



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

1/30/2013

Mr. Mike Imbrock
Henry County Landfill
PO Box 96
Malinta, OH 43535

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0335002009
Permit Number: P0109418
Permit Type: Initial Installation
County: Henry

Certified Mail

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
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 and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. 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 PTIO 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/permitsurvey.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, Northwest District Office at (419)352-8461 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: Ohio EPA-NWDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Henry County Landfill**

Facility ID:	0335002009
Permit Number:	P0109418
Permit Type:	Initial Installation
Issued:	1/30/2013
Effective:	1/30/2013
Expiration:	4/4/2022



Division of Air Pollution Control
Permit-to-Install and Operate
for
Henry County Landfill

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Final Permit-to-Install and Operate
Henry County Landfill
Permit Number: P0109418
Facility ID: 0335002009
Effective Date: 1/30/2013

Authorization

Facility ID: 0335002009
Application Number(s): A0043678
Permit Number: P0109418
Permit Description: Installation permit for municipal solid waste landfill operations including an internal combustion engine.
Permit Type: Initial Installation
Permit Fee: \$400.00
Issue Date: 1/30/2013
Effective Date: 1/30/2013
Expiration Date: 4/4/2022
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Henry County Landfill
L-622 Township Road 11
Malinta, OH 43535

of a Permit-to-Install and Operate 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, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Scott J. Nally
Director



Final Permit-to-Install and Operate
Henry County Landfill
Permit Number: P0109418
Facility ID: 0335002009
Effective Date: 1/30/2013

Authorization (continued)

Permit Number: P0109418
Permit Description: Installation permit for municipal solid waste landfill operations including an internal combustion engine.

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:	F001
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P001
Company Equipment ID:	P001
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
Henry County Landfill
Permit Number: P0109418
Facility ID: 0335002009
Effective Date: 1/30/2013

A. Standard Terms and Conditions



1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is



very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.



10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northwest District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means 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.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting¹ a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

¹ Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile 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).



13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



Final Permit-to-Install and Operate
Henry County Landfill
Permit Number: P0109418
Facility ID: 0335002009
Effective Date: 1/30/2013

B. Facility-Wide Terms and Conditions



Final Permit-to-Install and Operate

Henry County Landfill

Permit Number: P0109418

Facility ID: 0335002009

Effective Date: 1/30/2013

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) The Ohio EPA has determined that this facility may be applicable to the requirements of an area source MACT/GACT rule that the Ohio EPA does not have the delegated authority to implement. Although Ohio EPA has determined that an area source MACT (also known as 'GACT' - Generally Achievable Control Technology) may apply, at this time Ohio EPA does not have the authority to enforce this standard. Instead, U.S. EPA has the authority to enforce this standard. Please be advised that all requirements associated with these rules are in effect and are enforceable by U.S. EPA. For more information on the area source rules, please refer to the following U.S. EPA website: <http://www.epa.gov/ttn/atw/area/arearules.html>

Area source MACT/GACT applicability may include, but may not be limited to, 40 CFR, Part 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines).



Final Permit-to-Install and Operate
Henry County Landfill
Permit Number: P0109418
Facility ID: 0335002009
Effective Date: 1/30/2013

C. Emissions Unit Terms and Conditions



1. F001, Landfill Operations

Operations, Property and/or Equipment Description:

Municipal Solid Waste Landfill

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. 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)	9.65 tons of fugitive nonmethane organic compounds (NMOC)/year 1500 tons of fugitive methane/year 7.72 tons fugitive volatile organic compounds (VOC)/year 10.5 tons fugitive particulate emissions (PE) /year 7.84 tons fugitive particulate matter 10 microns or less in size (PM ₁₀) /year Visible fugitive PE shall not exceed 20% opacity as a three-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 c)(1) through c)(3)]
b.	40 CFR 60.750 et seq. (NSPS Subpart WWW)	See b)(2)a.
c.	40 CFR 63.1930 et seq. (MACT Subpart AAAA)	none [See b)(2)d.]
d.	OAC rule 3745-17-07(B)(1)	none[See b)(2)e.]
e.	OAC rule 3745-17-08(B)	none [See b)(2)f.]

