



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

8/22/2016

Certified Mail

JOHN ESLICH
 STARK C & D DISPOSAL, INC.
 3525 BROADWAY AVE. NE
 LOUISVILLE, OH 44641

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 1576001703
 Permit Number: P0101031
 Permit Type: Renewal
 County: Stark

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**
- **What should you do if you notice a spill or environmental emergency?**

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/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

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

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Canton City Health Department at (330)489-3385 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: Canton



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
STARK C & D DISPOSAL, INC.**

Facility ID:	1576001703
Permit Number:	P0101031
Permit Type:	Renewal
Issued:	8/22/2016
Effective:	8/22/2016
Expiration:	7/27/2026



Division of Air Pollution Control
Permit-to-Install and Operate
for
STARK C & D DISPOSAL, INC.

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Final Permit-to-Install and Operate
STARK C & D DISPOSAL, INC.
Permit Number: P0101031
Facility ID: 1576001703
Effective Date: 8/22/2016

Authorization

Facility ID: 1576001703
Application Number(s): A0032790
Permit Number: P0101031
Permit Description: First-issue Permit-to-Install and Operate (PTIO) superseding PTI 15-1294 for material handling at a construction & demolition debris (C&D) landfill not receiving regulated asbestos containing materials.
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 8/22/2016
Effective Date: 8/22/2016
Expiration Date: 7/27/2026
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

STARK C & D DISPOSAL, INC.
7280 LISBON STREET
East Canton, OH 44730

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:

Canton City Health Department
420 Market Avenue
Canton, OH 44702-1544
(330)489-3385

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


Craig W. Butler
Director



Final Permit-to-Install and Operate
STARK C & D DISPOSAL, INC.
Permit Number: P0101031
Facility ID: 1576001703
Effective Date: 8/22/2016

Authorization (continued)

Permit Number: P0101031

Permit Description: First-issue Permit-to-Install and Operate (PTIO) superseding PTI 15-1294 for material handling at a construction & demolition debris (C&D) landfill not receiving regulated asbestos containing materials.

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

Emissions Unit ID:	F002
Company Equipment ID:	Material Handling
Superseded Permit Number:	15-1294
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
STARK C & D DISPOSAL, INC.
Permit Number: P0101031
Facility ID: 1576001703
Effective Date: 8/22/2016

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. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. 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 of this permit 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 [DO/LAA] 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 submitting 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 emission 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.

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
STARK C & D DISPOSAL, INC.
Permit Number: P0101031
Facility ID: 1576001703
Effective Date: 8/22/2016

B. Facility-Wide Terms and Conditions



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) None.



Final Permit-to-Install and Operate
STARK C & D DISPOSAL, INC.
Permit Number: P0101031
Facility ID: 1576001703
Effective Date: 8/22/2016

C. Emissions Unit Terms and Conditions

1. F002, Material Handling

Operations, Property and/or Equipment Description:

Material Handling at Construction and Demolition (C & D) Landfill including material transfer, aggregate handling, load-in/load-out operations, and wind erosion with a maximum of 400,000 tons of C&D material accepted annually.

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) [Best Available Technology (BAT) established in PTI 15-1294, issued 8/20/1997]	Particulate emissions (PE) from fugitive dust shall not exceed 6.42 tons per year. The requirements of this rule also include compliance with OAC rules 3745-17-07(B) and 3745-17-08(B). See b(2)g. and h., c)(1)
b.	OAC rule 3745-17-07(B)	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. See b)(2)b.ii.(h).
c.	OAC rule 3745-17-08(B) [Reasonably Available Control Measures (RACM) for Material	See b)(2)a. and b. and c)(2) through (5).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	Handling at Construction and Demolition (C & D) Landfills]	
d.	Substitute Amended House Bill 397 [Hydrogen Sulfide Emissions Contingency Plan for C & D Landfills]	See b)(2)c.
e.	OAC rule 3745-19 [No Open Burning]	See b)(2)d.
f.	ORC section 3704.03(L) [Authority to Enter]	See b)(2)e.
g.	OAC rule 3745-20-07(D) [Landfill Closure]	See b)(2)f.

