yr in each of the next 5 consecutive years, the permittee may elect to submit an estimate of the NMOC emission rate for the next 5-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 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the Hamilton County Department of Environmental Services. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the Hamilton County Department of Environmental Services. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.

#### **V. Testing Requirements**

1. Compliance with the visible emission limitations shall be determined in accordance with Test Method 9 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)(3)(a) through (B)(3)(b) of OAC rule 3745-17-03.
2. Emission Limitation: 14.64 TPY of PE  
  
Applicable Compliance Method: Multiply the maximum yearly solid waste throughput, in tons/year, by the emission factor of 0.04 lb of PE/ton (Ohio EPA RACM document emission factor, September 1980, Section 2.1.3), and by a control efficiency of 50% (0.50). Then divide by 2,000 lbs/ton to convert to TPY of PE.
3. Emission Limitation: 7.32 TPY of PM10 emissions  
  
Applicable Compliance Method: Multiply the maximum yearly solid waste throughput, in tons/year, by the emission factor of 0.04 lb of PE/ton (Ohio EPA RACM document emission factor, September 1980, Section 2.1.3) and by a control efficiency of 50% (0.50). Then divide by 2,000 lbs/ton to convert to TPY and divide the result by 2 to determine TPY of PM10 emissions.
4. The NMOC emissions from the landfill shall be calculated using either the equation provided for in 40 CFR 60.754(a)(1)(i) or 40 CFR 60.754(a)(1)(ii).

#### **VI. Miscellaneous Requirements**

**None**

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Portable 1.12 MMBTU/hr Diesel Engine (160 HP) (P007)

**Activity Description:** Portable 1.12 MMBTU/hr Diesel Engine (160 HP for Portable 150 TPH Soil Shredder-Screener at RSL). Permitted under PTI # 14-4771 for Rumpke Sanitary Landfill in Hamilton County, Ohio.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1.12 mmBtu/hr diesel engine	OAC rule 3745-31-05(A)(3) (PTI 14-4771)	0.35 lb of particulate emissions (PE)/hr 0.35 lb of particulate matter with a diameter of 10 microns or less (PM10 emissions)/hr  0.42 ton per year (TPY) of PE 0.42 TPY of PM10 emissions  0.32 lb of sulfur dioxide (SO2) emissions/hr 0.40 TPY of SO2 emissions  4.94 lbs of nitrogen oxides (NOx) emissions/hr 6.04 TPY of NOx emissions  1.06 lbs of carbon monoxide (CO) emissions/hr 1.30 TPY of CO emissions  0.40 lb of volatile organic compounds (VOC) emissions/hr 0.49 TPY of VOC emissions

\* The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these limits.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(11)(B)(5).

See Section A.II below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.25 lb/mmBtu actual heat input. See Section A.1.2.a below.
		PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.2.b below.
	OAC rule 3745-18-06(G)	exempt, pursuant to OAC rule 3745-18-06(B)

## 2. Additional Terms and Conditions

- 2.a** The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** The PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

1. The maximum annual fuel oil usage for this emissions unit shall not exceed 20,000 gallons per year.
2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the total amount of diesel fuel used, in gallons, in this emissions unit.
2. The permittee shall maintain annual records of the total amount of diesel fuel used for each calendar year, in gallons [the summation of A.III.1 for each month of the calendar year].
3. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu).

### III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with ASTM methods D240, D4294, D6010, or equivalent methods as approved by the Hamilton County Department of Environmental Services.

### IV. Reporting Requirements

1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total amount of diesel fuel used, in gallons, for each calendar year for this emissions unit. Each report shall be submitted by January 31 of each year and cover the previous calendar year.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the percent sulfur limitation for the fuel oil. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations, material usage restriction and the sulfur content restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

- 1.a Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: If required, compliance shall be determined in accordance with Test Method 9 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.

- 1.b Emission Limitation: PE shall not exceed 0.25 lb/mmBtu actual heat input.

