Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

12/22/2011

Certified Mail

Facility ID: 0123000228
Permit Number: P0082392
County: Fairfield

Tony Furgiuele
Pine Grove Regional Facility
5131 Drinkle Road
Amanda, OH 43102

RE: FINAL AIR POLLUTION CONTROL TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this Title V permit 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
309 South Fourth Street, Room 222
Columbus, OH 43215

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. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Central District Office. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 *Via E-Mail Notification*
Ohio EPA DAPC, Central District Office

Ohio | Environmental Protection Agency

FINAL

Division of Air Pollution Control
Title V Permit
for
Pine Grove Regional Facility

Facility ID:	0123000228
Permit Number:	P0082392
Permit Type:	Renewal
Issued:	12/22/2011
Effective:	1/12/2012
Expiration:	1/12/2017

Ohio Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
Pine Grove Regional Facility

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Authorization

Facility ID: 0123000228
Facility Description: Refuse Systems
Application Number(s): A0012685, A0012686, A0041346
Permit Number: P0082392
Permit Description: This is a Title V renewal permit for a municipal solid waste landfill facility located in Amanda, Ohio.
Permit Type: Renewal
Issue Date: 12/22/2011
Effective Date: 1/12/2012
Expiration Date: 1/12/2017
Superseded Permit Number: P0082391

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Pine Grove Regional Facility
5131 Drinkle Road
Amanda, OH 43102

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Central District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

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. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), 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.

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

b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

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

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

(1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

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

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

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

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

(2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or

local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

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

See A.29 below if no deviations occurred during the quarter.

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

(3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed

adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

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

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

(4) Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

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

(5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Central District Office.

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

3. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

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

4. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

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

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

5. Title IV Provisions

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

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

6. Severability Clause

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

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

7. General Requirements

a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d) This permit does not convey any property rights of any sort, or any exclusive privilege.

e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:

(1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or

(2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or

(3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminent sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

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

9. Marketable Permit Programs

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

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

10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

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

11. Reopening for Cause

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

a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

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

12. Federal and State Enforceability

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

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

13. Compliance Requirements

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

b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

(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 paragraph (E) of OAC rule 3745-77-03.

(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 appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

(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.

d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

(1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

a. An identification of each term or condition of this permit that is the basis of the certification.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittent.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.

e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

(3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

14. Permit Shield

a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

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

15. Operational Flexibility

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

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

16. Emergencies

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

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

17. Off-Permit Changes

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

a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

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

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

18. Compliance Method Requirements

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

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

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

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

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

21. Air Pollution Nuisance

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

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

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible 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 responsible official that the emissions unit was permanently shut down.

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

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

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only

The permittee shall submit required reports in the following manner:

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

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

25. Records Retention Requirements Under State Law Only

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.

26. Inspections and Information Requests

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

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

27. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

28. Permit Transfers

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

(Authority for term: OAC rule 3745-77-01(C))

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

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or

b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or

c) where the company's responsible official has certified that an emissions unit has been permanently shut down.

B. Facility-Wide Terms and Conditions

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.

2. The following emission units contained in this permit are subject to 40 CFR Part 60, Subparts WWW and 40 CFR Part 63, Subpart AAAA: P901. The complete NSPS and MACT requirements, including the NSPS and MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website http://ecfr.gpoaccess.gov or by contacting the appropriate Ohio EPA District office or local air agency.

C. Emissions Unit Terms and Conditions

1. F002, Road/Operations

Operations, Property and/or Equipment Description:

Unpaved Roads and Parking Areas

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) (P0107257)	There shall be no visible particulate emissions (PE) from unpaved roadways and parking areas except for three minutes during any 60-minute period. The permittee shall implement best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Sections b)(2)a. through b)(2)f. below.
b.	OAC rule 3745-17-07(B)	See Section b)(2)g. below.
c.	OAC rule 3745-17-08(B)	See Section b)(2)h. below.

(2) Additional Terms and Conditions

a. The permittee shall employ best available control measures on unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the unpaved roadways and parking areas by application of chemical stabilization/dust suppressants and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

b. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not

be necessary for the unpaved roadways and parking areas that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

c. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

d. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

e. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

f. The permittee shall set the speed limit on all unpaved roads within the facility to 15 mph to ensure compliance with the above regulations.

g. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

h. This facility is not located within an “Appendix A” area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

unpaved roadways and parking areas	minimum inspection frequency
all roads and parking areas	daily

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking

area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) as (have) ended, except if the next required inspection is within one week.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(3) The permittee may, upon receipt of written approval from the Ohio EPA, Central District Office (CDO), 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.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(4) The permittee shall maintain records of the following information:

a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

c. the dates the control measures were implemented; and

d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(5) 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.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

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.

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

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

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. Emissions Limitation:

There shall be no visible PE from unpaved roadways and parking areas except for three minutes during any 60-minute period.

Applicable Compliance Method:

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

[Authority for Term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

2. F005, Bio Piles

Operations, Property and/or Equipment Description:

Soil remediation operation, consisting of soil bioremediation piles, to process non-hazardous petroleum contaminated soil (PCS) into "re-use" soil.

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) b)(1)c. and d)(5).

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. (P0105653)	Particulate emissions (PE) shall not exceed 3.16 tons per year. Volatile organic compound (VOC) emissions shall not exceed 6.3 tons per year. See b)(2)b.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06.	See b)(2)c.
c.	ORC 3704.03(F)(3)(c) and (F)(4) "Toxic Air Contaminant Statute"	See d)(5)

(2) Additional Terms and Conditions

a. This operation consists of soil bioremediation piles which will be comprised of non-hazardous petroleum-contaminated soil (PCS) and a polymicrobial mix of microorganisms that consume and degrade petroleum in soil. The PCS will be brought to the facility by truck, unloaded, and spread in 100 by 100 foot containment areas (referred to in the application as "lifts") and located as close to the active working face of the landfill as practically possible. The PCS will be inoculated with the microorganisms, and the pile then covered by an impermeable tarp. This microbial digestion will reduce the total petroleum hydrocarbon (TPH) constituents of the PCS to below "re-use" action levels(as defined in OAC 1301:7-9-16). Once the "re-use" action levels are met, the facility will transport the soil to the active working face for use as daily cover. If the "re-use" action levels are not met, the microbes will be allowed to continue digestion, and the soil will be sampled at 30 day intervals until the "re-use" action levels are

met. Microbial digestion of petroleum products is expected to take 30 to 90 days per PCS batch.

