



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

5/23/2013

Scott Herman
USA Waste Geneva Landfill, Inc.
4339 Tuttle Road
Geneva, OH 44041

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0204030303
Permit Number: P0112295
Permit Type: OAC Chapter 3745-31 Modification
County: Ashtabula

Certified Mail

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

Dear Permit Holder:

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

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

How to appeal this permit

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

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

How to save money, reduce pollution and reduce energy consumption

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

How to give us feedback on your permitting experience

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

How to get an electronic copy of your permit

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

If you have any questions, please contact Ohio EPA DAPC, Northeast District Office at (330)425-9171 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA
Ohio EPA-NEDO; Pennsylvania; Canada



FINAL

**Division of Air Pollution Control
Permit-to-Install
for
USA Waste Geneva Landfill, Inc.**

Facility ID: 0204030303
Permit Number: P0112295
Permit Type: OAC Chapter 3745-31 Modification
Issued: 5/23/2013
Effective: 5/23/2013



Division of Air Pollution Control
Permit-to-Install
for
USA Waste Geneva Landfill, Inc.

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Final Permit-to-Install
USA Waste Geneva Landfill, Inc.
Permit Number: P0112295
Facility ID: 0204030303
Effective Date: 5/23/2013

Authorization

Facility ID: 0204030303
Facility Description: Municipal Solid Waste Landfill
Application Number(s): A0046024, A0046451, A0046488, A0046667
Permit Number: P0112295
Permit Description: Chapter 31 modification permit to allow the expansion of the municipal waste landfill
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$1,450.00
Issue Date: 5/23/2013
Effective Date: 5/23/2013

This document constitutes issuance to:

USA Waste Geneva Landfill, Inc.
4339 Tuttle Road
Geneva, OH 44041

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

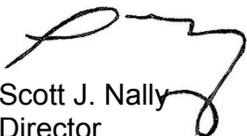
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330)425-9171

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Scott J. Nally
Director



Final Permit-to-Install
USA Waste Geneva Landfill, Inc.
Permit Number: P0112295
Facility ID: 0204030303
Effective Date: 5/23/2013

Authorization (continued)

Permit Number: P0112295

Permit Description: Chapter 31 modification permit to allow the expansion of the municipal waste landfill

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

Emissions Unit ID:	F001
Company Equipment ID:	Roadways and Parking Areas
Superseded Permit Number:	02-12039
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F002
Company Equipment ID:	Landfill Operations
Superseded Permit Number:	02-18646
General Permit Category and Type:	Not Applicable



Final Permit-to-Install
USA Waste Geneva Landfill, Inc.
Permit Number: P0112295
Facility ID: 0204030303
Effective Date: 5/23/2013

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

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

2. Severability Clause

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

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



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

4. Monitoring and Related Record Keeping and Reporting Requirements

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



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

5. Scheduled Maintenance/Malfunction Reporting

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

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

6. Compliance Requirements

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.



- c) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- d) The permittee shall submit progress reports to the Ohio EPA DAPC, Northeast District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

7. Best Available Technology

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

8. Air Pollution Nuisance

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

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Northeast District Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have



been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Northeast District Office. 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.)

10. Applicability

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

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

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).



- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

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

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

12. Permit-To-Operate Application

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

13. Construction Compliance Certification

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

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

14. Public Disclosure

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



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

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

16. Fees

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

17. Permit Transfers

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

18. Risk Management Plans

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

19. Title IV Provisions

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



Final Permit-to-Install
USA Waste Geneva Landfill, Inc.
Permit Number: P0112295
Facility ID: 0204030303
Effective Date: 5/23/2013

B. Facility-Wide Terms and Conditions



Final Permit-to-Install
USA Waste Geneva Landfill, Inc.
Permit Number: P0112295
Facility ID: 0204030303
Effective Date: 5/23/2013

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



Final Permit-to-Install
USA Waste Geneva Landfill, Inc.
Permit Number: P0112295
Facility ID: 0204030303
Effective Date: 5/23/2013

C. Emissions Unit Terms and Conditions



1. F001, Paved and unpaved roadways and parking areas.

Operations, Property and/or Equipment Description:

