



State of Ohio Environmental Protection Agency

Street Address:

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Columbus, OH 43215

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

08/24/04

**RE: Proposed Title V Chapter 3745-77 Permit
14-31-09-2049
Rumpke Sanitary Landfill, Inc.**

Attn: Genevieve Damico AR-18J
United States Environmental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed issuance of the Title V permit for Rumpke Sanitary Landfill, Inc., has been created in Ohio EPA's State Air Resources System (STARS) on 08/24/04, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact me at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

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

PROPOSED TITLE V PERMIT

Issue Date: 08/24/04

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 14-31-09-2049 to: Rumpke Sanitary Landfill, Inc. 10795 Hughes Road Cincinnati, OH 45251-4598

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

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description, and Bobby Jacobs. Rows include units F001 through F011 and K001 through K009, detailing various operations like soil shredding, material handling, and power generation.

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. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above.

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

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, i.e., in Section A.III of Part III of this Title V permit, 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. **All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:**

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 OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with General Term and Condition A.1.c.ii below; and each report shall cover the previous calendar quarter.

In accordance with OAC rule 3745-15-06, a malfunction constitutes a violation of an emission limitation (or control requirement) and, therefore, is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) 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. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

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

- ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II of this Title V permit, all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. OAC rule 3745-77-07(A)(3)(c) is not fully satisfied until the permittee addresses all other deviations of the federally enforceable requirements specified in the permit.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement overrides the reporting requirements specified in this General Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this General Term and Condition.

See B.6 below if no deviations occurred during the quarter.

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

- iii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted in the following manner:**

Written reports that identify all other deviations of the federally enforceable requirements contained in this permit, including the monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be

submitted to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months.

In identifying each deviation, the permittee shall specify the federally enforceable 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 reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with General Term and Condition A.1.c.ii above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such 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))
- v. 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))

2. **Scheduled Maintenance**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in General Term and Condition A.1.c.i above.

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

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. 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.

(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))

21. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification by the responsible official of the date on which the emissions unit was permanently shut down. Authorization to operate the affected part or activity of the stationary source shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

If an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent “modification” or “installation” as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an “emissions unit” as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any monitoring, record keeping, reporting, or testing requirements, applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

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 emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a. where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in General Term and Condition A.1.c.ii;
- b. where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; and
- c. where the company's responsible official has certified that an emissions unit has been permanently shut down.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

1. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rules 3745-17-07(B) and 3745-17-08(B) do not apply to the fugitive emissions from the affected emissions units at this facility.
2. The only storage piles authorized by this permit are those identified in the terms and conditions for emissions units F004, F007, F008, F009, F010 and F011.

The following insignificant emissions units are located at this facility:

B001 - natural gas fired boiler [Permit to Install 14-02888];
Z018 - cold cleaners;
Z028 - 151 light plant on flag diesel IC engine;
Z029 - 166 light plant diesel IC engine;
Z030 - 167 light plant diesel IC engine;
Z031 - 80134 light plant diesel IC engine;
Z032 - 80135 light plant diesel IC engine;
Z033 - rental I-42 light plant diesel IC engine;
Z034 - generator (< 600 HP);
Z041 - brake wash operations;
Z042 - 180 light plant diesel IC engine (15.3 HP);
Z043 - RU 116 light plant diesel IC engine (22 HP);
Z044 - HL5 Godwin pump (230 HP); and
Z046 - 150 light plant diesel IC engine.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more of the applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

B. State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

Z003 - tire shredding operations;
Z004 - composting operations;
Z012 - UST diesel tank #7;
Z013 - UST diesel tank #8;
Z014 - UST diesel tank #9;
Z015 - UST diesel tank #10;
Z016 - AST engine oil tank;
Z017 - AST hydraulic oil tank;
Z019 - waste oil furnace;
Z023 - AST leachate holding tank;
Z024 - AST antifreeze tank;
Z025 - AST diesel tank #11;
Z026 - AST diesel tank #12;
Z027 - AST diesel tank #13;
Z031 - 80134 light plant diesel IC engine;
Z032 - 80135 light plant diesel IC engine;
Z033 - rental I-42 light plant diesel IC engine;
Z035 - 103 air compressor diesel IC engine;
Z040 - 3x3 Godwin-Godwin pump (55 HP);
Z044 - HL5 Godwin pump (230 HP);
Z045 - portable tire shredder;
Z047 - portable tire shredder;
Z048 - portable tire shredder; and
Z049 - 80924 air compressor diesel IC engine.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Plant 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>
paved roadways and parking areas	OAC rule 3745-31-05(A)(3) (PTI 14-05292)	Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust
unpaved roadways and parking areas		See Section A.I.2 below. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See Section A.I.2 below. Particulate emissions (PE) from the paved and unpaved roadways and parking areas shall not exceed 148.21 tons/yr. Emissions of particulate matter less than 10 microns in diameter (PM10) from the paved and unpaved roadways and parking areas shall not exceed 34.16 tons/yr.

2. Additional Terms and Conditions

- 2.a** The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

Paved Roadways:

paved roadway 1, (concrete);
paved roadway 2, (asphalt); and
paved roadway 3, (asphalt).

Paved Parking Areas:

all paved parking areas, (asphalt).

- 2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

Unpaved Roadways:

unpaved roadway 1, (gravel);
unpaved roadway 2, (gravel); and
unpaved roadway 3, (gravel).

Unpaved Parking Areas:

parking area 1, (gravel).

- 2.c** The permittee shall employ best available control measures on all paved and unpaved 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 with water flushing and sweeping, and the unpaved roadways with water or other dust suppressant chemicals (except used oil as defined in OAC Chapter 3745-279) at sufficient treatment frequencies to ensure compliance. When allowed by weather, all trucks exiting the landfill shall travel through the wheel wash located before the scale area. Nothing in this paragraph shall prohibit the permittee from employing other equally effective control measures to ensure compliance.
- 2.d** 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 using appropriate dust control measures 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 that is paved shall be subject to a visible emission limitation for paved roadways and parking area.
- 2.e** 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 a paved or an unpaved 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.f** 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.g** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.h** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the paved and unpaved roadways and parking areas in accordance with the following frequencies:

Paved Roadways	Minimum Inspection Frequency
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paved roadway 1, concrete	once daily when in use
paved roadway 2, asphalt	once daily when in use
paved roadway 3, asphalt	once daily when in use

Paved Parking Areas	Minimum Inspection Frequency
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all	once daily when in use
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Unpaved Roadways	Minimum Inspection Frequency
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unpaved roadway 1, gravel	once daily when in use
unpaved roadway 2, gravel	once daily when in use
unpaved roadway 3, gravel	once daily when in use

Unpaved Parking Areas	Minimum Inspection Frequency
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all	once daily when in use
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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.
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 (i) the paved roadways and parking areas and (ii) 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.

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

5. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05292 issued on June 10, 2004. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

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.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements of the General Term and Conditions of this permit.

2. The permittee shall also submit annual reports that specify the total PE and PM10 emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-05292, issued on June 10, 2004. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitations: PE emissions from the paved and unpaved roadways and parking areas shall not exceed 148.21 tons/yr; emissions of PM10 from the paved and unpaved roadways and parking areas shall not exceed 34.16 tons/yr.

Applicable Compliance Method: Compliance shall be determined using the following equations:

$$\begin{aligned} \text{tons PE/yr} &= (A) \times (B) \times (1 - C) \times 1 \text{ ton}/2,000 \text{ lbs} \\ \text{tons PM10/yr} &= (A) \times (B) \times (1 - C) \times 1 \text{ ton}/2,000 \text{ lbs} \end{aligned}$$

where:

A = PE or PM10 emission factor, lb/VMT, calculated from AP-42, Sections 13.2.1 and 13.2.2 (December, 2003);

B = annual vehicle miles traveled (VMT); and

C = control efficiency of 94% and 95%, for paved and unpaved, respectively, from operational parameters outlined in PTI application 14-05292, received March 19, 2002.

- 1.b Emission Limitation: Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

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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paved and unpaved roadways and,
paved and unpaved parking areas

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: Mineral Extraction (F004)
Activity Description: Mineral Extraction

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be 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>
mineral extraction, including drilling, blasting and loading with emissions controlled by a multicyclone and baghouse	OAC rule 3745-31-05(A)(3) (PTI 14-05382)	106.47 lbs/day of particulate emissions (PE)
		0.21 lb/hr of PE from the exhaust stack from the drilling operation
		16.95 tons/year (TPY) of PE
		54.26 lbs/day of particulate matter with a diameter of 10 microns or less (PM10 emissions)
		8.68 TPY of PM10 emissions.
		Visible PE from any fugitive dust emissions point shall not exceed 20% opacity, as a 3-minute average.
		See Sections A.I.2 and A.II below.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	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)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** Emissions from the drilling of blast holes shall be vented to a multicyclone followed by a baghouse with a 99%, by weight, control efficiency of PE.
- 2.b** The drop height shall be minimized during the load out operation of blasted material.

2. Additional Terms and Conditions (continued)

- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a multicyclone and baghouse for the drilling operation, limiting the blasts, holes drilled and amount of material loaded, the visible particulate emission limitations and the specified emission limitations.

II. Operational Restrictions

1. The maximum daily production rates for mineral extraction shall not exceed 24,000 tons of aggregate loaded, 3 blasts and 200 holes drilled.
2. The maximum annual production rate for mineral extraction shall not exceed 7,020,000 tons of aggregate loaded, 1,000 blasts and 50,000 holes drilled.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information for this emissions unit:
 - a. the amount, in tons, of aggregate loaded out;
 - b. the number of holes drilled; and
 - c. the number of blasts.
2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the amount, in tons, of aggregate loaded out (summation of A.III.1.a for all days of the calendar month);
 - b. the number of holes drilled (summation of A.III.1.b for all days of the calendar month); and
 - c. the number of blasts (summation of A.III.1.c for all days of the calendar month).
3. The permittee shall maintain annual records of the following information for this emissions unit:
 - a. the amount, in tons, of aggregate loaded out (summation of A.III.2.a for all months of the calendar year);
 - b. the number of holes drilled (summation of A.III.2.b for all months of the calendar year); and
 - c. the number of blasts (summation of A.III.2.c for all months of the calendar year).
4. The permittee shall perform daily checks, when the emissions unit is in operation, and when the weather conditions allow, for any visible particulate emissions from the fabric filter exhaust. The presence or absence of visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
5. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05382 issued on June 10, 2004. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any exceedances of the following:
 - a. the maximum daily aggregate loaded (24,000 tons/day);
 - b. the maximum daily number of blasts (3); and
 - c. the maximum daily number of holes drilled (200).

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

IV. Reporting Requirements (continued)

2. The permittee shall submit quarterly written reports which (a) identify all days during which abnormal visible particulate emissions were observed escaping from the fabric filter exhaust and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These quarterly reports shall be submitted to the Hamilton County Department of Environmental Services by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarter.
3. The permittee shall submit annual reports that specify the total production of aggregate loaded out, the total number of blasts and the total number of holes drilled for the calendar year. These reports shall be submitted by April 15 of each year and shall cover the previous calendar year.
4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-05382, issued on June 10, 2004. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

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 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: 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").

- 1.b Emission Limitation: Visible PE from any fugitive dust emissions point shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method: 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").

- 1.c Emission Limitation: 0.21 lb of PE /hr, from the exhaust stack from the drilling operation

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

120 holes/hr x 0.176 lbs of PE/hole x 0.01 (i.e., 99% control)

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, as appropriate.

V. Testing Requirements (continued)

1.d Emission Limitations: 106.47 lbs/day of PE and 16.95 TPY of PE

Applicable Compliance Method: The daily PE limitation was established by the following methodology:

$(A) \times (B) \times (C) = \text{daily PE (for each operation)}$

drilling: 200 holes/day x 0.044 lb/hole = 8.80 lbs/day of PE
drilling(stack): 200 holes/day x 0.176 lb/hole x 0.01 = 0.35 lb/day of PE
loading: 24,000 tons/day x 0.00084 lb/ton = 20.16 lbs/day of PE
blasting: 3 blasts/day x 25.72 lbs/blast = 77.16 lbs/day of PE

Total = 106.47 lbs/day of PE

where:

A = allowable operational limit of (holes drilled, number of blast or aggregate loaded)

B = emission factor *

C = 1 - the control efficiency of the multicyclone and baghouse (i.e., 99%)

Compliance with the daily PE limitation shall be determined by the record keeping requirements specified in Section A.III.1.

The annual PE limitation was established by the following methodology:

drilling: 50,000 holes/yr x 0.044 lb/hole = 2,200 lbs/yr
drilling (stack): 50,000 holes/yr x 0.176 lb/hole x 0.01 = 88 lb/yr
loading: 7,020,000 tons/yr x 0.00084 lb/ton = 5,896.8 lbs/yr
blasting: 1,000 blasts/yr x 25.72 lbs/blast = 25,720 lbs/yr

Total = 33,904.8 lbs of PE/yr x 1 ton/2,000 lbs = 16.95 TPY of PE

where:

A = allowable operational limit of (holes drilled, number of blast or aggregate loaded)

B = emission factor

C = 1 - the control efficiency of the multicyclone and baghouse (i.e., 99%)

Compliance with the annual PE limitation is ensured while compliance is maintained with the annual operational restrictions for the amount of aggregate loaded, number of blasts, and the number of holes drilled.

V. Testing Requirements (continued)

1.e Emission Limitations:

54.46 lbs/day of PM10 emissions
8.68 TPY of PM10 emissions

Applicable Compliance Method: The daily PM10 emission limitation was established by the following methodology:

(A) x (B) x (C) = daily PM10 (for each operation)

drilling: 200 holes/day x 0.022 lb/hole = 4.4 lbs/day of PM10
drilling (stack): 200 holes/day x 0.176 lb/hole x 0.01 = 0.35 lb/day of PM10
loading: 24,000 tons/day x 0.0004 lb/ton = 9.60 lbs/day of PE
blasting: 3 blasts/day x 13.37 lbs/blast = 40.11 lbs/day of PE

Total = 54.46 lbs/day of PM10

where:

A = allowable operational limit of (holes drilled, number of blast or aggregate loaded)

B = emission factor *

C = 1 - the control efficiency of the multicyclone and baghouse (i.e., 99%)

Compliance with the daily PM10 limitation shall be determined by the record keeping requirements specified in Section A.III.1.

The annual PM10 limitation was established by the following methodology:

drilling: 50,000 holes/yr x 0.022 lb/hole = 1,100 lbs/yr
drilling (stack): 50,000 holes/yr x 0.176 lb/hole x 0.01 = 88 lbs/yr
loading: 7,020,000 tons/yr x 0.0004 lb/ton = 2,808 lbs/yr
blasting: 1,000 blasts/yr x 13.37 lbs/blast = 13,370 lbs/yr

Total PE = 17,366 lbs of PM10 x 1 ton/2,000 lbs = 8.68 TPY of PM10 emissions

A = allowable operational limit of (holes drilled, number of blast or aggregate loaded)

B = emission factor

C = 1 - the control efficiency of the multicyclone and baghouse (i.e., 99%)

Compliance with the annual PM10 limitation is ensured while compliance is maintained with the annual operational restrictions for the amount of aggregate loaded, number of blasts, and the number of holes drilled.

* Emission Factors:

Drilling: PE from AP-42, Fifth Edition, Chapter 11.9, dated October, 1998, PM10 assumed to be 50% of PE.

Drilling (stack): PE from AP-42, Fifth Edition, Chapter 11.9, dated October, 1998, PM10 assumed to be equal to PE.

Blasting: PE and PM10 emissions from AP-42, Fifth Edition, Chapter 11.9, dated October, 1998

Loading: PE and PM10 emissions from AP-42, Fifth Edition, Chapter 13.2.4, dated January, 1995

V. Testing Requirements (continued)

1.f Production Rate Restrictions:

The maximum daily production rates for mineral extraction shall not exceed 24,000 tons of aggregate loaded, 3 blasts and 200 holes drilled.

The maximum annual production rate for mineral extraction shall not exceed 7,020,000 tons of aggregate loaded, 1,000 blasts and 50,000 holes drilled.

Applicable Compliance Method:

Compliance with the daily and annual operational restrictions shall be determined by the record keeping requirements specified in Sections A.III.2 and A.III.3, respectively.

