



State of Ohio Environmental Protection Agency

STREET ADDRESS:

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50 W. Town St., Suite 700  
Columbus, Ohio 43215

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www.epa.state.oh.us

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

6/1/2009

Jeff Andrey  
Gardenscape Inc.  
PO Box 184  
Eau Claire, PA 16030

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 0335002002  
Permit Number: P0104495  
Permit Type: Initial Installation  
County: Henry

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final 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.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc), from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc).

Sincerely,

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

Cc: Ohio EPA-NWDO

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director





**State of Ohio Environmental Protection Agency  
Division of Air Pollution Control**

**FINAL**

**Air Pollution Permit-to-Install and Operate  
for  
Gardenscape Inc.**

Facility ID: 0335002002  
Permit Number: P0104495  
Permit Type: Initial Installation  
Issued: 6/1/2009  
Effective: 6/1/2009  
Expiration: 6/1/2019





State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Air Pollution Permit-to-Install and Operate**  
for  
Gardenscape Inc.

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State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**  
**Permit Number:** P0104495  
**Facility ID:** 0335002002  
**Effective Date:** 6/1/2009

## Authorization

Facility ID: 0335002002  
Application Number(s): A0037009  
Permit Number: P0104495  
Permit Description: The purpose of this permit is for the initial installation of plants roadways, storage piles and material handling operations with an associated internal combustion engine.  
Permit Type: Initial Installation  
Permit Fee: \$1,650.00  
Issue Date: 6/1/2009  
Effective Date: 6/1/2009  
Expiration Date: 6/1/2019  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15  
This document constitutes issuance to:

Gardenscape Inc.  
U-856, SR 66 South  
Archbold, OH 43502

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

Ohio 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

Chris Korleski  
Director



## Authorization (continued)

Permit Number: P0104495  
Permit Description: The purpose of this permit is for the initial installation of plants roadways, storage piles and material handling operations with an associated internal combustion engine.

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| <b>Emissions Unit ID:</b>         | <b>F001</b>                      |
| Company Equipment ID:             | Plant Roadways and Parking Areas |
| Superseded Permit Number:         |                                  |
| General Permit Category and Type: | Not Applicable                   |
| <b>Emissions Unit ID:</b>         | <b>F002</b>                      |
| Company Equipment ID:             | Storage Piles                    |
| Superseded Permit Number:         |                                  |
| General Permit Category and Type: | Not Applicable                   |
| <b>Emissions Unit ID:</b>         | <b>F003</b>                      |
| Company Equipment ID:             | Material Handling                |
| Superseded Permit Number:         |                                  |
| General Permit Category and Type: | Not Applicable                   |



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0104495

**Facility ID:** 0335002002

**Effective Date:** 6/1/2009

## **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 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 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.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0104495

**Facility ID:** 0335002002

**Effective Date:** 6/1/2009

**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.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0104495

**Facility ID:** 0335002002

**Effective Date:** 6/1/2009

## **B. Facility-Wide Terms and Conditions**



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0104495

**Facility ID:** 0335002002

**Effective Date:** 6/1/2009

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.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0104495

**Facility ID:** 0335002002

**Effective Date:** 6/1/2009

## **C. Emissions Unit Terms and Conditions**



**1. F001, Plant Roadways and Parking Areas**

**Operations, Property and/or Equipment Description:**

Plant Roadways and Parking Areas - including paved and unpaved

- 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 operations(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. 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)(a)	8.10 tons fugitive particulate emissions (PE)/year  2.50 tons fugitive particulate matter of 10 microns or less in size (PM10)/year  <u>Paved Roadways and Parking</u> no visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)c. through b)(2)i.]  <u>Unpaved Roadways and Parking</u> no visible particulate emissions except for a period of time not to exceed three minutes during any 60-minute observation period



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)c. through b)(2)i.]
b.	OAC rule 3745-17-07(B)	See b)(2)j.
c.	OAC rule 3745-17-08(B)	See b)(2)k.

(2) Additional Terms and Conditions

- a. The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:
  - paved roadways:
  - all paved roadways
  - paved parking areas:
  - all paved parking areas
- b. The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:
  - unpaved roadways:
  - all unpaved roadways
  - unpaved parking areas:
  - all unpaved parking areas
- c. 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 permit application, the permittee has committed to treat the paved roadways and parking areas with water and sweep as needed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. 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 permit application, the permittee has committed to treat the unpaved roadways with water and chemical stabilization as needed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.