Facility roadways 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.	ORC 3704.03(T) OAC rule 3745-31-05(A)(3)	<p>Unpaved Roadways and Parking Areas</p> <p>25.17 tons/12-month period of fugitive particulate matter of 10 microns or less (PM10) and 93.25 tons/12-month period of fugitive particulate emissions (PE)</p> <p>No visible PE except for 3 minutes during any 60-minute period from any unpaved roadway or parking area.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See b)(2)a. through b)(2)f.)</p> <p>Paved Roadways and Parking Areas</p> <p>0.14 ton/year of fugitive particulate matter of 10 microns or less (PM10) and 0.68 tons/year of fugitive particulate emissions (PE)</p> <p>No visible PE except for one minute during any 60-minute period from any paved roadway or parking area.</p>
b.	OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A),



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
c.	OAC rule 3745-17-07(B)(1)	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).

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures on all 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 permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the paved 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.
- c. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for 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.
- d. 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.
- e. 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.



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

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:

<u>Roadway segment or area</u>	<u>minimum inspection frequency</u>
unpaved roadways and parking areas	once per operating day
paved roadways and parking areas	once per operating day

The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

(2) The permittee may, upon receipt of written approval from the Northeast District Office of Ohio EPA, modify the above-mentioned inspection frequencies, if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

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



e) Reporting Requirements

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

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. Emission Limitations:

25.17 tons/year of fugitive particulate matter of 10 microns or less (PM10) and 93.25 tons/year of fugitive particulate emissions (PE) on unpaved roadways

Applicable Compliance Method:

Compliance with fugitive PE and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 11/06) for unpaved roadways.

Should further updates in AP-42 occur, the most current equations for unpaved roads shall be used. These emission limits were based on a maximum of 77,651.8 vehicle miles traveled per year on 1.7 miles of road for daily cover and construction soil hauling, 29,325 vehicle miles traveled per year on 0.30 mile of road for waste hauling on working face, 87,975 vehicle miles traveled per year on 0.90 mile of road for waste hauling on unpaved perimeter roads, using 95 % control efficiency for PE and PM10 on unpaved perimeter roadways and 75 % control efficiency for PM and PM10 on working face and soil hauling roadways.

b. Emission Limitations:

0.14 ton/year of fugitive particulate matter of 10 microns or less (PM10) and 0.68 ton/year of fugitive particulate emissions (PE) on paved roadways

Applicable Compliance Method:

Compliance with fugitive PE and PM10 limitations shall be by using the emission factor equations in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 01/11) for paved roadways.



Should further updates in AP-42 occur, the most current equations for unpaved roads shall be used. These emission limits were based on a maximum of 19,550 vehicle miles traveled per year on 0.20 mile of road for vehicle miles traveled per year for waste hauling on paved entry and perimeter roads, using 95 % control efficiency for PE and PM10.

c. Emission Limitation:

No visible PE from paved roadways and parking areas except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE 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").

d. Emission Limitation:

No visible PE from unpaved roadways and parking areas except for a period of time not to exceed 3 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE 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, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.



2. F002, MSW Landfill with Active Landfill Gas Capture and Control System

Operations, Property and/or Equipment Description:

Municipal Solid Waste (MSW) landfill operations - waste disposal activities including placement, spreading, compacting, and covering; soil handling activities including cell construction; and gas generation. The landfill is not permitted to accept regulated asbestos-containing waste. The landfill is permitted for 1,500 tons per day AMDWR and a design capacity of 19,356,900 cubic yards (corresponding to approximately 17,421,210 tons). The active landfill gas capture and collection system includes one (1) 2,000-cfm open flare. Alternatively, the landfill gas may be combusted at the onsite engine plant (approved in Permit Nos. P0106559 and P0111476).

