

Facility ID: 0285030261 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 F002](#)
- [Go to Part II for Emissions Unit F003](#)
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Facility ID: 0285030261 Emissions Unit ID: F002 Issuance type: Final State Permit To Operate

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**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>
Material storage piles associated with a sand and gravel plant. Storage piles, including load-in, load-out and wind erosion for facilities with a maximum production of 500,000 tons/year and a maximum storage pile surface area less than or equal to 6 acres Modified	OAC rule 3745-31-05(A)(3) (PTI 02-21495 Effective 11/29/2005)	5.0 tons/year of fugitive particulate matter of 10 microns or less (PM10)
		10.6 tons/year of fugitive particulate emissions (PE)
		no visible PE except for one minute during any 60-minute period
		best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections A.2.a through A.2.e)
	OAC rule 3745-17-07(B)	This rule does not apply per OAC rule 3745-17-08 (A) (1), location in a non-Appendix A area.
	OAC rule 3745-17-08(B)	This rule does not apply to the fugitive dust emissions because OAC rule 3745-17-08 is not applicable.

**2. Additional Terms and Conditions**

- (a) 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.

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.

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.

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.  
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).

**B. Operational Restrictions**

1. None

**C. Monitoring and/or Record Keeping 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:
  - storage pile identification: all
  - minimum load-in inspection frequency: 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:
  - storage pile identification: all
  - minimum load-out inspection frequency: 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:
  - storage pile identification: all
  - minimum wind erosion inspection frequency: 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 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.

**D. Reporting Requirements**

1. The permittee shall submit quarterly 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 limitations in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:
  - Emissions Limitations:
    - 5.0 tons/year of fugitive PM10
    - 10.6 tons/year of fugitive PE
  - Applicable Compliance Method:
    - Compliance with fugitive PE limitations shall be determined by using the emission factor equations in Sections 13.2.4 and 13.2.5, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for load-in operations, load-out operations, and wind erosion. These emission limits were based on a maximum production of 500,000 tons per year, a maximum storage surface area less than or equal to 6 acres, and a 95 % overall control efficiency for PE and PM10.
    - Emission Limitation:
      - There shall be no visible PE except for a period of time not to exceed one minute in any 60-minute observation

period.

Applicable Compliance Method:  
 Compliance with the visible PE limitations for the storage piles identified 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").

**F. Miscellaneous Requirements**

- 1. None

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Facility ID: 0285030261 Emissions Unit ID: F003 Issuance type: Final State Permit To Operate

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**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>
Unpaved service road, haul road and parking areas, with a maximum of 31,000 vehicle miles traveled per year . Modified	OAC rule 3745-31-05(A)(3) (PTO 02-21495 Effective 11/29/2005)	2.7 tons/ year of fugitive particulate matter of 10 microns or less (PM10)
		9.3 tons/year of fugitive particulate emissions (PE)
		no visible PE except for 3 minutes during any 60-minute period
		best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections A.I.2.a through A.I.2.f.)
	OAC rule 3745-17-07(B)	This rule does not apply per OAC rule 3745-17-08 (A) (1), location in a non-Appendix A area.
	OAC rule 3745-17-08(B)	This rule does not apply to the fugitive dust emissions because OAC rule 3745-17-08 is not applicable.

**2. Additional Terms and Conditions**

- (a) The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the unpaved roadways and parking areas by application of chemical stabilization/dust suppressants and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 

The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for unpaved roadways and parking areas that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

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.

Any unpaved roadway or parking area that is subsequently paved, will require a permit for paved roadways and parking areas.

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.

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).

**B. Operational Restrictions**

1. None

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

1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:
  - unpaved roadways and parking areas: all roads and parking areas
  - minimum inspection frequency: daily
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; 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 3.d. 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 limitations in section A.1 of the terms and conditions of this permit shall be determined in accordance with the following methods:
  - Emission Limitations:
  - 2.7 tons/year of fugitive PM10
  - 9.3 tons/year of fugitive PE

Applicable Compliance Method:

Compliance with fugitive PE and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for unpaved roadways. Should further updates in AP-42 occur, the most current equations for unpaved roads shall be used. These emission limits were based on a maximum of 18,000 vehicle miles traveled per year on the service roads and 13,000 vehicle miles traveled per year on the haul roads, and a 95 % control efficiency for PE and PM10.