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>
mineral extraction, including drilling, blasting and loading with emissions controlled by a multicyclone and baghouse		

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 Tons/hr Portable Soil Shredding Operation Including Material Handling, Screening and Storage (Rumpke)

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 ton/hr portable soil shredding operation, including material handling, screening and storage piles	OAC rule 3745-31-05(A)(3) (PTI 14-05382)	<p>4.08 lbs/hr of particulate emissions (PE)*</p> <p>0.5 lb/hr of particulate matter with a diameter of 10 microns or less (PM10 emissions)*</p> <p>10.79 tons per year (TPY) of PE 2.85 TPY of PM10 emissions</p> <p>* The hourly emission limitations specified above are based upon the emissions unit's potentials to emit. Therefore, no additional hourly monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations.</p> <p>The lbs of PE/hr and PM10 emissions/hr emission limitations established in PTI 14-05382 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 Sections A.I.2 and A.II.3 below.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.</p> <p>See Section A.I.2.a below.</p>
	40 CFR Part 60, Subpart OOO	

2. Additional Terms and Conditions

- 2.a** Fugitive visible PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers, and truck dumping, storage pile load-in/load-out, and wind erosion) where process materials are not saturated, shall not exceed 10% opacity, except as provided by 40 CFR Section 60.672.
- 2.b** There shall be no fugitive visible PE from any material storage pile associated with this emissions unit, except for 1 minute during any 60-minute observation period.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the process restrictions, visible emission limitations, moisture content required for processed soil and reduced drop height from loading.
- 2.d** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

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 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 of material from the 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 throughput in this emissions unit shall not exceed 500,000 TPY.
- 4.** The maximum combined amount of material throughput in emissions units F007 and F008 shall not exceed 7,305 tons/day.
- 5.** The maximum number of processed soil storage piles in emissions units F007 and F008, combined, shall not exceed two, and the maximum quantity of processed soil stored shall not exceed 18,000 tons per pile.

III. Monitoring and/or Record Keeping Requirements

- 1.** The permittee shall maintain the following information each day:
 - a. the total amount of material throughput, in tons;
 - b. the total amount of material throughput for emissions units F007 and F008, combined, in tons;
 - c. the total number of processed soil storage piles for emissions units F007 and F008, combined; and
 - d. the amount of processed soil in each storage pile, in tons.
- 2.** The permittee shall maintain monthly records of the total amount of material throughput in emissions units F007 and F008, combined, in tons (summation of A.III.1.b for each day of the calendar month).
- 3.** The permittee shall maintain annual records of the total amount of material throughput in emissions units F007 and F008, combined, in tons (summation of A.III.2 for each month of the calendar year).

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

4. On days when this emissions 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.

The above-mentioned inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary when snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mentioned applicable requirements.

5. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05382 issued on June 10, 2004. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. 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.4 was not performed, excluding an inspection which was not performed due to an exemption for snow and/or ice or precipitation;
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
 - c. any exceedance of the operational restrictions specified in Sections A.II.4 and A.II.5.
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.
3. The permittee shall submit annual reports that specify the total amount of material processed in this emissions unit for the calendar year, in tons. The reports shall be submitted by January 31 of each year and cover the previous calendar year.
4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-05382, issued on June 10, 2004. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 and the operational restrictions specified in Section A.II shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: Fugitive visible PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers, and truck dumping, storage pile load-in/load-out, and wind erosion) where process materials are not saturated, shall not exceed 10% opacity, except as provided by 40 CFR Section 60.672.

Applicable Compliance Method: If required, compliance with the visible PE limitation 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"), with additions provided under 40 CFR Section 60.675(c)(1).

V. Testing Requirements (continued)

1.b Emission Limitations: 4.08 lbs of PE/hr; 0.5 lb of PM10 emissions/hr

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

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

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

where:

A = PE or PM10 emission factor, as calculated from AP-42 Sections 11.3 (August, 1997) and 13.2.4, (January, 1995). See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, shredding, etc);

B = maximum hourly throughput of 150 tons; and

C = control efficiency [i.e., 75% for PE and 0% for PM10 emissions].

1.c Emission Limitations: 10.79 TPY of PE; 2.85 TPY of PM10 emissions

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

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

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

where:

A = PE or PM-10 emission factor, as calculated from AP-42 Sections 11.3 (August, 1997) and 13.2.4, (January, 1995) and USEPA BACM Guidance Document Equation 2-12. See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, shredding, etc)

B = total annual throughput, in tons, from Section A.III.3; and

C = control efficiency [(0.750, i.e., 75%)].

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

Applicable Compliance Method: If required, 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"), with additions provided under 40 CFR Section 60.675 (c)(1).

1.e Material Throughput Limitation: The maximum annual amount of material throughput in this emissions unit shall not exceed 500,000 TPY.

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

1.f Material Process Restriction: The maximum combined amount of material throughput in emissions units F007 and F008 shall not exceed 7,305 tons/day.

Applicable Compliance Method: Compliance with the material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.1.b.

1.g Storage Pile Restrictions: The maximum number of processed soil storage piles in emissions units F007 and F008 shall not exceed two, and the maximum quantity of processed soil stored shall not exceed 18,000 tons per pile.

Applicable Compliance Method: Compliance with the storage pile restrictions shall be determined by the record keeping requirements specified in Sections A.III.1.c and A.III.1.d.

VI. Miscellaneous Requirements

1. Notice to Relocate a Portable Source
 - a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
 - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
 - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the permittee has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the permittee has provided Ohio EPA with 15 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 3 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.

3. The limitations in terms A.II.4 and A.II.5 may be waived if the field office that has jurisdiction over where this emissions unit is being relocated certifies that the emissions unit's operation at the new location will be in compliance with all applicable federal and State laws and regulations.

VI. Miscellaneous Requirements (continued)

4. The daily operational restrictions in terms A.II.4 and A.II.5 will become applicable to this emissions unit upon the commencement of construction of the landfill gas control system required in PTI 14-05292, that is subject to Federal Prevention of Significant Deterioration requirements. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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>
150 ton/hr portable soil shredding operation, including material handling, screening and storage piles		

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 Tons/hr Portable Soil Shredding Operation Including Material Handling, Screening and Storage (Bobby Jacobs)

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 portable soil shredding operation, including material handling, screening and storage piles	OAC rule 3745-31-05(A)(3) (PTI 14-05382)	<p>6.8 lbs of particulate emissions (PE)/hour*</p> <p>0.83 lb of particulate matter with a diameter of 10 microns or less (PM10 emissions)/hour*.</p> <p>10.79 TPY of PE 2.85 TPY of PM10 emissions</p> <p>* The hourly emission limitations specified above are based upon the emissions unit's potentials to emit. Therefore, no additional hourly monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations.</p> <p>The lbs of PE/hr and PM10 emissions/hr emission limitations established in PTI 14-05382 are for the material handling and screening operations only. The hourly PE emissions from the storage piles associated with this emissions unit are not included in this emission limitation.</p> <p>See Sections A.I.2 and A.II.3 below.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.</p> <p>See Section A.I.2.a below.</p>
	40 CFR Part 60, Subpart OOO	

2. Additional Terms and Conditions

- 2.a** Fugitive visible PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers, truck dumping, storage pile load-in/load-out, and wind erosion) where process materials are not saturated, shall not exceed 10% opacity, except as provided by rule 40 CFR Section 60.672.
- 2.b** There shall be no fugitive visible PE from any material storage pile associated with this emissions unit, except for 1 minute during any 60-minute observation period.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the process restrictions, visible emission limitations, moisture content requirement for processed soil and reduced drop height from loading.

II. Operational Restrictions

- 1.** Material processed through this emissions unit shall contain sufficient moisture to minimize or eliminate visible particulate emissions 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 particulate emissions 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 particulate emissions of fugitive dust.
- 3.** The maximum amount of material throughput in this emissions unit shall not exceed 500,000 tons/yr.
- 4.** The maximum combined amount of material throughput in emissions units F007 and F008 shall not exceed 7,305 tons per day.
- 5.** The maximum number of processed soil storage piles in emissions units F007 and F008, combined, shall not exceed two, and the maximum quantity of processed soil stored shall not exceed 18,000 tons per pile.

III. Monitoring and/or Record Keeping Requirements

- 1.** The permittee shall maintain the following information each day:
 - a. the total amount of material throughput, in tons;
 - b. the total amount of material throughput for emissions units F007 and F008, combined, in tons;
 - c. the total number of processed soil storage piles for emissions units F007 and F008, combined; and
 - d. the amount of processed soil in each storage pile, in tons.
- 2.** The permittee shall maintain monthly records of the total amount of material throughput in emissions units F007 and F008, combined, in tons (summation of A.III.1.a for each day of the calendar month).
- 3.** The permittee shall maintain annual records of the total amount of material throughput in emissions units F007 and F008, combined, in tons (summation of A.III.2 for each month of the calendar year).
- 4.** On days when this emissions 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.

The above-mentioned inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary when snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mentioned applicable requirements.

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

5. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05382 issued on June 10, 2004. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. 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.4 was not performed, excluding an inspection which was not performed due to an exemption for snow and/or ice or precipitation;
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
 - c. any exceedances of the operational restrictions specified in Sections A.II.4 and A.II.5.
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.
3. The permittee shall submit annual reports that specify the total amount of material processed in this emissions unit for the calendar year, in tons. The reports shall be submitted by January 31 of each year and cover the previous calendar year.
4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-05382, issued on June 10, 2004. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 and the operational restrictions specified in Section A.II shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: Fugitive visible PE from any transfer point on belt conveyors and from any other emissions point (excluding crushers, and truck dumping, storage pile load-in/load-out, and wind erosion) where process materials are not saturated, shall not exceed 10% opacity, except as provided by 40 CFR Section 60.672.

Applicable Compliance Method: If required, compliance with the visible PE limitation 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"), with additions provided under 40 CFR Section 60.675(c)(1).

V. Testing Requirements (continued)

1.b Emission Limitations: 6.8 lbs of PE/hr; 0.83 lbs of PM10 emissions/hr

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

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

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

where:

A = PE or PM10 emission factor, as calculated from AP-42 Sections 11.3 (August, 1997) and 13.2.4, (January, 1995). See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, shredding, etc);

B = maximum hourly throughput of 250 tons; and

C = control efficiency [i.e., 75% for PE and 0% for PM10 emissions].

1.c Emission Limitations: 10.79 TPY of PE; 2.85 TPY of PM10 emissions

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

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

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

where:

A = PE or PM10 emission factor, as calculated from AP-42, Sections 11.3 (August, 1997) and 13.2.4, (January, 1995) and USEPA BACM Guidance Document Equation 2-12. See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, shredding, etc).

B = total annual throughput, in tons, from Section A.III.3.

C = control efficiency [(0.75, i.e., 75%)].

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: If required, 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"), with additions provided under 40 CFR Section 60.675(c)(1).

1.e Material Process Restriction: The maximum annual amount of material processed in this emissions unit shall not exceed 500,000 TPY.

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

1.f Material Process Restriction: The maximum combined amount of material processed in emissions units F007 and F008 shall not exceed 7,305 tons/day.

Applicable Compliance Method: Compliance with the material process restriction shall be determined by the record keeping requirements specified in Section A.III.1.b.

1.g Storage Pile Restrictions: The maximum number of processed soil storage piles in emissions units F007 and F008 shall not exceed two, and the maximum quantity of processed soil stored shall not exceed 18,000 tons per pile.

Applicable Compliance Method: Compliance with the storage pile restrictions shall be determined by the record keeping requirements specified in Sections A.III.1.c and A.III.1.d.

VI. Miscellaneous Requirements

1. a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
 - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
- b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
 - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the permittee has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the permittee has provided Ohio EPA with 15 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 3 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.

3. The limitations in terms A.II.4 and A.II.5 may be waived if the field office where this emissions unit is being relocated to approves and the emissions unit's operation at the new location will be in compliance with all applicable federal and State laws and regulations.

VI. Miscellaneous Requirements (continued)

4. The daily operational restrictions in terms A.II.4 and A.II.5 will become applicable to this emissions unit upon the commencement of construction of the landfill gas control system required in PTI 14-05292, that is subject to Federal Prevention of Significant Deterioration requirements. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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>
250 tons/hour portable soil shredding operation, including material handling, screening and storage piles		

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/Stone Crusher (F009)

Activity Description: 150 TPH Portable Soil/Stone Crusher. Source ID F003 from PTI # 06-5712 for Portable Soil Crusher at Beech Hollow Sanitary Landfill.

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>
400 tons/hour portable soil/rock crushing operation including screening, transfer and conveying	OAC rule 3745-31-05(A)(3) (PTI 14-05382)	17.36 lbs of particulate emissions (PE)/hour*; 59.26 lbs/day of PE; 32.5 tons per year (TPY) of PE from the soil/rock crushing, transferring and conveying operation. 7.46 lbs of particulate matter with a diameter of 10 microns or less (PM10 emissions)/hour*; 29.55 lbs/day of PM10 emissions; 13.95 TPY of PM10 emissions from the soil/rock crushing, transferring and conveying operation.
	40 CFR Part 60, Subpart OOO	* The hourly emission limitations specified above are based upon the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations. See Sections A.I.2 and A.II.3 below. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO. See Sections A.I.2.a and A.I.2.b below.

2. Additional Terms and Conditions

- 2.a Fugitive visible 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% opacity, except as provided by rule 40 CFR Section 60.672.
- 2.b Fugitive visible PE from any crusher shall not exceed 15% opacity.
- 2.c Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the process restrictions, visible emission limitations, moisture content requirement for processed soil and reduced drop height from loading.

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 particulate emissions 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. The maximum daily amount of soil/rock throughput in this emissions unit shall not exceed 6,100 tons/day. The maximum annual amount of soil/rock throughput in this emissions unit shall not exceed 1,497,600 TPY.
- 3. The maximum amount of rock throughput in this emissions unit shall be calculated using the following equation:

$$6,100 \text{ tons/day} - (0.835 \times \text{soil shredded, tons per day})$$

III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain daily records of the total amount, in tons, of material (soil/rock) throughput in this emissions unit.
- 2. The permittee shall calculate and maintain records of the daily PE and PM10 emissions from this emissions unit, in pounds. The PE and PM10 emissions shall be calculated in accordance with the equation specified in Section A.V.1.c.
- 3. The permittee shall maintain monthly records of the total amount of material (soil/rock) throughput in this emissions unit, in tons (summation of A.III.1 for each day of the calendar month).
- 4. The permittee shall maintain annual records of the total amount of material (soil/rock) throughput in this emissions unit, in tons (summation of A.III.3 for each month of the calendar year).
- 5. On days when this emissions unit is in operation, the permittee shall inspect the crushing operation, and material handling operations, 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.

The above-mentioned inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary when snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mentioned applicable requirements.

- 6. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05382 issued on June 10, 2004. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. 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.5 was not performed, excluding an inspection which was not performed due to an exemption for snow and/or ice or precipitation;
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented;
 - c. all exceedances of the daily material process restriction of 6,100 tons/day; and
 - d. all exceedances of the daily PE and PM10 emissions limitations.
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.
3. The permittee shall submit annual reports that specify the total amount of material throughput and the PE/PM10 emissions in this emissions unit for the calendar year, in tons. This report shall be submitted by January 31 of each year and cover the previous calendar year.
4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-05382, issued on June 10, 2004. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 and the operational restrictions specified in Section A.II shall be determined in accordance with the following methods:
 - 1.a If the initial visible PE testing has not already been conducted, then the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - i. The emission testing shall be conducted within 60 days after achieving the maximum production rate but no later than 180 days after modification of this emissions unit to 400 tons per hour.
 - ii. The emission testing shall be conducted to demonstrate compliance with the visible PE limitations specified in Sections A.I.2.a and A.I.2.b of this permit.
 - iii. Compliance with the visible PE limitations specified in this permit shall be determined by using U.S. EPA Reference Test Method 9. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
 - iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services.

The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Hamilton County Department of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Hamilton County Department of Environmental Services shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s).

1.b Emission Limitations: 17.36 lbs of PE/hr; 7.46 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:

$$\begin{aligned}\text{lbs of PE} &= (A) \times (B) \times (1 - C) \\ \text{lbs of PM10 emissions} &= (A) \times (B) \times (1 - C)\end{aligned}$$

where:

A = PE or PM10 emission factor, as calculated from AP-42, Sections 11.3 (August, 1997) and 13.2.4, (January, 1995). See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, crushing/screening, etc).
B = maximum hourly throughput of 400 tons.
C = control efficiency [0.70, i.e., 70%].

1.c Emission Limitations: 59.26 lbs/day of PE; 29.55 lbs/day of PM10 emissions

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

$$\begin{aligned}\text{lbs/day of PE} &= (A) \times (B) \times (1 - C) \\ \text{lbs/day of PM10 emissions} &= (A) \times (B) \times (1 - C)\end{aligned}$$

where:

A = PE or PM10 emission factor, as calculated from AP-42, Sections 11.3 (August, 1997) and 13.2.4 (January, 1995). See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, crushing/screening, etc).
B = total daily throughput, in tons, from Section A.III.1.
C = control efficiency [0.70, i.e., 70%].

