



3/13/2015

Certified Mail

John Butler
Rumpke Sanitary Landfill, Inc.
10795 Hughes Road
Cincinnati, OH 45251-4598

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 1431092049
Permit Number: P0118389
Permit Type: Administrative Modification
County: Hamilton

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Southwest Ohio Air Quality Agency at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Erica R. Engel-Ishida, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA
SWOAQA; Indiana; Kentucky



FINAL

**Division of Air Pollution Control
Permit-to-Install**

for

Rumpke Sanitary Landfill, Inc.

Facility ID:	1431092049
Permit Number:	P0118389
Permit Type:	Administrative Modification
Issued:	3/13/2015
Effective:	3/13/2015



Division of Air Pollution Control
Permit-to-Install
for
Rumpke Sanitary Landfill, Inc.

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Authorization

Facility ID: 1431092049
Facility Description: municipal solid waste landfill
Application Number(s): M0003218, M0003222, M0003224, M0003225, M0003253
Permit Number: P0118389
Permit Description: Administrative Modifications of PTIs 14-05382, P0106726, P0110093, and 14-06010 for Emissions Units F004, F012, F013, F014, F016, F017, and F018, respectively, to correct record keeping requirements for the existing daily and annual emission limitations.
Permit Type: Administrative Modification
Permit Fee: \$3,325.00
Issue Date: 3/13/2015
Effective Date: 3/13/2015

This document constitutes issuance to:

Rumpke Sanitary Landfill, Inc.
10795 Hughes Road
Cincinnati, OH 45251-4598

of a Permit-to-Install for the emissions unit(s) identified on the following page.

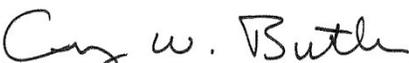
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219
(513)946-7777

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Craig W. Butler
Director



Authorization (continued)

Permit Number: P0118389

Permit Description: Administrative Modifications of PTIs 14-05382, P0106726, P0110093, and 14-06010 for Emissions Units F004, F012, F013, F014, F016, F017, and F018, respectively, to correct record keeping requirements for the existing daily and annual emission limitations.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	F004
Company Equipment ID:	Mineral Extraction
Superseded Permit Number:	14-05382
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F012
Company Equipment ID:	Unit #215 (F012)
Superseded Permit Number:	P0106726
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F013
Company Equipment ID:	Unit #80053 (F013)
Superseded Permit Number:	P0106726
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F014
Company Equipment ID:	Composting Storage Piles
Superseded Permit Number:	P0110093
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F016
Company Equipment ID:	Unit #81733 (F016)
Superseded Permit Number:	14-06010
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F017
Company Equipment ID:	Unit #81734 (F017)
Superseded Permit Number:	14-06010
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F018
Company Equipment ID:	Storage Piles
Superseded Permit Number:	14-06010
General Permit Category and Type:	Not Applicable



Final Permit-to-Install
Rumpke Sanitary Landfill, Inc.
Permit Number: P0118389
Facility ID: 1431092049
Effective Date: 3/13/2015

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) 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.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they 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 and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

- a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.



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

4. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Southwest Ohio Air Quality Agency.



- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Southwest Ohio Air Quality Agency. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
 - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the Southwest Ohio Air Quality Agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

5. Scheduled Maintenance/Malfunction Reporting

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

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

6. Compliance Requirements

- a) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the appropriate Ohio EPA District Office or contracted



local air agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) 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.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) 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 Southwest Ohio Air Quality 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:
 - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) 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.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.



8. 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.

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s) not exempt from the requirement to obtain a Permit-to-Install.

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the



Director within a reasonable time before the termination date and the permittee shows good cause for any such extension.

- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit 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) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit 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). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

Unless otherwise exempted, no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d) must be obtained before operating the source in a manner that would violate the existing Title V permit requirements.



13. Construction Compliance Certification

The applicant shall identify the following dates in the "Air Services" facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

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

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

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

16. Fees

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

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in "Air Services" once the transfer is legally completed. The change must be submitted through "Air Services" within thirty days of the ownership transfer date.

18. Risk Management Plans

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

19. 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.



Final Permit-to-Install
Rumpke Sanitary Landfill, Inc.
Permit Number: P0118389
Facility ID: 1431092049
Effective Date: 3/13/2015

B. Facility-Wide Terms and Conditions



Final Permit-to-Install
Rumpke Sanitary Landfill, Inc.
Permit Number: P0118389
Facility ID: 1431092049
Effective Date: 3/13/2015

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.