(2) Additional Terms and Conditions

- a. The permittee, having a landfill design capacity of less than 2.5 million megagrams by mass and/or 2.5 million cubic meters by volume, has submitted an initial design capacity report to the director (the appropriate Ohio EPA Division of Air Pollution Control District Office or local air agency). Submittal of the initial design capacity report has fulfilled the requirements of 40 CFR Subpart WWW. It should be noted that the landfill is scheduled for closure within the operating year of 2013 and no change to the design capacity prior to closure has been authorized.
- b. This permit addresses operations prior to closure associated with a fully operational landfill and also addresses permitting requirements associated with a closed landfill. This permit shall address the transfer of operations from a fully operational landfill to a closed landfill by the following terms and conditions becoming void upon completion of closure activities:
 - i. b)(2)f, b)(2)g, c)(1) and c)(4) shall become void upon the date that solid waste is no longer being placed in the landfill;
 - ii. c)(2) and c)(3) and shall become void upon the date that capping of the landfill is complete.
- c. The potential to emit for carbon monoxide (CO) emissions from landfill operations is considered to be negligible and therefore best available technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not include the establishment of CO emission limitations. Potential emissions of CO are 0.73 ton per year and are based US EPA's LandGEM program and AP-42, Chapter 2.4 (11/98). See f)(1)a. for LandGEM details.
- d. This facility is not subject to 40 CFR Part 63, Subpart AAAA, pursuant to 40 CFR 63.1935.
- e. 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).



- f. The 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)(1).
- g. The facility shall not accept for disposal any regulated asbestos containing material (RACM) 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. RACM 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.
- h. The permittee shall be limited to accepting only non-regulated asbestos-containing waste materials. The permittee shall ensure that any non-regulated Category I or II nonfriable asbestos-containing waste materials accepted for disposal will not become friable during processing at the landfill; and 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. If any regulated Category II 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. not cause or permit visible emissions from the non-regulated Category I or II 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 the non-regulated Category I or II asbestos-containing waste materials to be broken-up or dispersed before the materials are buried;
 - iii. cover the non-regulated Category I or II asbestos-containing waste material with at least twelve inches of non-asbestos-containing material, as soon as practicable after deposition, but no later than at the end of the operating day; and
 - iv. during the unloading, deposition, burial, and initial compaction of the non-regulated Category I or II asbestos-containing waste materials, assure



that 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.

- i. There shall be no open burning, in violation of OAC Chapter 3745-19, at this facility.
 - j. Pursuant to the authority in ORC section 3704.03(L), any representative of the director may, upon presentation of proper identification, enter at any reasonable time upon any portion of the property where this landfill is located, including any improvements thereon, to make inspections; take samples; conduct tests; examine records or reports pertaining to any emissions of air contaminants; and inspect monitoring equipment, emissions control equipment, and/or methods of operation and gas sampling. No operator or agent of this landfill shall act in any manner to refuse, hinder, or thwart this legal right of entry.
- c) Operational Restrictions
- (1) The permittee shall ensure that solid wastes are deposited, spread, and compacted in such a manner as to minimize or prevent visible emissions of fugitive dust. The permittee shall require all truckloads of solid waste to be unloaded in a manner that will minimize the drop height of the solid wastes. Any dusty materials or wastes likely to become airborne shall be watered as necessary prior to or during dumping operations in order to minimize or eliminate visible emissions of fugitive dust. Watering shall be conducted in such a manner as to avoid the pooling of liquids and runoff. No dusty material shall be dumped during periods of high wind speed, unless the material has been treated to prevent fugitive dust emissions from becoming airborne.
 - (2) The permittee shall employ best available control measures for the above-identified landfill operations and all other landfill fugitive dust operations/sources (i.e. daily cover activities, landfill capping activities, etc.) for the purpose of ensuring compliance with applicable requirements. In accordance with the permit application, the permittee maintains that the inherent moisture content of the materials involved in fugitive dust operations/sources is at a level which is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee shall employ best available control measures to ensure compliance.
 - (3) Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
 - (4) The permittee shall cover and compact asbestos wastes in accordance with the following requirements:
 - a. As soon as practical after the placement, but no later than the end of each working day, the non-regulated Category I or II asbestos-containing waste 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 the disposed non-regulated Category I or II asbestos-containing wastes are not be re-excavated in subsequent operations. Any accidentally exposed material shall be immediately re-covered in accordance with the provisions of this permit.
 - c. The non-regulated Category I or II 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 where a permanent cover of vegetation is established 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 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, and the year-by-year waste acceptance rate.
 - (2) The permittee shall maintain records of the total volume of material received each day. These records shall be maintained for a period of not less than three years, and the records shall be available for review by the director or his representative during normal business hours.
- e) **Reporting Requirements**
- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER be submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
 - (2) The submittal of the initial design capacity report, as required or noted above, shall fulfill the requirements of 40 CFR Subpart WWW.
- f) **Testing Requirements**
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
9.65 tons NMOC /year
1500 tons methane /year.
7.72 tons VOC /year