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. 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 soil remediation operation emissions from this air contaminant source since the uncontrolled potential to emit for particulate emissions (PE) and volatile organic compound (VOC) emissions is each less than 10 tons per year based on the following, as documented in the application:

i. The total throughput of PCS does not exceed 15,000 tons per year; and

d. The Total Petroleum Hydrocarbon (TPH) concentration processed in this emissions unit does not exceed 50,000 parts per million (ppm), and the VOC concentration does not exceed 10,000 ppm.

c) Operational Restrictions

(1) The permittee shall appropriately process PCS loaded trucks in a timely manner in order to minimize and/or eliminate all generated fugitive VOC emission prior to being unloaded into the soil processing area.

[Authority for Term: OAC rule 3745-77-07(A)(1)]

(2) The permittee shall employ tarps in such a manner that will completely cover the processing materials in order to minimize and/or eliminate the release of fugitive PE and VOC emissions and to minimize the amount of time that the PCS is exposed to the ambient air.

[Authority for Term: OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain the following records of each batch of PCS processed:

a. The amount of PCS material being processed, in tons; and

b. The pre-treatment TPH level, in parts per million (ppm), and the VOC concentration, in ppm.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) The permittee shall maintain annual records of the amount of PCS processed, in tons.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(3) The permittee shall maintain annual records of PE and VOC emissions from the emissions source, F005, in tons.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(4) The permittee shall perform daily checks, when the emissions unit is processing PCS materials. The daily check shall note the following in the operations log:

a. The date of the check;

b. The general condition of the tarp and/or tarps being employed;

c. Any tears, rips, and/or separation on/or between the tarp and/or tarps being employed, in which the PCS materials are exposed to the ambient air;

d. Any corrective actions taken to eliminate the exposure of PCS materials to the ambient air; and

e. The date that the corrective action was taken.

These daily checks must occur on consecutive days for the first 14 days of each PCS batch. If there are no tarp tears, rips, and/or separations noted, the facility can reduce the inspection frequency to once per week during normal facility operation. If any tarp tears, rips, and/or separations are noted, then the facility will repair the tarp(s), and the inspection frequency reverts to daily.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(5) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the emissions unit’s maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified PTI prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials or use of new materials that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the following:

a. The total throughput of PCS of 15,000 tons per year; and

b. The TPH concentration of 50,000 parts per million (ppm) for PCS batch material and/or the VOC concentration of 10,000 ppm.

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

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(2) In addition, the permittee shall submit quarterly reports that identify the following:

a. All days in which any tears, rips, and/or separation on/or between the tarp and/or tarps being employed, in which the PCS materials are exposed to the ambient air are witnessed;

b. Any corrective actions taken to eliminate the exposure of PCS materials to the ambient air;

c. The day that corrective action was taken; and

d. The total number of days that PCS materials were exposed to the ambient air.

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

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

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. <u>Emission Limitation</u>:

VOC emissions from the emissions unit, F005, shall not exceed 6.3 tons per year.

<u>Applicable Compliance Method</u>:

Compliance shall be based upon the monitoring and record keeping requirements as specified in Sections d)(1) through d)(4).

b. <u>Emissions Limitation</u>:

PE from the emissions unit, F005, shall not exceed 3.16 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the monitoring and record keeping requirements as specified in Sections d)(1) through d)(4).

[Authority for Term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

3. P901, MSW Landfill

Operations, Property and/or Equipment Description:

Municipal Solid Waste (MSW) Landfill

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) d)(10) thru d)(13), and e)(4).

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.	ORC 3704.03(T) (PTI P0107257)	**Emissions from the landfill shall be limited as follows:** Fugitive non-methane organic compound (NMOC)emissions shall not exceed 49.5 tons per year as a rolling, 12-month summation. Fugitive volatile organic compound (VOC) emissions shall not exceed 19.3 tons per year as a rolling, 12-month summation. Fugitive methane (CH_4) emissions shall not exceed 7,750 tons per year as a rolling, 12-month summation. Total hazardous air pollutant (HAP) emissions shall not exceed 15.1 tons per year as a rolling, 12-month summation. Individual HAP emissions shall not exceed 4.5tons per year as a rolling, 12-month summation. Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average. Best available control measures that are sufficient to minimize or eliminate visible