Final Permit-to-Install
Rumpke Sanitary Landfill, Inc.
Permit Number: P0118389
Facility ID: 1431092049
Effective Date: 3/13/2015

C. Emissions Unit Terms and Conditions



1. F004, Mineral Extraction

Operations, Property and/or Equipment Description:

Mineral Extraction

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	PE shall not exceed 106.52 pounds per day. PE shall not exceed 0.21 pound per hour from the exhaust stack of the drilling operation. PE shall not exceed 16.96 TPY. PM ₁₀ emissions shall not exceed 54.47 pounds per day. PM ₁₀ emissions shall not exceed 8.68 TPY. Visible particulate emissions from any fugitive dust emission point shall not exceed 20% opacity as a three-minute average. See b)(2)a., b)(2)b., b)(2)c., c)(1), and c)(2). The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by rule.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-07(B)	Exempt. See b)(2)d.
d.	OAC rule 3745-17-08(B)	Exempt. See b)(2)e.
e.	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

- a. Emissions from the drilling of blast holes shall be vented to a multiclone followed by a baghouse with 99% control efficiency.
- b. The drop height shall be minimized during the load out operation of blasted material.
- c. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a multiclone 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.
- d. This emissions unit is exempt from the visible emissions limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
- e. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

c) 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.

d) Monitoring and/or Recordkeeping 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 annual records of the following information for this emissions unit:
 - a. the amount, in tons, of aggregate loaded out [summation of d)(1)a. for the calendar year];
 - b. the number of holes drilled [summation of d)(1)b. for the calendar year]; and
 - c. the number of blasts [summation of d)(1)c. for the calendar year].
- (3) 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 stack serving this emissions unit (baghouse exhaust). The presence or absence of any 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 emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

e) 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 the reporting requirements of the Standard Terms and Conditions of this permit.



- (2) The permittee shall submit quarterly written reports that:
 - a. identify all days during which abnormal visible particulate emissions were observed escaping from the baghouse exhaust; and
 - b. describe any corrective actions taken to eliminate the abnormal visible particulate emissions.

These quarterly reports shall be submitted to the Southwest Ohio Air Quality Agency 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. This reporting requirement may be satisfied by including and identifying the specific production data for this emissions unit in the annual Fee Emission Report.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations:

PE shall not exceed 106.52 lbs/day.

PE shall not exceed 16.96 TPY.

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 (fugitive): 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 0.000842 lb/ton = 20.21 lbs/day of PE
 blasting: 3 blasts/day x 25.72 lbs/blast = 77.16 lbs/day of PE

Total = 106.52 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 multiclone and baghouse (i.e., 99%)



Compliance with the daily PE limitation shall be determined by the record keeping requirements specified in d)(1).

The annual PE limitation was established by the following methodology:

$(A) \times (B) \times (C) / 2000 = \text{annual PE (for each operation)}$

drilling (fugitive): $50,000 \text{ holes/yr} \times 0.044 \text{ lb/hole} = 2,200 \text{ lbs/yr}$
drilling (stack): $50,000 \text{ holes/yr} \times 0.176 \text{ lb/hole} \times 0.01 = 88 \text{ lbs/yr}$
loading: $7,020,000 \text{ tons/yr} \times 0.000842 \text{ lb/ton} = 5910.84 \text{ lbs/yr}$
blasting: $1,000 \text{ blasts/yr} \times 25.72 \text{ lbs/blast} = 25,720 \text{ lbs/yr}$

Total = $33,918.8 \text{ lbs of PE/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 16.96 \text{ TPY of PE}$

where:

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

B = emission factor*

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

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

*emission factors provided by the permittee in the application for PTI 14-05382, submitted 11/8/2002, as follows:

Drilling (fugitive): PE from AP-42, Fifth Edition, Chapter 11.9, (October, 1998), PM₁₀ assumed to be 50% of PE;

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

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

Loading: PE and PM₁₀ emissions from AP-42, Fifth Edition, Chapter 13.2.4, (November, 2006).

b. Emission Limitation:

PE shall not exceed 0.21 pound per hour from the exhaust stack of the drilling operation.

Applicable Compliance Method:

The hourly PE limitation was established by the following methodology:

$120 \text{ holes/hr} \times 0.176 \text{ lbs of PE/hole} \times 0.01 \text{ (i.e., 99% control)}$



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.

c. Emission Limitations:

PM₁₀ emissions shall not exceed 54.47 lbs/day.

PM₁₀ emissions shall not exceed 8.68 TPY.

Applicable Compliance Method:

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

$(A) \times (B) \times (C) = \text{daily PM}_{10}$ (for each operation)

drilling (fugitive): 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 = 9.6 lbs/day of PM₁₀
blasting: 3 blasts/day x 13.374 lbs/blast = 40.12 lbs/day of PM₁₀

Total = 54.47 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 multiclone and baghouse (i.e., 99%)

Compliance with the daily PM₁₀ limitation shall be determined by the record keeping requirements specified d)(1).