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.	ORC 3704.03(T) OAC rule 3745-31-05(A)(3)	<p>The NMOC requirements of this rule are equivalent to the 40 CFR Part 60, Subpart WWW as specified below.</p> <p>The HAP requirements of this rule are equivalent to the 40 CFR Part 63, Subpart AAAA as specified below. The GCCS is designed to capture and destroy NMOC as a surrogate for HAP emissions.</p> <p>Fugitive emissions from the landfill hill:</p> <p>Visible emissions of non-asbestos fugitive dust (waste handling, placement, spreading, compacting, and soil loading, unloading, spreading and compacting including cell construction) from this emissions unit shall not exceed 20% opacity as a 3-minute average.</p> <p>Fugitive particulate emissions (PE) from waste handling, placement, spreading, compacting, and soil loading, unloading, spreading and compacting including cell construction shall not exceed 8.95 tons per 12-month period.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Fugitive volatile organic compound (VOC) emissions shall not exceed 10.1 tons per rolling, 12-month period.</p> <p>See b)(2)h.</p> <p>2,000 cfm Open Flare</p> <p>CO emissions shall not exceed 0.37 lb/mmBtu from the open flare.</p> <p>NO_x emissions shall not exceed 0.068 lb/mmBtu from the open flare.</p> <p>SO₂ emissions shall not exceed 5.98 lbs/hr from the open flare.</p>
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	<p>PM₁₀ emissions shall not exceed 1.10 lbs/hr and 4.83 tons per year from the open flare. All PE from the open flare is PM₁₀.</p> <p>VOC emissions shall not exceed 0.13 lb/hr and 0.55 ton per year from the open flare.</p> <p>See b)(2)l.</p>
c.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)m.
d.	<p>40 CFR 60, Subpart WWW (60.750-759)</p> <p>[In accordance with 40 CFR Part 60.752 this emissions unit is municipal solid waste landfill that commenced construction, reconstruction or modification on or after May 30, 1991 having a design capacity greater than 2.5 million Mg and a NMOC emission rate of greater than 50 Mg/yr, and is subject to the emissions limitations/ control measures specified in this section.]</p>	<p>There shall be no visible particulate emissions from the open flare, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.</p> <p>The open flare shall be designed and operated in accordance with 40 CFR 60.18. (<i>treatment system</i>) The permittee shall route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of 40 CFR Part 60.752(b)(2)(iii)(A). The landfill gas-fired generator set located at this facility and permitted separately combust gas from the treatment system.</p> <p>See b)(2)a.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	40 CFR Part 63, Subpart AAAA (63.1930-1990) [In accordance with 40 CFR Part 63.1935, this emissions unit is a municipal solid waste landfill that has accepted waste since November 8, 1987 and has a design capacity greater than 2.5 million Mg and a NMOC emission rate of greater than 50 Mg/yr.]	See b)(2)b.
f..	OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
g.	OAC rule 3745-17-07(B)(1)	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.	OAC chapter 3745-19	See b)(2)c.
i.	OAC rule 3745-20-02 OAC rule 3745-20-06	This landfill shall not accept regulated asbestos-containing materials (RACM). Deposition and burial operations of any suspected non-regulated asbestos-containing waste or demolition debris shall be conducted in a manner that prevents any asbestos content from being broken up or dispersed before such materials are buried. See b)(2)i and b)(2)j.
j.	OAC rule 3745-20-07(D)	See b)(2)d.

(2) Additional Terms and Conditions

- a. The complete NSPS requirements, including the 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 Ohio EPA, Northeast District Office, Division of Air Pollution Control. Additional applicable requirements are listed in c)(1), d)(1), e)(1) and f)(2) below.



60.752(b)(2)(i)	Collection and control system design plan requirements
60.752(b)(2)(ii)	Collection and control system installation requirements
60.752(b)(2)(iii)	Control device design and operating requirements
60.752(b)(2)(iv)	Operation of gas collection systems
60.752(b)(2)(v)	Provisions for capping or removal of a GCCS
60.755(a)(6)	Approval by Administrator for non-conforming GCCS
60.755(b)	Timeline for placement of wells
60.759	Active collection system specifications

- b. The complete MACT requirements, including the 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 Ohio EPA, Northeast District Office, Division of Air Pollution Control. Additional applicable requirements are listed in c)(2), d)(2), and e)(2) below.