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		emissions of fugitive dust [See b)(2)e. through b)(2)i.]. **Emissions from the open flare (4250 scfm) shall be limited as follows:** Nitrogen oxide (NOx) emissions shall not exceed 41.8 tons per year as a rolling, 12-month summation. Carbon monoxide (CO) emissions shall not exceed 227.3 tons per year as a rolling, 12-month summation. No visible emissions from the open flare, except for periods not to exceed a total of five minutes during any two consecutive hours. The requirements of this rule also include compliance with the applicable requirements contained in 40 CFR, Part 60, Subpart WWW, 40 CFR Part 60.18, ORC 3704.03F(4)(c), OAC rule 3745-114, and 3745-20, NESHAP (40 CFR Part 61, Subparts A and M) and 40 CFR Part 63, Subpart AAAA. See b)(2)b. and t.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01 (PTI P0107257)	**Emissions from the open flare (4250 scfm) shall be limited as follows:** Sulfur dioxide (SO_2) emissions shall not exceed 2.1 pounds per hour and 9.0 tons per year. VOC emissions shall not exceed 0.3 pound per hour and 1.2 tons of VOC per year. NMOC emissions shall not exceed 0.7 pound per hour and 3.0 tons per year. Hydrogen chloride (HCL) emissions shall not exceed 1.0 pound per hour and 4.5 tons per year. See b)(2)b. and t.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)c.
d.	40 CFR Part 60, Subpart WWW (40 CFR Part 60.750-759) [In accordance with 60.750(a), this emission unit is a municipal solid waste landfill that commenced construction, reconstruction or modification on or after May 30, 1991.]. 40 CFR 60.750	Estimated NMOC emissions greater than 50 Mg requires design plan submittal within 1 year. [40 CFR 60.752(b)(i)] Install collection and control system within 30 months after the first annual report in which the emission rate equals or exceeds 50 Mg of NMOC. [40 CFR 60.752(b)(ii)]
e.	40 CFR Part 60 Subpart A 40 CFR 60.1-19 40 CR 60.1(a)	The provisions of this part apply to the owner or operator of any stationary source which contains an affected facility subject to a standard in 40 CFR 60.
f.	40 CFR Part 63, Subpart AAAA (40 CFR Part 63.1930-1990) [In accordance with 63.1940(a) this emission unit will become an affected source when it meets the criteria in 40 CFR 63.1935(a) or (b),]	Start up, Shut down, and Malfunction Plan and Semi-annual reports in accordance with 40 CFR 60.757(f). [40 CFR 63.1930]
g.	40 CFR Part 63 Subpart A 40 CFR 63.1-15 (40 CFR 63. 1965)	Table 1 to Subpart AAAA of 40 CFR 63-Applicability of General Provisions to Subpart AAAA shows which parts of the General Provisions of 40 CFR 63.1-15 apply.
h.	40 CFR Part 61, Subpart M (40 CFR 61.140-157) [In accordance with 63.1940(a) the provisions of this subpart are applicable to those sources specified in 61.142 through 61.151, 61.154, and 61.155. As specified in 61.154, this emission unit is an active waste disposal site that receives asbestos-containing waste material from a source covered under 61.149, 61.150, or 61.155] 40 CFR 61.154	See b)(2)j. through b)(2)s.
i.	40 CFR 61 Subpart A (40 CFR 61.01-19) 40 CR 60.01(a)	The provisions of this part apply to substances that, pursuant to section 112 of the Act, have been designated as hazardous air pollutants. Asbestos (36

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		FR 5931; Mar. 31, 1971)
j.	OAC rule 3745-17-08(B)	Exempt, pursuant to OAC 3745-17-08(A)(1).See b(2)d.
k.	OAC rule 3745-17-07(B)(1)	Exempt, pursuant to OAC 3745-17-07(B)(11)(e).See b(2)d.
l.	ORC 3704.03(F)(4)(c) and OAC rule 3745-114	See d)(10) thru d)(13), and e)(4)
m.	OAC rule 3745-20	See b)(2)j. through b)(2)s.
n.	OAC rule 3745-19	There shall be no open burning at the facility in violation of this rule.

(2) Additional Terms and Conditions

a. This Title V Operating Permit incorporates the requirements of PTI number P0107257 which represented a Chapter 31 modification to PTI 01-7425 issued March 17, 1999.

b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to 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 ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant 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 requirements 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 3745-31-05, then these emission limits/control measures no longer apply.

c. 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 sulfur dioxide and volatile organic compounds emissions from this air contaminant source since the potential to emit for sulfur dioxide and volatile organic compounds are each less than 10 tons per year.

d. There are no applicable emission limitations/control measures from OAC rules 3745-17-08(B) and 3745-17-07(B) because the facility is not located in an Appendix A area as specified in OAC rule 3745-17-08.

e. The permittee shall ensure that solid wastes are deposited, spread, and compacted in such a manner as to minimize or prevent visible emissions of dust. All truckloads of solid waste shall be unloaded in a manner which will minimize the drop height of the solid wastes. Any dusty construction materials, soils or wastes likely to become airborne shall be watered as necessary prior to or during dumping operations in order to minimize or eliminate visible emissions of fugitive

dust. Watering shall be conducted in such a manner as to avoid the pooling of liquids and runoff. No dusty material shall be dumped during periods of high wind speed, unless the material has been treated to prevent fugitive dust emissions from becoming airborne.

f. The material handling activities that are covered by this permit and subject to the above-mentioned visible fugitive PM limitation for operations are listed below:

i. waste handling (depositing, spreading, and compacting)

ii. landfill daily and intermediate cover handling

iii. wind erosion from landfill surfaces/storage piles

iv. general earthmoving and soil handling during landfill construction

v. landfill aggregate handling during landfill construction.

g. The permittee shall employ best available control measures on all activities listed in 2.f. for the purpose of ensuring compliance with the above-mentioned applicable requirements (visible particulate emission limitations). In accordance with the permittee's permit application, the permittee has committed to covering the active storage piles or spraying them with water or a surfactant solution as necessary to control fugitive dust. Also in accordance with the permittee's permit application, the permittee has committed to covering the inactive storage piles with vegetation or another type of cover or spraying them with water or a surfactant solution as necessary to control fugitive dust. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

h. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary if there is snow and/or ice cover or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements (particulate emission limitations). Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

i. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

j. There shall be no visible emissions from asbestos-containing materials during on-site transportation, transfer, unloading, deposition or compacting operations.

k. Deposition and burial operations shall be conducted in a careful manner that prevents asbestos-containing waste materials from being broken up or dispersed before the materials are buried.

l. The permittee shall establish restricted access, adequate to deter the unauthorized entry of the general public and any unauthorized personnel, within

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

Legend:

DANGER
ASBESTOS DUST HAZARD
CANCER AND LUNG DISEASE HAZARD
Authorized Personnel Only