V. Testing Requirements (continued)

1.d Emission Limitations: 32.5 TPY of PE; 13.95 TPY of PM10 emissions

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

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

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

where:

A = PE or PM10 emission factor, as calculated from AP-42, Sections 11.3 (August, 1997) and 13.2.4 (January, 1995). See emission calculations detailed in PTI application 14-05382 for specific emission factors (load-in, load-out, crushing/screening, etc).

B = total annual throughput, in tons, from Section A.III.4.

C = control efficiency [0.70, i.e., 70%].

1.e Emission Limitation: Fugitive visible 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% opacity, except as provided by 40 CFR, Section 60.672.

Applicable Compliance Method: If required, compliance with the opacity limitation 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"), with additions provided under 40 CFR Section 60.675(c)(1).

1.f Emission Limitation: Fugitive visible PE from any crusher shall not exceed 15% opacity.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the visible PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Test Method 9.

1.g Material Process Restrictions: The maximum daily amount of soil/rock throughput in this emissions unit shall not exceed 6,100 tons/day. The maximum annual amount of soil/rock throughput in this emissions unit shall not exceed 1,497,600 TPY.

Applicable Compliance Method: Compliance with the daily material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.1.

Compliance with the annual material process restriction shall be determined by the record keeping requirements specified in Section A.III.4.

VI. Miscellaneous Requirements

1. Notice to Relocate a Portable Source
 - a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
 - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
 - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the permittee has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the permittee has provided Ohio EPA with 15 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 3 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.

3. The daily throughput and daily emissions limit may be waived if the field office where this emissions unit is being relocated to approves and the emissions unit's operation at the new location will be in compliance with all applicable federal and State laws and regulations.

VI. Miscellaneous Requirements (continued)

4. The daily operational restriction in terms A.II.2 and A.II.3 will become applicable to this emissions unit upon the commencement of construction of the landfill gas control system required in PTI 14-05292, that is subject to Federal Prevention of Significant Deterioration requirements. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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>
400 tons/hour portable soil/rock crushing operation including screening, transfer and conveying		

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: Crushed Soil/Stone Storage Piles (F010)

Activity Description: Crushed Soil/Stone Storage Piles - Source ID F004 from PTI # 06-5712 for Portable Soil Crusher at Beech Hollow Sanitary Landfill.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be 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>
load-in, load-out and wind erosion from crushed soil/rock storage piles	OAC rule 3745-31-05(A)(3) (PTI 14-05382)	<p>26.8 tons per year (TPY) of particulate emissions (PE)</p> <p>13.4 tons per year (TPY) of particulate matter with a diameter of 10 microns or less (PM10 emissions)</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust</p> <p>No visible PE from any storage pile associated with this emissions unit, except for 1 minute during any 60-minute observation period.</p> <p>See Section A.I.2 below.</p>

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05(A)(3) are listed below:
 - crushed soil/rock storage piles
- 2.b The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles 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 watering and reduced drop height for load-in, and watering for load-out to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

2. Additional Terms and Conditions (continued)

- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles 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 watering and maintaining low pile height to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

- 1.** The maximum amount of crushed soil/rock throughput in this emissions unit shall not exceed 1,497,600 tons per year.
- 2.** The maximum daily amount of soil/rock throughput in this emissions unit shall not exceed 6,100 tons per day.
- 3.** The maximum number of storage piles in this emissions unit shall not exceed three, and the maximum quantity of material stored shall not exceed 50,000 tons per pile.
- 4.** The maximum amount of rock throughput in this emissions unit shall be calculated using the following equation:

$$6,100 \text{ tons/day} - (0.835 \times \text{soil shredded, tons per day})$$

III. Monitoring and/or Record Keeping Requirements

- 1.** Except as otherwise provided in this section, the permittee shall perform inspections of the load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification: all

minimum load-in inspection frequency: once daily
- 2.** Except as otherwise provided in this section, the permittee shall perform inspections of the load-out operation at each storage pile in accordance with the following frequencies:

storage pile identification: all

minimum load-out inspection frequency: once daily during operation
- 3.** Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification: all

minimum wind erosion inspection frequency: once daily
- 4.** No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. 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.
7. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control 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, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

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

8. The permittee shall maintain daily records of the total amount of material (crushed soil/rock) throughput in this emissions unit, in tons.
9. The permittee shall maintain daily records of the following information:
 - a. the total number of processed soil/rock storage piles for this emissions unit; and
 - b. the amount of processed material (soil/rock) in each storage pile, in tons.
10. The permittee shall maintain monthly records of the total amount of material (soil/rock) throughput from all storage piles associated with this emissions unit, in tons (summation of A.III.9.b for each day of the calendar month).
11. The permittee shall maintain annual records of the total amount of all material (soil/rock) throughput in this emissions unit, in tons (summation of A.III.10 for each month of the calendar year).
12. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05382 issued on June 10, 2004. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day during which an inspection required in Sections A.III.1, A.III.2, and A.III.3 was not performed, excluding an inspection which was not performed due to an exemption for snow and/or ice or precipitation;
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented;
 - c. all exceedances of the daily material throughput restriction of 6,100 tons/day; and
 - d. all exceedances of the storage pile restrictions as specified in Section A.II.3.
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.
3. The permittee shall submit annual reports that specify the total amount of crushed material (soil/rock) throughput, in tons, in this emissions unit for the calendar year. This report shall be submitted by January 31 of each year and cover the previous calendar year.
4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-05382, issued on June 10, 2004. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: no visible PE, except for 1 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").
 - 1.b Emission Limitations: 26.8 TPY of PE; 13.4 TPY of PM10 emissions

Applicable Compliance Method: The TPY limit was established based upon emission calculations using AP-42, Chapter 13.2.4 (January, 1995) emission factors and USEPA BACM Guidance Document Equation 2-12. Compliance shall be determined by using AP-42 emission factors and the appropriate operating information from the monitoring and record keeping requirements contained in this permit and the control efficiency and emission calculations detailed in PTI Application # 14-05382.
 - 1.c Material Throughput Restrictions: The maximum amount of material (crushed soil/rock) throughput in this emissions unit shall not exceed 6,100 tons per day and 1,497,600 tons per year.

Applicable Compliance Method: Compliance with the daily material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.8.

Compliance with the annual material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.11.
 - 1.d Storage Pile Restrictions: The maximum number of storage piles in this emissions unit shall not exceed three, and the maximum quantity of material stored shall not exceed 50,000 tons per pile.

Applicable Compliance Method: Compliance with the storage pile restrictions shall be determined by the record keeping requirements specified in Section A.III.9.

VI. Miscellaneous Requirements

1. The daily operational restrictions in terms A.II.2, A.II.3 and A.II.4 will become applicable to this emissions unit upon the commencement of construction of the landfill gas control system required in PTI 14-05292, that is subject to Federal Prevention of Significant Deterioration requirements. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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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load-in, load-out and wind erosion
from crushed soil/rock storage piles

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: Crushed Soil/Stone Misc. Material Handling Operations (F011)
Activity Description: Crushed Soil/Stone Miscellaneous Material Handling Operations - Source ID F005 from PTI # 06-5712 for Portable Soil Crusher at Beech Hollow Sanitary Landfill.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be 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>
crushed soil/rock miscellaneous material handling operations	OAC rule 3745-31-05(A)(3) (PTI 14-05382)	0.34 lb/hour of particulate emissions (PE)*; 0.63 ton/year (TPY) of PE. 0.16 lb/hour of particulate matter with a diameter of 10 microns or less (PM10 emissions)*; 0.30 TPY of PM10 emissions. * The hourly emission limitations specified above are based upon the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations. Visible PE from any fugitive dust emissions point shall not exceed 20% opacity, as a 3-minute average. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust Section A.I.2 below.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of watering, visible emissions restriction, throughput restriction, and reduced drop height of crushed soil.
- 2.b The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Load-in and load-out of the crusher, vehicles, and other miscellaneous material handling

2. Additional Terms and Conditions (continued)

- 2.c** The permittee shall employ best available control measures for the above-identified material handling operation(s) 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 perform the following control measure(s) to ensure compliance:

material handling operation(s): rubber-tire loader dumping

control measure(s): watering, minimizing drop height during load-in, load-out and unloading

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.d** For each material handling operation, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.e** 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

1. The amount of excavated material (soil/rock) throughput in this emissions unit shall not exceed 1,497,600 TPY.
2. The maximum daily amount of material (soil/rock) throughput in this emissions unit shall not exceed 6,100 tons per day.
3. The maximum amount of soil/rock throughput in this emissions unit shall be calculated using the following equation:

6,100 tons/day - (0.835 x soil shredded, tons per day)

III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

material handling operation(s): rubber-tire loader dumping

minimum inspection frequency: once daily during operation
2. The above-mentioned inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary when snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mentioned applicable requirements.
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.

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

4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. The permittee shall maintain daily records of the total amount of excavated material (soil/rock) throughput, in tons, in this emissions unit.
6. The permittee shall maintain monthly records of the total amount of material (soil/rock) throughput from this emissions unit, in tons (summation of A.III.5 for each day of the calendar month).
7. The permittee shall maintain annual records of the total amount of all material (soil/rock) throughput in this emissions unit, in tons (summation of A.III.6 for each month of the calendar year).
8. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05382 issued on June 10, 2004. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day during which an inspection required by Section A.III.1 was not performed, excluding an inspection which was not performed due to an exemption for snow and/or ice or precipitation;
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented; and
 - c. all exceedances of the daily material throughput restriction of 6,100 tons/day.
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.
3. The permittee shall submit annual reports that specify the total amount of excavated material (soil/rock) throughput for this emissions unit for the calendar year, in tons. This report shall be submitted by January 31 of each year and shall address the previous calendar year.
4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-05382, issued on June 10, 2004. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations and operational restrictions specified in Sections A.I.1 and A.II shall be determined by the following methods:

V. Testing Requirements (continued)

- 1.a** Emission Limitation: Visible PE from any fugitive dust emissions point shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method: Compliance with the visible emissions limitation for the material handling operation(s) identified above 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").

- 1.b** Emission Limitations: 0.34 lb/hr of PE; 0.16 lb/hr of PM10 emissions

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

lb/hr of PE = (A) x (C) x (D), calculated for load-in and load-out
lb/hr of PM10 emissions = (B) x (C) x (D), calculated for load-in and load-out

where:

(A) = PE emission factor of 0.00084 lb/ton, calculated from AP-42, Section 13.2.4, (01/95)

(B) = PM10 emission factor of 0.00040 lb/ton, calculated from AP-42, Section 13.2.4, (01/95)

(C) = Maximum hourly throughput of 400 tons/hour

(D) = Control factor of 50% (0.50)

- 1.c** Emission Limitations: 0.63 TPY of PE; 0.30 TPY of PM10 emissions

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

TPY of PE = (A) x (C) x (D) x (1 ton/2,000 lbs), calculated for load-in and load-out

TPY of PM10 emissions = (B) x (C) x (D) x (1 ton/2,000 lbs), calculated for load-in and load-out

where:

(A) = PE emission factor of 0.00084 lb/ton, calculated from AP-42, Section 13.2.4, (01/95)

(B) = PM10 emission factor of 0.00040 lb/ton, calculated from AP-42, Section 13.2.4, (01/95)

(C) = Maximum annual material throughput of 1,497,600 TPY

(D) = Control factor of 50% (0.50)

Compliance with the annual PE/PM10 emission limitations is ensured while compliance with the annual material throughput is maintained.

- 1.d** Material Process Restrictions: The maximum amount of material (crushed soil/rock) throughput in this emissions unit shall not exceed 6,100 tons/day and 1,497,600 TPY

Applicable Compliance Method: Compliance with the daily material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.5.

Compliance with the annual material throughput restriction shall be determined by the record keeping requirements specified in Section A.III.7.

VI. Miscellaneous Requirements

1. The daily operational restrictions in term A.II.2 and A.II.3 will become applicable to this emissions unit upon the commencement of construction of a landfill gas control system required in PTI 14-05292. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

VI. Miscellaneous Requirements (continued)

3. The daily operational restriction in terms A.II.2 and A.II.3 will become applicable to this emissions unit upon the commencement of construction of the landfill gas control system required in PTI 14-05292, that is subject to Federal Prevention of Significant Deterioration requirements. This emissions unit shall remain in compliance at all times with all applicable federal and State laws and regulations.

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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crushed soil/rock miscellaneous
material handling operations

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: Paint Shop Container/Truck Booth (K001)

Activity Description: Paint Shop Container/Truck Booth with Dry Filtration System

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>
paint shop container booth, with a dry filtration system	OAC rule 3745-31-05(A)(3) (PTI 14-05416)	70.0 lbs of volatile organic compounds (VOC) emissions/day from coatings.
		12.6 tons per year (TPY) of VOC emissions from coatings.
		33.0 lbs/day of organic compound (OC) emissions from cleanup materials (acetone).
		4.62 TPY of OC emissions from cleanup materials (acetone).
		0.551 lb/hour of particulate emissions (PE)/particulate matter with a diameter of 10 microns or less (PM10 emissions).
		2.41 TPY of PE/PM10 emissions.
		See Section A.II below.
	OAC rule 3745-17-11(B)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(B), and 3745-21-09(U)(1)(c).
	OAC rule 3745-17-07(A)(1)	The PE emission limitation specified by this rule is equal to or less stringent than the PE limitation established pursuant to OAC 3745-31-05(A)(3).
		Visible PE shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

OAC rule 3745-21-09(U)(1)(c)

3.5 lbs of VOC/gallon of coating,
excluding water and exempt
solvents, as applied.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by coating and cleanup material usage limitations, the coating VOC content limitation, and the VOC, OC, and PE/PM10 emission limitations.

II. Operational Restrictions

1. The maximum coating usage for this emissions unit shall not exceed 20 gallons per day and 7,200 gallons per year, excluding water and exempt solvents.
2. The maximum cleanup material (acetone) usage for this emissions unit shall not exceed 5 gallons per day and 1,400 gallons per year.
3. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the the following information for each day for this emissions unit:
 - a. the company identification for each coating material employed;
 - b. the number of gallons of each coating employed, excluding water and exempt solvents;
 - c. the VOC content of each coating, in pounds of VOC/gallon of coating, excluding water and exempt solvents, as applied;
 - d. the total number of gallons of all coatings employed [summation of (b) for all coatings employed for the day];
 - e. the total VOC emissions from all coatings employed [the summation of (b x c) for all coatings employed], in lbs;
 - f. the name and identification of each cleanup material employed;
 - g. the number of gallons of each cleanup material employed;
 - h. the OC content of each cleanup material (acetone) employed, in lbs/gallon;
 - i. the total OC (acetone) emissions from all cleanup materials employed, in lbs [summation of (g x h) for all cleanup materials employed]; and
 - j. the total number of gallons of all cleanup materials employed [summation of (g) for all cleanup materials employed each day].

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

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the total gallons of all coatings employed [summation of A.III.1.d for each day of the calendar month]; and
 - b. the total gallons of all cleanup material employed [summation of A.III.1.j for each day of the calendar month];
 - c. the total VOC emissions from all coatings employed [summation of the VOC emissions from Section A.III.1.e for each day of the calendar month]; and
 - d. the total OC emissions from all cleanup materials employed [summation of the OC emissions from Section A.III.1.i for each day of the calendar month].
3. The permittee shall maintain annual records of the following information:
 - a. the total gallons of all coatings employed [summation of A.III.2.a for each month of the calendar year];
 - b. the total gallons of all cleanup material employed [summation of A.III.2.b for each month of the calendar year];
 - c. the total VOC emissions from all coatings employed [summation of the VOC emissions from Section A.III.2.c for each month of the calendar year]; and
 - d. the total OC emissions from all cleanup materials employed [summation of the OC emissions from Section A.III.2.d for each month of the calendar year].
4. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.
5. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05416 issued on May 6, 2003. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the daily coating usage restriction of 20 gallons, excluding water and exempt solvents.
 - b. all exceedances of the daily cleanup material (acetone) usage restriction of 5 gallons;
 - c. all exceedances of the daily VOC emission limitation of 70.0 lbs; and
 - d. all exceedances of the daily cleanup material (acetone) emission limitation of 33.0 lbs.
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.
3. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total coating and cleanup material usage, in gallons, for the calendar year. Each report shall be submitted by January 31 of each year and cover the previous year of operation.
4. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total PE, OC, and VOC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

IV. Reporting Requirements (continued)

5. The permittee shall notify the Hamilton County Department of Environmental Services of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the event occurs.
6. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent than the reporting requirements contained in PTI 14-05416, issued on May 6, 2003. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

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

- 1.a Emission Limitation: 3.5 lbs of VOC/gallon of coating, excluding water and exempt solvents.

Applicable Compliance Method: Compliance with the VOC content limitation shall be determined by the record keeping requirements specified in Section A.III.1 of this permit.

