

Facility ID: 0448041041 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: 0448041041 Emissions Unit ID: F004 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>
F004 - Aggregate processing equipment: 500 tons aggregate per hour, truck dumping	OAC rule 3745-31-05(A)(3) (PTI 04-01316, modified 3/25/2003)	Particulate matter emissions of 10 microns or less (PM10) shall not exceed 0.01 pound per hour and 0.04 ton per year.
crushing & screening	OAC rule 3745-17-07(B)(1)	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c through A.2.e).
	OAC rule 3745-17-08(B), (B)(3)	See section A.2.a.
	OAC rule 3745-31-05(A)(3) (PTI 04-01316, modified 3/25/2003)	PM10 shall not exceed 2.78 pounds per hour and 12.2 tons per year.
	40 CFR Part 60, Subpart OOO	Visible emissions of fugitive dust shall not exceed 10% opacity as a 6-minute average, from any conveying or screening operation.
plant conveyors & transfer points	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 15% opacity as a six-minute average, from any crusher.
	OAC rule 3745-17-08(B), (B)(3)	See section A.2.f.
	OAC rule 3745-31-05(A)(3) (PTI 04-01316, modified 3/25/2003)	See section A.2.e.
	40 CFR Part 60, Subpart OOO	PM10 shall not exceed 1.23 pounds per hour and 5.4 tons per year.
product loading	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 10% opacity as a 6-minute average from the transfer points.
	OAC rule 3745-17-08(B), (B)(3)	See section A.2.f.
	OAC rule 3745-31-05(A)(3) (PTI 04-01316, modified 3/25/2003)	See section A.2.e.
		PM10 shall not exceed 0.05 pound per hour and 0.22 ton per year.
	OAC rule 3745-17-07(B)(1)	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c through A.2.e).
	OAC rule 3745-17-08(B), (B)(3)	See section A.2.e.

2. Additional Terms and Conditions

- (a) The emission limitation specified by this rule is less stringent than the emission limitation established

pursuant to OAC rule 3745-31-05(A)(3).

The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Primary, Secondary & Tertiary Crushing
All Screening & Conveying operations
Product loading & truck dumping

The permittee shall employ best available control measures for the above-identified material handling operation(s) 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 measure(s) to ensure compliance:

Material handling operation(s) / Control measure(s)

Truck dumping;
maintain or apply sufficient moisture, to adequately control the fugitive dust emissions, and minimize drop heights.

Crushing and screening;
maintain or apply sufficient moisture, to adequately control the fugitive dust emissions, and minimize drop heights.

Plant conveyors and transfer points; maintain or apply sufficient moisture to control dust emissions from conveyors and transfer points; minimize drop heights

Product loading;
maintain or apply sufficient moisture, to adequately control the fugitive dust emissions, and minimize drop heights.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, 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 above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-07, 3745-17-08, and 3745-31-05.

The application and enforcement of the provisions of the NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

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

Material handling operation(s) - Minimum inspection frequency

Truck dumping; weekly

Crushing and screening operations; weekly

Plant conveyors and transfer points; weekly

Product loading; weekly

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the Toledo Division of Environmental Services, 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;
 - 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 section C.4.d shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following

in the operations log:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

The above-mentioned inspections shall be performed during representative, normal operating conditions.

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.
2. The permittee shall submit required reports in the following manner:
 - a. Reports of any required monitoring and/or record keeping information shall be submitted to the Toledo Division of Environmental Services.
 - b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Toledo Division of Environmental Services. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

10% opacity, as a 6-minute average from the screening system.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 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.

Emission Limitation:

10% opacity, as a 6-minute average from the transfer points.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 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.

Emission Limitation:

10% opacity, as a 6-minute average from any conveying or screening operation.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 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 40 CFR Part 60.675.

Emission Limitation:

15% opacity, as a 6-minute average from any crusher.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 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 40 CFR Part 60.675.

Emission Limitation:

0.01 pound of fugitive PM10/hr from truck dumping operations

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation by a one time calculation utilizing the sum of the maximum hourly throughput rates at each process point and the emissions factors listed in AP-42, Fifth Edition, Crushed Stone and Pulverized Mineral Processing, Section 11.19.2, Table 11.19.2-2 (English Units), dated 8/04, as follows:

$(500 \text{ tons/hour} * 0.000016 \text{ lb/ton})$

= 0.01 pound of fugitive PM10/hr from truck dumping operations

Emission Limitation:

0.04 ton of fugitive PM10/yr from truck dumping operations

Applicable Compliance Method:

The 0.04 TPY emission limitation was developed by multiplying the 0.01 lb/hr emission rate by a maximum operating schedule of 8,760 hours/year and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

2.78 pounds of fugitive PM10/hr from the crushing and screening operations

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation by a one time calculation utilizing the sum of the maximum hourly throughput rates at each process point and the emissions factors listed in AP-42, Fifth Edition, Crushed Stone and Pulverized Mineral Processing, Section 11.19.2, Table 11.19.2-2 (English Units), dated 8/04, as follows:

$((500 \text{ tons/hour} * 0.00054 \text{ lb/ton}) + (475 \text{ tons/hour} * 0.00054 \text{ lb/ton})) + (450 \text{ tons/hour} * 0.00054 \text{ lb/ton}) + (450 \text{ tons/hour} * 0.00074 \text{ lb/ton}) + (475 \text{ tons/hour} * 0.00074 \text{ lb/ton}) + (300 \text{ tons/hour} * 0.00074 \text{ lb/ton})$

= 1.68 pounds of fugitive PM10/hr from crushing and screening operations

Emission Limitation:

12.2 tons of fugitive PM10/yr from crushing and screening operations

Applicable Compliance Method:

The 12.2 TPY emission limitation was developed by multiplying the 2.78 lb/hr emission rate by a maximum operating schedule of 8,760 hours/year and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

1.23 pounds of fugitive PM10/hr from the plant conveyors and transfer points

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation by a one time calculation utilizing the sum of the maximum hourly throughput rates at each process point and the emissions factors listed in AP-42, Fifth Edition, Crushed Stone and Pulverized Mineral Processing, Section 11.19.2, Table 11.19.2-2 (English Units), dated 8/04, as follows:

$(29 * (500 \text{ tons/hour} * 0.000046 \text{ lb/ton}))$

= 0.67 pound of fugitive PM10/hr from plant conveyors and transfer points

Emission Limitation:

5.4 tons of fugitive PM10/yr from the plant conveyors and transfer points

Applicable Compliance Method:

The 5.4 TPY emission limitation was developed by multiplying the 1.23 lb/hr emission rate by a maximum operating schedule of 8,760 hours/year and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

0.05 pound of fugitive PM10/hr from product loading operations

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation by a one time calculation utilizing the sum of the maximum hourly throughput rates at each process point and the emissions factors listed in AP-42, Fifth Edition, Crushed Stone and Pulverized Mineral Processing, Section 11.19.2, Table 11.19.2-2 (English Units), dated 8/04, as follows:

$(500 \text{ tons/hour} * 0.0001 \text{ lb/ton})$

= 0.05 pound of fugitive PM10/hr from product loading operations

Emission Limitation:

0.22 ton of fugitive PM10/yr from product loading operations

Applicable Compliance Method:

The 0.22 TPY emission limitation was developed by multiplying the 0.05 lb/hr emission rate by a maximum operating schedule of 8,760 hours/year and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

F. **Miscellaneous Requirements**

1. None