

AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for DGM Inc., Tow Path Ready Mix located in Jackson County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio EPA Source Number	Source Identification Description	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
^{P9} F 001	^{240 tph} Concrete Batching	Watering and Minimize Drop Height Filter Sock and Enclosure	3745-31-05	0.048 LB Particulate emissions/hr (0.021 TPY Particulate emissions)
^{P9} F 002	Material Handling	Fabric Filter, Watering and Minimize Drop Heights	3745-31-05	3.58 LB Particulate emissions/hr (15.7 TPY Particulate emissions) 0.030 gr/dscf or No Visible Emissions
F003	Storage Piles	Watering and Minimize Drop Heights Minimize Pile Heights	3745-31-05	Storage Piles - no visible emissions for 13 min./60 min. period
F004	Roadways and Parking Areas	Watering, sweeping and graveling surfaces	3745-31-05	Paved - No visible emissions except for 1 min./60 min. period Unpaved - No visible emissions except for 3 min./60 min. period.

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons/Year
Particulate	16.84

SPECIAL TERMS AND CONDITIONS

CONCRETE BATCHING (F001)

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>
Concrete Batching (F001)	OAC Rule 3745-31-05	0.048 LB Particulate Emissions/HR 0.21 Tons Particulate Emissions/Yr Opacity shall not exceed 20% as a 3-minute average for the fugitive emissions.

2. Additional Terms and Conditions

None

B. Operational Restrictions

None

C. Monitoring and/or Record Keeping Requirements

The permittee shall perform daily observations for any visible particulate emissions from the emissions unit, other than water vapor. These observations shall be performed by a person who is trained in recording visible emissions. The presence or absence of any visible emissions shall be recorded in an operations log. If any visible emissions are observed, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be recorded in the operations log.

D. Reporting Requirements

The permittee shall submit an annual reports which identify any exceedances of the above conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If an exceedance did not occur during the reporting time period, then a report stating that fact is required.

For each excursion event, the following information shall be provided:

- (i) the date of the excursion;
- (ii) the time interval over which the excursion occurred;
- (iii) the operating rates during the excursion;
- (iv) the cause(s) of the excursion; and
- (v) the corrective action(s) which have or will be taken to prevent similar excursions in the future.

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: 0.048 LB Particulate Emissions/Hr, 0.21 Tons Particulate Emissions/Yr

Applicable Compliance Method: If required, the permittee shall demonstrate compliance by testing in accordance with emission factors contained in AP-42, Table 11.12-2, Truck Loading (0.02 #/ton material loaded).

Emission limitation: Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a three-minute average, except as provided by rule.

Applicable Compliance Method: If required, compliance shall be demonstrated by the Method 9 or Method 22, 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

None

MATERIAL HANDLING (F002)

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 Handling (F002)	OAC Rule 3745-31-05	3.58 LB Particulate Emissions/HR 15.7 Tons Particulate Emissions/Yr 0.030 gr/dscf or no visible emissions from the stack.

2. Additional Terms and Conditions

None

B. Operational Restrictions

1. During the loading of sand and aggregate, the drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the working area(s).
2. Sufficient moisture content shall be maintained by the addition of water on an as needed basis.
3. The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point.
4. Cement shall be transferred pneumatically to storage. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement emanating from the delivery vehicle shall be cause for the immediate halt of the unloading process and the refusal of the cement loading until the situation is corrected.
5. The cement silo shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient to minimize at all times visible emissions of fugitive dust at the points of capture. The fabric filter shall achieve an outlet emissions rate of not greater than 0.030 grains per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following monthly records:
 - a. the amounts of sand, stone and cement processed at this facility; and
 - b. the number of hours of operation.

2. The permittee shall perform daily observations for any visible particulate emissions from the emissions unit, other than water vapor. These observations shall be performed by a person who is trained in recording visible emissions. The presence or absence of any visible emissions shall be recorded in an operations log. If any visible emissions are observed, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be recorded in the operations log.

D. Reporting Requirements

1. The permittee shall submit an annual reports which identify any exceedances of the above conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If an exceedance did not occur during the reporting time period, then a report stating that fact is required.

For each excursion event, the following information shall be provided:

- (i) the date of the excursion;
- (ii) the time interval over which the excursion occurred;
- (iii) the operating rates during the excursion;
- (iv) the cause(s) of the excursion; and
- (v) the corrective action(s) which have or will be taken to prevent similar excursions in the future.