- e. 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 a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for the 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.
  - f. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking areas that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
  - g. 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.
  - h. 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.
  - i. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05(A)(3)(a).
  - j. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
  - k. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:



<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all paved roadways and parking areas	once during each day of operation
<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all unpaved roadways and parking areas	once during each day of operation

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

(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.
- 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 in d)(3)d. shall be kept separately for the paved roadways and parking areas and for the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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.

f) Testing Requirements

(1) Compliance with the emission limitations in Section b)(1) of the terms and conditions of this permit shall be determined in accordance with the following methods:



a. Emission Limitation:

8.10 tons fugitive PE/year

2.50 tons fugitive PM10/year

Applicable Compliance Method:

The annual PE emission limitation was determined as follows:

Description	Emission Factor	Miles Traveled	Control Efficiency	Emission Factor Citation
unpaved, with 6% silt content	1.78 lbs PE/VMT	2,980 miles/yr	50%	AP-42, Section 13.2.2 (11/06)
unpaved, with 14% silt content	11.75 lbs PE/VMT	2,275 miles/yr	50%	AP-42, Section 13.2.2 (11/06)
unpaved, with 20% silt content	15.09 lbs PE/VMT	15 miles/yr	50%	AP-42, Section 13.2.2 (11/06)
paved	1.76 lbs PE/VMT	190 miles/yr	80%	AP-42, Section 13.2.1 (11/06)

The annual PM10 emission limitation was determined as follows:

Description	Emission Factor	Miles Traveled	Control Efficiency	Emission Factor Citation
unpaved, with 6% silt content	0.48 lbs PM10/VMT	2,980 miles/yr	50%	AP-42, Section 13.2.2 (11/06)
unpaved, with 14% silt content	3.71 lbs PM10/VMT	2,275 miles/yr	50%	AP-42, Section 13.2.2 (11/06)
unpaved, with 20% silt content	5.12 lbs PM10/VMT	15 miles/yr	50%	AP-42, Section 13.2.2 (11/06)
paved	0.34 lbs PM10/VMT	190 miles/yr	80%	AP-42, Section 13.2.1 (11/06)

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PE and PM10 limitations will be assumed.



b. 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"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

c. 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, 2002, 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, Storage Piles**

**Operations, Property and/or Equipment Description:**

Storage Piles - including all storage piles

- 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 operations(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. 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)(a)	6.87 tons fugitive particulate emissions (PE)/year  3.26 tons fugitive particulate matter of 10 microns or less in size (PM10)/year  No visible emissions from load-in or load-out except for a period of time not to exceed one minute during any 60-minute observation period.  No visible emissions from wind erosion except for a period of time not to exceed one minute during any 60-minute observation period.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b. through b)(2)f.]
b.	OAC rule 3745-17-07(B)	See b)(2)g.



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

(2) Additional Terms and Conditions

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

storage pile identification

all storage piles

- b. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to maintain minimal drop heights for stackers and front-loaders, and chemical stabilization/dust suppressants and/or watering/sprinkling systems at sufficient treatment frequencies to ensure compliance.

The operator shall avoid dragging any front-end loader bucket along the ground. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- c. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- d. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to perform one or more of the following: (chemical stabilization, watering/sprinkling systems/hoses, covering the storage piles) to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.



- 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 requirements of OAC rule 3745-31-05(A)(3)(a).
  - g. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
  - h. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:
 

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

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
all	daily
  - (3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:
 

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



erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

- (6) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(6)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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.

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in Section b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:

6.87 tons fugitive PE/year

3.26 tons fugitive PM10/year

Applicable Compliance Method:

Compliance with the annual PE and PM10 limitations shall be determined by combining the emissions from each load-in and load-out operation and of wind erosion from each storage pile as follows:



Load-in (PE)

Material	Emission Factor	Maximum Process Weight Rate	Operating Schedule	Emission Factor Citation
blended soil	0.00007 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
composting material	0.00005 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
fresh animal waste	0.00004 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Michigan peat	0.00006 lbs PE/ton	20 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)

Load-out (PE)

blended soil	0.00007 lbs PE/ton	20 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
composting material	0.00005 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
fresh animal waste	0.00004 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Michigan peat	0.00006 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)

Wind erosion (PE)

Material	Emission Factor*	Maximum Acreage	Number of working piles	Operating Schedule	Control Efficiency
blended soil	33.08 lbs/day/acre	0.45 acres	1 pile	365 days/yr	50%
composting material	47.26 lbs/day/acre	0.058 acres	18 piles	365 days/yr	50%
fresh animal waste	35.45 lbs/day/acre	0.175 acres	1 pile	365 days/yr	50%
Michigan peat	23.63 lbs/day/acre	0.165 acres	1 pile	365 days/yr	50%

\* Emission factors were derived from US EPA Control of Open Fugitive Dust Sources, 09/88.