63.1990	Definitions
63.1945	Compliance timeframe
63.1950	Termination of compliance requirements
63.1955(a)(1)	Compliance with 40 CFR 60, subpart WWW
63.1955(b)	Compliance standards for collection and control system
63.1955(c)	Approval by Administrator for non-conforming GCCS

- c. There shall be no open burning, in violation of OAC chapter 3745-19, at this facility.
- d. If this landfill is permanently closed, the permittee shall comply with all of the applicable provisions of OAC rule 3745-20-07.
- e. The following landfill fugitive dust operations/sources are covered by this permit and subject to the above requirements:
- i. waste unloading;
 - ii. waste spreading and grading;
 - iii. waste compacting;
 - iv. soil loading and unloading;
 - v. soil spreading and grading for daily cover, intermediate cover and cell construction; and
 - vi. soil compacting for daily cover, intermediate cover and cell construction.



- f. The permittee shall employ best available control measures for the above identified landfill fugitive dust operations/sources for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance.
- g. The above-mentioned control measures shall be employed if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation affirms that use of the measures is unnecessary. Implementation of the control measures shall not be necessary for fugitive dust sources which 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.
- h. The annual fugitive VOC emission limitation represents the VOC portion of the fugitive nonmethane organic compound (NMOC) emission rate from the landfill. For the purpose of this permit and federal enforceability, NMOC emissions have been converted to VOC by applying the AP-42 Chapter 2.4 (11/98) conversion rate of 39% to the predicted NMOC emission rate from the Landfill Gas Emission Model (LandGEM). An NMOC emission limit was not established under this rule because there is not an established national ambient air quality standard (NAAQS) associated with NMOC. 40 CFR 60.750 et seq. (NSPS, Subpart WWW) addresses NMOC emissions; therefore, the monitoring, record keeping, and reporting requirements of this permit will reflect NMOC rather than VOC.
- i. The facility cannot accept for disposal any regulated asbestos-containing material as defined in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos, 40 CFR Part 61, Subpart M, Section 141 and OAC rule 3745-20, or any subsequent revisions to either rule. Regulated asbestos-containing material is defined to include:
 - i. friable asbestos material;
 - ii. Category I nonfriable asbestos-containing material that has become friable;
 - iii. Category I nonfriable asbestos-containing material that will be or has been subjected to sanding, grinding, cutting, or abrading; or
 - iv. Category II nonfriable asbestos-containing material that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.
- j. The permittee shall be limited to accepting only non-regulated asbestos-containing waste materials.



The permittee shall ensure that any Category I nonfriable asbestos-containing waste materials accepted for disposal will not be subjected to sanding, grinding, cutting, or abrading and shall not become friable during processing at the landfill; and shall ensure that Category II nonfriable asbestos-containing waste materials accepted for disposal do not become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during its handling, transfer, and burial at the landfill. Any nonfriable Category I or Category II asbestos-containing material that was generated from a NESHAP source and which becomes friable, also becomes subject to the Asbestos NESHAP regulations. If any regulated asbestos-containing waste material arrives at the landfill it cannot be accepted for disposal; and if any non-regulated asbestos-containing material becomes friable after it is accepted for disposal the permittee shall:

- i. cause or permit no visible emissions to the outside air from the asbestos-containing waste materials during on-site transportation, transfer, deposition, or compacting operations;
 - ii. assure that deposition and burial operations are conducted in a manner which prevents handling by equipment or persons that causes asbestos-containing waste materials to be broken-up or dispersed before the materials are buried;
 - iii. cover the asbestos-containing waste material with at least twelve inches of nonasbestos-containing material, as soon as practicable after deposition, but no later than at the end of the operating day; and
 - iv. assure that during the unloading, deposition, burial and initial compaction of asbestos-containing waste materials, the disposal site is restricted adequately to deter unauthorized entry of the general public and any unauthorized personnel to within one hundred feet of the operations.
- k. The emission limitations for the open flare has been established based upon the maximum flow rate of 2,000 scfm and the expected landfill gas quality. The landfill's potential to emit as predicted by USEPA's Landfill Gas Estimation Model (LandGEM), AP-42 emission factors, and standard industry assumptions are expected to occur after the year 2018 if the facility were to accept its authorized maximum daily waste each day. Based upon the above and the permit application, the facility has committed to applying for a permit to install additional control device capacity within 180 days of satisfying the following:
- i. the facility's captured landfill gas is greater than 90 percent of the existing flare capacity, as an annual average; and
 - ii. the collection system must be expanded in accordance with 40 CFR 60.753 and/or 60.755, and the newly collected LFG volume is anticipated to exceed the current flare capacity.
- l. 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 Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 Changes), such that BAT is no longer required by State regulations for NAAQS pollutants 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 3745-31-05, the requirements of 3745-31-05(A)(3) as effective December 1, 2006 will no longer apply.