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

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

m. The permittee shall cover and compact asbestos wastes in accordance with the following:

i. As soon as practical after the placement of friableasbestos, but no later than the end of each working day, the asbestos-containing waste materials deposited at the site during the operating day shall be covered with at least 12 inches of non-asbestos-containing materials. Once the asbestos-containing materials are covered, the area may be compacted.

ii. Care shall be taken to ensure that disposed asbestos shall not be re-excavated in subsequent operations. Any accidentally exposed material shall be immediately covered in accordance with the provisions of condition (m)i. above.

iii. Asbestos-containing waste materials shall be separated from the landfill final grade by no less than 24 inches of compacted non-asbestos-containing materials and a permanent cover of vegetation, or in accordance with current requirements for closure, whichever is most stringent.

n. The permittee shall implement and maintain an "Asbestos Disposal Operating Procedure and Spill Contingency Plan" (Plan) consisting of: authorized personnel training, inspection and disposal operating procedures, non-conforming load response procedures, inventory and maintenance procedures for safety and emission control equipment, record keeping procedures and emergency notification procedures. Authorized personnel shall be knowledgeable in the

procedures, and the Plan shall be available for inspection at this facility at all times.

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

p. The permittee shall require that all waste shipments received from NESHAP regulated facilities as defined in 40 CFR 61.141, be accompanied by a Waste Shipment Record as described in 40 CFR 61.150(d)(1). Shipments less than one cubic yard generated by residential sources may be exempted. The waste shipment record forms shall be retained at the facility for at least two years, and shall be made available for inspection upon request.

The waste shipment records shall include, but not be limited to, the following information:

i. the name, address and telephone number of the waste generator;

ii. the name, address and telephone number of the transporter;

iii. the quantity of asbestos-containing waste material, in cubic meters (cubic yards);

iv. the name and telephone number of the disposal site operator;

v. the presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers;

vi. the name and physical site location of the disposal site; and

vii. the date of receipt.

q. The permittee shall cover all wastes with at least 6 inches of soil or alternative cover at the end of each day.

r. The permittee shall not accept any load of friable asbestos-containing waste material for disposal unless it has been labeled in accordance with the requirements below:

Each container of friable asbestos-containing waste material shall be labeled in accordance with the requirements of the NESHAP at 40 CFR Part 61, Subpart M; or the Ohio Administrative Code rule 3745-20-05; or the Occupational Safety and Health Administration; or the Department of Transportation or any subsequent revision to the preceding rule; and shall contain the following information:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

R.Q. ASBESTOS, CLASS 9
NA 2212, III

Inspection of incoming loads of asbestos-containing material for compliance with proper labeling requirements may occur at the working face of the landfill.

s. All asbestos-containing waste materials shall be received in sealed, approved, leak-tight waste disposal containers in accordance with b)(2)s.i. or in approved alternative disposal containers in accordance with b)(2)s.ii., b)(2)s.iii., or b)(2)s.iv. below:

i. Asbestos-containing waste material shall be sealed in plastic bags having a thickness of at least 0.006 inch (six-mils). A second clean, leak tight plastic bag having a thickness of at least 0.006 inch (six-mils) shall fully contain the first bag.

ii. Whenever necessary to prevent any asbestos-containing waste material from penetrating a container, the material shall be sealed into a combination of 0.006 inch (six-mils) plastic bag and leak-tight steel, plastic, or fiber drums, or reinforced disposal box, leak-tight polypropylene woven fabric bag, or similar suitable and durable container. Drums shall be fitted with a matching lid and lock-rims, and boxes shall be banded and sealed with reinforced tape or in accordance with manufacturer's recommendations.

iii. Non-friable waste materials which have the potential to become friable during handling or disposal operations, and components coated with, covered or containing friable asbestos materials shall be wrapped in no less than 0.012 inch (twelve-mils) of leak tight plastic, or at least 0.01 inch (ten-mils) of leak tight polypropylene fabric. This facility shall not accept wrapped pipes or components for disposal, unless a system for unloading and disposing of the waste without causing emissions of asbestos can be assured.

iv. Alternative leak-tight containers or disposal systems for asbestos-containing materials may be approved by Ohio EPA CDO for special utility. The permittee is authorized to accept any alternative container or load approved in writing by Ohio EPA CDO. Acceptance of any alternative container or load is at the discretion of the landfill and shall be in accordance with the terms and conditions issued in the alternative container or disposal system approval as issued in writing by Ohio EPA CDO.

t. Based on the maximum annual waste acceptance rate of 1,825,000 tons per year, the hourly and annual emissions limitations for all pollutants were established to reflect the potential to emit, as defined in OAC rule 3745-31-01, for the emissions unit, both prior to control and after control, as well as for the control device.

u. The flare shall be operated with a flame present at all times when gases are vented to it.

v. All collected gas shall be vented to an open flare designed and operated asfollows:

i. The flare shall be designed for and operated with no visible emissions, as determined by Method 22 of Appendix A of 40 CFR Part 60, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

ii. The flare shall be operated with a flame present at all times when gases are vented to it. The presence of flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. The net heating value of the gas being combusted and the actual exit velocity shall be calculated as required in the Testing Section of this permit.

iii. Flares shall be steam-assisted, air-assisted, or non-assisted, and shall comply with the following requirements for the heat content in paragraph "(a)"**and** the maximum tip velocity in paragraph "(b)", **or** shall comply with the alternative requirements in paragraph "(c)" for nonassisted flares:

(a) Steam-assisted or air-assisted flares shall have a net heating value of 300 Btu/scf (11.2 MJ/scm) or greater, for the gas being combusted.

Nonassisted flares shall have a net heating value of 200 Btu/scf (7.45 MJ/scm) for the gas being combusted.

The net heating value of the gas being combusted shall be calculated as required in the Testing Section of this permit.