Applicable Compliance Method: The permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996). The Ohio EPA revised the emission limitation specified in the rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/mmBtu actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/mmBtu actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- 1.c Emission Limitation: PE shall not exceed 0.310 lb/mmBtu actual heat input.

Applicable Compliance Method: Compliance may be based upon an emission factor of 0.31 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

## V. Testing Requirements (continued)

### 1.d Emission Limitations:

0.35 lb of PE/hr; 0.35 lb of PM10 emissions/hr  
0.42 TPY of PE; 0.42 TPY of PM10 emissions

Applicable Compliance Method: The hourly emission limitations are based upon the emission unit's potential to emit and were established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.31 lb of PE/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitations may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

If required, the permittee shall demonstrate compliance with the hourly PM10 emission limitation through emission tests performed in accordance with 40 CFR Part 51, Appendix M, Method 201.

### 1.e Emission Limitations: 0.32 lb of SO<sub>2</sub> emissions/hr; 0.40 TPY of SO<sub>2</sub> emissions

Applicable Compliance Method: The hourly emission limitation above is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.29 lb of SO<sub>2</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 6 of 40 CFR Part 60, Appendix A.

### 1.f Emission Limitations: 4.94 lbs of NO<sub>x</sub> emissions/hr; 6.04 TPY of NO<sub>x</sub> emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 4.41 lbs of NO<sub>x</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction specified maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 7 of 40 CFR, Part 60, Appendix A.

### 1.g Emission Limitations: 1.06 lbs of CO emissions/hr; 1.30 TPY of CO emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 10 of 40 CFR Part 60, Appendix A.

## V. Testing Requirements (continued)

- 1.h** Emission Limitations: 0.40 lb of VOC emissions/hr; 0.49 TPY of VOC emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.36 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation shall be assumed as long as compliance with the annual diesel fuel oil usage restriction maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 25 of 40 CFR, Part 60, Appendix A.

- 1.i** Material Usage Restriction: The maximum annual diesel fuel oil usage for this emissions unit shall not exceed 20,000 gallons per year.

Applicable Compliance Method; Compliance with the annual diesel fuel usage restriction shall be determined by the record keeping requirements specified in Section A.III.2.

- 1.j** Sulfur Content Restriction: The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

Applicable Compliance Method: Compliance with the sulfur content restriction shall be determined by the record keeping requirements specified in Section A.III.3.

## VI. Miscellaneous Requirements

- 1.** Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. in the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. the portable emissions unit is equipped with best available technology;
- g. the portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

**VI. Miscellaneous Requirements (continued)**

j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and

k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

2. Any site approvals issued by the Ohio EPA, pursuant to A.VI.1 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Portable 1.12 MMBTU/hr Diesel Engine (160 HP) (P008)

**Activity Description:** Portable 1.12 MMBTU/hr Diesel Engine (160 HP for Portable 150 TPH Soil Shredder-Screener at RSL). Permitted under PTI # 14-4771 for Rumpke Sanitary Landfill in Hamilton County, Ohio.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1.12 mmBtu/hr diesel engine	OAC rule 3745-31-05(A)(3) (PTI 14-4771)	0.35 lb of particulate emissions (PE)/hr 0.35 lb of particulate matter with a diameter of 10 microns or less (PM10 emissions)/hr  0.42 tons per year (TPY) of PE 0.42 TPY of PM10 emissions  0.32 lb of sulfur dioxide (SO2) emissions/hr 0.40 TPY of SO2 emissions  4.94 lbs of nitrogen oxides (NOx) emissions/hr 6.04 TPY of NOx emissions  1.06 lbs of carbon monoxide (CO) emissions/hr 1.30 TPY of CO emissions  0.40 lb of volatile organic compounds (VOC) emissions/hr 0.49 TPY of VOC emissions

\* The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these limits.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(11)(B)(5).