- m. 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)(a) do not apply to PM₁₀ and VOC emissions from the open flare as the emissions are less than 10 tons per year.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3)(a) do not apply to the NMOC and methane emitted from this emissions unit. BAT (under Senate Bill 265 changes) is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been adopted under the Clean Air Act. NMOC, and methane are air contaminants that do not involve an established NAAQS.

c) Operational Restrictions

- (1) The permittee shall comply with the applicable restrictions required under 40 CFR Part 60, Subpart WWW, including the following sections:

60.753(a)	Collection system installation requirement
60.753(b)	Collection system negative pressure requirements
60.753(c)	Wellhead operational standards
60.753(d)	Surface monitoring standards
60.753(e)	Collection or control system shutdown
60.753(f)	Operate control or treatment system
60.753(g)	Corrective action for operational parameters

- (2) The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAA, including the following sections:

63.1960	Compliance demonstration, deviations, SSM plan
63.1965	Deviation defined



- (3) The maximum daily waste receipts for this emissions unit shall not exceed 1,500 tons.
- (4) The permittee shall cover and compact asbestos wastes in accordance with the following requirements:
 - a. As soon as practical after the placement of asbestos, but no later than the end of each working day, the asbestos-containing waste materials deposited at the site during the operating day shall be covered with at least 12 inches of non-asbestos-containing materials. Once the asbestos-containing materials are covered, the area shall be compacted.
 - b. Care shall be taken to ensure that disposed asbestos shall not be re-excavated in subsequent operations. Any accidentally exposed material shall be immediately recovered in accordance with the provisions of this permit.
 - c. Asbestos-containing waste materials shall be separated from the landfill final grade by no less than 24 inches of compacted non-asbestos-containing materials or by at least 6 inches of compacted non-asbestos-containing materials with a permanent cover of vegetation over the area, or in accordance with current requirements for closure, whichever is more stringent.

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 60, Subpart WWW, including the following sections:

60.754(b)	NMOC emission rate calculation after installation of collection and control system
60.755(a)(1)	Gas generation flow rate calculation to determine compliance
60.755(a)(2)	Determining sufficient density of gas collectors
60.755(a)(3)	Gas collection system monitoring and corrective action
60.755(a)(5)	Well monitoring and corrective action
60.755(c)	Surface monitoring procedures and corrective actions
60.756(a)	Monitoring of active gas collection system
60.756(b)	Monitoring of enclosed combustor and open flare
60.756(c)	Records retention
60.756(f)	Surface monitoring frequency
60.758(a)	Recordkeeping requirements
60.758(b)	Recordkeeping for flare compliance demonstration and design
60.758(c)	Recordkeeping for control device parametric monitoring deviations
60.758(d)	Recordkeeping for gas collector map
60.758(e)	Recordkeeping for collection and control system exceedances



- (2) The permittee shall comply with the applicable monitoring and record keeping restrictions required under 40 CFR Part 63, Subpart AAAAA, including the following sections:

63.1960	Compliance demonstration, deviations, SSM plan
63.1965	Deviation defined
63.1975	Clarification of 3-hour block averages
63.1980(a)	Recordkeeping according to 40 CFR 60, subpart WWW
63.1980(b)	Recordkeeping according to 40 CFR 63 and Table 1, NESHAP General Provisions, of this subpart including SSM plan requirements

- (3) The permittee shall identify and record each instance that the flare was not in operation when the landfill gas was not being routed to the treatment system.
- (4) Except as otherwise provided in this section, the permittee shall perform inspections of the landfill fugitive dust operations/sources in accordance with the following frequencies:

Landfill Fugitive Dust Operation/Source	Minimum Inspection Frequency
waste handling and placement	once during each day of operation
waste spreading, grading and compaction	once during each day of operation
soil spreading, grading and compaction	once during each day of operation
soil handling for cell construction	once during each day of operation

The purpose of the inspections is to determine the need for implementing the above-mentioned control measures for particulate emissions. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for a landfill fugitive dust operation/source 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 event shall be performed as soon as such event(s) has (have) ended, except if the next inspection is within one week.