(b) Steam-assisted and/or nonassisted flares shall be designed for and operated with an exit velocity of less than 18.3 m/sec (60 ft/sec), with the following exceptions:

(i) steam-assisted and nonassisted flares, having a net heating value of 1,000 Btu/scf (37.3 MJ/scm) for the gas being combusted, can be designed for and operated with an exit velocity equal to or greater than 18.3 m/sec (60 ft/sec), but less than 122 m/sec (400 ft/sec); and

(ii) steam-assisted and nonassisted flares can be designed for and operated with an exit velocity of less than the velocity calculated below for V_{max}, and less than 122 m/sec (400 ft/sec):

$\text{Log10}(V_{max}) = (H_T + 28.8)/31.7$
where:
V_{max} = maximum permitted velocity, m/sec;
28.8 = constant;

31.7 = constant; and
H_T = the net heating value as determined in the Testing Section of this permit.

Air-assisted flares shall be designed and operated with an exit velocity less than the velocity V_{max}, calculated as follows:

$V_{max} = 8.706 + 0.7084 (H_T)$
where:
V_{max} = maximum permitted velocity, m/sec;
8.706 = constant;
0.7084 = constant; and
H_T = the net heating value as determined in the Testing Section of this permit.

(c) Nonassisted flares that have a diameter of 3 inches or greater and a hydrogen content of 8.0 percent (by volume), or greater, shall be designed for and operated with an exit velocity of less than 37.2 m/sec (122 ft/sec) and less than the velocity, V_{max}, as determined by the following equation:

$V_{max} = (X_{H2} - K_1) K_2$

where:
V_{max} = maximum permitted velocity, m/sec;
K_1 = constant, 6.0 volume-percent hydrogen;
K_2 = constant, 3.9 (m/sec)/volume-percent hydrogen; and
X_{H2} = the volume-percent of hydrogen, on a wet basis, as calculated by using the ASTM Method D1946-90.

c) Operational Restrictions

(1) See 40 CFR Part 60, Subpart WWW (40 CFR 60.752(b)-(d), 60.753(a)-(g), 60.759(a)-(c))

[Authority for Term: 40 CFR Part 60, Subpart WWW; OAC rule 3745-77-07(A)(1)]

(2) See 40 CFR Part 63, Subpart AAAA (40 CFR 63.1955)

[Authority for Term: 40 CFR Part 63, Subpart AAAA; OAC rule 3745-77-07(A)(1)]

(3) See 40 CFR Part 61, Subpart M (40 CFR 61.140-157)

[Authority for Term: 40 CFR Part 61, Subpart M; OAC rule 3745-77-07(A)(1)]

(4) An interlock system shall be operated continuously to prevent landfill gas from venting to the flare when a flame is not present.

[Authority for Term:OAC rule 3745-77-07(A)(1); OAC rule 3745-31-05(A)]

d) Monitoring and/or Recordkeeping Requirements

(1) See 40 CFR Part 60, Subpart WWW (40 CFR 60.756)

[Authority for Term: 40 CFR Part 60, Subpart WWW; OAC rule 3745-77-07(C)(1)]

(2) See 40 CFR Part 63, Subpart AAAA (40 CFR 63.1980)

[Authority for Term: 40 CFR Part 63, Subpart AAAA; OAC rule 3745-77-07(C)(1)]

(3) See 40 CFR part 61, Subpart M (40 CFR 61.140-157)

[Authority for Term: 40 CFR Part 61, Subpart M; OAC rule 3745-77-07(C)(1)]

(4) The permittee shall perform daily inspections to observe the following material handling activities when the activity(ies) is (are) being conducted:

a. waste handling (depositing, spreading and compacting)

b. landfill daily and intermediate cover handling

c. wind erosion from landfill surfaces

d. general earthmoving and soil handling during landfill construction landfill aggregate handling

The inspections shall be documented and recorded as required in condition d)(7), below.

[Authority for Term:OAC rule 3745-77-07(C)(1); OAC rule 3745-31-05(A)]

(5) No inspection shall be necessary when the material handling activity(ies) is (are) not being conducted, when there is snow and/or ice cover, and/or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned visible fugitive PE limitation. Any required inspection that is not performed due to any of the above identified events shall be performed during the next inspection pursuant to the minimum inspection frequency.

[Authority for Term:OAC rule 3745-77-07(C)(1); OAC rule 3745-31-05(A)]

(6) The purpose of the material handling activity(ies) inspections is to determine the need for implementing the control measures specified in this permit to minimize and eliminate visible emissions of fugitive dust from the activities. The inspections shall be performed during representative, normal landfill operating conditions.

[Authority for Term: OAC rule 3745-77-07(C)(1); OAC rule 3745-31-05(A)]

(7) The permittee shall maintain a daily operations log which lists all of the above landfill activities (Note that if the records required in this Term and Condition exactly duplicate any records required under the facility's Division of Materials and Waste Management (DMWM) permit, the DMWM record will suffice to meet this Term and Condition). The daily operations log shall clearly indicate/contain the following:

a. the date and whether an inspection was performed and, if not performed, the reason why the inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

b. the activities which were in operation;

c. each activity where it was determined by the person conducting the inspection that it was necessary to implement the control measures to meet the above-mentioned visible fugitive PE limitation;

d. whether control measures were employed to minimize or eliminate visible emissions of fugitive dust; and

e. with regards to the waste handling activities, the amount, in tons, of waste material accepted for disposal.