See Section A.II below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.25 lb/mmBtu actual heat input. See Section A.1.2.a below.
		PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.2.b below.
	OAC rule 3745-18-06(G)	exempt, pursuant to OAC rule 3745-18-06(B)

## 2. Additional Terms and Conditions

- 2.a** The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** The PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

1. The maximum annual fuel oil usage for this emissions unit shall not exceed 20,000 gallons per year.
2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the total amount of diesel fuel used, in gallons, in this emissions unit.
2. The permittee shall maintain annual records of the total amount of diesel fuel used for each calendar year, in gallons [the summation of A.III.1 for each month of the calendar year].
3. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu).

### III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with ASTM methods D240, D4294, D6010, or equivalent methods as approved by the Hamilton County Department of Environmental Services.

### IV. Reporting Requirements

1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total amount of diesel fuel used, in gallons, for each calendar year for this emissions unit. Each report shall be submitted by January 31 of each year and cover the previous calendar year.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the percent sulfur limitation for the fuel oil. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations, material usage restriction and the sulfur content restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

- 1.a Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: If required, compliance shall be determined in accordance with Test Method 9 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.

- 1.b Emission Limitation: PE shall not exceed 0.25 lb/mmBtu actual heat input.

Applicable Compliance Method: The permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996).

The Ohio EPA revised the emission limitation specified in the rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/mmBtu actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/mmBtu actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- 1.c Emission Limitation: PE shall not exceed 0.310 lb/mmBtu actual heat input.

Applicable Compliance Method: Compliance may be based upon an emission factor of 0.31 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

## V. Testing Requirements (continued)

### 1.d Emission Limitations:

0.35 lb of PE/hr; 0.35 lb of PM10 emissions/hr  
0.42 TPY of PE; 0.42 TPY of PM10 emissions

Applicable compliance method: The hourly emission limitations are based upon the emission unit's potential to emit and were established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.31 lb of PE/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60 Appendix A, Methods 1-5.

If required, the permittee shall demonstrate compliance with the hourly PM10 emission limitation through emission tests performed in accordance with 40 CFR Part 51, Appendix A, Method 201.

### 1.e Emission Limitations: 0.32 lb of SO<sub>2</sub> emissions/hr; 0.40 TPY of SO<sub>2</sub> emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.29 lb of SO<sub>2</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 6 of 40 CFR Part 60, Appendix A.

### 1.f Emission Limitations: 4.94 lbs of NO<sub>x</sub> emissions/hr; 6.04 TPY of NO<sub>x</sub> emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 4.41 lbs of NO<sub>x</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 7 of 40 CFR Part 60, Appendix A.

### 1.g Emission Limitations: 1.06 lbs of CO emissions/hr; 1.30 TPY of CO emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation shall be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 10 of 40 CFR Part 60, Appendix A.

**V. Testing Requirements (continued)**

**1.h** Emission Limitations: 0.40 lb of VOC emissions/hr; 0.49 TPY of VOC emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mBtu/hr by the emission factor of 0.36 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 25 of 40 CFR Part 60, Appendix A.

**1.i** Material Usage Restriction: The maximum annual diesel fuel oil usage for this emissions unit shall not exceed 20,000 gallons per year.

Applicable Compliance Method: Compliance with the annual diesel fuel usage restriction shall be determined by the record keeping requirements specified in Section A.III.2.

**1.j** Sulfur Content Restriction:

The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

Applicable Compliance Method:

Compliance with the sulfur content restriction shall be determined by the record keeping requirements specified in Section A.III.3.