The annual PM₁₀ limitation was established by the following methodology:

$(A) \times (B) \times (C) / 2000 = \text{annual PM}_{10}$ (for each operation)

drilling (fugitive): 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 = 2808 lbs/yr
blasting: 1,000 blasts/yr x 13.37 lbs/blast = 13,370 lbs/yr

Total PM₁₀ = 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 multiclone and baghouse (i.e., 99%)



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

*emission factors provided by the permittee in the application for PTI 14-05382, submitted 11/8/2002, as follows:

- Drilling (fugitive): PE from AP-42, Fifth Edition, Chapter 11.9, (October, 1998), PM₁₀(fugitive) assumed to be 50% of PE;
- Drilling (stack): PE from AP-42, Fifth Edition, Chapter 11.9, (October, 1998), PM₁₀ assumed to be equal to PE;
- Blasting: PE and PM₁₀ emissions from AP-42, Fifth Edition, Chapter 11.9, (October, 1998); and
- Loading: PE and PM₁₀ emissions from AP-42, Fifth Edition, Chapter 13.2.4, (November, 2006).

d. Emission Limitation:

Visible particulate emissions from any fugitive dust emission point shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

No visible emissions observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

e. Emission Limitation:

Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

No visible emissions observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

g) Miscellaneous Requirements

- (1) None.



2. F012, Unit #215 (F012)

Operations, Property and/or Equipment Description:

75 tons/hr Portable Tub Grinder

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	PE shall not exceed 1.51 pounds per hour and 0.60 TPY. PM ₁₀ emissions shall not exceed 0.83 pound per hour and 0.33 TPY. See b)(2)b.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)c.
c.	OAC rule 3745-31-05(F)	See c)(1).
d.	OAC rule 3745-17-07(B)(1) (applicable only if this portable emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	Visible particulate emissions from any fugitive dust emissions point shall not exceed 20% opacity as a three-minute average. See g)(2).
e.	OAC rule 3745-17-08(B) (applicable only if this portable emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	See b)(2)a. and g)(2).

(2) Additional Terms and Conditions

a. The permittee shall employ reasonably available control measures for the above-identified material handling operation for the purpose of ensuring compliance with



the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee shall maintain the moisture content of material, which may include watering. Nothing in this paragraph shall prohibit the permittee from employing other equally effective control measures to ensure compliance.

- b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by 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 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.
- c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM₁₀ emissions from this air contaminant source since the uncontrolled potential to emit for PE and PM₁₀ emissions is less than ten tons per year.

This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

c) Operational Restrictions

- (1) The maximum annual material throughput rate for this emissions unit shall not exceed 60,000 tons/year.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of the material handling operations in accordance with the following frequencies:

<u>Material Handling Operation</u>	<u>Minimum Inspection Frequency</u>
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75 tons/hr portable tub grinder	once daily during operation
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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 operating conditions. No inspection shall be necessary for this material handling operation if the material used in this operation 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.



- (3) The permittee may, upon receipt of written approval from the Southwest Ohio Air Quality Agency, 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 daily 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 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.

The information required in d)(4)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (5) The permittee shall maintain annual records of the total amount of material throughput for this emissions unit for the calendar year, in tons.

e) 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 Special Terms and Conditions of this permit.

- (2) The permittee shall submit annual reports that specify the total amount of material throughput for this emissions unit, in tons and the total PE and PM₁₀ emissions from this emissions unit for the previous calendar year, in tons. 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.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:



a. Emission Limitations:

PE shall not exceed 1.51 lbs/hr and 0.60 TPY.

PM₁₀ emissions shall not exceed 0.83 lb/hr and 0.33 TPY.

Applicable Compliance Method:

Lbs/hr PE = (A) X (C);

Lbs/hr PM₁₀ = (A) x (C);

TPY of PE = (A) x (B) x 1 ton/2,000 lbs; and

TPY of PM₁₀ = (A) x (B) x 1 ton/2,000 lbs.

where:

A = PE or PM₁₀ emission factor, lb/ton, as calculated from AP-42 Section 13.2.4, (November, 2006) and USEPA's FIRE Version 6.23. See emission calculations detailed in PTI application #14-05916 for specific emission factors (load-in, grinding, transfer, etc.).

B = 60,000 (maximum annual material throughput, in tons).

C = maximum hourly throughput, in tons.

[Authority for term: OAC 3745-31-05(F), 3745-31-05(A)(3), and 3745-77-07(C)(1)]

b. Emission Limitation:

Visible particulate emissions from any fugitive dust emission point shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

No visible emissions observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

g) Miscellaneous Requirements

- (1) At the discretion and following the approval of the Director (the appropriate Ohio EPA District Office or local air agency), the permittee may relocate the portable source within the State of Ohio without first obtaining a permit-to-install and operate (PTIO) or a permit-to-install (PTI), providing the appropriate notification and exemption requirements



have been met for portable emissions units as specified in OAC rule 3745-31-03(A)(1) or OAC rule 3745-31-05(H), and any subsequent revisions of these OAC rules, as applicable.

- (2) The requirements outlined in OAC rule 3745-17-07(B)(1) and OAC rule 3745-17-08(B) which include terms and conditions b)(1)d., b)(1)e., b)(2)a., d)(1)-d)(4), e)(1) and f)(1)b. are only applicable when this emissions unit is located in an Appendix A area as outlined in OAC rule 3745-17-08.