(2) Additional Terms and Conditions

- a. All vehicles hauling construction and demolition (C & D) materials shall be closed, covered or tarped when coming to or leaving the facility in order to minimize or eliminate visible emissions of fugitive dust and to eliminate load loss.
- b. The permittee shall ensure C & D materials are deposited, spread and compacted in such a manner as to minimize or prevent visible emissions of fugitive dust.
 - i. When dumping C & D materials, the permittee shall implement the following procedures:
 - (a) any loads which appear to contain dusty C & D materials shall be watered prior to dumping of the load;
 - (b) no dusty C & D materials shall be dumped during periods of high wind speed, unless they have been treated to prevent them from becoming airborne;
 - (c) the permittee shall ensure that all truckloads of C & D materials are unloaded in a manner which will minimize the drop height of the C & D materials and are dumped as near to the point of final placement as possible; and
 - (d) during the dumping of any load of C & D materials, in which dusty C & D materials become airborne, the C & D materials shall be watered as necessary to minimize or eliminate visible emissions of fugitive dust.
 - ii. When handling and stockpiling C & D materials and/or cover materials, the permittee shall implement the following procedures:

- (a) any dusty C & D materials to be stored prior to disposal, shall be watered, as necessary, or have a temporary soil cover;
 - (b) all exposed C & D materials shall be covered with cover materials by the end of each week's operation;
 - (c) to minimize handling of the C & D materials, spreading and compacting shall occur in one operation;
 - (d) the permittee shall minimize the handling and the stockpiling of cover materials, except for top soil;
 - (e) unvegetated cover materials and soil in the waste disposal area must be periodically wetted with water and shall be handled in such a manner as to minimize or eliminate visible emissions of fugitive dust;
 - (f) the frequency and amounts of water applications will depend on weather conditions, cover material conditions, and soil conditions;
 - (g) a record of water applications required by these terms and conditions shall be maintained at the facility site for a period of not less than five years and shall be made available to the Director, or any authorized representative of the Director, for review during normal business hours; and
 - (h) the visible emissions of fugitive dust from C & D material handling and covering operations described in these terms and conditions shall not exceed twenty percent (20%) opacity as a three-minute average, determined using U.S. EPA Method 9 as specified in OAC rule 3745-17-03(B).
- c. Under Substitute Amended House Bill 397 (Sub. Am. H.B. 397), effective December 22, 2005, Ohio EPA is required to develop rules governing the operation of construction and demolition (C & D) landfills. Sub. Am. H.B. 397 authorizes the Director of Ohio EPA to adopt rules requiring contingency plans for effective action in response to hydrogen sulfide or other gases created by the operation of a C & D facility. Because these rules are not yet written, Ohio EPA has not placed terms and conditions detailing the contingency plan requirements in this permit. However, Ohio EPA believes it is important to have in place a contingency plan to deal with potential hydrogen sulfide/other gas emissions from C & D facilities. Therefore, as a condition of this permit, the permittee is required to develop and implement a hydrogen sulfide/other gas emission contingency plan by the dates required for sources in the C & D rules developed in response to Sub. Am. H.B. 397.
- d. There shall be no open burning, in violation of OAC Chapter 3745-19, at this facility.

- e. 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.
- f. If this landfill is permanently closed, the permittee shall comply with all of the applicable provisions of OAC rule 3745-20-07.
- g. Deposition and burial operations of any suspected non-regulated Category I or Category II asbestos-containing waste or demolition debris shall be conducted in a manner that prevents any asbestos-containing material from being broken up or dispersed before such materials are buried.
- h. 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.

In addition, this facility shall not accept for disposal any Category II nonfriable asbestos-containing material. For asbestos material this facility shall be limited to accepting Category I nonfriable asbestos-containing material which has not or will not become friable during processing at the landfill and has not or will 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.

c) Operational Restrictions

- (1) The permittee shall accept no more than 400,000 tons of C&D material per calendar year.