Applicable Compliance Method:

Emissions shall not exceed these values based on the calculations referenced below. These calculations represent the highest emission rates which could occur based on US EPA's Landfill Gas Emission Model (LandGEM).

The maximum gas generation/emissions were calculated or predicted using LandGEM, based on the proposed landfill capacity of (1,200,000 megagrams) divided equally over approximately 43 years of proposed operation, at the maximum receiving rate of 27,900 megagrams of waste material per year (91 Mg /day for 307 days/yr). Maximum estimations are for year 2008.

- i. NMOC concentrations and emissions were determined according to 40 CFR 60, Appendix A, Method 25C and LandGEM (Tier 2 value of 102).
- ii. CH₄ emissions were estimated according to US EPA's AP-42, Compilation of Air Pollution Emission Factors, Chapter 2.4, for municipal solid waste landfills, (11/98) and LandGEM.
- iii. VOC emissions were estimated as 80 percent of NMOC according to 61 FR 9912.

b. Emission Limitation:

10.5 tons of fugitive PE /year

7.84 tons of fugitive PM₁₀ /year

Applicable Compliance Method:

The emission limitations were established by combining the uncontrolled emissions associated with the landfill fugitive dust operations /sources of: solid waste unloading, bulldozing, grading, daily cover soil loading /unloading, and landfill compactor operation. The combined uncontrolled emissions were calculated using appropriate AP-42 emission factors [Section 11.9 (Jul 98) and 13.2.4 (Nov 06)] and associated maximum material throughputs, etc.

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the annual PE and PM₁₀ limitations shall also be demonstrated.

c. Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity as a three-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, 2002, and the modifications listed in paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3).



Final Permit-to-Install and Operate

Henry County Landfill

Permit Number: P0109418

Facility ID: 0335002009

Effective Date: 1/30/2013

g) Miscellaneous Requirements

- (1) The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.



2. P001

Operations, Property and/or Equipment Description:

350 kW Diesel Generator - (3.2 mmBtu/hr input - 429 HP output)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. b)(1)b., b)(2)a., c)(2), and d)(2).

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 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)	4.41 pounds of nitrogen oxides (NO _x) per million Btu 0.95 pound of carbon monoxide (CO) per million Btu; 2.97 tons CO per year 0.36 pound of organic compounds (OC) per million Btu; 1.12 tons OC per year 0.97 tons particulate emissions (PE) per year 0.005 tons sulfur dioxide (SO ₂) per year fuel sulfur content restrictions [See c)(1)] See b)(2)b.
b.	OAC rule 3745-31-05(E)	13.8 tons NO _x per year See b)(2)a.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-11(B)(5)(a)	0.310 lbPE /mmBtu of actual heat input
d.	OAC rule 3745-17-07(A)(1)	Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
e.	OAC rule 3745-18-06(G)	See b)(2)c.
f.	40 CFR Part 60 Subpart IIII	See b)(2)d.