## VI. Miscellaneous Requirements

### 1. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. in the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. the portable emissions unit is equipped with best available technology;
- g. the portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
- j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

### 2. Any site approvals issued by the Ohio EPA, pursuant to A.VI.1 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Portable 1.12 MMBTU/hr Diesel Engine (160 HP) (P009)  
**Activity Description:** Portable 1.12 MMBTU/hr Diesel Engine (160 HP for Portable 250 TPH Soil Shredder-Screener at RSL). Permitted under PTI # 14-4771 for Rumpke Sanitary Landfill in Hamilton County, Ohio.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1.12 mmBtu/hr diesel engine	OAC rule 3745-31-05(A)(3) (PTI 14-4771)	0.35 lb of particulate emissions (PE)/hr 0.35 lb of particulate matter less than 10 micron in size (PM10 emissions)/hr  0.42 ton per year (TPY) of PE 0.42 TPY of PM10 emissions  0.32 lb of sulfur dioxide (SO2) emissions/hr 0.40 TPY of SO2 emissions  4.94 lbs of nitrogen oxides (NOx) emissions/hr 6.04 TPY of NOx emissions  1.06 lbs of carbon monoxide (CO) emissions/hr 1.30 TPY of CO emissions  0.40 lb of volatile organic compounds (VOC) emissions/hr 0.49 TPY of VOC emissions

\* The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these limits.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(11)(B)(5).

See Section A.II below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.25 lb/mmBtu actual heat input. See Section A.1.2.a below.
		PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.2.b below.
	OAC rule 3745-18-06(G)	exempt, pursuant to OAC rule 3745-18-06(B)

## 2. Additional Terms and Conditions

- 2.a The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b The PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

- 1. The maximum annual fuel oil usage for this emissions unit shall not exceed 20,000 gallons per year.
- 2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

## III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the total amount of diesel fuel used, in gallons, in this emissions unit.
- 2. The permittee shall maintain annual records of the total amount of diesel fuel used for each calendar year, in gallons [the summation of A.III.1 for each month of the calendar year].
- 3. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

### a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

### b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu).

### III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with ASTM methods D240, D4294, D6010, or equivalent methods as approved by the Hamilton County Department of Environmental Services.

### IV. Reporting Requirements

1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total amount of diesel fuel used, in gallons, for each calendar year for this emissions unit. Each report shall be submitted by January 31 of each year and cover the previous calendar year.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the percent sulfur limitation for the fuel oil. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations, material usage restriction and the sulfur content restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

- 1.a Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: If required, compliance shall be determined in accordance with Test Method 9 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.

- 1.b Emission Limitation: PE shall not exceed 0.25 lb/mmBtu actual heat input.

Applicable Compliance Method: The permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996).

The Ohio EPA revised the emission limitation specified in the rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/mmBtu actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/mmBtu actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- 1.c Emission Limitation: PE shall not exceed 0.310 lb/mmBtu actual heat input.

Applicable Compliance Method: Compliance may be based upon an emission factor of 0.31 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

## V. Testing Requirements (continued)

### 1.d Emission Limitations:

0.35 lb of PE/hr; 0.35 lb of PM10 emissions/hr  
0.42 TPY of PE; 0.42 TPY of PM10 emissions

Applicable Compliance Method: The hourly emission limitations are based upon the emission unit's potential to emit and were established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.31 lb of PE/PM-10/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

If required, the permittee shall demonstrate compliance with the hourly PM10 emission limitation through emission tests performed in accordance with 40 CFR Part 51, Appendix A, Method 201.

### 1.e Emission Limitations: 0.32 lb of SO<sub>2</sub> emissions/hr; 0.40 TPY of SO<sub>2</sub> emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.29 lb of SO<sub>2</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 6 of 40 CFR Part 60, Appendix A.

### 1.f Emission Limitations: 4.94 lbs of NO<sub>x</sub> emissions/hr; 6.04 TPY of NO<sub>x</sub> emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 4.41 lbs of NO<sub>x</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 7 of 40 CFR Part 60, Appendix A.

### 1.g Emission Limitations: 1.06 lbs of CO emissions/hr; 1.30 TPY of CO emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 10 of 40 CFR Part 60, Appendix A.

## V. Testing Requirements (continued)

- 1.h** Emission Limitations: 0.40 lb of VOC emissions/hr; 0.49 TPY of VOC emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 1.12 mmBtu/hr by the emission factor of 0.36 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 25 of 40 CFR Part 60, Appendix A.