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").

**F. Miscellaneous Requirements**

1. None

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Facility ID: 0285030261 Emissions Unit ID: F005 Issuance type: Final State Permit To Operate

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**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>
Dredge, feeder, crushers, screens and conveyors of a sand and gravel plant	OAC rule 3745-31-05 (A)(3) (PTI 02-21495 Effective 11/29/2005)	3.45 lbs/hour and 15.1 tons/year of Particulate emissions (PE) and 1.26 lb/hour and 5.6 tons/year of Particulate matter emissions 10 microns or less (PM10).  Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six-minute average from any transfer point or piece of equipment except the two crushers.  Visible emissions of fugitive dust shall not exceed fifteen percent opacity, as a six-minute average from the two crushers.
	40 CFR Part 60 Subpart OOO	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.a, A.2.b and A.2.e) from any fugitive dust emission point listed below in Section A.2.c. The emission limitation specified by this rule is equivalent to or less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)	This rule does not apply per OAC rule 3745-17-08 (A) (1), location in a non-Appendix A area.
	OAC rule 3745-17-08	This rule does not apply to the fugitive dust emissions because OAC rule 3745-17-08 is not applicable.

**2. Additional Terms and Conditions**

- (a) The permittee shall employ best available control measures for the aggregate processing operation for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employing water sprays within the process to ensure compliance. The permittee shall also minimize the free fall distance of the processed material. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.  
For each phase of the aggregate processing operation that is not adequately enclosed, the control measure(s) shall be implemented if the permittee determined, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the applicable requirements. Any required implementation of the control measure(s) shall continue during the operation until further observation confirms that use of the control measure(s) is unnecessary.  
The aggregate processing plant that is covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:  
  
Two 400 ton per hour crushers  
Three wet screening operations  
Two dry screening operations  
Truck load-in to feeder  
Belt conveyors  
One sand section  
The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.  
Open bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times the materials are being transported.

**B. Operational Restrictions**

1. None

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

1. Except as otherwise provided in this section, operations that are not adequately enclosed, the permittee shall

perform inspections of such operations in accordance with the following minimum frequencies:

material handling operations minimum inspection frequency

grinding/crushers daily  
 screening daily  
 truck load-in to hopper daily  
 conveyors daily

2. The above mentioned inspections shall be performed during representative, normal operating conditions.
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 in 3.d shall be kept separately for each material handling operation, 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 quarterly deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation (excursion) reports shall be submitted in accordance with 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:  
 3.45 lbs/hour and 15.1 tons/year of PE emissions  
 1.26 lb/hour and 5.6 tons/year of PM10 emissions

**Applicable Compliance Method**

Compliance with the hourly PE/PM10 emission limitations shall be determined using the emission factors for crushing, screening, and material handling operations in AP-42, Chapter 11.19.2, Table 11.19.2-2, Crushed Stone Processing and Pulverized Mineral Processing, Fifth Edition, (8/04). The emission factors, 0.000016 lb/ton for PE and 0.000016 lb/ton for PM10 for truck unloading to hopper, 0.0012 lb/ton for PE and 0.00054 lb/ton for PM10 for crushing, 0.0022 lb/ton for PE and 0.00074 lb/ton for PM10 for screening, and 0.00014 lb/ton for PE and 0.000046 lb/ton for PM10 for conveyors, shall be multiplied by the maximum process weight rate, in tons/hour, for each operation identified in A.2.c and summed. For conveyor loading, multiply by the number of conveyor transfer points (13). For crushing, multiply by the number of crushers (2). For screening, multiply by the number of dry screens (2).

The tons/year limitations were developed by multiplying the pound/hour by the maximum operating hours of 8,760 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly emission limitations and the annual operating hours restriction, compliance will also be shown with the annual limitation.

**Emission Limitation:**

Visible emissions of fugitive dust shall not exceed ten percent opacity as a six-minute average from any transfer point or piece of equipment except the two crushers

**Applicable Compliance Method:**

The permittee shall conduct, or have conducted, fugitive visible particulate emission testing for emissions unit P005 in accordance with requirements in E.2 below.