3. F013, Unit #80053 (F013)

Operations, Property and/or Equipment Description:

50 tons/hr Portable Screener

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	PE shall not exceed 1.01 pounds per hour and 0.60 TPY. PM ₁₀ emissions shall not exceed 0.56 pound per hour and 0.33 TPY. See b)(2)b.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)c.
c.	OAC rule 3745-31-05(F)	See c)(1).
d.	OAC rule 3745-17-07(B)(1) (applicable only if this portable emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	Visible particulate emissions from any fugitive dust emissions point shall not exceed 20% opacity as a three-minute average. See g)(2).
e.	OAC rule 3745-17-08(B) (applicable only if this portable emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	See b)(2)a. and g)(2).

(2) Additional Terms and Conditions

a. The permittee shall employ reasonably available control measures for the above-identified material handling operation for the purpose of ensuring compliance with



the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee shall maintain the moisture content of material, which may include watering. Nothing in this paragraph shall prohibit the permittee from employing other equally effective control measures to ensure compliance.

- b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by 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 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.
- c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM₁₀ emissions from this air contaminant source since the uncontrolled potential to emit for PE and PM₁₀ emissions is less than ten tons per year.

This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

c) Operational Restrictions

- (1) The maximum annual material throughput rate for this emissions unit shall not exceed 60,000 tons/year.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of the material handling operations in accordance with the following frequencies:

<u>Material Handling Operation</u>	<u>Minimum Inspection Frequency</u>
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50 tons/hr portable screener	once daily during operation
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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 operating conditions. No inspection shall be necessary for this material handling operation if the material used in this operation 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.



- (3) The permittee may, upon receipt of written approval from the Southwest Ohio Air Quality Agency, 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 daily 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 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.

The information required in d)(4)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (5) The permittee shall maintain annual records of the total amount of material throughput for this emissions unit for the calendar year, in tons.

e) 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 Special Terms and Conditions of this permit.

- (2) The permittee shall submit annual reports that specify the total amount of material throughput for this emissions unit, in tons, 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.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations:

PE shall not exceed 1.01 lbs/hr and 0.60 TPY.



PM₁₀ emissions shall not exceed 0.56 lb/hr and 0.33 TPY.

Applicable Compliance Method:

Lbs/hr PE = (A) X (C);

Lbs/hr PM₁₀ = (A) x (C);

TPY of PE = (A) x (B) x 1 ton/2,000 lbs; and

TPY of PM₁₀ = (A) x (B) x 1 ton/2,000 lbs.

where:

A = PE or PM₁₀ emission factor, lb/ton, as calculated from AP-42 Section 13.2.4, (November, 2006) and USEPA's FIRE Version 6.23. See emission calculations detailed in PTI application #14-05916 for specific emission factors (load-in, screening, transfer, etc.).

B = 60,000 (maximum annual material throughput, in tons).

C= maximum hourly throughput, in tons.

[Authority for term: OAC 3745-31-05(F), 3745-31-05(A)(3), and 3745-77-07(C)(1)]

b. Emission Limitation:

Visible particulate emissions from any fugitive dust emission point shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

No visible emissions observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

g) Miscellaneous Requirements

- (1) At the discretion and following the approval of the Director (the appropriate Ohio EPA District Office or local air agency), the permittee may relocate the portable source within the State of Ohio without first obtaining a permit-to-install and operate (PTIO) or a permit-to-install (PTI), providing the appropriate notification and exemption requirements have been met for portable emissions units as specified in OAC rule 3745-31-03(A)(1) or OAC rule 3745-31-05(H), and any subsequent revisions of these OAC rules, as applicable.



Final Permit-to-Install
Rumpke Sanitary Landfill, Inc.
Permit Number: P0118389
Facility ID: 1431092049
Effective Date: 3/13/2015

- (2) The requirements outlined in OAC rule 3745-17-07(B)(1) and OAC rule 3745-17-08(B) which include terms and conditions b)(1)d., b)(1)e., b)(2)a., d)(1)-d)(4), e)(1) and f)(1)b. are only applicable when this emissions unit is located in an Appendix A area as outlined in OAC rule 3745-17-08.



4. F014, Composting Storage Piles

Operations, Property and/or Equipment Description:

Composting Operation Storage Piles

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	PE shall not exceed 1.07 TPY. PM ₁₀ shall not exceed 0.53 TPY. See b)(2)b.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)c.
c.	OAC rule 3745-31-05(F)	See b)(2)c., c)(1), c)(2), and c)(3).
d.	OAC rule 3745-17-07(B)(6)	Exempt. See b)(2)d.
e.	OAC rule 3745-17-08(B)	Exempt. See b)(2)e.

(2) Additional Terms and Conditions

a. The storage piles that are covered by this permit and subject to the above mentioned requirements are listed below:

composting storage piles (windrows) containing composting materials with similar characteristics

b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by 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 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.

- c. Permit to Install #P0118389 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) under OAC rule 3745-31-05(A)(3):
 - i. for PE and PM₁₀ emissions: the permittee shall limit the load-in, load-out and compost storage pile and windrow surface area to the amounts specified in c)(1), c)(2) and c)(3) below.