[Authority for Term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)]

(8) The permittee shall maintain an annual cumulative (calendar year) record to be updated quarterly:

a. of days inspections were not performed by the required frequency, and;

b. of days in which control measures were determined to be necessary by an inspector, but were not implemented.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(9) The permittee shall keep for at least 5 years, up-to-date, readily accessible, on-site records of the design capacity report, the current amount of solid waste in place, the monthly waste acceptance rate and the total annual waste acceptance rate in tons.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(10) The PTI application for this emissions unit was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The Toxic Air Contaminant Statute, ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled review of New Sources of Air Toxic Emissions, Option A, as follows:

a. the exposure limit, expressed as a time-weighted averageconcentration for a conventional 8-hour workday and a 40-hourworkweek, for each toxic compound(s) emitted fromthe emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been

documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., 24 hours per day and 7 days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/24 \times 5/7 = 4\ TLV/8760 = MAGLC$$

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or worst case toxic contaminant(s):

For worst-case control device scenario

SCREEN3 Modeling	**Hydrogen Chloride**
Pollutant Emission Rate (lb/hr)	1.03
Pollutant Emission Rate (gram/sec)	0.13
Distance From Exhaust Stack to Property Line (m)	91 (300 ft)
Distance From Exhaust Stack to Maximum Concentration (m)	1011
Max 1-hr Concentration @ 1 gram/sec Emission Rate (ug/m^3)	1.74
Max 1-hr Concentration @ Above Emission Rate (ug/m^3)	0.226
TLV (ppmv)	2
MAGLC (TLV/42) (ug/m^3)	71.1
Result	0.226 < 71.1 - OK

The permittee, has demonstrated that emissions of hydrogen chloride from the landfill operations are calculated to be less than eighty percent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the Toxic Air Contaminant Statute, ORC 3704.03(F).

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(11) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hourmaximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.)

If the permittee determines that the Toxic Air ContaminantStatute will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), has been documented. If the change(s)meet(s) the definition of a “modification”, the permitteeshall apply for and obtain a final PTI, PTIO, or FEPTIO (as applicable) prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(12) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F):

a. thedescription of the parameters/values used in eachcompliance demonstration and the parameters or valueschanged for any re-evaluation of the toxic(s) modeled (thecomposition of materials, new toxic contaminants emitted,change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration(MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the Toxic Air Contaminant Statute, ORC 3704.03(F);

c. a copy of the computer model run(s), that established thepredicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliancewith theToxic Air Contaminant Statute, ORC 3704.03(F),initially and for each change that requires re-evaluation of thetoxicair contaminant emissions; and

d. the documentation of the initial evaluation of compliancewith the Toxic Air Contaminant Statute, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(13) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(14) The permittee shall inspect each load of asbestos containing-material delivered to this facility as follows:

a. The inspection shall consist of visual examination to ensure that each shipment of asbestos-containing materials is received in intact, leak-tight containers labeled with appropriate hazard warning labels, the name of the waste generator, and the location of waste generation. The inspector also shall determine whether the waste shipment records (WSR) accompany the consignment and accurately describe the waste material and quantity.

b. If on the basis of the inspection, the asbestos-containing waste material is found to be improperly received, the load shall be disposed of in accordance with the procedures in the "Asbestos Spill Contingency Plan," and the discrepancy notation shall be made on the waste shipment record.

c. The owner or on-duty operator shall notify the CDO of any load of asbestos-containing material which is rejected, or non-conforming in accordance with the Asbestos Spill Contingency Plan. Notification shall be provided as soon as possible by a phone contact, followed in writing the next working day by providing a copy of the waste shipment record, if available, or when waste is not shipped with a WSR, by providing available information on vehicle identification, source of the load, a description of the load, nature of discrepancy, and the location of disposal. If possible, non-conforming loads of suspect friable material shall be detained or the location of disposal protected from damage until the CDO is informed and provided the opportunity to inspect.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(15) The permittee shall maintain records of the following information:

a. the waste shipment record form for each shipment of asbestos-containing materials; and

b. the location, depth and area, and quantity in cubic yards of all asbestos-containing materials within the disposal site, on a map or diagram, or a 3D grid log of the disposal area.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(16) The permittee shall monitor the flare to ensure the presence of a flame by the use of a heat sensing device; such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself, to indicate continuous presence of a flame.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(17) The permittee shall install, calibrate and maintain a gas flow rate measuring device that shall record the flow to the flare at least every fifteen minutes.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(18) The permittee shall keep up-to-date, readily accessible continuous records of the flame monitoring and up-to-date, readily accessible records of all periods of operation in which the flame is absent.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) See 40 CFR Part 60, Subpart WWW (40 CFR 60.757(a)-(g))

[Authority for Term: 40 CFR Part 60, Subpart WWW; OAC rule 3745-77-07(C)(1)]

(2) See 40 CFR Part 63, Subpart AAAA (40 CFR 63.1980)

[Authority for Term: 40 CFR Part 63, Subpart AAAA; OAC rule 3745-77-07(C)(1)]

(3) See 40 CFR Part 61, Subpart M (40 CFR 61.140-157)

[Authority for Term: 40 CFR Part 61, Subpart M; OAC rule 3745-77-07(C)(1)]

(4) The permittee shall submit annual reports to the CDO, documenting any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. If no changes to the emissions unit(s) or the exhaust stack have been made, then the report shall include a statement to this effect. This report shall be postmarked or delivered no later than January 31 following the end of each calendar year.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(5) This facility shall prepare and submit quarterly reports summarizing asbestos disposal activities. Each report shall contain the following information:

a. the name, address, and location of this facility; the calendar period covered by the report; and changes in methods of storage or disposal operations; and

b. a list of all asbestos-containing waste consignments received, including:

i. the date received;

ii. the name, address and telephone number of the waste generator;

iii. the name and location of the facility where the load originated;

iv. the name, address and telephone number of the transporter;

v. the quantity of asbestos-containing waste material received; and

vi. any discrepancy or non-conformity discovered.

