

Facility ID: 1431034229 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

[Go to Part II for Emissions Unit F001](#)  
[Go to Part II for Emissions Unit F002](#)  
[Go to Part II for Emissions Unit P001](#)

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Facility ID: 1431034229 Emissions Unit ID: F001 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**Part II - Special Terms and Conditions**

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.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Roadways and Parking Areas	OAC rule 3745-31-05(A)(3) (PTI 14-05905)	Particulate emissions (PE) shall not exceed 1.82 tons per year.  There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period.
		There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed one minute during any sixty minute observation period.
		Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See terms and conditions A.2.a through A.2.g). See term and condition A.2.h.
	OAC rule 3745-31-05(A)(3)(b) OAC rule 3745-17-07(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(5)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with chemical stabilization/dust suppressants and/or water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.  
 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 an unpaved 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. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.  
 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.  
 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.

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 ensure compliance by maintaining average speed limit, sweeping and watering. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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 area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

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.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05 (A)(3) do not apply to the total particulate matter emissions 10 microns and less in diameter (PM10) from this air contaminant source since the total uncontrolled potential to emit for the PM10 is less than ten tons per year.

**B. Operational Restrictions**

1. None

**C. Monitoring and/or Record Keeping Requirements**

1. Except as otherwise provided in this section, the permittee shall perform daily inspections of all roadways and parking areas.
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.
3. The permittee may, upon receipt of written approval from the appropriate field office (having jurisdiction over the new site), modify the above-mentioned inspection frequencies if operating experiences indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d shall be kept separately for (i) the paved roadways and parking areas and (ii) 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.

**D. Reporting Requirements**

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

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):  
Emission Limitations:  
Particulate emissions from unpaved roadways and parking areas shall not exceed 1.1 tons per year.

Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the following equations:

For unpaved roadways and parking areas:

$$\text{Tons/year PE} = [(A) * (B) * (C) * (0.0005)];$$

where:

A = emission factor in pounds per vehicles mile traveled (VMT) i.e. lb/VMT determined using the equation from AP-42, 13.2.1; (A = 4.63 lb/VMT)

B = Vehicles miles traveled annually i.e. VMT/year; (B = 9556.31 VMT/year)

C = (100 - 95)% i.e. taking into consideration the control efficiency of 95%.

0.0005 is the factor for pounds per year to tons per year conversion.

For paved roadways and parking areas:

Tons per year PE = [(A) \* (B) \* (0.0005)];

where:

A = emission factor in pounds per vehicles mile traveled (VMT) i.e. lb/VMT determined using the equation from AP-42, 13.2.2; (A = 3.75 lb/VMT)

B = Total annual vehicles miles traveled in paved roadways and parking areas (VMT/year); (B = 3822.53 VMT/year).

0.0005 is the factor for pounds per year to tons per year conversion.

Emissions from paved and unpaved roadways and parking areas shall be totaled to determine compliance.

Emission Limitations:

No visible PE from any unpaved roadway or parking area except for three minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitations 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").

Emission Limitations:

No visible PE from any paved roadway or parking area except for one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitations 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").

Emission Limitations:

Uncontrolled potential to emit PM10 is less than 10.0 tons per year.

Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the emission factors from AP-42, Section 13.2, VMT and control efficiencies from the air permit to install application 14-05905 submitted on December 12, 2006.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1431034229 Emissions Unit ID: F002 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**Part II - Special Terms and Conditions**

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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.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - Storage Piles	OAC rule 3745-31-05(A)(3)(b) OAC rule 3745-17-07(B)(6)	See term and condition A.2.a. No visible particulate emissions from any material storage pile except for a period of time not to exceed

thirteen minutes during any sixty-minute observation period.

2. **Additional Terms and Conditions**

- (a) The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the total fugitive particulate emissions from this air contaminant source since the total uncontrolled potential to emit for fugitive particulate emissions is less than ten tons per year.

B. **Operational Restrictions**

- 1. None

C. **Monitoring and/or Record Keeping Requirements**

- 1. None

D. **Reporting Requirements**

- 1. None

E. **Testing Requirements**

- 1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):  
Emission Limitation:  
There shall be no visible particulate emissions from any material storage pile except for a period of thirteen minutes during any sixty- minute observation period.

Applicable Compliance Method:  
Compliance 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.  
Emissions Limitation:  
Uncontrolled potential to emit particulate emissions is less than ten tons per year.

Applicable Compliance Method:  
Emissions shall be calculated and compliance determined by using the following equations:

$$\text{tons PE/yr} = [(A) * (C) * (0.0005)] + [(B) * (C) * (0.0005)] + [(D) * (E) * (F) * (0.0005)]$$

where,

A = Particulate matter emissions factor for storage pile load-in, pounds per ton of material handled, calculated with reference to AP-42, Section 13.2.4, (November, 2006); (A = 0.0052 lb/ton).

B = Particulate matter emissions factor for storage pile load-out, pounds per ton of material handled, calculated with reference to AP-42, Section 13.2.4, (November, 2006); (B = 0.0052 lb/ton).

C = Total annual tons material handled; =560,000 tons per year)

D = PM emissions factor for storage pile wind erosion developed from EPA-450-3-88-008, 9/88); (D = 6.78 pounds per day per acre)

E = Total storage pile surface area; ( E = 4.9 acres).

F = Total number of days per year, storage piles are exposed to wind erosion; (F = 365 days)

F. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1431034229 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**Part II - Special Terms and Conditions**

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- 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.

A. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the

applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P001 - Mineral Extraction	OAC rule 3745-31-05(A)(3)(b)	See term and condition A.2.a.

2. **Additional Terms and Conditions**

- (a) The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the total fugitive particulate emissions from this air contaminant source since the total uncontrolled potential to emit for the fugitive particulate emissions is less than ten tons per year.

B. **Operational Restrictions**

- 1. None

C. **Monitoring and/or Record Keeping Requirements**

- 1. None

D. **Reporting Requirements**

- 1. None

E. **Testing Requirements**

- 1. Compliance with the emission limitation(s) in Section A.2.a of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitations:

Uncontrolled potential to emit of fugitive particulate emissions is less than ten tons per year.

Applicable Compliance Method:

Emissions shall be calculated and compliance be determined by using the following equations:

$$\text{Tons of PE per year} = [(A1B1 + A2B2 + \dots + AnBn) \cdot (0.0005)];$$

where:

A = Annual tonnage of aggregates/minerals processed under each specific operation such as topsoil removal, truck loading, etc. (involved in mineral extraction) in tons per year.

B = Emission factor of particulate emissions (PE) in pounds per ton from each specific operation such as topsoil removal, truck loading, etc. (involved in mineral extraction) as referred from US EPA AP-42, Table 11.9-4, Western Surface Coal Mines. The emissions factor for topsoil removal is 0.058 pounds of PM per ton of material. The emissions factor for truck loading is 0.037 pounds of PM per ton of material.

The factor 0.0005 has been used in the above equation for the purpose of pounds per year to tons per year conversion.

F. **Miscellaneous Requirements**

- 1. None