U.S. EPA Method 24 shall be used to determine the VOC content for coatings materials. If, pursuant to 40 CFR, Part 60, Appendix A, the permittee determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24. Formulation data or U.S. EPA Method 24 shall be used to determine the VOC content of any cleanup material.

- 1.b Emission Limitation: 70.0 lbs of VOC emissions/day from coatings

Applicable Compliance Method: Compliance shall be determined based on the record keeping requirements specified in Section A.III.1 of this permit.

- 1.c Emission Limitation: 33.0 lbs of OC (acetone) emissions/day

Applicable Compliance Method: Compliance with the daily acetone emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.d Emission Limitations: 12.6 TPY of VOC from coatings; 4.62 TPY of OC emissions from cleanup materials (acetone)

Applicable Compliance Method: Compliance with the annual VOC emission limitations for coatings and cleanup materials shall be determined by the record keeping requirements specified in Section A.III.3.

V. Testing Requirements (continued)

- 1.e** Emission Limitation: 0.551 lb of PE/PM10 emissions/hr

Applicable Compliance Method: The hourly emission limitation is based upon OAC rule 3745-17-11(B), Table 1.

To determine the actual worst case emission rate for PE/PM10 emissions, the following methodology may be used:

$$\text{PE/PM10 emissions} = \text{maximum coating solids usage rate (40 lbs/hour)} \times (1 - \text{TE}) \times (1 - \text{CE})$$

where:

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids use (i.e., 95%); and

CE = control efficiency of the control equipment (i.e., 99%).

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.

- 1.f** Emission Limitation: 2.41 TPY of PE/PM10 emissions

Applicable Compliance Method: The annual PE/PM10 emission limitation was established by multiplying hourly PE/PM10 emission rate of 0.551 lb/hour by 8,760 hours/year, and dividing by 2,000 pounds per ton. Therefore, compliance with the annual PE/PM10 emission limitation is ensured while compliance with the hourly PE/PM10 emission limitation is maintained.

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

Applicable Compliance Method: 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") and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.h** Coating Usage Restrictions: 20 gallons per day and 7,200 gallons per year of coating usage, excluding water and exempt solvents

Applicable Compliance Method: Compliance with the daily material coating usage restriction shall be determined by the record keeping requirements specified in Section A.III.1.

Compliance with the annual coating usage restriction shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.i** Cleanup Material Usage Restrictions: 5 gallons per day and 1,400 gallons per year of cleanup material (acetone) usage

Applicable Compliance Method: Compliance with the daily cleanup material usage restriction shall be determined by the record keeping requirements specified in Section A.III.1.

Compliance with the annual cleanup material usage restriction shall be determined by the record keeping requirements specified in Section A.III.3.

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>
paint shop container booth, with dry filtration system		

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emissions unit was evaluated based on the actual materials employed (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. Ohio EPA's "Review of New Sources of Air Toxics Emissions" policy ("Air Toxics Policy") was applied for each toxic pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: acetone

TLV (ug/m3): 1,188,000

Maximum Hourly Emission Rate (lbs/hr): 33

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1,284

MAGLC (ug/m3): 28,286

Physical changes to or in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxics Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxics Policy" will not be satisfied, the permittee shall not make the change. Changes that can affect the parameters used in the "Air Toxics Policy" include the following:

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

- a. changes in the composition of the materials used, or the use of new materials that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the "Air Toxics Policy":

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxics Policy"; and
- c. when the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxics Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paint Shop Truck Booth (K002)

Activity Description: Paint Shop Truck Booth with Dry Filtration System

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>
paint shop truck booth, with dry filtration system	OAC rule 3745-31-05(A)(3) (PTI 14-05416)	50.0 lbs of volatile organic compounds (VOC)/day from all coatings employed. 8.15 tons per year (TPY) of VOC from all coatings employed. 33.0 lbs/day of organic compound (OC) emissions from cleanup materials (acetone). 4.62 TPY of OC emissions (acetone) from cleanup materials. 0.551 lb/hour of particulate emissions (PE)/particulate matter with a diameter of 10 microns or less (PM10 emissions). 2.41 TPY of PE/PM10 emissions. See Sections A.I.2.a and A.II below.
	OAC rule 3745-17-11(B)	The requirement of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B). PE emissions shall not exceed 0.551 lb/hr (based on Table I of OAC rule 3745-17-11).
	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.

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

OAC rule 3745-21-09(U)(1)

Exempt, pursuant to OAC rule 3745-21-09(U)(2)(c) for used motor vehicle refinishing.

2. Additional Terms and Conditions

- 2.a The VOC content of the coatings employed shall not exceed 4.53 lbs of VOC/gallon of coating, excluding water and exempt solvents, based on a monthly, volume-weighted average, as applied.
- 2.b Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by coating and cleanup material usage limitations, the coating VOC content limitation, and the VOC, OC, and PE/PM10 emission limitations.

II. Operational Restrictions

- 1. The maximum coating usage for this emissions unit shall not exceed 10 gallons per day and 3,600 gallons per year, excluding water and exempt solvents.
- 2. The maximum cleanup material (acetone) usage for this emissions unit shall not exceed 5 gallons per day and 1,400 gallons per year.
- 3. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the the following information for each day for this emissions unit:
 - a. the company identification for each coating material employed;
 - b. the number of gallons of each coating employed, excluding water and exempt solvents;
 - c. the VOC content of each coating, in pounds of VOC/gallon of coating, excluding water and exempt solvents, as applied;
 - d. the total number of gallons of all coatings employed [summation of (b) for all coatings employed for the day];
 - e. the total VOC emissions from all coatings employed [the summation of (b x c) for all coatings employed], in lbs;
 - f. the name and identification of each cleanup material employed;
 - g. the number of gallons of each cleanup material employed;
 - h. the OC content of each cleanup material (acetone) employed, in lbs/gallon;
 - i. the total OC (acetone) emissions from all cleanup materials employed, in lbs [summation of (g x h) for all cleanup materials employed]; and
 - j. the total number of gallons of all cleanup materials employed [summation of (g) for all cleanup materials employed each day].

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

2. The permittee shall collect and record the the following information each month for this emissions unit:
 - a. the total gallons of all coatings employed [summation of Section A.III.1.d for each day of the calendar month]; and
 - b. the total gallons of all cleanup material employed [summation of Section A.III.1.j for each day of the calendar month];
 - c. the total VOC emissions from all coatings employed [summation of the VOC emissions from Section A.III.1.e for each day of the calendar month]; and
 - d. the total OC emissions from all cleanup materials employed [summation of the OC emissions from Section A.III.1.i for each day of the calendar month]; and
 - e. the monthly, volume-weighted average VOC content, in lbs/gallon, for all the coatings employed, calculated in accordance with the equation specified in paragraph (B)(9) of OAC rule 3745-21-10 for CVOC2.
3. The permittee shall maintain annual records of the following information:
 - a. the total gallons of all coatings employed [summation of A.III.2.a for each month of the calendar year];
 - b. the total gallons of all cleanup material employed [summation of A.III.2.b for each month of the calendar year];
 - c. the total VOC emissions from all coatings employed [summation of the VOC emissions from Section A.III.2.c for each month of the calendar year]; and
 - d. the total OC emissions from all cleanup materials employed [summation of the OC emissions from Section A.III.2.d for each month of the calendar year].
4. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.
5. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05416 issued on May 6, 2003. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the daily coating usage restriction of 10 gallons, excluding water and exempt solvents.
 - b. all exceedances of the daily cleanup material (acetone) usage restriction of 5 gallons;
 - c. all exceedances of the daily coating VOC emission limitation of 50.0 lbs; and
 - d. all exceedances of the daily cleanup material (acetone) emission limitation of 33.0 lbs.
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.
3. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any monthly record showing the use of noncomplying coatings (i.e., for VOC content). The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days following the end of the calendar month.

IV. Reporting Requirements (continued)

4. The permittee shall notify the Hamilton County Department of Environmental Services of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the event occurs.
5. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total coating and cleanup material usage, in gallons, for the calendar year. Each report shall be submitted by January 31 of each year and cover the previous year of operation.
6. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the total PE, OC, and VOC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.
7. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent than the reporting requirements contained in PTI 14-05416, issued on May 6, 2003. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations and material usage restrictions specified in Sections A.I.1 and A.II shall be determined in accordance with the following methods:
 - 1.a VOC Content Limitation: 4.53 lbs of VOC/gallon of coating, excluding water and exempt solvents, based on a monthly volume weighted average.

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

U.S. EPA Method 24 shall be used to determine the VOC content for coatings materials. If, pursuant to 40 CFR Part 60, Appendix A, the permittee determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

- 1.b Emission Limitation: 50.0 lbs of VOC emissions/day

Applicable Compliance Method: Compliance daily VOC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1 of this permit.

- 1.c Coating Usage Restrictions: 10 gallons/day and 3,600 gallons/year for coatings, excluding water and exempt solvents

Applicable Compliance Method: Compliance shall be determined based on the record keeping requirements specified in Sections A.III.1 and A.III.3, respectively.

- 1.d Cleanup Material Usage Restriction: 5 gallons/day and 1,400 gallons/year of cleanup material (acetone) usage

Applicable Compliance Method: Compliance shall be determined based on the record keeping requirements specified in Sections A.III.1 and A.III.3, respectively.

- 1.e 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: 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") and the procedures specified in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

1.f Emission Limitation: 0.551 lb of PE/PM10 emissions/hr

Applicable Compliance Method: The hourly emission limitation is based upon OAC rule 3745-17-11(B), Table 1.

To determine the actual worst case emission rate for PE/PM10 emissions, the following methodology may be used:

$PE/PM10 \text{ emissions} = \text{maximum coating solids usage rate (20 lbs/hour)} \times (1 - TE) \times (1 - CE)$

where:

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids use (i.e., 95%); and

CE = control efficiency of the control equipment (i.e., 99%).

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.

1.g Emission Limitation: 2.41 TPY of PE and PM10 emissions

Applicable Compliance Method: Compliance shall be determined by multiplying 0.551 lb/hour by 8,760 hours per year and dividing by 2,000 pounds/ton.

1.h Emission Limitation: 8.15 TPY of VOC emissions

Applicable Compliance Method: Compliance with the annual VOC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

1.i Emission Limitation: 33.0 lbs of OC (acetone)/day from cleanup materials

Applicable Compliance Method: Compliance with the daily OC emission limitation for cleanup materials shall be determined by the record keeping requirements specified in Section A.III.1.

1.j Emission Limitation: 4.62 TPY of OC (acetone) emissions from cleanup materials.

Applicable Compliance Method: Compliance with the annual OC emission limitation from cleanup materials shall be determined by the record keeping requirements specified in Section A.III.3.

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>
paint shop truck booth, with dry filtration system		

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emissions unit was evaluated based on the actual materials employed (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. Ohio EPA's "Review of New Sources of Air Toxics Emissions" policy ("Air Toxics Policy") was applied for each toxic pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant:

Pollutant: acetone
 TLV (ug/m3): 1,188,000
 Maximum Hourly Emission Rate (lbs/hr): 33
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1,284
 MAGLC (ug/m3): 28,286

Physical changes to or in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxics Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxics Policy" will not be satisfied, the permittee shall not make the change. Changes that can affect the parameters used in the "Air Toxics Policy" include the following:

- a. changes in the composition of the materials used, or the use of new materials that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the "Air Toxics Policy":

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxics Policy"; and
- c. when the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxics Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Facility Name:
Facility ID:
Emissions Unit:

Facility Name:
Facility ID:
Emissions Unit:

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Deodorizing Operations (P003)

Activity Description: Odor Control Deodorizing System (Previously reported as Z005)

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>
deodorizing system	OAC rule 3745-31-05(A)(3) (PTI 14-04447)	157.38 lbs of organic compounds (OC) emissions/hr*; 10.98 tons/year (TPY) of OC emissions, based on a rolling, 12-month summation of the OC emissions. * The lbs of OC emissions/hr emission limitation is based on the emissions unit's potential to emit. Therefore, no hourly monitoring, record keeping or reporting is required to ensure compliance with this emission limitation.
	OAC rule 3745-21-07(G)(2)	See Section A.I.2.a below. none (See Section A.II.2 below.)

2. Additional Terms and Conditions

- 2.a The OC content of the deodorizing agents used in this emissions unit shall not exceed 15%, by weight.

II. Operational Restrictions

- The maximum annual usage of deodorizing agents shall not exceed 18,000 gallons/year, based upon a rolling, 12-month summation of the monthly usage rates.
- The use of any photochemically reactive material in this emissions unit, as defined in OAC rule 3745-21-01(C)(5), is prohibited.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record each month the following information for this emissions unit:
 - a. the name and identification number of each deodorizing agent used and documentation of whether or not it is a photochemically reactive material.
 - b. the total amount of each deodorizing agent used, in gallons;
 - c. the OC content, in percent by weight, of each deodorizing agent employed;
 - d. the OC emissions for all the deodorizing agents employed (the summation of (b) x density of each deodorizing agent x (c) for all deodorizing agents), in lbs;
 - e. the total usage for all deodorizing agents, in gallons (the summation of b for all deodorizing agents);
 - f. the rolling, 12-month summation of the deodorizing agents, in gallons; and
 - g. the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-4447 issued on July 15, 1998. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month OC emission limitation of 10.98 tons;
 - b. all exceedances of the rolling, 12-month deodorizing agent gallon usage restriction of 18,000;
 - c. all exceedances of the OC content of 15% by weight; and
 - d. the use of any photochemically reactive material in this emissions unit.

All quarterly reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

2. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-4447 issued on July 15, 1998. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

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

V. Testing Requirements (continued)

- 1.a** Emission Limitation: 157.38 lbs of OC emissions/hr

Applicable Compliance Method: The hourly OC emission limitation represents the emissions unit's potential to emit and was established by the following methodology:

[maximum use rate per hour (129 gallons per hour)] x [the maximum density of all the deodorizing agents (8.133 pounds per gallon)] x [the maximum amount of OC in the deodorant spray (15%, by weight)].

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation through mass balance calculations using the OC content determined by Section A.V.1.d and the hourly deodorant usage rate.

- 1.b** Emission Limitation: 10.98 TPY of OC emissions, based on a rolling, 12-month summation of the OC emissions

Applicable Compliance Method: Compliance shall be determined based on the record keeping requirements specified in Section A.III.1 above.

- 1.c** Material Usage Restriction: 18,000 gallons/year of deodorizing agents, based on a rolling, 12-month summation of the deodorizing agent usage

Applicable Compliance Method: Compliance with the material usage restriction shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.d** OC Content Limitation: 15%, by weight, of OC/gallon of deodorizing agent

Applicable Compliance Method: Compliance may be determined based upon the record keeping requirements specified in Section A.III.1. U.S. EPA Method 24 may be used to determine the VOC content for the deodorizing agent. If, pursuant to 40 CFR Part 60, Appendix A, the permittee determines that Method 24 cannot be used for the deodorizing agent, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that deodorizing agent to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

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>
deodorizing system		

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: Leachate Treatment Tank # 2 (P006)

Activity Description: Leachate Treatment Tank # 2- 25,000 Gallons (Previously reported as Z022)

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>
25,000-gallon wastewater aeration tank	OAC rule 3745-31-05(A)(3) (PTI 14-04447)	9.0 lbs of organic compound emissions(OC)/hr*. 39.42 tons/year (TPY) of OC emissions. * The lbs of OC emissions/hr emission limitation is based on the emissions unit's potential to emit. Therefore, no additional hourly monitoring, record keeping or reporting is required to ensure compliance with this emission limitation.
	OAC rule 3745-21-07(G)	See Section A.II.1 below. Exempt, pursuant to the provisions OAC rule 3745-21-07(G)(9)(c).

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The OC content of the leachate processed shall not exceed 45,000 micrograms/liter (ug/l).

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain records of the laboratory analysis reports that determine the OC content of the leachate processed. The permittee shall sample the leachate on an annual basis.
- Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-4447 issued on July 15, 1998. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that specify the OC content of the leachate, in ug/l, pursuant to the analysis performed. The report shall be submitted by January 31 of each year and cover the previous calendar year.
2. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent than the reporting requirements contained in PTI 14-4447 issued on July 15, 1998. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following method:
 - 1.a Emission Limitations: 9.0 lbs of OC emissions/hr; 39.42 TPY of OC emissions.

Applicable Compliance Method: The hourly OC emission limitation represents the emissions unit's potential to emit and was established by the following methodology:

$$\text{lbs of OC emissions/hr} = (A) \times (B)$$

where:

A = maximum OC content of leachate, 45,000 micrograms/liter (0.000375 lb/gal);

B = maximum hourly leachate flow rate (24,000 gallons/hour); and

C = maximum annual hours of operation, 8,760 hrs/yr.