These reports shall be submitted no later than January 31, April 30, July 31, and October 31 and shall cover the previous calendar quarter.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(6) As soon as possible and no longer than 30 days after receipt of the waste, the permittee shall send a copy of the signed waste shipment record to the waste generator.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(7) Upon discovery of a discrepancy between the quantity of waste designated on a waste shipment record and the quantity actually received, the permittee shall attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the Ohio EPA, CDO. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(8) The permittee shall submit, within 60 days of the facility becoming inactive and ceasing accepting waste, a copy of the records of the asbestos waste disposal locations and quantities to the Ohio EPA, CDO.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(9) The permittee shall notify the Ohio EPA, CDO in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. The following information shall be included in the notice:

a. scheduled starting and completion dates;

b. reason for disturbing the waste;

c. procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material (if deemed necessary, the Director may require changes in the proposed emission control procedures); and

d. location of any temporary storage site and the final disposal site.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(10) The permittee shall submit quarterly deviation reports that identify all periods of time during which the flare was not operating for a period of greater than one hour when landfill gas was routed to it. The reports shall include the date, time, and duration of each such period.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(11) The permittee shall submit semiannual written reports that identify:

a. each day during which an inspection of the material processing and handling operations was not performed by the required frequency; and

b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(12) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) See 40 CFR part 60, Subpart WWW (40 CFR 60.755)

[Authority for Term: 40 CFR Part 60, Subpart WWW; OAC rule 3745-77-07(C)(1)]

(2) 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. Emissions Limitation:

The following emission limitations are applicable to the landfill controlled with the open flare:

Fugitive non-methane organic compounds (NMOC) emission shall not exceed 49.5 tons per yearas a rolling, 12-month summation.

Fugitive VOC emissions shall not exceed 19.3 tons per yearas a rolling, 12-month summation.

Fugitive methane (CH4) emissions shall not exceed 7,750 tons per yearas a rolling, 12-month summation.

Total Hazardous Air Pollutant (HAP) emissions shall not exceed 15.1 tons per yearas a rolling, 12-month summation.

Individual HAP emissions shall not exceed 4.5 tons per year,as a rolling, 12-month summation.

Applicable Compliance Method:

Since the emission limitations represent potential-to-emit, compliance is assumed based upon initial compliance determined as follows:

Fugitive landfill emissions resulting from the biological breakdown of organic wastes shall not exceed the values shown in Section 2.b)1 which are based on calculations performed with the use of USEPA's Landfill estimation program (LANDGEM) as found in AP-42. These calculations represent the highest emission rates which could occur based on landfill gas emission rates predicted by a maximum annual rate of waste material accepted for disposal of 1,825,000 tons, USEPA's Landfill estimation program (LANDGEM), AP-42 and other emission factors, a capture efficiency of 75% for the gas collection and control system, an assumption that 25% of the wastes disposed are inert and are not broken down to create landfill gas, and other assumptions contained in the application.

b. Emission Limitation:

Visible emissions from fugitive dust from landfill operations shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation identified above shall be determined in accordance with Test Method 9 as set forth in “Appendix on Test Methods” in 40 CFR, Part 60 (“Standards of Performance for New Stationary Sources”), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

c. Emission Limitations:

Hourly emissions limitations from the open flare controlling emissions from this emissions unit shall be limited as follows:

SO2 emissions shall not exceed 2.1 pounds per hour;

NMOC emissions shall not exceed 0.7 pounds per hour;

VOC emissions shall not exceed 0.3 pounds per hour;

HCl emissions shall not exceed 1.0 pounds per hour;

i. Applicable Compliance Method for SO_2:

Compliance with the above hourly emission limitation shall be determined using the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{minute}} \frac{49.6 \text{ ppmv*}}{10^6 \text{MMscf/scf}} \frac{0.066^1}{(0.7302^2 \times 520^3)} \frac{60 \text{ minutes}}{\text{hour}} = 2.1 \text{ lbs/hr}$$

*Sulfur concentration in the exhaust gas from AP-42 = 49.6 ppmv based upon 99.7% landfill gas control efficiency (represents worst-case emissions for SO_2)

[1] molecular wt of SO_2
[2]universal gas constant
[3]temperature

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm of landfill gas.Flow rate is based upon highest potential collected volume of landfill gas a provided in the PTI application. Therefore, the emission limitation represents potential-to-emit and ongoing compliance is assumed.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 6C.Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

ii. Applicable Compliance Method for NMOC:

Compliance with the above hourly emission limitation shall be determined using the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{Minute}} \frac{595 \text{ ppmv*}}{10^6 \text{MMscf/scf}} \frac{86.18^1}{(0.7302^3 \times 520^4)} \frac{60 \text{ minutes} \times (1-0.98)^2}{\text{hour}} = 1.2 \text{lbs/hr}$$

* NMOC concentration in inlet gas based on AP-42 = 595ppmv.

[1] molecular wt of NMOC as hexane
[2] control efficiency of the control device(s)
[3]universal gas constant
[4]temperature

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm of landfill gas.Flow rate is based upon highest potential collected volume of landfill gas as provided in the PTI application. Therefore, the emission limitations represent potential-to-emit and ongoing compliance is assumed.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 18 of 40 CFR Part 60, Appendix A.Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iii. Applicable Compliance Method for VOC:

Compliance with the above hourly emission limitation shall be determined using the following calculation:

Flow Rate ft^3 / Minute	595 ppmv* / 10^6MMscf/scf(0.7302[3]	86.18[1] / x 520[4])	60 minutes / hour	$(1-0.98)^2$	0.39^5 =0.3 lbs/hr

* NMOC concentration in inlet gas based on AP-42 = 595ppmv
[1] molecular wt of NMOC as hexane
[2] control efficiency of the control device(s)
[3]universal gas constant
[4]temperature
[5]percentage of VOC in landfill gas

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm of landfill gas.Flow rate is based upon highest potential collected volume of landfill gas a provided in the PTI application. Therefore, the emission limitation represents potential-to-emit and ongoing compliance is assumed.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 18 of 40 CFR Part 60, Appendix A.Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. Applicable Compliance Method for HCL:

Compliance with the above hourly emission limitation shall be determined using the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{Minute}} \left| \frac{42 \text{ ppmv*}}{10^6 \text{MMscf/scf}(0.7302^2 \times 520^3)} \right| \frac{36.5^1 60 \text{ minutes}}{\text{hour}} = 1.0 \text{ lb/hr}$$

*HCl concentration in the exhaust gas from AP-42 = 42.0 ppmv based upon 99.7% landfill gas control efficiency (represents worst-case emissions for HCl)
[1] molecular wt of HCl
[2]universal gas constant
[3]temperature

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm of landfill gas.Flow rate is based upon highest potential collected volume of landfill gas a provided in the PTI application. Therefore, the emission limitation represents potential-to-emit and ongoing compliance is assumed.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 265 or 26A of 40 CFR Part 60, Appendix A.Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

d. Emission Limitations:

Annual emissions limitations from the open flare controlling emissions from this emissions unit shall be limited as follows:

SO_2 emissions shall not exceed 9.0 tons of SO_2 per year.