- 1.i** Material Usage Restriction: The maximum annual diesel fuel oil usage for this emissions unit shall not exceed 20,000 gallons per year.

Applicable Compliance Method; Compliance with the annual diesel fuel usage restriction shall be determined by the record keeping requirements specified in Section A.III.2.

- 1.j** Sulfur Content Restriction: The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

Applicable Compliance Method: Compliance with the sulfur content restriction shall be determined by the record keeping requirements specified in Section A.III.3.

## VI. Miscellaneous Requirements

- 1.** Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. in the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. the portable emissions unit is equipped with best available technology;
- g. the portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

**VI. Miscellaneous Requirements (continued)**

j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and

k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

2. Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Portable 440 HP Diesel Engine (P010)

**Activity Description:** Portable 440 HP Diesel Engine for 150 TPH Soil Crusher. Permitted under PTI # 06-5712. Source P001 for Beech Hollow Sanitary Landfill in Jackson County, Ohio.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3.08 mmBtu/hr diesel engine	OAC rule 3745-31-05(A)(3) (PTI 06-05712)	0.96 lb of particulate emissions (PE)/hr 0.96 lb of particulate matter less than 10 microns in size (PM10)/hr  1.44 tons per year (TPY) of PE 1.44 TPY of PM10 emissions  0.9 lb of sulfur dioxide (SO2) emissions/hr 1.35 TPY of SO2 emissions  13.67 lbs of nitrogen oxides (NOx) emissions/hr 20.54 TPY of NOx emissions  2.95 lbs of carbon monoxide (CO) emissions/hr 4.43 TPY of CO emissions  1.12 lbs of volatile organic compounds (VOC) emissions/hr 1.68 TPY of VOC emissions  * The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these limits.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(11)(B)(5).

See Section A.II below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.25 lb/mmBtu actual heat input. See Section A.1.2.a below.
		PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.2.b below.
	OAC rule 3745-18-06(G)	exempt, pursuant to OAC rule 3745-18-06(B)

## 2. Additional Terms and Conditions

- 2.a The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b The PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

- 1. The maximum annual fuel oil usage for this emissions unit shall not exceed 68,000 gallons per year.
- 2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

## III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the total amount of diesel fuel used, in gallons, in this emissions unit.
- 2. The permittee shall maintain annual records of the total amount of diesel fuel used for each calendar year, in gallons [the summation of A.III.1 for each month of the calendar year].
- 3. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

### a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

### b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu).

### III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with ASTM methods D240, D4294, D6010, or equivalent methods as approved by the Hamilton County Department of Environmental Services.

### IV. Reporting Requirements

1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total amount of diesel fuel used, in gallons, for each calendar year for this emissions unit. Each report shall be submitted by January 31 of each year and cover the previous calendar year.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the percent sulfur limitation for the fuel oil. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations, material usage restriction and the sulfur content restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

- 1.a Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: If required, compliance shall be determined in accordance with Test Method 9 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.

- 1.b Emission Limitation: PE shall not exceed 0.25 lb/mmBtu actual heat input.

Applicable Compliance Method: The permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996).

The Ohio EPA revised the emission limitation specified in the rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/mmBtu actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/mmBtu actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- 1.c Emission Limitation: PE shall not exceed 0.310 lb/mmBtu actual heat input.

Applicable Compliance Method: Compliance may be based upon an emission factor of 0.31 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

## V. Testing Requirements (continued)

### 1.d Emission Limitations:

0.96 lb of PE/hr; 0.96 lb of PM10 emissions/hr  
1.44 TPY of PE; 1.44 TPY of PM10 emissions

Applicable Compliance Method: The hourly emission limitations are based upon the emission unit's potential to emit and were established by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 0.31 lb of PE/PM-10/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation shall be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, the permittee shall demonstrate compliance with the lb/hr PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

If required, the permittee shall demonstrate compliance with the lb/hr PM10 emission limitation through emission tests performed in accordance with 40 CFR Part 51, Appendix A, Method 201.

