



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
SENECA COUNTY**

**CERTIFIED MAIL**

Street Address:

50 West Town Street, Suite 700

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 03-17307**

**Fac ID: 0374020222**

**DATE: 2/28/2008**

MGQ Aggregates, Inc.  
Lynn Radabaugh  
PO Box 130  
Old Fort, OH 44861

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

NWDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 2/28/2008  
Effective Date: 2/28/2008**

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**FINAL PERMIT TO INSTALL 03-17307**

Application Number: 03-17307  
Facility ID: 0374020222  
Permit Fee: **\$4400**  
Name of Facility: MGQ Aggregates, Inc.  
Person to Contact: Lynn Radabaugh  
Address: PO Box 130  
Old Fort, OH 44861

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2000 W. County Road 42  
Tiffin, Ohio**

Description of proposed emissions unit(s):  
**Limestone dry fines plant.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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Chris Korleski  
Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- 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 recordkeeping 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 appropriate Ohio EPA District Office or local air agency. 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 (i.e., postmarked) quarterly 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.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

**MGQ Aggregates, Inc.**  
**PTI Application: 03-17307**  
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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

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The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

#### **10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

#### **11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

#### **12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	7.01
PM10	7.01

## PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

### A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 specified in narrative form following the table.

#### Operations, Property, and/or Equipment - (F004) - raw material (limestone) handling.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (C)	See A.2.b
OAC rule 3745-17-08 (B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-07(B).
OAC rule 3745-17-07 (B)	This emission unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

### 2. Additional Terms and Conditions

- 2.a The following material handling and processing equipment/operations are covered by this permit:
  - i. front-end loader;
  - ii. feeder (F1);
  - iii. 10' x 24" conveyor (C1);
  - iv. 40' x 24" conveyor (C2);
  - v. 5 x 10 screen (S1);
  - vi. 50' x 24" conveyor (C3); and
  - vii. chute transfer.
- 2.b Permit to Install 03-17307 for this air contaminant source takes into account the use of aggregate with a high inherent moisture content (4% moisture) and a corresponding visible fugitive emission restriction of 20% opacity, as a three-minute average as voluntary restrictions proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05 (A)(3), to ensure potential particulate emissions (PE) and

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emissions of particulate matter 10 microns or less in size (PM10) are each less than 10.0 tons per year.

If at any time the inherent moisture content of the aggregate is not sufficient to meet the above applicable requirement, the permittee shall employ control measures to ensure compliance.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall perform visible emission inspections of the material handling operations associated with this emissions unit in accordance with the following minimum frequencies:

<b>Material Handling Operation</b>	<b>Minimum Inspection Frequency</b>
loading	once during each day of operation
transfer points/conveying	once during each day of operation
screening	once during each day of operation

2. The purpose of the inspections is to determine the need for implementing additional control measures. The inspections shall be performed during representative, normal operating conditions.
3. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement control measure(s);
  - c. the dates control measure(s) was (were) implemented; and
  - d. on a calendar quarter basis, the total number of days control measure(s) was

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(were) implemented.

The information in (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.

Emissions Unit ID: **F004****D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports, in accordance with the reporting requirements of the General Terms and Conditions of this permit, 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.

**E. Testing Requirements**

1. Compliance with the emission limitations specified in Section A.1 of the terms and conditions of this permit shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 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 paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

None

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (F005) - product (dried limestone) load-out operation with telescopic chute and partial enclosure.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (C)	See A.2.a
OAC rule 3745-17-08 (B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-07(B).
OAC rule 3745-17-07 (B)	This emission unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

**2. Additional Terms and Conditions**

- 2.a Permit to Install 03-17307 for this air contaminant source takes into account the following voluntary restrictions proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05 (A)(3), to ensure controlled potential particulate emissions (PE) and emissions of particulate matter 10 microns or less in size (PM10) are each less than 10.0 tons per year.
  - i. use of a partial enclosure and telescopic chute and a corresponding visible fugitive emission restriction of 20% opacity, as a three-minute average;
  - ii. loading of product (dried limestone) that has been sized to a specification of 4 mesh x 30 mesh

If at any time the proposed control measures are not sufficient to meet the above

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applicable requirement, the permittee shall employ additional control measures to ensure compliance.

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**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

1. 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., enclosure openings) 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.