The annual OC emission limitation was established by the following methodology:

$$\text{tons OC emissions/yr} = (A) \times (B) \times (C) \times (1 \text{ ton}/2,000 \text{ lbs})$$

If required, compliance with the OC content (ug/l) limitation shall be conducted using Method 8260 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication No. SW-846.

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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25,000-gallon wastewater aeration tank

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: 1.12 MMBTU/hr Diesel Engine (P007)
Activity Description: 80040 - Max.Clay Screen (160 HP) for Portable 150 TPH Soil Shredder-Screener (Previously reported as Z037)

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 14-04771)	0.35 lb of particulate emissions (PE)/hr; 0.35 lb of particulate matter with a diameter of 10 microns or less 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 specified above are based upon the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B)(5).

See Sections A.I.2.a and 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.I.2.a below.
	OAC rule 3745-18-06(G)	PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.I.2.b below.
	OAC rule 3745-23-06(B)	Exempt, pursuant to OAC rule 3745-18-06(B). The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-04771.

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** This 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 permittee shall burn only #2 fuel oil in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the total amount, in gallons, of #2 fuel oil combusted in this emissions unit.
- 3. The permittee shall maintain annual records of the total amount, in gallons, of #2 diesel fuel oil employed in this emissions unit for the calendar year [summation of A.III.2 for each month of the calendar year].
- 4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-4771 issued on August 11, 1999. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows this emissions unit employed a fuel other than #2 diesel 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 occurrence.
2. The permittee shall submit annual reports that specify the total amount, in gallons, of #2 fuel oil employed in this emissions unit for the calendar year. These reports shall be submitted by January 31 of each year and cover the previous calendar year.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-4771 issued on August 11, 1999. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations and operational restrictions specified in Sections A.I.1 and A.II shall be determined by 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") and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b 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).

- 1.c 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 (10/96). The Ohio EPA revised the emission limitation specified in this 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).

V. Testing Requirements (continued)

- 1.d** Emission Limitations: 0.35 lb of PE/hr and 0.35 lb of PM10 emissions/hr; 0.42 TPY of PE and 0.42 TPY of PM10 emissions

Applicable Compliance Method: The hourly emission limitations are based upon the emissions unit's potentials 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/PM10 emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitations were established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 42.47 lbs/mgal (converted from 0.31 lb of PE/PM10 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

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 SO2 emissions/hr; 0.40 TPY of SO2 emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions unit's potentials 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 SO2/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 39.73 lbs/mgal (converted from 0.29 lb of SO2 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

- 1.f** Emission Limitations: 4.94 lbs of NOx emissions/hr; 6.04 TPY of NOx emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions unit's potentials 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 NOx/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 604.11 lbs/mgal (converted from 4.41 lb of NOx emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 7 of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 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 emissions unit's potentials 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 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 130.14 lbs/mgal (converted from 0.95 lb of CO emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 10 of 40 CFR, Part 60, Appendix A.

- 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 emissions unit's potentials 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 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 49.32 lbs/mgal (converted from 0.36 lb of VOC emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (10/96).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Methods 1-4 and 25 of 40 CFR, Part 60, Appendix A.

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

Applicable Compliance Method: Compliance with the #2 diesel fuel oil use restriction shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. Notice to Relocate a Portable Source
 - a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
 - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of thirty days prior to the scheduled relocation; and
 - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
 - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the permittee has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the permittee has provided 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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1.12 mmBtu/hr diesel engine

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: 1.12 MMBTU/hr Diesel Engine (P008)

Activity Description: Generator (160 HP) for Portable 150 TPH Soil Shredder- Screener (Previously reported as Z038) Used for Soil Shredding and Miscellaneous Power Generation Operations

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 10 micron or less 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 specified above are based upon the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B)(5).

See Sections A.I.2.a and 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.I.2.b below.
	OAC rule 3745-18-06(G)	PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.I.2.c below.
	OAC rule 3745-23-06(B)	Exempt, pursuant to OAC rule 3745-18-06(B). The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-04771.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of #2 fuel oil, fuel oil usage limitation and compliance with specified emission limits.
- 2.b** 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.c** This 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 permittee shall burn only #2 fuel oil in this emissions unit.
- 2. The maximum fuel oil usage for this emissions unit shall not exceed 20,000 gallons/year.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the total amount, in gallons, of #2 fuel oil combusted in this emissions unit.
- 3. The permittee shall maintain annual records of the total amount, in gallons, of #2 diesel fuel oil employed in this emissions unit for the calendar year [summation of A.III.2 for each month of the calendar year].
- 4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-4771 issued on August 11, 1999. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows this emissions unit employed a fuel other than #2 diesel 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 occurrence.
2. The permittee shall submit annual reports that specify the total amount, in gallons, of #2 fuel oil employed in this emissions unit for the calendar year. These reports shall be submitted by January 31 of each year and cover the previous calendar year.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-4771 issued on August 11, 1999. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations and operational restrictions specified in Sections A.I.1 and A.II shall be determined by 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") and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b 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).

- 1.c 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 (10/96). The Ohio EPA revised the emission limitation specified in this 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).

V. Testing Requirements (continued)

- 1.d** Emission Limitations: 0.35 lb of PE/hr and 0.35 lb of PM10 emissions/hr; 0.42 TPY of PE and 0.42 TPY of PM10 emissions

Applicable Compliance Method: The hourly emission limitations are based upon the emissions 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/PM10 emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitations were established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 42.47 lbs/mgal (converted from 0.31 lb of PE/PM10 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

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 SO2 emissions/hr; 0.40 TPY of SO2 emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions 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 SO2/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 39.73 lbs/mgal (converted from 0.29 lb of SO2 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 6 of 40 CFR, Part 60, Appendix A.

- 1.f** Emission Limitations: 4.94 lbs of NOx emissions/hr; 6.04 TPY of NOx 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 NOx/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 604.11 lbs/mgal (converted from 4.41 lb of NOX emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 7 of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 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 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 130.14 lbs/mgal (converted from 0.95 lb of CO emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 10 of 40 CFR, Part 60, Appendix A.

- 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 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 49.32 lbs/mgal (converted from 0.36 lb of VOC emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 25 of 40 CFR, Part 60, Appendix A.

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

Applicable Compliance Method: Compliance with the #2 diesel fuel oil use restriction shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. Notice to Relocate a Portable Source
 - a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
 - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of thirty days prior to the scheduled relocation; and
 - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
 - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the permittee has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the permittee has provided 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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1.12 mmBtu/hr diesel engine

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: 1.12 MMBTU/hr Diesel Engine (P009)
Activity Description: 160 HP Diesel IC Engine for Portable 250 TPH Soil Shredder-Screener (Bobby Jacobs)

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 14-04771)	0.35 lb of particulate emissions (PE)/hr; 0.35 lb of particulate matter with a diameter of 10 microns or less 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 specified above are based upon the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B)(5).
	OAC rule 3745-17-07(A)(1)	See Sections A.I.2.a and A.II below. 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.I.2.b below.
	OAC rule 3745-23-06(B)	PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.I.2.c below. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-04771.
	OAC rule 3745-18-06(G)	Exempt, pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of #2 fuel oil, fuel oil usage limitation and compliance with specified emission limits.
- 2.b** 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.c** This 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 permittee shall burn only #2 fuel oil in this emissions unit.
- 2. The maximum fuel oil usage for this emissions unit shall not exceed 20,000 gallons/year.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the total amount, in gallons, of #2 fuel oil combusted in this emissions unit.
- 3. The permittee shall maintain annual records of the total amount, in gallons, of #2 diesel fuel oil employed in this emissions unit for the calendar year [summation of A.III.2 for each month of the calendar year].

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

4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-4771 issued on August 11, 1999. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows this emissions unit employed a fuel other than #2 diesel 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 occurrence.
2. The permittee shall submit annual reports that specify the total amount, in gallons, of #2 fuel oil employed in this emissions unit for the calendar year. These reports shall be submitted by January 31 of each year and cover the previous calendar year.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-4771 issued on August 11, 1999. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations and operational restrictions specified in Sections A.I.1 and A.II shall be determined by 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") and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b 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).

- 1.c 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 (10/96). The Ohio EPA revised the emission limitation specified in this 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).

V. Testing Requirements (continued)

- 1.d** Emission Limitations: 0.35 lb of PE/hr and 0.35 lb of PM10 emissions/hr; 0.42 TPY of PE and 0.42 TPY of PM10 emissions

Applicable Compliance Method: The hourly emission limitations are based upon the emissions unit's potentials 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/PM10 emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitations were established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 42.47 lbs/mgal (converted from 0.31 lb of PE/PM10 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

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 SO2 emissions/hr; 0.40 TPY of SO2 emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions 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 SO2/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 39.73 lbs/mgal (converted from 0.29 lb of SO2 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 6 of 40 CFR, Part 60, Appendix A.

- 1.f** Emission Limitations: 4.94 lbs of NOx emissions/hr; 6.04 TPY of NOx emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions 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 NOx/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 604.11 lbs/mgal (converted from 4.41 lb of NOX emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 7 of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 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 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 130.14 lbs/mgal (converted from 0.95 lb of CO emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 10 of 40 CFR, Part 60, Appendix A.

- 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 4.2 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 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 49.32 lbs/mgal (converted from 0.36 lb of VOC emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 25 of 40 CFR, Part 60, Appendix A.

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

Applicable Compliance Method: Compliance with the #2 diesel fuel oil use restriction shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. Notice to Relocate a Portable Source
 - a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
 - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of thirty days prior to the scheduled relocation; and
 - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
 - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the permittee has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the permittee has provided 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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1.12 mmBtu/hr diesel engine

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: 440 HP Diesel Engine for 150 TPH Portable Stone Crusher (P010)
Activity Description: 440 HP Diesel Engine for 150 TPH Portable Soil/Stone Crusher. Source ID P001 from PTI # 06-5712 for Portable Soil Crusher at Beech Hollow Sanitary Landfill.

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>
440 HP No. 2 diesel engine for 150 TPH mobile soil crusher	OAC rule 3745-31-05(A)(3) (PTI 06-5712)	0.96 lb of particulate emissions (PE)/hr; 0.96 lb of particulate matter with a diameter of 10 microns or less in size (PM10 emissions)/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 lb of volatile organic compounds (VOC) emissions/hr; 1.68 TPY of VOC emissions. * The hourly emission limitations specified above are based upon the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B)(5).

See Sections A.I.2.a and 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.I.2.b below.
	OAC rule 3745-18-06(G)	PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.I.2.c below.
	OAC rule 3745-23-06(B)	Exempt, pursuant to OAC rule 3745-18-06(B). The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-05382.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of #2 fuel oil, fuel oil usage limitation and compliance with specified emission limits.
- 2.b** 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.c** This 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 permittee shall burn only #2 fuel oil in this emissions unit.
- 2. The maximum fuel oil usage for this emissions unit shall not exceed 68,000 gallons/year.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the total amount, in gallons, of #2 fuel oil combusted in this emissions unit.
- 3. The permittee shall maintain annual records of the total amount, in gallons, of #2 diesel fuel oil employed in this emissions unit for the calendar year [summation of A.III.2 for each month of the calendar year].
- 4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-5712 issued on July 8, 1999. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows this emissions unit employed a fuel other than #2 diesel 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 occurrence.
2. The permittee shall submit annual reports that specify the total amount, in gallons, of #2 fuel oil employed in this emissions unit for the calendar year. These reports shall be submitted by January 31 of each year and cover the previous calendar year.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-5712 issued on July 8, 1999. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations and operational restrictions specified in Sections A.I.1 and A.II shall be determined by 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") and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b 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).

- 1.c 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 (10/96). The Ohio EPA revised the emission limitation specified in this 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).

V. Testing Requirements (continued)

- 1.d** Emission Limitations: 0.96 lb of PE/hr and 0.96 lb of PM10 emissions/hr; 1.44 TPY of PE and 1.44 TPY of PM10 emissions

Applicable Compliance Method: The hourly emission limitations are based upon the emissions unit's potentials to emit and were established by multiplying the total heat input of 3.1 mmBtu/hr by the emission factor of 0.31 lb of PE/PM10 emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitations were established by multiplying the maximum annual fuel usage of 68,000 gallons/year, by the emission factor of 42.47 lbs/mgal (converted from 0.31 lb of PE/PM10 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

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: 0.9 lb of SO2 emissions/hr; 1.35 TPY of SO2 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 3.1 mmBtu/hr by the emission factor of 0.29 lb of SO2/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 68,000 gallons/year, by the emission factor of 39.73 lbs/mgal (converted from 0.29 lb of SO2 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 6 of 40 CFR, Part 60, Appendix A.

- 1.f** Emission Limitations: 13.67 lbs of NOx emissions/hr; 20.54 TPY of NOx 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 3.1 mmBtu/hr by the emission factor of 4.41 lbs of NOx/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 68,000 gallons/year, by the emission factor of 604.11 lbs/mgal (converted from 4.41 lb of NOx emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 7 of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 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 3.1 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 68,000 gallons/year, by the emission factor of 130.14 lbs/mgal (converted from 0.95 lb of CO emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 10 of 40 CFR, Part 60, Appendix A.

- 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 3.1 mmBtu/hr by the emission factor of 0.35 lb of VOC/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 68,000 gallons/year, by the emission factor of 49.32 lbs/mgal (converted from 0.36 lb of VOC emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 25 of 40 CFR, Part 60, Appendix A.

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

Applicable Compliance Method: Compliance with the #2 diesel fuel oil use restriction shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. Notice to Relocate a Portable Source
 - a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
 - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of thirty days prior to the scheduled relocation; and
 - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
 - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the permittee has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the permittee has provided 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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440 HP No. 2 diesel engine for 150 TPH mobile soil crusher		
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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: 3.5 MMBTU/hr Diesel Engine (for Portable Tire Shredder) (P011)
Activity Description: 3.5 MMBTU/hr Diesel Engine (503 HP for Portable Tire Shredder).

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 portable diesel engine for the portable tire shredder	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 in size (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 specified above are based upon the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B)(5).

See Sections A.I.2.a and 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.I.2.b below.
	OAC rule 3745-18-06(G)	PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.I.2.c below.
	OAC rule 3745-23-06(B)	Exempt, pursuant to OAC rule 3745-18-06(B). The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-04975.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of #2 fuel oil, fuel oil usage limitation and compliance with specified emission limits.
- 2.b** 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.c** This 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 permittee shall burn only #2 diesel fuel oil in this emissions unit.
- 2. The maximum fuel oil usage for this emissions unit shall not exceed 81,000 gallons/year.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the total quantity of fuel oil combusted in this emissions unit.
- 3. The permittee shall maintain annual records of the total amount, in gallons, of #2 diesel fuel oil employed in this emissions unit for the calendar year [summation of A.III.2 for each month of the calendar year].
- 4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-04975 issued on August 30, 2000. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows this emissions unit employed a fuel other than #2 diesel 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 occurrence.
2. The permittee shall submit annual reports that specify the total amount, in gallons, of #2 fuel oil employed in this emissions unit for the calendar year. These reports shall be submitted by January 31 of each year and cover the previous calendar year.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-04975 issued on August 30, 2000. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations and operational restrictions specified in Sections A.I.1 and A.II shall be determined by 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") and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b 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).

- 1.c 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 (10/96). The Ohio EPA revised the emission limitation specified in this 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).

V. Testing Requirements (continued)

- 1.d** Emission Limitations: 1.09 lb of PE/hr and 1.09 lb 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 emissions unit's potential to emit and were established by multiplying the total heat input of 3.5 mmBtu/hr by the emission factor of 0.31 lb of PE/PM10 emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitations were established by multiplying the maximum annual fuel usage of 81,000 gallons/year, by the emission factor of 42.47 lbs/mgal (converted from 0.31 lb of PE/PM10 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

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: 1.02lb of SO2 emissions/hr; 1.47 TPY of SO2 emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions 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 of SO2/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 81,000 gallons/year, by the emission factor of 39.73 lbs/mgal (converted from 0.29 lb of SO2 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

- 1.f** Emission Limitations: 15.44 lbs of NOx emissions/hr; 22.41 TPY of NOx emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions 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 NOx/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 81,000 gallons/year, by the emission factor of 604.11 lbs/mgal (converted from 4.41 lb of NOX emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

- 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 emissions 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 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 81,000 gallons/year, by the emission factor of 130.14 lbs/mgal (converted from 0.95 lb of CO emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 10 of 40 CFR, Part 60, Appendix A.