This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

- d. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
- e. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

c) Operational Restrictions

- (1) The maximum annual compost storage piles and windrows incoming material load-in for this emissions unit shall not exceed 60,000 tons.
- (2) The maximum annual final product load-out for this emissions unit shall not exceed 90,000 tons.
- (3) The maximum exposed compost storage pile and windrow surface area shall not exceed 4.26 acres.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain annual records of the total amount of incoming material throughput (load-in), final product throughput (load-out) and the calculated compost storage pile and windrow exposed surface area in this emissions unit.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation reports that identify any of the following occurrences:



- a. any exceedance of the exposed compost storage pile and windrow surface area limitation of 4.26 acres.

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

- (2) The permittee shall submit annual reports that specify the total amount of incoming material throughput (load-in) in tons, final product throughput (load-out) in tons, and exposed compost storage pile and windrow surface area in acres for 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.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations:

PE shall not exceed 1.07 TPY.

PM₁₀ emissions shall not exceed 0.53 TPY.

Applicable Compliance Method:

The mass emissions for applicability of OAC rule 3745-31-05(A)(3) were determined using the following equations:

$$\text{Lbs/hr PE} = (A) \times (B)$$

$$\text{Lbs/hr PM}_{10} = (A) \times (B)$$

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

$$\text{Tons of PM}_{10} \text{ emissions/year} = (A) \times (C) \times 1 \text{ ton}/2,000 \text{ lbs}$$

where:

A = PE or PM₁₀ emission factor, (lb/ton) for material handling, as calculated from AP-42 Section 13.2.4, (November, 2006); and PE or PM₁₀ emission factor (lb/day/acre), as calculated from the USEPA BACM document Equation 2-12. See emission calculations detailed in PTI application 14-05916 for specific emission factors (load-in, load-out, turning, wind erosion, etc.);

B = total hourly throughput, in tons; and

C = total annual throughput, in tons, at 8760 hours per year.

g) Miscellaneous Requirements

- (1) None.



5. F016, Unit #81733 (F016)

Operations, Property and/or Equipment Description:

400 tons/hr Portable Crusher

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	PE shall not exceed 14.80 pounds per hour* and 27.71 TPY. PM ₁₀ emissions shall not exceed 7.38 pounds per hour* and 13.82 TPY. *The hourly emission limitations outlined above are based upon the emissions unit's potential to emit. Therefore, no hourly record keeping or reporting is required to demonstrate compliance with these limits. See b)(2)a. and c)(1). The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO and OAC rule 3745-17-08(B).
b.	OAC rule 3745-17-07(B)(1) (applicable only if this portable emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	Visible emissions of fugitive dust shall not exceed twenty percent opacity as a three-minute average. See b)(2)b. and b)(2)c.
c.	OAC rule 3745-17-08(B) (applicable only if this portable emissions unit is located in an area	Reasonably available control measures that are sufficient to minimize or eliminate visible particulate emissions of fugitive dust.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	identified in Appendix A of OAC rule 3745-17-08)	See b)(2)d.
d.	40 CFR Part 60, Subpart OOO (40 CFR 60.670-676) <i>Standards of Performance (NSPS) for Nonmetallic Mineral Processing Plants</i> [In accordance with 40 CFR 60.670 and 60.671, and when processing material that meets the definition of nonmetallic minerals, this emissions unit is a nonmetallic mineral processing plant subject to the Standards of Performance for Nonmetallic Mineral Processing Plants, constructed, modified or reconstructed after August 31, 1983, and before April 22, 2008.]	Comply with the applicable fugitive emission limitations for particulate matter specified in b)(2)e. pursuant to Table 3 of Subpart OOO. [40 CFR 60.672(b)] See b)(2)e. and b)(2)f.

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures for the purpose of ensuring compliance with the applicable requirements identified below for crushing, transfer points, screening, and conveying operations. In accordance with the application, the permittee has committed to the use of water sprays operating at the points specified, as necessary, to ensure compliance.
- b. When the emissions unit is processing nonmetallic mineral material subject to 40 CFR Part 60, Subpart OOO, the emission limitation specified by OAC rule 3745-17-07(B)(1) is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO, which applies in both Appendix A and non-Appendix A areas. The permittee shall comply with all applicable emission limitations (including any less stringent limitation) for this emissions unit.
- c. This portable emissions unit is exempt from the visible emissions limitations for fugitive dust, specified in OAC rule 3745-17-07(B)(1), pursuant to OAC rule 3745-17-07(B)(11)(e), when the portable emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
- d. The use of reasonably available control measures specified by OAC rule 3745-17-08(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3) and b)(2)a. above, which apply in both Appendix A and non-Appendix A areas. The permittee shall comply with all applicable requirements (including any less stringent requirements) for this emissions unit.



