

Facility ID: 0514010171 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: 0514010171 Emissions Unit ID: F001 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>
F001 - Paved and unpaved roadways and parking areas	OAC rule 3745-31-05(A)(3) (PTI 05-12901)	Particulate emissions (PE) shall not exceed 10.24 tons per year. There shall be no visible PE from any paved roadway or parking area, except for a period of time not to exceed 1 minute during any 60-minute observation period. There shall be no visible PE from any unpaved roadway or parking area, except for a period of time not to exceed 3 minutes during any 60-minute observation period. Employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.2.c, d, e, f, g, h, i, and j.).
	OAC rule 3745-17-07(B)(4) and (5)	The emission limitations specified by these rules are less stringent than the limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	The reasonably available control measures specified by this rule are less stringent than the control measures established pursuant to OAC rule 3745-31-05(A)(3).

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
 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
 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. The permittee shall employ water assisted sweeping for the paved roadways and parking areas at sufficient frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
The permittee shall employ best available control measures on the unpaved shoulders of all paved

roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee will improve the surface of any unpaved shoulders as necessary to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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. The permittee will improve the surface of any unpaved roadway and parking area as necessary 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 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 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.

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.

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.

The permittee shall require operators of open-bodied vehicles transporting materials likely to become airborne shall have such materials covered 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.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. Except as otherwise specified in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:
for all paved roadways and parking areas the minimum inspection frequency shall be daily; and
for all unpaved roadways and parking areas the minimum inspection frequency shall be 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.
3. The permittee may, upon receipt of written approval from Ohio EPA Southwest District Office, modify the above-mentioned inspection frequencies if operating experience 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:
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;
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 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 quarterly deviation reports that identify any of the following occurrences:
each day or week 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
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. Emission Limitation:
There shall be no visible PE from any paved roadway or parking area, except for a period of time not to exceed 1 minute during any 60-minute observation period.

There shall be no visible PE from any unpaved roadway or parking area, 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 emission limitations for the paved and unpaved roadways and parking areas

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"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

2. Emission Limitation:
Particulate emissions (PE) shall not exceed 10.24 tons per year.

Applicable Compliance Method:

Compliance may be determined by summing the paved and unpaved roadway and parking areas: multiply the emission factor, E, by the total annual vehicle miles traveled (VMT), i.e., 1,300 VMT for unpaved and 13,000 VMT for paved, and converting pounds to tons, i.e., multiply the sum by 1/2000. The emission factor, E, shall be determined by the following equation found in AP-42 section 13.2.1.3 (equation 2) for Paved Roads (dated October 2002), and draft section 13.2.2 (equation 1a) for Unpaved Roads (dated October 2001).

$$\text{Paved Roads: } E = k(sL/2)0.65 (W/3)1.5 (1-P/4N)(1 - CE)$$

where,

E = emission factor extrapolated for natural mitigation, lb/vehicle mile traveled (VMT)
k = constant multiplier, 0.082 (Table 13.2.1-1)
sL = road surface silt loading, 8.2 (Table 13.2.1-3, mean for Quarry, conservative)
W = mean vehicle weight, 15 tons (50% forklift at 5 tons, 50% semi-truck at 25 tons)
P = number of days with at least 0.01 inches of precipitation during the averaging period, 120 (Figure 13.2.1-2)
N = number of days in the averaging period, 365
CE = control efficiency (50% estimated control efficiency for watering as outlined in Ohio EPA, Reasonably Available Control Measures for Fugitive Dust Sources (RACM), Section 2.1.1, Table 2.1.1-3)

$$\text{Unpaved Roadways } E = k(s/12)a(W/3)b [(365 - P)/365]$$

where,

E = emission factor, lb/vehicle mile traveled (VMT)
k = constant multiplier, 4.9 (Table 13.2.2-2)
s = surface material silt content, 8.3 (Table 13.2.2-1, mean for Quarry, conservative)
W = mean vehicle weight, 15 tons (50% forklift at 5 tons, 50% semi-truck at 25 tons)
a = 0.7 (Table 13.2.2-2)
b = 0.45 (Table 13.2.2-2)
Eext = emission factor extrapolated for natural mitigation, lb/VMT
P = number of days with at least 0.01 inches of precipitation per year, 120 (Figure 13.2.2-1)

F. **Miscellaneous Requirements**

1. None