### 1.e Emission Limitations: 0.90 lb of SO<sub>2</sub> emissions/hr; 1.35 TPY of SO<sub>2</sub> emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 0.29 lb of SO<sub>2</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation shall be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 6 of 40 CFR Part 60, Appendix A.

### 1.f Emission Limitations: 13.67 lbs of NO<sub>x</sub> emissions/hr; 20.54 TPY of NO<sub>x</sub> emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 4.41 lbs of NO<sub>x</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 7 of 40 CFR Part 60, Appendix A.

### 1.g Emission Limitations: 2.95 lbs of CO emissions/hr; 4.43 TPY of CO emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 10 of 40 CFR Part 60, Appendix A.

## V. Testing Requirements (continued)

- 1.h** Emission Limitations: 1.12 lb of VOC emissions/hr; 1.68 TPY of VOC emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 3.08 mmBtu/hr by the emission factor of 0.36 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, compliance with the lb/hr emission limitation shall be demonstrated by Method 25 of 40 CFR Part 60, Appendix A.

- 1.i** Material Usage Restriction: The maximum annual diesel fuel oil usage for this emissions unit shall not exceed 68,000 gallons per year.

Applicable Compliance Method; Compliance with the annual diesel fuel usage restriction shall be determined by the record keeping requirements specified in Section A.III.2.

- 1.j** Sulfur Content Restriction: The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

Applicable Compliance Method: Compliance with the sulfur content restriction shall be determined by the record keeping requirements specified in Section A.III.3.

## VI. Miscellaneous Requirements

- 1.** Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. in the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. the portable emissions unit is equipped with best available technology;
- g. the portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

**VI. Miscellaneous Requirements (continued)**

j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and

k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

2. Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Portable 3.5 MMBTU/hr Diesel Engine (500 HP) (P011)  
**Activity Description:** Portable 3.5 MMBTU/hr Diesel Engine (500 HP for Portable Tire Shredder). Permitted under PTI # 14-04975 for Rumpke Sanitary Landfill in Hamilton County, Ohio.

#### A. State and Federally Enforceable Section

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

- 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3.5 mmBtu/hr diesel engine	OAC rule 3745-31-05(A)(3) (PTI 14-04975)	1.09 lbs of particulate emissions (PE)/hr 1.09 lbs of particulate matter with a diameter of 10 microns or less (PM10 emissions)/hr  1.57 tons per year (TPY) of PE 1.57 TPY of PM10 emissions  1.02 lbs of sulfur dioxide (SO2) emissions/hr 1.47 TPY of SO2 emissions  15.44 lbs of nitrogen oxides (NOx) emissions/hr 22.41 TPY of NOx emissions  3.33 lbs of carbon monoxide (CO) emissions/hr 4.83 TPY of CO  1.23 lb of volatile organic compounds (VOC) emissions/hr 1.78 TPY of VOC emissions

\* The hourly emission limitations outlined above are based upon the emission unit's potential to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these limits.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(11)(B)(5).

See Section A.II below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.25 lb/mmBtu actual heat input. See Section A.1.2.a below.
		PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.2.b below.
	OAC rule 3745-18-06(G)	exempt, pursuant to OAC rule 3745-18-06(B)

## 2. Additional Terms and Conditions

- 2.a The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b The PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

- 1. The maximum annual fuel oil usage for this emissions unit shall not exceed 81,000 gallons per year.
- 2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

## III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the total amount of diesel fuel used, in gallons, in this emissions unit.
- 2. The permittee shall maintain annual records of the total amount of diesel fuel used for each calendar year, in gallons [the summation of A.III.1 for each month of the calendar year].
- 3. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

### a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

### b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu).

### III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with ASTM methods D240, D4294, D6010, or equivalent methods as approved by the Hamilton County Department of Environmental Services.