(2) Additional Terms and Conditions

- a. The permittee has requested a state-only enforceable restriction of 13.8 tons NO_x per year in order to avoid "Ohio Acceptable Incremental Impact" modeling requirements. The enforceable restriction limits "new emissions" of NO_x below the 25 tons per year "Ohio Modeling Significant Emissions Rate" threshold. This annual emission rate is based on a throughput restriction of 44,600 gallons of number 2 fuel oil (see c)(2)).
- b. The requirements of this rule include compliance with OAC rule 3745-17-11(B)(5)(a), OAC rule 3745-17-07(A)(1), and OAC rule 3745-31-05(E).
- c. This emissions unit is exempt from the requirements of OAC rule 3745-18-06, pursuant to OAC rule 3745-18-06(B).
- d. This emissions unit was installed (ordered) prior to July 11, 2005, and is therefore not subject to the provisions of 40 CFR Part 60 Subpart IIII.
- e. All particulate matter is 10 microns or less in size (PM₁₀).

c) Operational Restrictions

- (1) The permittee shall combust only fuel oil number 2 in this emissions unit.

The oil combusted in this emissions unit shall only be fuel oil number 2, as defined by the American Society for Testing and Materials in ASTM D396-78, 89, 90, 92, 96, or 98, "Standard Specification for Fuel Oils". The sulfur content of the number 2 fuel oil combusted in this engine shall not exceed 15 ppm or 0.0015% sulfur by weight.

- (2) The maximum annual usage of fuel oil number 2 in this emissions unit shall not exceed 44,600 gallons per year.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each shipment of oil received for burning in this engine, the permittee shall maintain records of the total quantity of the diesel oil received and the oil supplier's (or permittee's) analyses for sulfur content, in parts per million or percent by weight. The permittee shall perform or require the supplier to perform the analyses for sulfur content in accordance with 40 CFR 80.580, using the appropriate ASTM methods. These



records shall be retained for a minimum of 5 years and shall be available for inspection by the Director or his/her representative.

- (2) The permittee shall record and maintain records of number 2 fuel oil usage in this emissions unit, in gallons, for the calendar year.
- (3) For each day during which a fuel other than fuel oil number 2 is burned in this emissions unit, the permittee shall maintain a record of the type and quantity of fuel burned.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

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:
4.41 pounds of NO_x per million Btu

Applicable Compliance Method:

The emission limitation was established in accordance with an AP-42 emissions factor (Table 3.3-1, Oct 1996). If required, compliance with the NO_x emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1-4 and 7E of 40 CFR Part 60, Appendix A.

- b. Emissions Limitation:
0.95 pound of CO per million Btu

Applicable Compliance Method:

The emission limitation was established in accordance with an AP-42 emissions factor (Table 3.3-1, Oct 1996). If required, compliance with the CO emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

- c. Emissions Limitation:
0.36 pound of OC per million Btu

Applicable Compliance Method:

The emission limitation was established in accordance with an AP-42 emissions factor (Table 3.3-1, Oct 1996). If required, compliance with the VOC emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1-4 and 25 or 25A, as applicable, of 40 CFR Part 60, Appendix A.



- d. Emissions Limitation:
13.8 tons NO_x per year
2.97 tons CO per year
1.12 tons OC per year
0.97 tons PE per year

Applicable Compliance Method:

The annual emission limitations were established by multiplying the lb/mmBtu limitation by 0.14 mmBtu /gallon, and then a maximum fuel usage of 44,600 gallons /year, then, and then dividing by 2000 lbs/ton. Therefore, provided compliance with the annual fuel usage restriction is shown, compliance with the annual emission limitation shall also be demonstrated.

- e. Emissions Limitation:
0.005 tons SO₂ per year

Applicable Compliance Method:

The annual emission limitation was established by multiplying the annual fuel usage restriction of 44,600 gallons by 0.14 mmBtu /gallon, then by the maximum fuel sulfur content of 0.0015 weight percent, then by the conversion factor of [1 ton /2000 lb], then by an additional conversion factor of 1.01 lb SO₂ /mmBtu.

Therefore, provided compliance with the annual fuel usage restriction is shown, compliance with the annual emission limitation shall also be demonstrated.

- f. Emission Limitation:
0.310 lbPE /mmBtu of actual heat input

Applicable Compliance Method:

The emission limitation was established in accordance with an AP-42 emissions factor (Table 3.3-1, Oct 1996). If required, compliance with the PE emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A.

- g. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

- g) Miscellaneous Requirements

- (1) None.