Load-in (PM10)

Material	Emission Factor	Maximum Process Weight Rate	Operating Schedule	Emission Factor Citation
blended soil	0.00003 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
composting material	0.00003 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
fresh animal waste	0.00002 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Michigan peat	0.00003 lbs PM10/ton	20 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)

Load-out (PM10)

blended soil	0.00007 lbs PM10/ton	20 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
composting material	0.00005 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
fresh animal waste	0.00004 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Michigan peat	0.00006 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)

Wind Erosion (PM10)

Material	Emission Factor*	Maximum Acreage	Number of working piles	Operating Schedule	PE:PM10 Relative Ratio	Control Efficiency
blended soil	33.08 lbs/day/acre	0.45 acres	1 pile	365 days/yr	2.11:1	50%
composting material	47.26 lbs/day/acre	0.058 acres	18 pile	365 days/yr	2.11:1	50%
fresh animal waste	35.45 lbs/day/acre	0.175 acres	1 pile	365 days/yr	2.11:1	50%
Michigan peat	23.63 lbs/day/acre	0.165 acres	1 pile	365 days/yr	2.11:1	50%

\* Emission factors were derived from US EPA Control of Open Fugitive Dust Sources, 09/88.



b. Emission Limitation:

No visible emissions from load-in or load-out 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") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

c. Emission Limitation:

No visible emissions from wind erosion 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") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.



**3. F003, Material Handling**

**Operations, Property and/or Equipment Description:**

Material Handling Operations - including a Stationary Compression Ignition Internal Combustion Engine (80 hp - #2 fuel oil fired)

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 operations(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. 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)(a)	<u>Emissions from diesel engine:</u> 2.38 lbs nitrogen oxides (NOx)/hr & 10.42 tons NOx/yr  0.51 lbs carbon monoxide (CO)/hr & 2.23 tons CO/yr  0.310 lbs particulate matter 10 microns or less in size (PM10) per mmBtu of actual heat input, 0.73 tons PM10/yr.  Visible particulate emissions (PE) shall not exceed 10 percent opacity, as a six-minute average, except during start-up and shutdown.  <u>Emissions from screening and material handling operations:</u> 2.50 tons PE/yr



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		0.59 tons PM10/yr  Visible emissions of fugitive dust shall not exceed 20 percent opacity as a three-minute average.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b. through b)(2)d.]
b.	OAC rule 3745-17-07(B)	See b)(2)e.
c.	OAC rule 3745-17-08(B)	See b)(2)f.
d.	OAC rule 3745-17-07(A)	See b)(2)g.
e.	OAC rule 3745-17-11(B)(5)(a)	Particulate Emissions (PE) shall not exceed 0.310 lbs per mmBtu of actual heat input.

(2) Additional Terms and Conditions

- a. The process and material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:
  - i. loading and unloading;
  - ii. screening; and
  - iii. transfer and conveying.
- b. The permittee shall employ best available control measures for the above-identified processes and material handling operations 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 the screening operation and associated material handling operations will in many instances be at a level which is more than sufficient to comply with applicable requirements. If at any time the inherent moisture content is not sufficient to meet the above applicable requirements, the permittee has committed to perform watering as needed. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.
- c. For each material process and material handling operation that is not adequately enclosed, the above-identified control measures 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 measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.



- d. 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.
- e. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
- f. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- g. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)(a).

c) Operational Restrictions

- (1) The permittee shall burn only #2 fuel oil in this emissions unit. The sulfur content of the #2 fuel oil shall not exceed 0.5 weight percent.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than the fuel specified in c)(1), the permittee shall maintain a record of the type, quantity and documentation of the sulfur content of fuel burned in this emissions unit.
- (2) Except as otherwise provided in this section, for process and material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Operation/Equipment	Minimum Inspection Frequency
each loading and unloading operation	once per day of operation
each screening operation	once per day of operation
each conveyor and transfer point	once per day of operation

- (3) The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
  - c. the dates the control measure(s) was (were) implemented; and



- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information required in section d)(3)d. shall be kept separately for each process and material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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.

f) Testing Requirements

- (1) Compliance with the emission limitations in the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation:  
2.38 lbs NOx/hr (diesel engine)

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit\* for this emissions unit. Therefore no hourly recordkeeping, reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

\*Potential to emit for this emissions unit was established by multiplying the maximum fuel input rate of 0.54 mmBtu/hr and an emission factor of 4.41 lbs/mmBtu [from AP-42, Section 3.3 (10/96)].

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4 and 7 of 40 CFR Part 60, Appendix A.

- b. Emission Limitation:  
10.42 tons of NOx/yr (diesel engine)

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission limitation by a maximum operating schedule of 8760 hours per calendar year and dividing by 2000 lbs/ton. Therefore, provided compliance is shown the hourly limitation compliance with the annual limitation will be assumed.