- (5) The permittee shall maintain a daily operations log which records/documents any watering activity employed to minimize or eliminate visible emissions of fugitive dust for each waste placement area.

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 or due to the facility is closed;
- 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 control measures were required but not implemented.

The information above shall be kept separately for each landfill fugitive dust operation/source identified above, and shall be updated on calendar quarter basis within 30 days after the end of each calendar quarter.

- (6) The permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing and/or nondegradable wastes, excluded from collection as provided in 40 CFR 60.759(a)(3)(i), as well as any nonproductive areas excluded from collection as provided in 40 CFR 60.759(a)(3)(ii).

e) Reporting Requirements

- (1) The permittee shall submit semiannual reports and such other notifications and reports to Ohio EPA, Northeast District Office as required pursuant to 40 CFR Part 60, Subpart WWW, including the following sections:

60.757(a)	Initial and amended design capacity reporting
60.757(b)	NMOC emission rate reporting
60.757(c)	Collection and control system design plan submittal
60.757(d)	Closure report requirements
60.757(e)	Control equipment removal reporting
60.757(f)	Active collection system reporting
60.757(g)	Initial performance test reporting

- (2) The permittee shall comply with the applicable reporting requirements under 40 CFR Part 63, Subpart AAAA, including the following sections:

63.1980(a)	Semiannual reports according to 40 CFR 60, subpart WWW
63.1980(b)	Reporting according to 40 CFR 63 and Table 1, NESHAP General Provisions, of this subpart including SSM plan requirements

- (3) The permittee shall submit quarterly deviation (excursion) reports that include the following information:

- a. each day during which a fugitive dust inspection was not performed by the required frequency;
- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.



- (4) The permittee shall submit annual reports that include:
- a. the total waste acceptance, in tons per year; and
 - b. the total VOC emissions, and LandGEM inputs and output files, updated for the previous year's waste receipts.

Submitting the complete Fee Emission Report, including the LandGEM input and output files, in a timely manner will satisfy the annual report requirement above.

f) Testing Requirements

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

a. Emission Limitation:

Visible emissions of non-asbestos fugitive dust (load-in and wind erosion) from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

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

b. Emission Limitation:

Fugitive VOC emissions from the landfill shall not exceed 10.1 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated based on the following equation:

$$E = F \times 39 \% \times (1 - PC)$$

where:

E = emissions of fugitive VOC, in tpy;

F = NMOC mass generation rate for the current year or 12-month period, as predicted by LandGEM, multiplied by 1.25; (a predicted maximum total flow rate of NMOC at peak year 2004 predicted by the LANDGEM model was used to develop this limitation);



39% = the fractional portion of VOC in NMOC according to AP-42, Section 2.4 MSD Landfills, Table 2.4-2; and

PC = estimated fractional capture efficiency of NMOC by collection/control system, assumed to be 85% based upon site-specific data.

The LANDGEM model annual waste acceptance rate was limited to 391,000 tons per year for the purpose of developing emissions limitations. Historical and current actual waste acceptance rates will be used in the LandGEM model to calculate quantity "F", using an assumed NMOC concentration of 600 ppmv.

c. Emission Limitation:

Fugitive particulate emissions (PE) from handling, placement, grading, and compaction of soil and waste materials shall not exceed 8.95 tons per year.