NMOC emissions shall not exceed 3.0 tons of NMOC per year.

VOC emissions shall not exceed 1.2 tons of VOC per year.

HCl emissions shall not exceed 4.5 tons of HCl per year.

Applicable Compliance Method:

The hourly emission limitations for the above pollutants represent the potential-to-emit; therefore, compliance with the annual allowable emissions limitations shall be assumed (each annual limitation was calculated by multiplying the hourly allowable emissions limit by 8760 hours per year, and then dividing by 2000 pounds per ton).

e. Emission Limitations:

Annual emission limitations from the open flare controlling emissions from the landfill shall be limited as follows:

NO_x emissions shall not exceed 41.8 tons of NO_x per year as a rolling, 12-month summation.

CO emissions shall not exceed 227.3 tons of CO per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the above annual emission limitations shall be determined using the following calculations:

$$\frac{\text{Flow Rate } ft^3}{\text{minute } ft^3 \text{ LFG}} \cdot \frac{0.XX\ ft^3\ CH_4}{ft^3\ CH^4} \cdot \frac{10^3\ \text{BTU}}{10^6 \text{BTU}} \cdot \frac{0.068\ \text{lbs NOx*}}{\text{hour}} \cdot \frac{60\ \text{minutes}}{\text{yr}} \cdot \frac{8760\ \text{hr}}{2000\ \text{lbs}} \cdot \frac{\text{ton}}{} = 41.8 \text{ tons per yr}$$

$$\frac{\text{Flow Rate } ft^3}{\text{minute } ft^3 \text{ LFG}} \cdot \frac{0.XX\ ft^3\ CH_4}{ft^3\ CH^4} \cdot \frac{10^3\ \text{BTU}}{10^6 \text{BTU}} \cdot \frac{0.37\ \text{lbs CO*}}{\text{hour}} \cdot \frac{60\ \text{minutes}}{\text{yr}} \cdot \frac{8760\ \text{hr}}{2000\ \text{lbs}} \cdot \frac{\text{ton}}{} = 227.3 \text{ tons per yr}$$

*This value has been established based upon a manufacturer's performance guarantee.

Initial compliance was determined using the following values: Flow Rate = 4,250scfm(standard cubic feet) and an assumption of .55 ft^3 of methane per cubic foot of landfill gas.Flow rate is based upon highest potential collected volume of landfill gas as provided in the PTI application. Therefore, the emission limitations represent the potential-to-emit, and ongoing compliance is assumed.

If required, the permittee shall demonstrate compliance with these emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4, 7 and 10.Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

f. Emission Limitation:

There shall be no visible emissions from asbestos-containing materials during on-site transportation, transfer, unloading, deposition or compacting operations.

Applicable Compliance Method:

Compliance shall be demonstrated by satisfying the requirements specified in b)(1) and b)(2). If required, compliance shall be determine through visible emission observations performed in accordancewith U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

g. Emission Limitation:

There shall be no visible emissions from the open flare, except for periods not to exceed a total of five minutes during any two consecutive hours.

Applicable Compliance Method:

If required, compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22, and procedures specified in 40 CFR Part 60.18.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

(3) The net heating value of the gas being combusted at the flare shall be calculated as follows:

$$H_T = k\sum_{i=1}^{n} C_i H_i$$

where:

H_T = net heating value of the sample, MJ/scm; where the net enthalpy per mole of off gas is based on combustion at 25 degrees Celsius and 760 mm Hg, but the standard temperature of 20 degrees Celsius is used for determining the volume corresponding to one mole;

k = constant, 1.740×10^{-7} (1/ppm) (g mole/scm) (MJ/kcal), where the standard temperature for "g mole/scm" is 20 degrees Celsius;

C_i = concentration of sample component "i" in ppm on a wet basis, as measured for organics by Reference Method 18 and measured for hydrogen and carbon monoxide by ASTM D1946-90;

H_i = net heat of combustion of sample component "i", kcal/g mole at 25 degrees Celsius and 760 mm Hg. The heats of combustion may be determined using ASTM D4809-95 if published values are not available or cannot be calculated;

i = subscript denoting a specific component in the sample; and

n = total number of components within the sample.

The conversion factor of "26.84 Btu scm/MJ scf" can be used to convert the net heating value of the gas (H_T) from MJ/scm to Btu/scf.

[Authority for Term: OAC rule 3745-77-07(C)(1); 40 CFR 60.18; 40 CFR 63.11]

(4) The actual exit velocity of the flare shall be determined by dividing the volumetric flow rate (in units of standard temperature and pressure) of the flare header or headers that feed the flare, as determined by Reference Methods 2, 2A, 2C, or 2D (found in 40 CFR 60, Appendix A), as appropriate, by the unobstructed (free) cross-sectional area of the flare tip.

The conversion factor of "3.281 ft/m" can be used to convert the velocity from m/sec to ft/sec.

[Authority for Term: OAC rule 3745-77-07(C)(1); 40 CFR 60.18; 40 CFR 63.11]

g) Miscellaneous Requirements

(1) None.