### IV. Reporting Requirements

1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total amount of diesel fuel used, in gallons, for each calendar year for this emissions unit. Each report shall be submitted by January 31 of each year and cover the previous calendar year.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the percent sulfur limitation for the fuel oil. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations, material usage restriction and the sulfur content restriction specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:

- 1.a Emission Limitation: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method: If required, compliance shall be determined in accordance with Test Method 9 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.

- 1.b Emission Limitation: PE shall not exceed 0.25 lb/mmBtu actual heat input.

Applicable Compliance Method: The permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996).

The Ohio EPA revised the emission limitation specified in the rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/mmBtu actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/mmBtu actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- 1.c Emission Limitation: PE shall not exceed 0.310 lb/mmBtu actual heat input.

Applicable Compliance Method: Compliance may be based upon an emission factor of 0.31 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (October, 1996).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

## V. Testing Requirements (continued)

### 1.d Emission Limitations:

1.09 lbs of PE/hr; 1.09 lbs of PM10 emissions/hr  
1.57 TPY of PE; 1.57 TPY of PM10 emissions

Applicable Compliance Method: The hourly emission limitations are based upon the emission unit's potential to emit and were established by multiplying the total heat input of 3.5 mmBtu/hr by the emission factor of 0.310 lb of PE and PM-10/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation shall be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

If required, the permittee shall demonstrate compliance with the hourly PM10 emission limitation through emission tests performed in accordance with 40 CFR Part 51, Appendix M, Method 201.

### 1.e Emission Limitations: 1.02 lb of SO<sub>2</sub> emissions/hr; 1.47 TPY of SO<sub>2</sub> emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 3.5 mmBtu/hr by the emission factor of 0.29 lb SO<sub>2</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation shall be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation shall be demonstrated by Method 6 of 40 CFR Part 60, Appendix A.

### 1.f Emission Limitations: 15.44 lbs of NO<sub>x</sub> emissions/hr; 22.41 TPY of NO<sub>x</sub> emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 3.5 mmBtu/hr by the emission factor of 4.41 lbs of NO<sub>x</sub>/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation shall be demonstrated by Method 7 of 40 CFR Part 60, Appendix A.

### 1.g Emission Limitations: 3.33 lbs of CO emissions/hr; 4.83 TPY of CO emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 3.5 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation shall be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation shall be demonstrated by Method 10 of 40 CFR Part 60, Appendix A.

## V. Testing Requirements (continued)

- 1.h** Emission Limitations: 1.23 lb of VOC emissions/hr; 1.78 TPY of VOC emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emission unit's potential to emit and was established by multiplying the total heat input of 3.5 mmBtu/hr by the emission factor of 0.36 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (October, 1996).

Compliance with the annual emission limitation may be assumed as long as compliance with the annual diesel fuel oil usage restriction is maintained.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation shall be demonstrated by Method 25 of 40 CFR Part 60, Appendix A.

- 1.i** Material Usage Restriction: The maximum annual diesel fuel oil usage for this emissions unit shall not exceed 81,000 gallons per year.

Applicable Compliance Method; Compliance with the annual diesel fuel usage restriction shall be determined by the record keeping requirements specified in Section A.III.2.

- 1.j** Sulfur Content Restriction: The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

Applicable Compliance Method: Compliance with the sulfur content restriction shall be determined by the record keeping requirements specified in Section A.III.3.

## VI. Miscellaneous Requirements

- 1.** Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. in the Hamilton County Department of Environmental Services and the appropriate field office's judgement, the proposed site is acceptable under the OAC rule 3745-15-07.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. the portable emissions unit is equipped with best available technology;
- g. the portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. the Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

**VI. Miscellaneous Requirements (continued)**

- j. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

2. Any site approvals issued by the Ohio EPA, pursuant to Section A.VI.1 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

**B. State 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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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