**D. Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., enclosure openings) serving this emissions unit and (b) describe any corrective

**MGQ Aggregates, Inc.****DTI Application: 02 17207****Facility ID: 0374020222****Emissions Unit ID: F005**

actions taken to minimize or eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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**E. Testing Requirements**

1. Compliance with the emission limitations specified in Section A.1 of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. Emission Limitation:

Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 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 paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

None

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P001) - product (fines) load-out operation with pneumatic hose and baghouse.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (C)	<p>5.0 mg particulate emissions (PE)/dscm and 2.06 tons PE/year for emission units P001 and P901 combined (see A.2.b and A.2.c)</p> <p>5.0 mg particulate matter 10 micron or less in size (PM10)/dscm and 2.06 tons PM10/year for emission units P001 and P901 combined (see A.2.b and A.2.c)</p> <p>Visible particulate emissions shall not exceed 0% opacity, as a six-minute average from the baghouse stack serving this emissions unit.</p>
OAC rule 3745-17-11 (B)	See A.2.c
OAC rule 3745-17-07 (A)	See A.2.d

**2. Additional Terms and Conditions**

- 2.a Permit to Install 03-17307 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):
  - i. use of a baghouse achieving a maximum outlet concentration of 5.0 mg PE/dscm and 5.0 mg PM10/dscm and a corresponding visible emission restriction of 0% opacity, as a six-minute average

The potential to emit for this emissions unit and for the limestone dryer, the enclosed material handling operations, and product (fines) storage associated

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with this emissions unit P901 is 2.06 tons PE/year and 2.06 tons PM10/year and was determined by multiplying the maximum outlet concentrations of 5.0 mg/dscm, a maximum volumetric air flow rate of 25,000 dscfm, and a maximum operating schedule of 8760 hours/year, applying the appropriate conversion factors of 1 gram/1,000 milligrams, 1 pound/454 grams, 60 minutes/hour, 0.0283 m<sup>3</sup>/ft<sup>3</sup>, and 1 ton/2,000 pounds.

- 2.b** The emission limitations of 5.0 mg PE/dscm and 2.06 tons PE/year and 5.0 mg PM10/dscm and 2.06 tons PM10/year represent the emissions from the baghouse serving this emissions unit (P001) and the limestone dryer, the enclosed material handling operations, and product (fines) storage associated with this emissions unit P901.
- 2.c** All emissions of particulate matter are PM10.
- 2.d** The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (C).
- 2.e** The visible emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (C).

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

- 1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible 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 color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

\*Based on the current configuration of this emissions unit, this monitoring and recordkeeping requirement will be met by performing and recording the results of the daily Method 9 observations required for emissions unit P901.

Emissions Unit ID: P001

**D. Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

\*Based on the current configuration of this emissions unit, this reporting requirement will be met by submitting the semi annual deviation reports associated with the Method 9 observations required for emissions unit P901.

**E. Testing Requirements**

1. Compliance with the emission limitations specified in Section A.1 of the terms and conditions of this permit shall be determined in accordance with the following methods:
  - a. Emission Limitation(s):  
5.0 mg PE/dscm and 2.06 tons PE/year for emission units P001 and P901 combined  
5.0 mg PM10/dscm and 2.06 tons PM10/year for emission units P001 and P901 combined

Applicable Compliance Method:

The mg/dscm emission limitations were established in accordance with the baghouse manufacturer's guaranteed maximum outlet concentration (and assumption that all emissions of particulate matter are PM10).

If required, compliance with the PE limitation shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 60 Appendix A, Methods 1 through 5.

If required, compliance with the mg PM10/dscm emission limitation shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 51, Appendix M, Methods 201 and 202. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office (NWDO).

The annual emission limitations were established by multiplying the maximum

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outlet concentrations of 5.0 mg/dscm, a maximum volumetric air flow rate of 25,000 dscfm, and a maximum operating schedule of 8760 hours/year, applying the appropriate conversion factors of 1 gram/1,000 milligrams, 1 pound/454 grams, 60 minutes/hour, 0.0283 m<sup>3</sup>/ft<sup>3</sup>, and 1 ton/2,000 pounds. Therefore, provided compliance with the 5.0 mg PE/dscm and the 5.0 mg PM10/dscm limits are demonstrated, compliance with the annual limitations will be assumed.

b. Emission Limitation:

Visible particulate emissions shall not exceed 0% opacity, as a six-minute average from the baghouse stack serving this emissions unit.

Applicable Compliance Method:

If required compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment (P901) product drying, screening, transferring/conveying, and storage.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (A)(3)(b)	See A.2.b
OAC rule 3745-31-05 (C)	<p><u>product drying, transfer/conveying, screening, and product (fines) storage:</u></p> <p>5.0 mg particulate emissions (PE)/dscm and 2.06 tons PE/year for emission units P001 and P901 combined (see A.2.c and A.2.d)</p> <p>5.0 mg particulate matter 10 micron or less in size (PM10)/dscm and 2.06 tons PM10/year for emission units P001 and P901 combined (see A.2.c and A.2.d)</p> <p>Visible emissions shall not exceed 0% opacity, as a six-minute average from the baghouse stack serving the limestone dryer and enclosed material handling operations.</p> <p><u>product (dried limestone) storage silos:</u>                      0.03 gr PE/dscf and 4.51 tons PE/year                      0.03 gr PM10/dscf and 4.51 tons PM10/year (see A.2.c and A.2.d)</p> <p>Visible emissions shall not exceed 0% opacity, as a six-minute average from the baghouse stacks serving the silo bin vents.</p> <p><u>fugitive emissions:</u>                      There shall be no visible fugitive emissions from the building openings associated with the enclosed material handling operations (see A.2.f).</p>

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OAC rule 3745-17-11 (B)	See A.2.g.
OAC rule 3745-17-07 (A)	See A.2.h.
OAC rule 3745-17-08 (B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-07(B).
OAC rule 3745-17-07 (B)	This emission unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
OAC rule 3745-21-08(B)	See A.2.j
40 CFR Part 60 (NSPS), Subpart UUU	See A.2.i.