**Emission Limitation:**

Visible emissions of fugitive dust shall not exceed fifteen percent opacity as a six-minute average from the two crushers

**Applicable Compliance Method:**

The permittee shall conduct, or have conducted, fugitive visible particulate emission testing for emissions unit F005 in accordance with requirements in E.2 below.

2. The initial emission testing was completed on May 24, 2006.  
  
 Compliance with the opacity limits of this permit was determined by using US EPA Reference Test Method 9 (40 CFR Part 60) and the procedures specified in OAC rule 3745-17-03 (B)(1) with the additions per 40 CFR Part 60 Subpart OOO.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 0285030261 Emissions Unit ID: F006 Issuance type: Final State Permit To Operate

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**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>
Overburden removal and material loading by front-end loaders, excavators, draglines and trucks.	OAC rule 3745-31-05(A)(3) (PTI 02-21495 Effective 11/29/2005)	Visible particulate emissions 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 Sections A.2.a).
	OAC rule 3745-17-07(B)(5)	This rule does not apply per OAC rule 3745-17-08 (A) (1), location in a non-Appendix A area.
	OAC rule 3745-17-08(B)	This rule does not apply to the fugitive dust emissions because OAC rule 3745-17-08 is not applicable.
no visible PE except for 3 minutes during any 60 minute period	OAC rule 3745-31-05(A)(3) (PTI 02-21495 Effective 11/29/2005)	no visible PE except for 3 minutes during any 60 minute period
Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b )		Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b )
	OAC rule 3745-17-07(B)	This rule does not apply per OAC rule 3745-17-08 (A) (1), location in a non-Appendix A area.
	OAC rule 3745-17-08(B)	This rule does not apply to the fugitive dust emissions because OAC rule 3745-17-08 is not applicable.
all listed above mineral extraction operations	OAC rule 3745-31-05(A)(3) (PTI 02-21495 Effective 11/29/2005)	0.85 tons/ year of fugitive particulate matter of 10 microns or less (PM10) (see Section A.2.c )  2.3 tons/year of fugitive particulate emissions (PE) (see Sect A.2.c)

**2. Additional Terms and Conditions**

- (a) The permittee shall control fugitive dust by using precautionary operation practices, by minimization of disturbed land surface, and by use of water sprays at all reasonable times.  
The permittee shall employ best available control measures on all unpaved areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the unpaved areas by application of chemical stabilization/dust suppressants and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.  
The permittee shall not overload the haul trucks with extracted aggregate material, in order to minimize spillage and windage losses. 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.

**B. Operational Restrictions**

1. None

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

1. Except as otherwise provided in this section, for mineral extraction operations, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

Operations: Minimum Inspection Frequency:

Overburden removal daily

Material loading daily

Vehicle travel daily

2. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for the overburden removal, material loading operations, and vehicle travel. The inspections shall be performed during representative, normal operating conditions.
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 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.

The information required in 3.d. shall be kept separately for (i) the overburden removal operations, (ii) the material loading operations, and (iii) the vehicle travel on unpaved 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 quarterly deviation reports, in accordance with the General Terms and Conditions of this permit, that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

**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:  
Visible particulate emissions shall not exceed 20 percent opacity as a three- minute average, for overburden removal, and material loading operations

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.

Emission Limitation:

No visible PE from vehicle travel on unpaved 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").

Emissions Limitation:

0.85 tons/year of fugitive PM10

2.33 tons/year of fugitive PE

Applicable Compliance Method:

Compliance with fugitive PE and PM10 limitations shall be determined by using:

for vehicle travel on unpaved areas - the emission factor equations in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03). Should further updates in AP-42 occur, the most current equations for unpaved roads shall be used. The vehicle travel emission limits were based on a maximum of 5,000 vehicle miles traveled per year, and a 95 % control efficiency for PE and PM10;

for material loading - the emission factor equation in Section 13.2.4.3, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95). Should further updates in AP-42 occur, the most current equations for material loading shall be used. The material handling emission limits were based on a maximum of 9.9 mph wind speed, 100,000 ton per year material handled and moisture content of 4.0%; and

for overburden removal - the emission factor in RACM Table 2.1.4-3, 9/88, 0.004 pounds per ton of overburden removed for area stripping with scraper. The overburden removal emission limits were based upon a maximum of 100,000 tons per year of material and a PE to PM10 ratio of 2.11:1 from AP-42.

**F. Miscellaneous Requirements**

1. None