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: 3.58 LB Particulate Emissions/Hr, 15.7 Tons Particulate Emissions/Yr or 0.030 gr/dscf.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance by calculating emissions in accordance with emission factors contained in AP-42, Table 11.12-2, Cement Unloading, Sand & Aggregate Transfer (ef = 0.30 #/ton).

Emission limitation: No visible emissions from the stack.

Applicable Compliance Method: If required, compliance shall be demonstrated by the Method 9 or Method 22, 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

None

MATERIAL STORAGE PILES (F003)

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 (F003)	OAC Rule 3745-31-05	See Section B.2 below.

2. Additional Terms and Conditions

None

B. Operational Restrictions

1. The permittee shall employ Best Available Technology to control particulate emissions from the material storage piles. Control measures shall include, but not be limited to, the following:
 - a. minimize drop heights;
 - b. watering; and
 - c. low storage pile heights.
2. For material storage piles, there shall be no visible particulate emissions except for a period of time no to exceed one minute during any sixty-minute observation period.

C. Monitoring and/or Record Keeping Requirements

The permittee shall perform daily observations for any visible particulate emissions from the emissions unit, other than water vapor. These observations shall be performed by a person who is trained in recording visible emissions. The presence or absence of any visible emissions shall be recorded in an operations log. If any visible emissions are observed, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be recorded in the operations log.

D. Reporting Requirements

The permittee shall submit an annual reports which identify any exceedances of the above conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If an exceedance did not occur during the reporting time period, then a report stating that fact is required.

For each excursion event, the following information shall be provided:

- (i) the date of the excursion;
- (ii) the time interval over which the excursion occurred;
- (iii) the operating rates during the excursion;
- (iv) the cause(s) of the excursion; and
- (v) the corrective action(s) which have or will be taken to prevent similar excursions in the future.

E. Testing Requirements

1. Compliance with the emission limitations in Sections A.1. and B.2. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation: No visible particulate emissions (except for 1 minute per 60 minute period).

Applicable Compliance Method: If required, the permittee shall demonstrate compliance by testing in accordance with Method 9 or Method 22, 40 CFR Part 60, Appendix A. If required, the permittee shall demonstrate compliance by calculating emissions (0.04 lb/hr particulate emissions, 0.18 tpy particulate emissions) in accordance with emission factors contained in AP-42, Table 11.12-2, Storage Piles (ef = 3.5 #/acre/day).

F. Miscellaneous Requirements

None

ROADWAYS AND PARKING AREAS (F004)

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>
Roadways and Parking Areas (F004)	OAC Rule 3745-31-05	See Section B below.

2. Additional Terms and Conditions

None

B. Operational Restrictions

1. There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed 1 minute during any 60-minute observation period.
2. There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed 3 minutes during any 60-minute observation period
3. The permittee shall sweep the paved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The following equipment shall be used to sweep the roadways and parking areas: broom sweeper. The paved surfaces shall be swept, at a minimum, every week. The permittee shall not be required to sweep during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
4. The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. Water shall be used as the dust suppressant, and the following equipment shall be used for the periodic applications: water sprinkling system with a recovery tank. The dust suppressant shall be applied to the unpaved surfaces, as needed to comply with the allowable particulate matter emission rate. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
5. Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
6. A maximum speed limit of 10 miles per hour shall be posted and enforced on all unpaved roads and parking areas on the property.
7. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records which include the following information for the paved roadways and parking areas:
 - a. the date the paved surfaces were swept/flushed;
 - b. the portions of the paved surfaces that were swept/flushed; and
 - c. the name of the equipment operator responsible for the sweeping/flushing.
2. The permittee shall maintain records which include the following information for the unpaved roadways and parking areas:
 - a. the date and time dust suppressants were applied to the unpaved surfaces;
 - b. the portions of unpaved surfaces that were treated with dust suppressants;
 - c. the application rate of water and any chemical additives (gallons of each per square yard); and
 - d. the name of the equipment operator responsible for the application of the dust suppressants.

D. Reporting Requirements

None

E. Testing Requirements

1. Compliance with the emission limitation(s) in Sections A.1. and B of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission limitation: Visible emissions limitations from paved/unpaved roadways and parking areas (paved: 1 minute/60 minute period, unpaved: 3 minutes/60 minute period).

Applicable Compliance Method: If required, the permittee shall demonstrate compliance by testing in accordance with Method 9 or 22, 40 CFR Part 60, Appendix A. If required, the permittee shall demonstrate compliance by calculating (0.17 #/hr particulate emissions, 0.75 TPY particulate emissions) emissions in accordance with emission factors contained in RACM, Section 2.1.1.2, Equation 2.

F. Miscellaneous Requirements

None