- e. When the emissions unit is processing nonmetallic mineral material subject to 40 CFR Part 60, Subpart OOO, the permittee shall comply with the following requirements of 40 CFR Part 60, Subpart OOO, Table 3 for affected facilities (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008:
 - i. Fugitive emissions from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in 60.670 and 60.671) shall not exceed 10 percent opacity, except as provided by 60.672.
 - ii. Fugitive emissions from crushers, at which a capture system is not used, shall not exceed 15 percent opacity, except as provided in 60.672.
- f. 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.
- c) Operational Restrictions
 - (1) The maximum annual material throughput rate for this emissions unit shall not exceed 1,497,600 tons per year.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) Except as otherwise provided in this section, the permittee shall perform inspections of the material handling operations in accordance with the following frequencies:

<u>material handling operation</u>	<u>minimum inspection frequency</u>
400 tons/hr portable crusher	once daily during operation
 - (2) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for the crusher and associated transfer points. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for this material handling operation if the material used in this operation 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.
 - (3) The permittee may, upon receipt of written approval from the Southwest Ohio Air Quality Agency, 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;



- 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.

The information required in 4.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (5) The permittee shall maintain annual records of the total amount of material throughput for this emissions unit for the calendar year, in tons.

e) 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 Standard Terms and Conditions of this permit.

- (2) The permittee shall submit annual reports that specify the total amount of material throughput for 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 the annual throughput for this emissions unit in the annual Fee Emissions Report.
- (3) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 60, Subpart OOO, including the following sections:

60.676(a)	Replacement notification
60.676(f)	Performance test reports
60.676(h) – (k) and Table 1	Notifications and reporting requirements

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:



a. Emission Limitations:

PE shall not exceed 14.80 lbs/hr; PM₁₀ emissions shall not exceed 7.38 lbs/hr.

Applicable Compliance Method:

Hourly emissions of PE and PM₁₀ shall be determined using the following equations:

$$\begin{aligned} \text{lbs/hr of PE} &= (A) \times (B) \\ \text{lbs/hr of PM}_{10} &= (A) \times (B) \end{aligned}$$

where:

A = PE or PM₁₀ emission factor, in lb/ton, as calculated from U.S. EPA's AP-42 Section 11.3 (August, 1997) for soil processing, 11.19.2 (August, 2004) for stone processing and stone material handling, 13.2.4, (November, 2006) for soil material handling, and the permittee-supplied data contained in PTI application #14-06010, submitted December 19, 2007.

B = maximum hourly throughput, in tons.

[Authority for term: OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

b. Emission Limitations:

PE shall not exceed 27.71 TPY; PM₁₀ emissions shall not exceed 13.82 TPY.

Applicable Compliance Method:

Annual emissions of PE and PM₁₀ shall be determined using the following equations:

$$\begin{aligned} \text{TPY of PE} &= (A) \times (B) \times 1 \text{ ton}/2,000 \text{ lbs} \\ \text{TPY of PM}_{10} &= (A) \times (B) \times 1 \text{ ton}/2,000 \text{ lbs} \end{aligned}$$

where:

A = PE or PM₁₀ emissions factor, in lb/ton, as calculated from U.S. EPA's AP-42 Section 11.3 (August, 1997) for soil processing, 11.19.2 (August, 2004) for stone processing and stone material handling, 13.2.4, (November, 2006) for soil material handling, and the permittee-supplied data contained in PTI application number 14-06010, submitted December 19, 2007.

B = annual material throughput, in tons per year.

[Authority for term: OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

c. Emission Limitation:

Visible emissions of fugitive dust shall not exceed twenty percent opacity as a three-minute average [OAC rule 3745-17-08 Appendix A areas only].



Applicable Compliance Method:

Compliance with the limitation for visible emissions of fugitive dust shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

No visible emissions observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

[Authority for term: OAC 3745-17-07(B) and 3745-77-07(C)(1)]

d. Emission Limitations:

Fugitive emissions from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in 60.670 and 60.671) shall not exceed 10 percent opacity, except as provided by 60.672.

Fugitive emissions from crushers, at which a capture system is not used, shall not exceed 15 percent opacity, except as provided in 60.672.

Applicable Compliance Method:

Performance testing shall be conducted in accordance with Table 3 of 40 CFR Part 60, Subpart OOO, and the procedures specified in 60.675(a), 60.675(c), and 60.675(e).

g) Miscellaneous Requirements

- (1) At the discretion and following the approval of the Director (the appropriate Ohio EPA District Office or local air agency), the permittee may relocate the portable source within the State of Ohio without first obtaining a permit-to-install and operate (PTIO) or a permit-to-install (PTI), providing the appropriate notification and exemption requirements have been met for portable emissions units as specified in OAC rule 3745-31-03(A)(1) or OAC rule 3745-31-05(H), and any subsequent revisions of these OAC rules, as applicable.