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

Applicable Compliance Method: The hourly emission limitation is based upon the emissions 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 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 81,000 gallons/year, by the emission factor of 49.32 lbs/mgal (converted from 0.36 lb of VOC emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

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

Applicable Compliance Method: Compliance with the #2 diesel fuel oil use restriction shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. Notice to Relocate a Portable Source
 - a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
 - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of thirty days prior to the scheduled relocation; and
 - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
 - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the permittee has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the permittee has provided 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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3.5 mmBtu/hr portable diesel engine for portable tire shredder		
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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: 3.8 MMBTU/hr Diesel Engine (for Portable Tire Shredder) (P012)
Activity Description: 3.8 MMBTU/hr Diesel Engine (536 HP for Portable Tire Shredder).

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>
3.8 mmBtu/hr portable diesel engine for portable tire shredder	OAC rule 3745-31-05(A)(3) (PTI 14-05311)	1.16 lbs of particulate emissions (PE)/hr 1.16 lbs of particulate matter with a diameter of 10 microns or less in size (PM10 emissions)/hr 1.69 tons per year (TPY) of PE 1.69 TPY of PM10 emissions 1.09 lb of sulfur dioxide (SO2) emissions/hr; 1.58 TPY of SO2 emissions. 16.55 lbs of nitrogen oxides (NOx) emissions/hr; 23.99 TPY of NOx emissions. 3.56 lbs of carbon monoxide (CO) emissions/hr; 5.17 TPY of CO. 1.35 lb of volatile organic compounds (VOC) emissions/hr; 1.96 TPY of VOC emissions. * The hourly emission limitations specified above are based upon the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B)(5).

See Sections A.I.2.a and 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.I.2.b below.
	OAC rule 3745-18-06(G)	PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.I.2.c below.
	OAC rule 3745-23-06(B)	Exempt, pursuant to OAC rule 3745-18-06(B). The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-05311.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of #2 diesel fuel oil, the fuel oil usage limitation and compliance with specified emission limits.
- 2.b** 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.c** This 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 permittee shall burn only #2 diesel fuel oil in this emissions unit.
- 2. The maximum fuel oil usage for this emissions unit shall not exceed 79,400 gallons/year.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than #2 diesel fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the total quantity of fuel oil combusted in this emissions unit.
- 3. The permittee shall maintain annual records of the total amount, in gallons, of #2 diesel fuel oil employed in this emissions unit for the calendar year [summation of A.III.2 for each month of the calendar year].
- 4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05311 issued on May 28, 2002. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows this emissions unit employed a fuel other than #2 diesel 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 occurrence.
2. The permittee shall submit annual reports that specify the total amount, in gallons, of #2 fuel oil employed in this emissions unit for the calendar year. These reports shall be submitted by January 31 of each year and cover the previous calendar year.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent than the reporting requirements contained in PTI 14-05311 issued on May 28, 2002. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations and operational restrictions specified in Sections A.I.1 and A.II shall be determined by 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") and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b 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).

- 1.c 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 (10/96). The Ohio EPA revised the emission limitation specified in this 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).

V. Testing Requirements (continued)

- 1.d** Emission Limitations: 1.16 lbs of PE/hr and 1.16 lbs of PM10 emissions/hr; 1.69 TPY of PE, 1.69 TPY of PM10 emissions

Applicable Compliance Method: The hourly emission limitations are based upon the emissions unit's potential to emit and were established by multiplying the total heat input of 3.8 mmBtu/hr by the emission factor of 0.31 lb of PE/PM10 emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitations were established by multiplying the maximum annual fuel usage of 79,400 gallons/year, by the emission factor of 42.47 lbs/mgal (converted from 0.31 lb of PE/PM10 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

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: 1.09 lbs of SO2 emissions/hr; 1.58 TPY of SO2 emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the total heat input of 3.8 mmBtu/hr by the emission factor of 0.29 lb of SO2/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 79,400 gallons/year, by the emission factor of 39.73 lbs/mgal (converted from 0.29 lb of SO2 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the lb/hr emission limitation shall be demonstrated by Methods 1-4 and 6 of 40 CFR, Part 60, Appendix A.

- 1.f** Emission Limitations: 16.55 lbs of NOx emissions/hr; 23.99 TPY of NOx emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the total heat input of 3.8 mmBtu/hr by the emission factor of 4.41 lbs of NOx/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 79,400 gallons/year, by the emission factor of 604.11 lbs/mgal (converted from 4.41 lb of NOX emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 7 of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.g** Emission Limitations: 3.56 lbs of CO emissions/hr; 5.17 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 3.8 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 79,400 gallons/year, by the emission factor of 130.14 lbs/mgal (converted from 0.95 lb of CO emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

- 1.h** Emission Limitations: 1.35 lb of VOC emissions/hr; 1.96 TPY of VOC emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the total heat input of 3.8 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 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 79,400 gallons/year, by the emission factor of 49.32 lbs/mgal (converted from 0.36 lb of VOC emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

- 1.i** Material Usage Restriction: The maximum annual fuel oil usage for this emissions unit shall not exceed 79,400 gallons/year.

Applicable Compliance Method: Compliance with the #2 diesel fuel oil use restriction shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. Notice to Relocate a Portable Source
 - a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
 - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of thirty days prior to the scheduled relocation; and
 - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
 - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the permittee has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the permittee has provided 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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3.8 mmBtu/hr portable diesel engine
for the portable tire shredder

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: 4.2 MMBTU/hr Diesel Engine (for Portable Tire Shredder) (P013)
Activity Description: 4.2 MMBTU/hr Diesel Engine (< 600 HP for Portable Tire Shredder).

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>
4.2 mmBtu/hr portable diesel engine for the portable tire shredder	OAC rule 3745-31-05(A)(3) (PTI 14-05332)	1.3 lbs of particulate emissions (PE)/hr 1.3 lbs of particulate matter with a diameter of 10 microns or less in size (PM10 emissions)/hr 1.67 tons per year (TPY) of PE 1.67 TPY of PM10 emissions 1.22 lbs of sulfur dioxide (SO2) emissions/hr 1.56 TPY of SO2 emissions 18.52 lbs of nitrogen oxides (NOx) emissions/hr 23.73 TPY of NOx emissions 3.99 lbs of carbon monoxide (CO) emissions/hr; 5.11 TPY of CO emissions. 1.47 lbs of volatile organic compounds (VOC) emissions/hr; 1.88 TPY of VOC emissions. * The hourly emission limitations specified above are based upon the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B)(5).

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
		See Sections A.I.2.a and A.II below.
	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.I.2.b below.
		PE shall not exceed 0.310 lb/mmBtu actual heat input. See Section A.I.2.c below.
	OAC rule 3745-18-06(G)	Exempt, pursuant to OAC rule 3745-18-06(B).
	OAC rule 3745-23-06(B)	The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-05332.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of #2 fuel oil, fuel oil usage limitation and compliance with specified emission limits.
- 2.b** 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.c** This 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 permittee shall burn only #2 fuel oil in this emissions unit.
- 2. The maximum annual fuel oil usage for this emissions unit shall not exceed 79,448 gallons/year.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the total amount, in gallons, of #2 fuel oil combusted in this emissions unit.
- 3. The permittee shall maintain annual records of the total amount, in gallons, of #2 diesel fuel oil employed in this emissions unit for the calendar year [summation of A.III.2 for each month of the calendar year].

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

4. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-05332 issued on July 25, 2002. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows this emissions unit employed a fuel other than #2 diesel 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 occurrence.
2. The permittee shall submit annual reports that specify the total amount, in gallons, of #2 fuel oil employed in this emissions unit for the calendar year. These reports shall be submitted by January 31 of each year and cover the previous calendar year.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent the reporting requirements contained in PTI 14-05332 issued on July 25, 2002. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

1. Compliance with the emission limitations and operational restrictions specified in Sections A.I.1 and A.II shall be determined by 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") and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b 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).

- 1.c 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 (10/96). The Ohio EPA revised the emission limitation specified in this 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).

V. Testing Requirements (continued)

- 1.d** Emission Limitations: 1.3 lbs of PE/hr and 1.3 lbs of PM10 emissions/hr; 1.67 TPY of PE and 1.67 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 4.2 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 3.3-2 (10/96).

The annual emission limitations were established by multiplying the maximum annual fuel usage of 79,448 gallons/year, by the emission factor of 42.47 lbs/mgal (converted from 0.31 lb of PE/PM10 emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

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: 1.22 lbs of SO₂ emissions/hr; 1.56 TPY of SO₂ emissions

Applicable Compliance Method: The hourly emission limitation above is based upon the emissions unit's potential to emit and was established by multiplying the total heat input of 4.2 mmBtu/hr by the emission factor of 0.29 lb of SO₂/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 20,000 gallons/year, by the emission factor of 39.73 lbs/mgal (converted from 0.29 lb of SO₂ emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 6 of 40 CFR, Part 60, Appendix A.

- 1.f** Emission Limitations: 18.52 lbs of NO_x emissions/hr; 23.73 TPY of NO_x emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the total heat input of 4.2 mmBtu/hr by the emission factor of 4.41 lbs of NO_x/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 79,448 gallons/year, by the emission factor of 604.11 lbs/mgal (converted from 4.41 lb of NO_x emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

- 1.g** Emission Limitations: 3.99 lbs of CO emissions/hr; 5.11 TPY of CO emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the total heat input of 4.2 mmBtu/hr by the emission factor of 0.95 lb of CO/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 79,448 gallons/year, by the emission factor of 130.14 lbs/mgal (converted from 0.95 lb of CO emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3.1, Table 3.3-2 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.h** Emission Limitations: 1.47 lbs of VOC emissions/hr; 1.88 TPY of VOC emissions

Applicable Compliance Method: The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the total heat input of 4.2 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 (10/96).

The annual emission limitation was established by multiplying the maximum annual fuel usage of 79,448 gallons/year, by the emission factor of 49.32 lbs/mgal (converted from 0.36 lb of VOC emissions/mmBtu), and divided by 1 ton/2,000 lbs. This emission factor is specified in AP-42, Fifth Edition, Section 3.3, Table 3.3-1 (10/96).

If required, compliance with the hourly emission limitation shall be demonstrated by Methods 1-4 and 25 of 40 CFR Part 60, Appendix A.

- 1.i** Material Usage Restriction: The maximum annual fuel oil usage for this emissions unit shall not exceed 79,448 gallons/year.

Applicable Compliance Method: Compliance with the #2 diesel fuel oil use limitation of 79,448 gallons per year 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

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

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

ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;

iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of thirty days prior to the scheduled relocation; and

iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.

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

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

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

iii. the permittee has identified the proposed site to Ohio EPA;

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

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

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

vii. the permittee has provided Ohio EPA with fifteen days written notice of the relocation.

VI. Miscellaneous Requirements (continued)

- 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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4.2 mmBtu/hr portable diesel engine
for the portable tire shredder

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: Leachate Treatment Tank # 1 (P014)

Activity Description: Leachate Treatment Tank # 1- 25,000 Gallons (Previously reported as Z001)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be 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>
P016: 25,000 gallon wastewater aeration tank #1	OAC rule 3745-21-07(G)	Exempt, pursuant to the provisions of OAC rule 3745-21-07(G)(9)(c).

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

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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P016: 25,000 gallon wastewater
aeration tank #1

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: Solid Waste Disposal and Landfill Gas Generation (P902)

Activity Description: Solid Waste Disposal and Landfill Gas Generation (Previously reported as P002)

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>
MSW landfill equipped with active gas collection and control system (flare/landfill gas recovery for sale or use)	OAC rule 3745-31-05(A)(3) (PTI 14-05292)	<p>Emissions from the existing gas recovery plant (stack emissions) shall not exceed the following:</p> <p>Non-methane organic compound (NMOC) emissions shall not exceed 7.91 lbs/hr and 34.65 tons/yr.</p> <p>Carbon monoxide (CO) emissions shall not exceed 9.68 lbs/hour and 42.44 tons/yr.</p> <p>Particulate emissions (PE) shall not exceed 0.2 lb/hr and 0.86 ton/yr.</p> <p>Emissions of particulate matter less than 10 microns in diameter (PM10) shall not exceed 0.2 lb/hr and 0.86 ton/yr.</p> <p>Nitrogen oxides (NOx) emissions shall not exceed 1.5 lbs/hr and 6.66 tons/yr.</p> <p>Sulfur dioxide (SO2) emissions shall not exceed 1.62 lbs/hr and 7.11 tons/yr.</p> <p>Methane emissions shall not exceed 599 tons/yr.</p> <p>Hydrogen chloride (HCl) emissions shall not exceed 25.62 tons/yr.</p> <p>Hydrogen fluoride (HF) emissions shall not exceed 3.28 tons/yr.</p>

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

Fugitive (non stack) emissions from the existing emissions unit before the vertical and southern expansion shall not exceed the following:

Methane emissions shall not exceed 28,588 tons/yr.

Emissions from the new gas recovery plant and/or control device (stack emissions) shall not exceed the following:

NMOC emissions shall not exceed 3.83 lbs/hr and 16.79 tons/yr.

CO emissions shall not exceed 95.4 lbs/hr and 417.91 tons/yr.*

PE shall not exceed 7.3 lbs/hr and 31.87 tons/yr.

PM10 emissions shall not exceed 7.3 lbs/hr and 31.87 tons/yr.*

NOx emissions shall not exceed 26.0 lbs/hr and 113.83 tons/yr.*

SO2 emissions shall not exceed 6.7 lbs/hr and 29.3 tons/yr.

HCl emissions shall not exceed 10.3 lbs/hr and 45.18 tons/yr.

HF emissions shall not exceed 1.7 lbs/hr and 7.28 tons/yr.

Fluorotrichloromethane (CFC-11) emissions shall not exceed 0.02 ton/yr.*

Dichlorodifluoromethane (CFC-12) emissions shall not exceed 0.37 ton/yr.*

Methane emissions shall not exceed 1563 tons/yr.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
		<p>Fugitive (non-stack) emissions from this emissions unit shall not exceed the following:</p> <p>NMOC emissions shall not exceed 745.70 tons/yr.</p> <p>CO emissions shall not exceed 34.18 tons/yr.</p> <p>Particulate matter (PM) emissions shall not exceed 0.56 ton/yr.</p> <p>PM10 emissions shall not exceed 0.27 ton/yr.</p> <p>Methane emissions from both the vertical and southern expansion shall not exceed 45,029 tons/yr**.</p> <p>Hydrogen sulfide (H2S) emissions shall not exceed 10.47 tons/yr**.</p> <p>**The H2S emissions are fugitive.</p> <p>CFC-11 emissions shall not exceed 0.90 ton/yr.</p> <p>CFC-12 emissions shall not exceed 6.43 tons/yr.</p> <p>See Sections A.I.2.f, A.I.2.g, A.I.2.h, A.II.9, and A.II.19.</p> <p>The requirements of this rule also include compliance with the requirements of OAC Chapter 3745-20, OAC rules 3745-31-11 through 3745-31-20, and 3745-21-07(J)(2), 40 CFR Part 60, Subpart WWW, 40 CFR Part 61, Subpart M, and 40 CFR Part 63, Subpart AAAA.</p>
	OAC rules 3745-31-11 through 3745-31-20	The pollutant emission limitations asterisked above are subject to the requirements of these rules.
	40 CFR Part 60, Subpart WWW	See Sections A.I.2.b through A.I.2.e, A.I.2.m, A.II.1 through A.II.6 and A.II.10 through A.II.15.
	40 CFR Part 61, Subparts A and M and OAC Chapter 3745-20	All waste organic materials vented to an open flare shall be burned by a smokeless flare.
	OAC rule 3745-21-07(J)(2)	See Sections A.II.17 and A.II.18.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	40 CFR Part 63, Subpart AAAA OAC rules 3745-21-08(B) and 3745-23-06(B)	See Section A.I.2.a.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

2.b The active collection system shall satisfy the following requirements, as specified in 40 CFR Part 60.752(b)(2)(ii)(A):

- i. the system shall be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment;
- ii. the system shall collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active, or 2 years or more if closed or at final grade;
- iii. the system shall collect gas at a sufficient extraction rate; and
- iv. the system shall be designed to minimize off-site migration of subsurface gas.

2.c The permittee shall comply with either of the following:

- i. all landfill gas collected shall be routed to a control system designed and operated within the parameters demonstrated during the performance test to reduce non-methane organic compound (NMOC) emissions by 98%, by weight, or when an enclosed combustion device is used for control, to either reduce NMOC emissions by 98%, by weight, or reduce the outlet NMOC emission concentration to less than 20 parts per million (ppm), by volume, dry basis as hexane at 3% oxygen. The reduction efficiency or ppm, by volume, shall be established by an initial performance test to be completed no later than 180 days after initial startup of the approved new control system (control system for the southern expansion) using the test methods specified in 40 CFR Part 60.754(d). The term enclosed combustor shall include the thermal oxidizers (TOX) Units 1 and 2 at the Rumpke Recovery Plant.
- ii. Route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of 40 CFR Part 60.752(b)(2)(iii)(A) or (B).