- (2) 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.
 - (3) 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 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.
 - (4) The above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the fugitive dust operation/sources until further observation confirms that use of the control measure(s) is unnecessary.
 - (5) 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.
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) The permittee shall maintain records of the total volume and/or tons of material received each day. These records shall be maintained for a period of not less than five years, and the records shall be available for review by the Director or his representative during normal business hours.
 - (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from non-asbestos-containing materials resulting from any landfill operations (such as wastes unloading, covering, excavation, and wind erosion). The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

- d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
- (3) 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 dumping/placement area; the record shall include the time, the location, and the amount of water employed, in gallons.
- e) Reporting Requirements
- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
 - (2) 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.
 - (3) The permittee shall identify the following information in the annual PER in accordance with the monitoring requirements in Term d)(2):
 - a. identify all days during which any visible emissions of fugitive dust were observed from operations involving this emissions unit (such as wastes unloading, covering, excavation and wind erosion); and
 - b. describe any corrective actions taken to eliminate the visible emissions.

The above information shall be provided as an attachment to the PER. If there were no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

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.

- a. 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).

b. Emission Limitation:

Fugitive dust emissions shall not exceed 3.0 tons per year from material transfer, aggregate handling, load-in/load-out operations, and wind erosion.

Applicable Compliance Method:

The maximum potential emission rate for fugitive dust for material handling and storage pile load-in and load-out operations was calculated by multiplying the emission factor derived from Equation 1 from AP-42, Compilation of Air Pollution Emission Factors, Chapter 13.2.4-3 (1/95), for Aggregate Handling and Storage Piles, by the maximum throughput of 400,000 tons for all storage pile operations, material transfer, and handling operations combined. The estimated emissions have been reduced by applying a control efficiency of 50% for the application of water.

$$E = k(0.0032)[(U/5)^{1.3}]/[(M/2)^{1.4}]$$

where:

E = emission factor, in pound/ton;

k = particle size multiplier, dimensionless [0.74 for PM, 0.35 for PM₁₀];

U = mean wind speed, in miles per hour [11 mph, above average for Ohio]; and

M = material moisture content, in %.

when k = 0.74, U = 11.0, and M = 4.0, then E = 0.0025 lb/ton

$$0.0025 \text{ lb/ton} \times 400,000 \text{ tons/yr} = 1,000.34 \text{ lb/yr}$$

$$1,000.34 \text{ lb/yr} \times 1 \text{ ton}/2000 \text{ lbs} \times (100\% - 50\% \text{ control}) = 0.25 \text{ ton/yr.}$$

The maximum potential emission rate for fugitive dust from wind erosion was calculated by multiplying the emission factor derived from Equation 5 from U.S. EPA's Air Pollution Engineering Manual (1992), Chapter 4 on Fugitive Emissions, by the maximum surface area of 15 acres of material handling area and landfill working face. The estimated emissions have been reduced by applying a control efficiency of 85% for the application of water.

$$E \text{ (lb/day/acre)} = 1.7 \text{ (s/1.5)} \text{ (365-p/235)} \text{ (f/15)}$$

where:

E = emission factor in lb/day/acre

s = silt content

p = number of days with greater than 0.01 inches of precipitation (0 days for worst case scenario)

f = percentage of time wind speed exceeds 12 mph (20%)

when s = 6.4, p = 0, and f = 20%, then E = 15.02 lb/day/acre

15.02 lb/day/acre x 15 acres x 365 day/yr x ton/2000 lb = 41.12 tons/yr

41.12 tons/yr x (100% - 85% control) = 6.17 ton/yr.

And:

0.25 ton fugitive dust/yr from load-in/load-out operations + 6.17 tons fugitive dust/yr from wind erosion = 6.42 tons fugitive dust/yr

- (2) Compliance with the Operational Restrictions specified in section c) of these terms and conditions shall be determined in accordance with the following methods

a. Operational Restriction

The permittee shall accept no more than 400,000 tons of C&D material per calendar year.

Applicable Compliance Method:

Compliance with the operational restriction in term c)(1) will be demonstrated by summing the daily material volume, in cubic yards, or weight, in tons, required in d)(1) for the calendar year and converting into tons using the waste density of 1000 pounds per cubic yard from Ohio EPA Emissions Activity Category Form 3149, if necessary, as shown below.

$$\begin{aligned} \frac{\text{Tons C\&D Material}}{\text{year}} &= 800,000 \frac{\text{cubic yards}}{\text{yr}} \times 1000 \frac{\text{lbs}}{\text{yd}^3} \times \frac{\text{ton}}{2000 \text{ lbs}} \\ &= 400,000 \frac{\text{tons}}{\text{yr}} \end{aligned}$$

- g) Miscellaneous Requirements

- (1) None.