

Facility ID: 1483110283 Issuance type: Final State Permit To Operate

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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.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1483110283 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>
F003-100 TPH sand and aggregate processing plant	OAC rule 3745-31-05(A)(3) PTI 14-01213	Particulate Emissions (PE) shall not exceed 9.16 TPY.
	40 CFR, Part 60, Subpart OOO OAC rule 3745-17-07(B)	See terms A.2 and B. See terms A.2.a, A.2.b, A.2.c, A.2.d, A.2.e and A.2.f. 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.
	OAC rule 3745-17-08(B)	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).

**2. Additional Terms and Conditions**

- (a) The aggregate product loaded onto trucks shall have a moisture content sufficient to minimize emissions of fugitive dust.  
The permittee shall employ water sprays at any emission point necessary to ensure compliance with the visible particulate emission limits specified in A.1 above.  
Fugitive particulate emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin shall not exceed 0 percent opacity.  
Fugitive particulate emissions from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line shall not exceed 0 percent opacity.  
Fugitive particulate emissions from any transfer point on belt conveyors and from any emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10 percent opacity, except as provided by rule 40 CFR 60.672.  
Fugitive particulate emissions from any crusher shall not exceed 15 percent opacity.  
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.  
Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the applicable visible emissions limitations, compliance with the applicable PE and PM10 emissions limitations, compliance with the annual production limitation (operational restriction) and maintenance of the moisture content in the sand and aggregate material.

**B. Operational Restrictions**

1. The total amount of sand and aggregate processed by emission unit F003 shall not exceed 100,000 tons per year.

2. The permittee shall minimize the drop height of front end loaders at the aggregate processing area and the product loading area to 15 feet or less and the product loaded onto the trucks shall have a moisture content sufficient to minimize visible emissions of fugitive dust.
  3. Water sprays shall be operated at points necessary to ensure compliance with the visible emission limitations specified in section A.2.a, A.2.b, A.2.c, A.2.d , A.2.e and A.2.f for crushing, transfer points, screening, and conveying operations.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain monthly records which include the amount of sand and aggregate processed, in tons.
- D. Reporting Requirements**
1. A screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change to the Hamilton County Department of Environmental Services. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in 40 CFR 60.672(h). A screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to 40 CFR 60.672(h) and subsequently processes unsaturated material shall submit a report of this change within 30 days following such change to the Hamilton County Department of Environmental Services. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in 40 CFR 60.672(b) and the emission test requirements of 40 CFR 60.11 and 60.675.
  2. The permittee shall submit annual reports that identify any exceedance of the annual production rate limitation in term B.1 as well as the corrective actions that were taken to achieve compliance. If no exceedances occurred, then the permittee shall state so in the report. These reports shall be submitted by January 30 of each year.
- E. Testing Requirements**
1. Emissions Limitations:
    - 15% opacity, as a six-minute average from the crusher
    - 10% opacity, as a six-minute average from any transfer point on belt conveyors and from any other emissions point where process materials are not saturated
    - 0% opacity from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin
    - 0% opacity from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin.

Applicable Compliance Method:

Compliance with the opacity limits of this permit shall be determined by using US EPA Reference Test Method 9 (40 CFR Part 60). The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
  2. Emissions Limitations:
    - Particulate Emissions (PE) shall not exceed 9.16 TPY.

Applicable Compliance Method:

Compliance with the TPY PE emission limitations in section A.1 shall be demonstrated by the following calculations using the controlled emission factors (EF) from AP-42, Table 11.19.2-2, Fifth Edition, 8/04:

$$\text{actual production rate of each emissions point (tons/year)} \times \text{PE controlled EF (lb PE/ton)} \times \text{ton/2000 lbs} = \text{TPY PM.}$$
  3. Compliance with the production limitation in term B.1 of these terms and conditions shall be demonstrated by the required records in term C.1.
- F. Miscellaneous Requirements**
1. The permittee shall comply with all applicable miscellaneous requirements of 40 CFR 60, Subpart OOO.