2. Additional Terms and Conditions (continued)

- 2.d** The collection and control system may be capped or removed provided that all of the following conditions, as specified in 40 CFR Part 60.752(b)(2)(v), are met:
- i. the landfill shall be a closed landfill as defined in 40 CFR Part 60.751. A closure report shall be submitted to the Department of Environmental Services as provided in 40 CFR Part 60.757(d);
 - ii. the collection and control system shall have been in operation a minimum of 15 years; and
 - iii. following the procedures specified in 40 CFR Part 60.754(b), the calculated NMOC gas produced by the landfill shall be less than 55 tons per year on 3 successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.
- 2.e** The equipment that constitutes the gas collection and control system shall be properly maintained and kept in good operating condition at all times.
- 2.f** For all waste handling materials, except asbestos-containing materials:
- i. visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average; and
 - ii. use of reasonably available control measures, to minimize or eliminate the emissions of fugitive dust.
- 2.g** For Asbestos-Containing Material (ACM):
- i. there shall be no visible emissions; and
 - ii. use of handling procedures and control measures, to prevent the emissions of fugitive dust.
- 2.h** Visible particulate emissions from the stack serving the existing gas recovery plant shall not exceed 10% opacity, as a 6-minute average.
- Visible particulate emissions from the stack serving the new gas recovery shall not exceed 20% opacity, as a 6-minute average.
- 2.i** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the visible particulate emission limitations, a well designed and well operated landfill gas collection system and a control system capable of reducing NMOC in the collected gas by 98% or an outlet concentration of 20 ppmv hexane at 3% oxygen, reasonable available control measures to minimize or eliminate emissions of fugitive dust from solid waste disposal operations, compliance with 40 CFR Part 60, Subpart WWW, 40 CFR Part 61, Subpart M and 40 CFR Part 63, Subpart AAAA.
- 2.j** The hourly emission limitations are based upon the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting requirements are required to demonstrate compliance with these emission limitations.
- 2.k** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- 2.l** The application and enforcement of the provisions of the National Emission Standards for Hazardous Air Pollutants (NESHAP), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 61, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 61 are also federally enforceable.
- 2.m** There shall be no visible emissions from an open flare, except for periods not to exceed 5 minutes during any 2 consecutive hours.

II. Operational Restrictions

1. Whenever the enclosed combustor is in operation, the average combustion temperature shall be at least 1,400 degrees Fahrenheit, for any 3-hour block of time (or higher temperature needed to ensure a 98%, by weight, destruction of the NMOCs), measured by the temperature indicator.
2. The permittee shall operate the collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for 5 years or more if active, or for 2 years or more if closed or at final grade.
3. The permittee shall operate the collection system with negative pressure at each wellhead except under the following conditions:
 - a. a fire or increased well temperature (the permittee shall record all instances when positive pressure occurs in efforts to avoid a fire);
 - b. use of a geomembrane or synthetic cover (the permittee shall develop acceptable pressure limits in the design plan); or
 - c. decommissioned well (a well may experience a static positive pressure after shutdown to accommodate for declining flows). All design changes shall be approved by the Director of Ohio EPA.
4. The permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 65 degrees Celsius and with either a nitrogen level less than 20% or an oxygen level less than 5%. The permittee may establish a higher operating temperature, nitrogen level, or oxygen level at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.
5. The permittee shall operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill.
6. The permittee shall operate the collection system such that all collected gases are vented to a control system designed and operated in compliance with Section A.I.2.c. In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour.
7. Disposal Requirements for ACM:
 - a. there shall be no visible emissions from ACM during on-site transportation, transfer, unloading, deposition or compacting operations;
 - b. the permittee shall implement and maintain an "Asbestos Disposal Operating Procedure and Spill Contingency Plan" ("Plan") consisting of: authorized personnel training, inspection and disposal operating procedures, non-conforming load response procedures, inventory and maintenance procedures for safety and emission control equipment, record keeping procedures, and emergency notification procedures. Authorized personnel shall be knowledgeable in the procedures, and the Plan shall be available for inspection at this facility at all times.
 - c. the permittee shall inspect each load of ACM delivered to the facility. The inspection shall consist of a visual examination to ensure that each shipment of ACM is received in intact, leak-tight containers labeled with appropriate hazard warning labels, the name of the waste generator, and the location of waste generation. The inspection also shall determine whether the waste shipment records accompany the consignment and accurately describe the waste material and quantity.

If on the basis of the inspection, the waste material is found to be improperly received, the load shall be disposed of in accordance with the procedures in the "Asbestos Spill Contingency Plan," and the discrepancy shall be noted on the waste shipment record.
 - d. deposition and burial operations shall be conducted in a careful manner that prevents asbestos-containing waste materials from being broken up or dispersed before the materials are buried.

II. Operational Restrictions (continued)

e. The permittee shall establish restricted access, adequate to deter the unauthorized entry of the general public and any unauthorized personnel, within 100 feet of the unloading, deposition, and burial areas for the asbestos-containing waste materials. A hazard warning shall be displayed on signs not less than 20 x 14 inches in size, posted so they are visible before entering an area with asbestos waste disposal operations in progress; or, alternatively, mark vehicles used to transport asbestos-containing waste materials with 21 x 14 inch signs so that the signs are displayed in such a manner and location that a person can easily read the legend. Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

Legend:

ASBESTOS WASTE DISPOSAL SITE
DO NOT CREATE DUST
BREATHING ASBESTOS IS HAZARDOUS TO YOUR HEALTH

Notation

2.5 cm (1 inch) Sans Serif, Gothic or Block
2.5 cm (1 inch) Sans Serif, Gothic or Block
1.9 cm (3/4 inch) Sans Serif, Gothic or Block
14 Point Gothic

Spacing between any two lines must be at least equal to the height of the upper of the two lines.

8. The permittee shall cover and compact asbestos wastes in accordance with the following:
- as soon as practicable after the placement of friable asbestos, but no later than the end of each working day, the asbestos-containing waste materials deposited at the site during the operating day shall be covered with at least 12 inches of non-ACM. Once the ACM are covered, the area may be compacted;
 - care shall be taken to ensure that disposed asbestos shall not be re-excavated in subsequent operations. Any accidentally exposed material shall be immediately recovered in accordance with the provisions of condition [9a] above.
 - asbestos-containing waste materials shall be separated from the landfill final grade by no less than 24 inches of compacted non-asbestos-containing materials and a permanent cover of vegetation, or in accordance with current requirements for closure, whichever is more stringent.

Emission control equipment shall be available for wetting and containing asbestos in the event of a release or non-conforming load disposal. All equipment required to implement the Plan shall be maintained in accordance with good engineering practices to ensure that the equipment is in a ready-to-use condition and in an appropriate location for use.

9. The permittee shall ensure that solid wastes are deposited, spread and compacted in such a manner as to minimize or prevent visible emissions of dust. All truckloads of solid waste shall be unloaded in a manner which will minimize the drop height of the solid wastes. Any dusty materials or wastes likely to become airborne shall be watered as necessary prior to or during dumping operations in order to minimize or eliminate visible emissions of fugitive dust. Watering shall be conducted in such a manner as to avoid the pooling of liquids and runoff. No dusty material shall be dumped during periods of high wind speed, unless the material has been treated to prevent fugitive dust emissions from becoming airborne.
10. The permittee shall operate the recovery and treatment system at all times when the collected gas is routed to the system.
11. A pilot flame shall be maintained at all times in the flare's pilot light burner.
12. The permittee shall either burn the gas in an enclosed combustor and/or an energy recovery piece of equipment, as required above, or collect and sell the gas as fuel.
13. The collection system shall be designed to meet the requirements of 40 CFR Part 60.759.

II. Operational Restrictions (continued)

14. The permittee shall place each well or design component as specified in the approved design plan as provided in 40 CFR Part 60.752(b)(2)(i). Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:
 - a. five years or more if active; or
 - b. two years or more if closed or at final grade.
15. The permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.
16. There shall be no open burning in violation of OAC Chapter 3745-19.
17. The permittee shall develop a written startup, shutdown and malfunction plan and follow the requirements as outlined in 40 CFR Part 63.6 (e). This plan shall be developed by January 16, 2004 or upon reconstruction, whichever comes first and be maintained on site.
18. The permittee shall comply with the general provisions outlined in Table 1 of 40 CFR Part 63, Subpart AAAA.
19. The maximum amount of landfill waste (i.e., excluding composting raw material and unprocessed and/or shredded tires) received daily shall not exceed 10,000 tons.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the enclosed combustor when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. all 3-hour blocks of time during which the average combustion temperature within the enclosed combustor, when the emissions unit was in operation, was less than 1,400 degrees Fahrenheit; and
 - b. a log of the downtime for the capture (collection) system, control device and monitoring equipment when the associated emissions unit was in operation.
2. For the active gas collection system, the permittee shall install a sampling port and a thermometer, or other temperature measuring device, or an access port for temperature measurements at each wellhead and record the following information on a monthly basis:
 - a. the gauge pressure in the gas collection header at each individual well, in pounds per square inch;
 - b. the nitrogen or oxygen concentration in the landfill gas, in percent; and
 - c. The temperature of the landfill gas, in degrees Fahrenheit.

If a well exceeds one of the operating parameters specified in Sections A.II.3 and A.II.4, except as provided under 40 CFR Parts 60.753(b) and (c), action shall be initiated to correct the exceedances within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative time line for correcting the exceedance may be submitted to the Hamilton County Department of Environmental Services for approval.

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

3. The permittee shall either install, calibrate, maintain, and operate, according to the manufacturer's specifications, a device that records the flow to the enclosed combustor and/or flare, treatment system, and bypass stack, and collect and record the flow at least every 15 minutes; or

Secure the bypass line valve in the closed position with a car-seal or lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

4. The permittee shall maintain, for the life of the collection system, an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.
5. The permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity of the landfill, the current amount of solid waste in-place, and the year-to-year waste acceptance rate, and maximum expected gas generation flow rate. Off-site records may be maintained if they are retrievable within 4 hours. Either hardcopy or electronic formats are acceptable. These records, may be also required by the Ohio EPA, Division of Solid and Infectious Waste Management.
6. The permittee shall monitor surface concentrations of methane on a quarterly basis as follows:
- a. monitor surface concentrations of methane, in ppm along the entire perimeter of the collection area and along a pattern spaced 30 meters apart (or a site-specific established spacing) and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover for each collection area;
 - b. the background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells;
 - c. surface emission monitoring shall be performed in accordance with Section 4.3.1 of Method 21 of Appendix A of 40 CFR Part 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions; and
 - d. any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance and the actions specified below shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements listed in Section A.II:
 - i. the location of each monitored exceedance shall be marked and the location recorded;
 - ii. cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be remonitored within 10 calendar days of detecting the exceedance;
 - iii. if the remonitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the remonitoring shows a third exceedance for the same location, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding time line for installation may be submitted to the Ohio EPA for approval. No further monitoring of that location is required until the action specified has been taken.
 - iv. Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day remonitoring specified above shall be remonitored 1 month from the initial exceedance. If the 1-month remonitoring shows a concentration less than 500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month remonitoring shows an exceedance, the actions specified above shall be taken.
 - e. The monitor used shall meet the requirements of 40 CFR Part 60.755(c).

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

7. The permittee shall perform daily inspections to check for the presence of visible emissions from the open flare. The results of this inspection shall be collected and recorded in a log book along with the corrective actions taken to eliminate any visible emissions.
8. The permittee shall maintain records of the following information:
 - a. the waste shipment record form for each shipment of ACM; and
 - b. the location, depth and area, and quantity, in cubic yards, of all ACM within the disposal site, on a map or diagram of the disposal area.
9. The permittee shall require that all asbestos waste shipments received be accompanied by a waste shipment record. The waste shipment records shall include the following information:
 - a. the name of the work site or facility where the asbestos-containing waste was generated and the mailing address and telephone number of the facility owner;
 - b. the name, mailing address and telephone number of the owner or operator (waste generator) responsible for handling, packing, marking, and labeling the asbestos-containing waste material;
 - c. the name, mailing address, telephone number and site location of the active waste disposal site designated by the generator to receive the asbestos-containing waste material for disposal;
 - d. the name and address of the local, State or USEPA regional agency responsible for administering the asbestos NESHAP program;
 - e. a description of the asbestos-containing waste materials included in the waste shipment;
 - f. the number and type of containers included in the waste shipment;
 - g. the approximate volume of asbestos-containing waste material included in the waste shipment, in cubic yards;

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

- h. special handling instructions or additional information relative to the waste shipment the waste generator may specify;
- i. a certification that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations;
- j. the name, address and phone number of the transporter;
- k. signature by the transporter to acknowledge receipt of the asbestos-containing waste shipment described by the waste generator in Conditions 9a through 9i;
- l. a discrepancy indication space to be completed by the transporter or waste shipment owner or operator if any improperly contained asbestos waste is observed or if there is any discrepancy in the quantity of asbestos shipped and the quantity of asbestos waste received at the asbestos waste disposal site. Significant amounts of improperly contained waste shall be reported in writing to the Ohio EPA by the following working day. The report shall include a copy of the waste shipment.
- m. the name and telephone number of the disposal site operator.
- n. signature by the waste disposal site operator to acknowledge receipt of the asbestos-containing waste shipment described by the waste generator in conditions a through i above, except as noted in the discrepancy indication space; and
- o. the date of receipt.

The waste shipment record forms shall be retained at the facility for at least 2 years, and shall be made available for inspection upon request.

10. The permittee shall maintain the following information for the life of the control equipment (recovery and treatment system and/or flare) as measured during the initial performance test or compliance demonstration:

- a. the maximum expected gas generation flow rate, in cubic meters/year as calculated based on the following:
 - i. For sites with unknown year-to-year solid waste acceptance rate:

$$Q_m = 2L_o \times R \times \{(e \text{ to the power } -kc) - (e \text{ to the power } -kt)\}$$

where,

Q_m = maximum expected gas generation flow rate, cubic meters per year

L_o = methane generation potential, cubic meters per megagram solid waste

R = average annual acceptance rate, megagram per year

k = methane generation rate constant, per year

t = age of the landfill at equipment installation plus the time the owner or operator intends to use the gas mover equipment or active life of the landfill, whichever is less (If the equipment is installed after closure, t is the age of the landfill at installation), years

c = time since closure, years (for an active landfill $c = 0$ and $(e \text{ to the power } -kc) = 1$)

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

- ii. For sites with known year-to-year solid waste acceptance rate:

$Q_m = \text{Summation of } 2kLoM_i \times (e \text{ to the power } -kt_i \text{ for } i=1 \text{ through } i=n)$

where,

Q_m = maximum expected gas generation flow rate, cubic meters per year

k = methane generation rate constant, per year

Lo = methane generation potential, cubic meters per megagram solid waste

M_i = mass of solid waste in the i th section, in megagrams

t_i = age of the i th section, in years

iii. If a collection and control system has been installed, actual flow data may be used to project the maximum expected gas generation flow rate instead of, or in conjunction with, the equations in paragraphs A.III.10.a.i. and ii. If the landfill is still accepting waste, the actual measured flow data will not equal the maximum expected gas generation rate, so calculations using the equations in paragraphs A.III.10.i. or ii or other methods shall be used to predict the maximum expected gas generation rate over the intended period of use of the gas control system equipment. (The permittee may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Ohio EPA.).

b. The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 40 CFR Part 60.759(a)(1).

c. The flare type (i.e., steam-assisted, air-assisted, or non-assisted).

d. All visible emissions readings.

e. Heat content determinations of the gas.

f. Flow rate or bypass flow rate measurements.

g. Exit velocity determinations made during the performance test as specified in 40 CFR Part 60.18.

h. Continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the flare pilot flame or flare flame was absent.

11. The permittee shall properly install, operate, and maintain a device to continuously monitor the flare pilot flame when the emissions unit is in operation. The monitoring device and any recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall record the following information each day:

a. all periods during which there was no pilot flame; and

b. the downtime for the flare and monitoring equipment when the collection and control system was in operation.

12. Except as otherwise provided in this section, the permittee shall perform inspections of the landfill operation areas for visible emissions of fugitive dust in accordance with the following frequencies:

landfill areas: all landfill areas

minimum inspection frequency: once daily during normal operation

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

13. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures for fugitive dust emissions. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for a landfill operating 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 1 week.
14. 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.
15. 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.
16. The permittee shall maintain daily records of the amount of landfill waste (i.e., excluding composting raw material and unprocessed and/or shredded tires) received.
17. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above monitoring and record keeping requirements are as stringent as or more stringent the monitoring and record keeping requirements contained in Permit to Install (PTI) 14-5292 issued on June 10, 2004. The monitoring and record keeping requirements contained in the above-referenced PTI are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the PTI.