Applicable Compliance Method:

Compliance with fugitive PE and PM₁₀ limitations for soil and waste handling activities shall be determined by using the emission factor equations in AP-42 Section 13.2.4 (revised 11/06). Compliance with fugitive PE limitations for grading and compaction shall be determined by using the emission factor equations in AP-42 Section 11.9 (revised 7/98). Should further updates in AP-42 occur, the most current equations shall be used.

$$E_t = E_{WH} + E_{WG} + E_{WC} + E_{SH} + E_{SG} + E_{SC}$$

where:

- E_t = total fugitive particulate emissions from the landfill (F002), in tpy;
- E_{WH} = emissions from waste handling, in tpy;
- E_{WG} = emissions from waste grading, in tpy;
- E_{WC} = emissions from waste compaction, in tpy;
- E_{SH} = emission from soil handling, in tpy.
- E_{SG} = emissions from soil grading, in tpy; and
- E_{SC} = emissions from soil compaction, in tpy;

$$E_{WH} = k \times 0.0032 [(U/5)^{1.3}/(M/2)^{1.4}] \times T \times (1 - CE)/ 2,000$$

where:

- U = mean wind speed, mph (assumed 10.5);
- M = material moisture content, % (14.2% per Table 13.2.4-1);
- 0.0032 = equation constant;
- k = particle size multiplier for <30 μm size, unitless (0.74 for PE, 0.35 for PM-10);
- T = waste handled per year, tons (no more than 547,500 tons/yr based on 1,500 tons/day limit, 1 transfer per ton, no more than 365 days/yr);



CE = fractional control efficiency, dimensionless (assumed 0.25 for low drop height); and
2,000 = lbs/ton.

$$E_{WG} = 0.040 \times S^{2.5} \times VMT_{WG} \times DAY_{WG} / 2,000$$

where:

S = mean vehicle speed, mph (assumed 1.0);
VMT_{WG} = daily vehicle miles travelled during grading operations, miles (assumed 9.5 based on 1.0 mph x 9.5 hours/day);
DAY_{WG} = operating days for vehicle employed in grading operations, days (no more than 365); and
2,000 = lbs/ton

$$E_{WC} = [((5.7 \times s^{1.2})/M^{1.3}) - CF] \times HR_{WC} / 2,000$$

where:

s = material silt content, % (assumed 10.0);
M = material moisture content, % (assumed 15.0);
CF = correction factor, unitless (1.0 per AP-42 Table 13.2.3-1 (1/95));
HR_{WC} = operating hours for vehicle employed in waste compaction operations, hours (no more than 3,467.5 based on 9.5 hours/day, 365 days/yr); and
2,000 = lbs/ton

$$E_{SH} = k \times 0.0032 [(U/5)^{1.3}/(M/2)^{1.4}] \times T \times (1 - CE) / 2,000$$

where:

U = mean wind speed, mph (assumed 10.5);
M = material moisture content, % (14.2% per Table 13.2.4-1);
0.0032 = equation constant;
k = particle size multiplier for <30 µm size, unitless (0.74 for PE, 0.35 for PM-10);
T = soil handled per year, tons (assumed no more than 1,827,102.4 tons/yr based on 2,502.88 tons/day, 2 transfers per ton, 365 days/yr);
CE = fractional control efficiency, dimensionless (assumed 0.25); and
2,000 = lbs/ton.

$$E_{SG} = 0.040 \times S^{2.5} \times VMT_{SG} \times DAY_{SG} / 2,000$$

where:

S = mean vehicle speed, mph (assumed 1.0);
VMT_{SG} = daily vehicle miles travelled during grading operations, miles (assumed 36.0 based on 1.0 mph x 3 vehicles x 12 hours/day);



DAY_{SG} = operating days for vehicle employed in grading operations, days (no more than 365); and
 2,000 = lbs/ton

$$E_{SC} = [((5.7 \times s^{1.2})/M^{1.3}) - CF] \times HR_{SC} \times (1 - CE) / 2,000$$

where:

s = material silt content, % (assumed 47.0 from onsite samples);
 M = material moisture content, % (assumed 13.0 from onsite samples);
 CF = correction factor, unitless (1.0 per AP-42 Table 13.2.3-1 (1/95));
 HR_{SC} = operating hours for vehicle employed in waste compaction operations, hours (assumed no more than 1,095 based on 3 hours/day, 365 days/yr);
 CE = fractional control efficiency, dimensionless (assumed 0.50), and
 2,000 = lbs/ton

d. Emission Limitation:

CO emissions shall not exceed 0.37 lb/mmBtu from the open flare.