6. F017, Unit #81734 (F017)

Operations, Property and/or Equipment Description:

400 tons/hr Portable Shredder Screener

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	PE shall not exceed 6.71 pounds per hour* and 12.56 TPY. *The hourly emission limitations outlined above are based upon the emissions unit's potential to emit. Therefore, no hourly record keeping or reporting is required to demonstrate compliance with these limits. See b)(2)c. and c)(1). The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO and OAC rule 3745-17-08(B).
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	PM ₁₀ emissions shall not exceed 0.89 pound per hour* and 1.66 TPY. See b)(2)a.
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)b.
d.	OAC rule 3745-17-07(B)(1) (applicable only if this portable emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	Visible emissions of fugitive dust shall not exceed twenty percent opacity as a three-minute average. See b)(2)d. and b)(2)e.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-17-08(B) (applicable only if this portable emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	Reasonably available control measures that are sufficient to minimize or eliminate visible particulate emissions of fugitive dust. See b)(2)f.
f.	40 CFR Part 60, Subpart OOO (40 CFR 60.670-676) <i>Standards of Performance (NSPS) for Nonmetallic Mineral Processing Plants</i> [In accordance with 40 CFR 60.670 and 60.671, and when processing material that meets the definition of nonmetallic minerals, this emissions unit is a nonmetallic mineral processing plant subject to the Standards of Performance for Nonmetallic Mineral Processing Plants, constructed, modified or reconstructed after August 31, 1983, and before April 22, 2008.]	Comply with the applicable fugitive emission limitations for particulate matter specified in b)(2)g. pursuant to Table 3 of Subpart OOO. [40 CFR 60.672(b)] See b)(2)g. and b)(2)h.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by 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 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.
- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ emissions from this air contaminant source



since the uncontrolled potential to emit for PM₁₀ emissions is less than ten tons per year.

- c. The permittee shall employ best available control measures for the purpose of ensuring compliance with the applicable requirements identified below for shredding, screening, transfer points, and conveying operations. In accordance with the application, the permittee has committed to the use of water sprays operating at the points specified, as necessary, to ensure compliance.
- d. When the emissions unit is processing nonmetallic mineral material subject to 40 CFR Part 60, Subpart OOO, the emission limitation specified by OAC rule 3745-17-07(B)(1) is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO, which applies in both Appendix A and non-Appendix A areas. The permittee shall comply with all applicable emission limitations (including any less stringent limitation) for this emissions unit.
- e. This portable emissions unit is exempt from the visible emissions limitations for fugitive dust, specified in OAC rule 3745-17-07(B)(1), pursuant to OAC rule 3745-17-07(B)(11)(e), when the portable emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
- f. The use of reasonably available control measures specified by OAC rule 3745-17-08(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3) and b)(2)c. above, which apply in both Appendix A and non-Appendix A areas. The permittee shall comply with all applicable requirements (including any less stringent requirements) for this emissions unit.
- g. When the emissions unit is processing nonmetallic mineral material subject to 40 CFR Part 60, Subpart OOO, the permittee shall comply with the following requirements of 40 CFR Part 60, Subpart OOO, Table 3 for affected facilities (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008:
 - i. Fugitive emissions from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in 60.670 and 60.671) shall not exceed 10 percent opacity, except as provided by 60.672.
 - ii. Fugitive emissions from crushers, at which a capture system is not used, shall not exceed 15 percent opacity, except as provided in 60.672.
- h. 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.



c) Operational Restrictions

- (1) The maximum annual material throughput rate for this emissions unit shall not exceed 1,497,600 tons per year.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of the material handling operations in accordance with the following frequencies:

<u>material handling operation</u>	<u>minimum inspection frequency</u>
400 tons/hr portable shredder/screener	once daily during operation

- (2) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for the shredder/screener and associated transfer points. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for this material handling operation if the material used in this operation 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.
- (3) The permittee may, upon receipt of written approval from the Southwest Ohio Air Quality Agency, 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;
 - 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.

The information required in 4.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (5) The permittee shall maintain annual records of the total amount of material throughput in this emissions unit for the calendar year, in tons.

e) 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 Standard Terms and Conditions of this permit.

- (2) The permittee shall submit annual reports that specify the total amount of material throughput for 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 the annual throughput for this emissions unit in the annual Fee Emissions Report.
- (3) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 60, Subpart OOO, including the following sections:

60.676(a)	Replacement notification
60.676(f)	Performance test reports
60.676(h) – (k) and Table 1	Notifications and reporting requirements

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations:

PE shall not exceed 6.71 lbs/hr; PM₁₀ emissions shall not exceed 0.89 lb/hr.

Applicable Compliance Method:

Hourly emissions of PE and PM₁₀ shall be determined using the following equations:

lbs/hr of PE = (A) x (B)
 lbs/hr of PM₁₀ = (A) x (B)

where:

A = PE or PM₁₀ emission factor, in lb/ton, as calculated from U.S. EPA's AP-42 Section 11.3 (August, 1997) for soil processing, 11.19.2 (August, 2004) for stone processing and stone material handling, 13.2.4, (November, 2006) for soil



material handling, and the permittee-supplied data contained in PTI application #14-06010, submitted December 19, 2007.

B = maximum hourly throughput, in tons.

b. Emission Limitations:

PE shall not exceed 12.56 TPY; PM₁₀ emissions shall not exceed 1.66 TPY.