- c. Emission Limitation:  
0.51 lbs CO/hr (diesel engine)



Applicable Compliance Method:

The hourly emission limitation represents the potential to emit\* for this emissions unit. Therefore no hourly recordkeeping, reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

\*Potential to emit for this emissions unit was established by multiplying the maximum fuel input rate of 0.54 mmBtu/hr and an emission factor of 0.95 lbs/mmBtu [from AP-42, Section 3.3 (10/96)].

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4 and 10 of 40 CFR Part 60, Appendix A.

d. Emission Limitation:

2.23 tons of CO/yr (diesel engine)

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission limitation by a maximum operating schedule of 8760 hours per calendar year and dividing by 2000 lbs/ton. Therefore, provided compliance is shown the hourly limitation compliance with the annual limitation will be assumed.

e. Emission Limitation:

0.310 lb PM10/mmBtu of actual heat input (diesel engine)

Applicable Compliance Method:

The lb/mmBtu emission limitation represents the potential to emit\* for this emissions unit. Therefore no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

\*Potential to emit was determined using AP-42, Chapter 3.3, Table 3.3-1 (revised 10/96).

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 of 40 CFR Part 60, Appendix A, and 201/201A and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval.

f. Emission Limitation:

0.310 lb PE/mmBtu of actual heat input (diesel engine)

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by testing in accordance with Method 5 of 40 CFR Part 60. Alternative U.S. EPA approved test methods may be used with prior approval.



g. Emission Limitation:

0.73 tons of PM10/yr (diesel engine)

Applicable Compliance Method:

The annual emission limitation was established by multiplying the 0.310 lb/mmBtu emission limitation, a maximum heat input rate of 0.54 mmBtu/hr and a maximum operating schedule of 8760 hours per calendar year and dividing by 2000 lbs/ton. Therefore, provided compliance is shown the lb/mmBtu limitation compliance with the annual limitation will be assumed.

h. Emission Limitation:

Visible particulate emissions shall not exceed 10 percent opacity, as a six-minute average, except during start-up or shutdown

Applicable Compliance Method:

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

i. Emission Limitation:

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

Applicable Compliance Method:

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

j. Emission Limitation:

2.50 tons PE/yr

0.59 tons PM10/yr

Applicable Compliance Method:

Compliance with the annual PE and PM10 limitations shall be determined by combining the emissions from each process and material handling operation as follows:



Unloading (PE)

<b>Material</b>	<b>Emission Factor</b>	<b>Maximum Process Weight Rate</b>	<b>Operating Schedule</b>	<b>Emission Factor Citation</b>
finished compost	0.00005 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
animal waste	0.00004 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Michigan peat	0.00006 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Animal waste to windrows	0.00004 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)

Loading (PE)

finished compost	0.00006 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Michigan peat	0.00006 lbs PE/ton	50 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
animal waste to windrows	0.00004 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
blended soil	0.00006 lbs PE/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)

Screening and Transfer/Conveying (PE)

<b>Operation</b>	<b>Emission Factor</b>	<b>Maximum Process Weight Rate</b>	<b>Operating Schedule</b>	<b>Emission Factor Citation</b>
screening (including 4 screens)	0.0022 lbs PE/ton	60 tons/hr	8760 hrs/day	AP-42, Section 11.19.2-2 (08/04)
transfer points (3 points)	0.00014 lbs PE/ton	60 tons/hr	8760 hrs/day	AP-42, Section 11.19.2-2 (08/04)



Unloading (PM10)

Material	Emission Factor	Maximum Process Weight Rate	Operating Schedule	Emission Factor Citation
finished compost	0.00003 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
animal waste	0.00002 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Michigan peat	0.00003 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Animal waste to windrows	0.00002 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)

Loading (PM10)

finished compost	0.00003 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
Michigan peat	0.00003 lbs PM10/ton	50 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
animal waste to windrows	0.00002 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)
blended soil	0.00003 lbs PM10/ton	40 tons/hr	8760 hrs/yr	AP-42, Section 13.2.4 (11/06)

Screening and Transfer/Conveying

Operation	Emission Factor	Maximum Process Weight Rate	Operating Schedule	Emission Factor Citation
screening (including 4 screens)	0.00047 lbs PM10/ton	60 tons/hr	8760 hrs/day	AP-42, Section 11.19.2-2 (08/04)
transfer points (3 points)	0.000046 lbs PM10/ton	60 tons/hr	8760 hrs/day	AP-42, Section 11.19.2-2 (08/04)

g) Miscellaneous Requirements

- (1) None.