

Facility ID: 0671010152 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.

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

Facility ID: 0671010152 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>
F002 - Overburden removal and mineral extraction.	OAC rule 3745-31-05 (A)(3)	Total particulate emissions (PE) shall not exceed a 4.8 tons per year. No visible particulate emissions except for 10 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.a through A.2.e)

2. Additional Terms and Conditions

- (a) The mineral extraction operations that are covered by this permit and subject to the above-mentioned requirements are listed below:
 - overburden removal;
 - truck loading of sand materials;
 - truck loading of overburden;
 - wind erosion; and
 - reclamation.

The permittee shall employ best available control measures for the above-identified mineral extraction operations 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 perform the following control measures to ensure compliance:

 - mineral extraction operation(s) control measure(s)
 - overburden removal minimization of disturbed land surface
 - truck loading of sand materials avoid spillage, and maintain a low drop height & high moisture content for the material being handled
 - truck loading of overburden avoid spillage, and maintain a low drop height & high moisture content for the material being handled
 - wind erosion water as needed
 - reclamation return site to vegetated state expeditiously

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. 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. The 5.1 ton/year particulate matter limitation was established (based on application data) for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, for mineral extraction operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

Mineral extraction operations Minimum inspection frequency
Overburden removal, and loading Each day mineral extraction operations are employed.
2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the Ohio EPA, Central District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspection would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
the date and reason any required inspection was not performed;
the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
the dates the control measures were implemented; and,
on a calendar quarter basis, the total number of days the control measures were implemented.

The information in 4.d shall be kept separately for each mineral extraction operation identified above, 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:
each day during which an inspection was not performed by the required frequency; and,
each instance when a control measure, that was to be performed 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 specified in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation: No visible particulate emissions except for 10 minutes during any 60-minute period.

Applicable Compliance Method: Compliance with the visible emission limitation for the mineral extraction operations identified above shall be determined in accordance with "Test Method 22 as set forth in "Appendix on test Methods" in 40 CFR, Part 60 ("Standard of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modification listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

Emission Limitation: Total particulate emissions (PE) shall not exceed a 5.1 tons per year.

Applicable Compliance Method:

Overburden Removal:

$$\text{tons PE / year} = (700,000 \text{ tons removed / year}) \times (0.004 \text{ lb PE / ton removed}) \times (0.005 \text{ ton/lb})$$

$$\text{tons PE / year} = 1.40 \text{ ton/year}$$

* 0.004 lb PE / ton overburden removed emission factor for overburden removal with a scraper from RACM, Table 2.1.4-3, September 1980.

Overburden Loading:

The emission factor calculation for material handling in AP-42 Aggregate Handling and Storage Piles, Section 13.2.4 (January, 1995) shall be utilized to determine compliance. Initial compliance has been determined using inputs representing current conditions as follows:

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

E = emission factor expressed in pounds (lbs) / ton

k = particle size multiplier (dimension less) = 0.74

U = mean wind speed expressed in miles per hour (MPH) = 9.1

M = material moisture content (%) = 1.5

$$E = 0.007785 \text{ pounds/ton}$$

Assuming a maximum ton per year process weight rate of 700,000, particulate emissions for each activity (load-in and load-out) is equal to 2.70 tons per year.

Loading - Sand and Gravel:

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

E = emission factor expressed in pounds (lbs) / ton

k = particle size multiplier (dimension less) = 0.74

U = mean wind speed expressed in miles per hour (MPH) = 9.1

M = material moisture content (%) = 4.0

$$E = 0.0019545 \text{ pounds/ton}$$

Assuming a maximum ton per year process weight rate of 700,000 particulate emissions for each activity (load-in and load-out) is equal to 0.68 tons per year.

Total Particulate Emissions from overburden removal, sand and gravel loading = 4.8 TPY

F. **Miscellaneous Requirements**

1. None