Applicable Compliance Method:

Annual emissions of PE and PM₁₀ shall be determined using the following equations:

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

$$\text{TPY of PM}_{10} = (A) \times (B) \times 1 \text{ ton}/2,000 \text{ lbs}$$

where:

A = PE or PM₁₀ emissions factor, in lb/ton, as calculated from U.S. EPA's AP-42 Section 11.3 (August, 1997) for soil processing, 11.19.2 (August, 2004) for stone processing and stone material handling, 13.2.4, (November, 2006) for soil material handling, and the permittee-supplied data contained in PTI application number 14-06010, submitted December 19, 2007.

B = annual material throughput, in tons per year.

c. Emission Limitation:

Visible emissions of fugitive dust shall not exceed twenty percent opacity as a three-minute average [OAC rule 3745-17-08 Appendix A areas only].

Applicable Compliance Method:

Compliance with the limitation for visible emissions of fugitive dust shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

No visible emissions observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

d. Emission Limitations:

Fugitive emissions from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in 60.670 and 60.671) shall not exceed 10 percent opacity, except as provided by 60.672.

Fugitive emissions from crushers, at which a capture system is not used, shall not exceed 15 percent opacity, except as provided in 60.672.



Final Permit-to-Install
Rumpke Sanitary Landfill, Inc.
Permit Number: P0118389
Facility ID: 1431092049
Effective Date: 3/13/2015

Applicable Compliance Method:

Performance testing shall be conducted in accordance with Table 3 of 40 CFR Part 60, Subpart OOO, and the procedures specified in 60.675(a), 60.675(c), and 60.675(e).

g) Miscellaneous Requirements

- (1) At the discretion and following the approval of the Director (the appropriate Ohio EPA District Office or local air agency), the permittee may relocate the portable source within the State of Ohio without first obtaining a permit-to-install and operate (PTIO) or a permit-to-install (PTI), providing the appropriate notification and exemption requirements have been met for portable emissions units as specified in OAC rule 3745-31-03(A)(1) or OAC rule 3745-31-05(H), and any subsequent revisions of these OAC rules, as applicable.



7. F018, Storage Piles

Operations, Property and/or Equipment Description:

Material Storage Piles

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	PE shall not exceed 37.5 TPY. PM ₁₀ emissions shall not exceed 18.74 TPY. There shall be no visible particulate emissions from any material storage pile except for a total of 1 minute during any 60-minute observation period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See b)(2)a. through b)(2)d. See c)(1).
b.	OAC rule 3745-17-07(B)(6) (applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	The fugitive visible particulate emission limitation for material storage piles specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) which applies in both Appendix A and non-Appendix A areas.
c.	OAC rule 3745-17-08(B) (applicable only if this portable emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	The reasonably available control measures requirement for material storage piles specified by this rule are less stringent than the control requirement established pursuant to OAC rule 3745-31-05(A)(3) which applies in both Appendix A and non-Appendix A areas.



(2) Additional Terms and Conditions

- a. 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 application, the permittee has committed to watering/sprinkling systems at sufficient treatment frequencies to ensure compliance. The operator shall avoid dragging any front-end loader bucket along the ground. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. 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.
- c. 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 application, the permittee has committed to perform one or more of the following: chemical stabilization, watering/sprinkling systems/hoses, or covering the storage piles to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. 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.

c) Operational Restrictions

- (1) The maximum annual soil/clay and rock storage pile material throughput for this emissions unit shall not exceed 1,497,600 tons per year.

d) Monitoring and/or Recordkeeping Requirements

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

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
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all	once daily during operation
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- (2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
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all	once daily during operation
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- (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:

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

- (5) The purpose of the inspections is to 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 Southwest Ohio Air Quality Agency, 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 d)(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 annual records of the total amount of material throughput for this emissions unit for the calendar year, in tons.

e) Reporting Requirements

- (1) The permittee shall submit annual reports that specify the total amount of material throughput for 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 the annual throughput for this emissions unit in the annual Fee Emission Report.
- (2) 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 deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:

PE shall not exceed 37.5 TPY.

PM₁₀ emissions shall not exceed 18.74 TPY.

Applicable Compliance Method:

Annual emissions of PE and PM₁₀ shall be determined using the following equations:

TPY of PE = (A) x (B) x 1 ton/2,000 lbs

TPY of PM₁₀ = (A) x (B) x 1 ton/2,000 lbs

Where:



A = PE or PM₁₀ emission factor, (lb/ton) for material handling, as calculated from AP-42 Section 13.2.4, (November, 2006); and PE or PM₁₀ emission factor (lb/day/acre) for storage piles, as calculated from the USEPA BACM document Equation 2-12 and the permittee-supplied data contained in PTI application 14-06010, submitted 12/19/2007;

B = total annual material throughput, in tons per year.

b. Emission Limitation:

There shall be no visible particulate emissions from any material storage pile except for a total of 1 minute during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible particulate emission limitation for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

No visible emissions observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

g) Miscellaneous Requirements

(1) None.