Applicable Compliance Method:

Compliance with the short term emission limitation shall be demonstrated by the CO emission factor of 0.37 lb/mmBtu from AP-42, Section 13.5 Industrial Flares, Table 13.5-1 (9/31).

e. Emission Limitation:

NO_x emissions shall not exceed 0.068 lb/mmBtu from the open flare.

Applicable Compliance Method:

Compliance with the short term emission limitation shall be demonstrated by the NO_x emission factor of 0.068 lb/mmBtu from AP-42, Section 13.5 Industrial Flares, Table 13.5-1 (9/91).

f. Emission Limitation:

SO₂ emissions shall not exceed 5.98 lbs/hr from the open flare.

Applicable Compliance Method:

Compliance with the short term emission limitation shall be calculated by the equation below:

$$E = [(Q \times (300 \text{ ppmv}/1,000,000 \text{ MMscf/scf}) \times (64.066 \text{ molecular weight of SO}_2)/(386 \text{ scf/lb-mol LFG})] \times (60 \text{ min/hr})$$



where:

E = emission rate, in pound per hour;
 Q = actual landfill gas flowrate to the flare, dscf/hr, i.e., 2000 scfm maximum;
 300 ppmv = sulfur concentration in landfill gas from site-specific landfill gas data;
 and
 386 = the mass volume of landfill gas, in scf/lb-mol at standard temperature.

g. Emission Limitation:

PM₁₀ emissions shall not exceed 1.10 lbs/hr and 4.83 tons per year from the open flare. All PE from the open flare is PM10.

Applicable Compliance Method:

Compliance with the short term emission limitation may be calculated by the equation below:

$$E = EF \times Q \times PM \times 60$$

where:

E = emission rate, lb/hr;
 EF = emission factor from AP-42, Section 2.4 MSW Landfills (11/98), 17 lbs/10⁶dscf of CH₄;
 Q = actual landfill gas flowrate to the flare, dscf/hr, i.e., 2000 scfm maximum;
 PM = fractional portion of LFG that is CH₄; 0.54 site-specific value was used in developing the permit limitations; and
 60 = conversion factor, minute/hour.

h. Emission Limitation:

VOC emissions shall not exceed 0.13 lb/hr and 0.55 ton per year from the open flare.

Applicable Compliance Method:

Compliance with the short term emission limitation shall be calculated by the equation below:

$$E = [(Q \times (595 \text{ ppmv} / 1,000,000 \text{ MMscf/scf} \times 39 \text{ percent}) \times (86.18 \text{ molecular weight of NMOC as hexane}) / (386 \text{ scf/lb-mol LFG})] \times [(60 \text{ min/hr})(1 - 0.98)]$$

where:

E = emission rate, in pound per hour;
 Q = actual landfill gas flow rate to the flare, i.e., 2000 scfm maximum;
 595 ppmv = default NMOC concentration in landfill gas from AP-42, Section 2.4 MSW Landfills;
 39% = the fractional portion of VOC in NMOC according to AP-42, Section 2.4 MSD Landfills, Table 2.4-2;



386 = the mass volume of landfill gas, in scf/lb-mol at standard temperature; and
 98 % = is the assumed VOC destruction efficiency of the open flare.

i. Emission Limitation:

There shall be no visible particulate emissions from the open flare, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

Applicable Compliance Method:

Compliance with the visible emissions limitation shall be determined in accordance with U.S. EPA Method 22 in Appendix A of 40 CFR Part 60. The observation period is 2 hours and shall be used according to Method 22.

- (2) The permittee shall comply with the applicable testing requirements required under 40 CFR Part 60, Subpart WWW, including the following sections:

60.754(d)	Flare performance test methods
60.754(e)	Net heating value for performance test
60.755(d)	Surface monitoring instrumentation specifications and procedures

g) Miscellaneous Requirements

- (1) The permittee shall comply with the applicable requirements required under 40 CFR Part 60, Subpart WWW, including the following sections:

60.754(c)	PSD applicability
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