IV. Reporting Requirements

1. Any breakdown or malfunction of the landfill gas collection and control system resulting in the release of raw landfill gas emissions to the atmosphere shall be reported to the Hamilton County Department of Environmental Services within 1 hour after the occurrence, or as soon as reasonably possible, and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions to the atmosphere.
2. In the event of a potential emergency, such as a fire within the landfill, wells affected may be temporarily shut off, which could result in a positive gauge pressure. The Hamilton County Department of Environmental Services shall be notified within 1 working day of any shutdowns of any wells due to emergency only.

IV. Reporting Requirements (continued)

3. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
 - a. an identification of each month during which the gauge pressure in the gas collection header gave a positive pressure reading, and the actual gauge pressure reading for each such month;
 - b. an identification of each period during which the temperature in the enclosed combustor was less than 1,400 degrees Fahrenheit for any 3-hour blocks of time, and a copy of the recorded chart for each such period
 - c. an identification of each month during which the temperature and nitrogen or oxygen limitations specified in Section A.II.4 were exceeded;
 - d. an identification of each quarter during which the methane concentration measured at the surface of the landfill was greater than 500 ppm above the background levels;
 - e. all periods when the gas stream is diverted from the control device or recovery system through a bypass line or the indication of bypass flow or any record which indicates that the bypass line valve was not maintained in the closed position;
 - f. a listing of all periods when the collection system was not operating in excess of 5 days;
 - g. a listing of all days when visible emissions were present at the open flare and the corrective actions taken to eliminate the visible emissions;
 - h. 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;
 - i. each instance when a control measure that was to be implemented as a result of an inspection, was not implemented;
 - j. all periods of time during which the flare pilot flame was not present (the reports shall include the date, time, and duration of each such period); and
 - k. the description and duration of all periods when the recovery and treatment system was not operating for a period exceeding 1 hour and the length of time the recovery and treatment system was not operating.

Should a deviation occur, the deviation report shall include details sufficient to determine compliance with the time line provisions established under 40 CFR Part 60.755.

4. The permittee shall submit semi-annual reports that include any record indicating the date of installation and the location of each well or collection system expansion added pursuant to 40 CFR Parts 60.755(a)(3), (b), and (c)(4). The reports shall be submitted by January 31 and July 31 of each year.
5. The permittee shall submit a closure report to the Hamilton County Department of Environmental Services within 30 days of waste acceptance cessation. The Ohio EPA may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR Part 258.60. If a closure report has been submitted to the Ohio EPA, no additional wastes may be placed into the landfill without filing a notification of modification as described in 40 CFR Part 60.7(a)(4).
6. The permittee shall submit an equipment removal report to the Hamilton County Department of Environmental Services 30 days prior to removal or cessation of operation of the control equipment. The equipment removal report shall contain the information specified in 40 CFR Part 60.757(e)(1). The Ohio EPA may request additional information as may be necessary to verify that all of the conditions for removal in 40 CFR Part 60.752(b)(2)(v) have been met.

IV. Reporting Requirements (continued)

7. The permittee shall submit the following information with the initial performance test report required pursuant to 40 CFR Part 60.8:
 - a. a diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;
 - b. the data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;
 - c. the documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;
 - d. the sum of the gas generation flow rate for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area;
 - e. the provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and
 - f. the provisions for the control of off-site migration.
8. The permittee shall submit written notification to the Director and to the board of health having jurisdiction, and place a copy of the notification in the operating record, as to the actual date that the unit(s) of the sanitary landfill facility ceased to accept solid waste, in accordance with paragraph (E) of rule OAC rule 3745-27-11. Written notification shall be received by the Director by no later than 7 days after the date specified in the notification.
9. As soon as possible and no later than 30 days after receipt of the asbestos waste, the permittee shall send a copy of the signed waste shipment record to the waste generator.
10. The permittee shall submit quarterly reports summarizing the asbestos disposal activities. The reports shall contain the following information:
 - a. the name, address and location of the facility; the calendar period covered by the report, and any changes in the methods of storage or the disposal operations; and
 - b. a list of all asbestos-containing waste consignments received including: the date received, the name of the waste generator, the name and location of the facility where the load originated, the quantity of asbestos, and any discrepancy or non-conformity discovered.

The quarterly reports shall be submitted no later than January 31, April 30, July 31, and October 31 and shall cover the previous calendar quarters.
11. Upon discovering a discrepancy between the quantity of waste designated on a waste shipment record and the quantity actually received, the permittee shall attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the State, local, district, or USEPA regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the Hamilton County Department of Environmental Services. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
12. The permittee shall submit, upon closure of the facility, a copy of the records of the asbestos waste disposal locations and quantities.

IV. Reporting Requirements (continued)

13. The permittee shall notify the Hamilton County Department of Environmental Services in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. The following information shall be included in the notice:
 - a. scheduled starting and completion dates;
 - b. reason for disturbing the waste;
 - c. procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material; (If deemed necessary, the Director may require changes in the proposed emission control procedures); and
 - d. location of any temporary storage site and the final disposal site.
14. The permittee shall notify the Hamilton County Department of Environmental Services of any load of ACM which is rejected, or any non-conforming load disposed of in accordance with the "Asbestos Spill Contingency Plan." Notification shall be provided as soon as possible by a phone contact, followed in writing by the next working day. The written notification shall provide a copy of the waste shipment record ("WSR"), if available, or when waste is not shipped with a WSR, provide available information concerning vehicle identification, source of the load, a description of the load, nature of discrepancy, and the location of disposal. If possible, non-conforming loads of suspect friable material shall be detained, or the location of disposal protected from damage, until the Hamilton County Department of Environmental Services is informed and provided the opportunity to inspect.
15. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
 - a. each day during which an asbestos and/or non-asbestos material handling operation inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
16. As outlined in 40 CFR Part 63.1965, a deviation occurs when the control device operating parameter boundaries described in 40 CFR Part 60.758(c)(1) of Subpart WWW are exceeded. A deviation also 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.
17. A deviation occurs when a startup, shutdown, malfunction plan is not developed, implemented, or maintained on site.
18. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any daily record which shows that the amount of landfill waste (i.e., excluding composting raw material and unprocessed and/or shredded tires) received exceeded 10,000 tons. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the exceedance occurs.
19. All quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.
20. The permittee shall also submit annual reports that specify the total NMOC, CO, PE, PM10, NO_x, SO₂, HCl, HF, H₂S, methane, CFC-11, and CFC-12 emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

IV. Reporting Requirements (continued)

- 21.** Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the above reporting requirements are as stringent as or more stringent than the reporting requirements contained in PTI 14-5292 issued on June 10, 2004. The reporting requirements contained in the above-referenced PTI are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the PTI.

V. Testing Requirements

- 1.** Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):

- 1.a** Emission Limitation: no visible emission limitation from an open flare

Applicable Compliance Method: Compliance with the no visible emission limitation from an open flare shall be determined through visible emissions observations performed in accordance with Method 22 of 40 CFR Part 60, Appendix A.

- 1.b** Emission Limitation: Control efficiency of 98%, by weight, or reduce the outlet NMOC emission concentration to less than 20 ppm.

Applicable Compliance Method: Emission testing (see Section A.V.3) using the following test methods to demonstrate compliance:

for NMOC - Methods 1 through 4 and 25, 25C or 18, as appropriate, of 40 CFR Part 60, Appendix A

(Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.)

- 1.c** The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. the emission testing shall be conducted within 6 months after startup of the new gas recovery plant and/or control system for the Southern Expansion area;

ii. the emission testing shall be conducted to demonstrate compliance with the PE, NO_x, CO, HCl, and NMOC stack emission limitations specified in Section A.I.1 of these terms;

iii. the following test methods shall be employed to demonstrate compliance with the emission limitations:

for PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A;

for NO_x, Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A;

for CO, Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A;

for HCl, Methods 1 through 4 and 26 of 40 CFR Part 60, Appendix A;

for NMOC, Methods 1 through 4 and 25, 25C or Method 18, as appropriate, of 40 CFR Part 60, Appendix A; Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA; and

iv. the tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Hamilton County Department of Environmental Services refusal to accept the results of the emission test(s).

Personnel from the Hamilton County Department of Environmental Services shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services.

- 1.d** The nitrogen level shall be determined using Method 3C of 40 CFR Part 60, Appendix A, unless an alternative test method is established, as allowed by 40 CFR Part 60.752(b)(2)(i).
- 1.e** The oxygen level shall be determined by an oxygen meter using Method 3A or 3C of 40 CFR Part 60, Appendix A, unless an alternative test method is established, as allowed by 40 CFR Part 60.752(b)(2)(i), except that:
 - i. the span shall be set so that the regulatory limit is between 20% and 50% of the span;
 - ii. a data recorder is not required;
 - iii. only 2 calibration gases are required, a zero and span, and ambient air may be used as the span;
 - iv. a calibration error check is not required; and
 - v. the allowable sample bias, zero drift, and calibration drift are plus or minus 10%.
- 1.f** After the installation of a collection and control system in compliance with 40 CFR Part 60.755, the permittee shall calculate the NMOC emission rate for the purposes of determining when the system can be removed as provided in 40 CFR Part 60.752(b)(2)(v) in accordance with the equation and procedures specified in 40 CFR Parts 60.754(b), (b)(1), and (b)(2). The permittee may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Ohio EPA, as provided in 40 CFR Part 60.752(b)(2)(i)(B).
- 1.g** The flow rate of landfill gas, Qlfg, shall be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control device using a gas flow measuring device calibrated according to the provisions of section 4 of Method 2E of Appendix A of 40 CFR Part 60.
- 1.h** The average NMOC concentration, Cnmoc, shall be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving or condensate removal equipment using the procedures in Method 25, 25C or 18, as appropriate, of Appendix A of 40 CFR Part 60. If using Method 18 of Appendix A of 40 CFR Part 60, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The sample location on the common header pipe shall be before any condensate removal or other gas refining units. The permittee shall divide the NMOC concentration from Method 25C of Appendix A of 40 CFR Part 60 by 6 to convert from Cnmoc as carbon to Cnmoc as hexane.
- 1.i** The permittee may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Director.

V. Testing Requirements (continued)

- 1.j** Emission Limitation: Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method: If required, compliance with this emission limitation shall be determined through visible emissions observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A.

- 1.k** Emission Limitation: Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method: If required, compliance with this emission limitation shall be determined through visible emissions observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A.

- 1.l** Emission Limitation: No visible emissions from asbestos-containing materials.

Applicable Compliance Method: If required, compliance with this emission limitation shall be determined through visible emissions observations performed in accordance with Method 22 of 40 CFR Part 60, Appendix A.

- 1.m** Emission Limitations: Emissions from the existing gas recovery plant (stack emissions) shall not exceed the following:

NMOC emissions shall not exceed 7.91 lbs/hr and 34.65 tons/yr;

CO emissions shall not exceed 9.68 lbs/hour and 42.44 tons/yr;

PE shall not exceed 0.2 lb/hr and 0.86 ton/yr;

emissions of PM10 shall not exceed 0.2 lb/hr and 0.86 ton/yr;

NOx emissions shall not exceed 1.5 lbs/hr and 6.66 tons/yr; and

SO2 emissions shall not exceed 1.62 lbs/hr and 7.11 tons/yr.

Applicable Compliance Methods: If required, compliance with the hourly emission limitations shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, 18, 25 or 25C, 10, 5, 7, and 6 for NMOC, CO, PE, NOx, and SO2, respectively, and 40 CFR Part 51, Appendix M, Method 201, for PM10. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitations were established by multiplying the hourly emission limitations by 8,760 and dividing by 2,000 lbs/ton. Therefore, provided that the permittee complies with the hourly emission limitations compliance with the annual emission limitations will also be demonstrated.

- 1.n** Emission Limitations: Emissions from the existing gas recovery plant (stack emissions) shall not exceed the following:

methane emissions shall not exceed 599 tons/yr;

hydrogen chloride (HCl) emissions shall not exceed 25.62 tons/yr; and

hydrogen fluoride (HF) emissions shall not exceed 3.28 tons/yr;

Applicable Compliance Method: Compliance with these emission limitations shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in PTI application 14-05302 (April 8, 2002). The emission factors used were USEPA's Landfill Gas Emissions Model along with AP-42 Section 2.4 dated 11/98.

V. Testing Requirements (continued)

- 1.o** Emission Limitations: Emissions from the new gas recovery plant and/or control system (stack emissions) shall not exceed the following:

NMOC emissions shall not exceed 3.83 lbs/hr and 16.79 tons/yr;

CO emissions shall not exceed 95.4 lbs/hr and 417.91 tons/yr *;

PE shall not exceed 7.3 lbs/hr and 31.87 tons/yr;

NO_x emissions shall not exceed 26.0 lbs/hr and 113.83 tons/yr *; and

HCl emissions shall not exceed 10.3 lbs/hr and 45.18 tons/yr.

Applicable compliance Methods: Compliance with the hourly emission limitations shall be demonstrated through the emission testing requirements specified in Section A.V.3 above.

The annual emission limitations were established by multiplying the hourly emission limitations by 8,760 and dividing by 2,000 lbs/ton. Therefore, provided that the permittee complies with the hourly emission limitations compliance with the annual emission limitations will also be demonstrated.

- 1.p** Emission Limitations: Emissions from the new gas recovery plant and/or control system (stack emissions) shall not exceed the following:

PM₁₀ emissions shall not exceed 7.3 lbs/hr and 31.87 tons/yr.*;

SO₂ emissions shall not exceed 6.7 lbs/hr and 29.3 tons/yr;

HF emissions shall not exceed 1.7 lbs/hr and 7.28 tons/yr;

methane emissions shall not exceed 1563 tons/yr;

CFC-11 emissions shall not exceed 0.02 ton/yr*; and

CFC-12 emissions shall not exceed 0.37 ton/yr*.

Applicable Compliance Method: If required, compliance with the hourly emission limitations shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6, and 13 for SO₂, and HF respectively, and 40 CFR Part 51, Appendix M, Method 201 for PM₁₀. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitations were established by multiplying the hourly emission limitations by 8,760 and dividing by 2,000 lbs/ton. Therefore, provided that the permittee complies with the hourly emission limitations compliance with the annual emission limitations will also be demonstrated.

Applicable Compliance Method: Compliance with the annual methane, CFC-11, and CFC-12 emission limitations shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in PTI application 14-05292 submitted March 19, 2002. The emission factors used were USEPA's Landfill Gas Emissions Model along with AP-42 Section 2.4 dated 11/98.

V. Testing Requirements (continued)

1.q Emission Limitations: Fugitive emissions from this emissions unit shall not exceed the following:

NMOC emissions shall not exceed 745.70 tons/yr;

CO emissions shall not exceed 34.18 tons/yr;

PE emissions shall not exceed 0.56 ton/yr;

PM10 emissions shall not exceed 0.27 ton/yr;

H2S emissions shall not exceed 10.47 tons/yr;

CFC-11 emissions shall not exceed 0.90 ton/yr;

CFC-12 emissions shall not exceed 16.43 tons/yr;

methane emissions before the vertical and southern expansion shall not exceed 28,588 tons/yr; and

methane emissions from both the vertical and southern expansion shall not exceed 45,029 tons/yr.

Applicable Compliance Method: Compliance with these emission limitations shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in PTI application 14-05292 submitted March 19, 2002, and PTI application 14-05302 (April 8, 2002). The emission factors used were USEPA's Landfill Gas Emissions Model along with AP-42 Section 2.4 dated 11/98.

VI. Miscellaneous Requirements

2. The following terms and conditions in this Permit to Install will become effective upon commencement of construction of the phase of the Vertical Expansion that increases the capacity of the landfill above the permitted limitation in PTI 05-3567, as issued on February 17, 1994:

Part III.A.I.2.f and h, III.A.III.12-15, III.A.IV.3.h and i, III.A.IV.15, III.A.V.10, III.A.V.11.

Commencement of construction is defined as placing of additional soil liner in the phase of the Vertical Expansion that increases the capacity of the landfill above the permitted limitation in PTI 05-3567 as issued on February 17, 1994.

The following terms and conditions in this Permit to Install will become effective upon commencement of construction of the first phase of the Southern Expansion as outlined in PTI application 14-05292:

Sections A.I.1 (emissions from the new gas recovery plant only), A.I.2.a, A.I.2.h, A.II.19, A.IV.18, A.IV.20 and A.V.15 through A.V.17 (emissions from the new gas recovery plant only)

Commencement of construction is defined as placement of the additional soil liner in the first phase of the Southern Expansion.

3. Nothing in Section A.VI.2 shall prohibit the permittee from complying with the requirements of OAC rule 3745-31-06.

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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MSW landfill equipped with active gas collection and control system (flare/landfill gas recovery for sale or use)

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

Facility Name:
Facility ID:
Emissions Unit:

Facility Name:
Facility ID:
Emissions Unit:

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