## 2. Additional Terms and Conditions

**2.a** The following equipment/operations are covered by this permit:

- i. natural gas-fired fluidized bed limestone dryer with baghouse;
- ii. pneumatic screw conveyor (totally enclosed)
- iii. 15 ton (500 barrel) fines silo with baghouse;
- iv. 40' x 24" conveyor (C4) with building enclosure and baghouse;
- v. 6 x 12 screen (S2) with building enclosure and baghouse;
- vi. 40' x 24" conveyor (C5) with building enclosure and baghouse;
- vii. bucket elevator with building enclosure and baghouse;
- viii. 300 ton product silo #1 with baghouse;
- ix. 300 ton product silo #2 with baghouse;
- x. 300 ton product silo #3 with baghouse; and
- xi. 300 ton product silo #4 with baghouse.

**2.b** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05 (A)(3) do not apply to the nitrogen oxide (NO<sub>x</sub>), and carbon monoxide (CO) emissions from natural gas combustion in the limestone dryer associated with this air contaminant source since the uncontrolled potential to emit for each of these pollutants is less than ten tons per year.

**2.c** Permit to Install 03-17307 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):

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- i. use of a baghouse to control emissions from the limestone dryer, the enclosed material handling operations, and product (fines) storage associated with this emissions unit. The baghouse shall achieve a maximum outlet concentration of 5.0 mg PE/dscm and 5.0 mg PM10/dscm and a corresponding visible emission restriction of 0% opacity, as a six-minute average
- ii. use of a baghouse to control emissions from product (dried limestone) storage silos achieving a maximum outlet concentration of 0.03 gr PE/dscf and 0.03 gr PM10/dscf and a corresponding visible emission restriction of 0% opacity, as a six-minute average
- iii. no visible fugitive emissions from the building openings associated with the enclosed material handling operations

The potential to emit for the limestone dryer, the enclosed material handling operations, and product (fines) storage associated with this emissions unit and emission unit P001 is 2.06 tons PE/year and 2.06 tons PM10/year and was determined by multiplying the maximum outlet concentrations of 5.0 mg/dscm, a maximum volumetric air flow rate of 25,000 dscfm, and a maximum operating schedule of 8760 hours/year, applying the appropriate conversion factors of 1 gram/1,000 milligrams, 1 pound/454 grams, 60 minutes/hour, 0.0283 m<sup>3</sup>/ft<sup>3</sup>, and 1 ton/2,000 pounds.

The potential to emit for the product (dried limestone) storage silos is 4.51 tons PE/year and 4.51 tons PM10/year and was determined by combining the annual emissions from the four identical bin vents. The annual emissions were calculated by multiplying the maximum baghouse outlet concentrations, the maximum volumetric air flow rates (1,000 acfm per bin vent), and the following conversion factors in order to convert to tons per year: 1 pound/7,000 grains, 60 minutes/hour, 8,760 hours/year, and 1 ton/2,000 pounds.

**2.d** All emissions of particulate matter are PM10.

**2.e** The emission limitations of 5.0 mg PE/dscm and 2.06 tons PE/year and 5.0 mg PM10/dscm and 2.06 tons PM10/year represent the emissions from the baghouse serving the limestone dryer, the enclosed material handling operations, and product (fines) storage associated with this emissions unit (P901) and the emissions from the product (fines) load-out operation associated

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with emissions unit P001.

- 2.f The material handling operations associated with this emissions unit (P901) are enclosed in a building that is vented to a baghouse. An estimated 99% of the emissions are captured by the baghouse. The resulting fugitive emissions are negligible, therefore, a fugitive PE/PM10 limitation will not be established in this permit.
- 2.g The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (C).
- 2.h The visible emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (C).
- 2.i The requirements of this rule are equivalent to or less stringent than the emission limitations and monitoring and record keeping requirements established pursuant to OAC rule 3745-31-05 (C).
- 2.j The "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 (B) are satisfied by the design of the emissions unit.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, that rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP), however, until the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

## **B. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

## **C. Monitoring and/or Recordkeeping Requirements**

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall have a certified visible emissions observer measure and record

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three 6-minute averages of the opacity of visible emissions to the atmosphere each day of operation from the limestone dryer in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") and the procedures in 40 CFR Part 60.11. These records shall be retained for at least two years.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving the dried product storage bins. The presence or absence of any visible 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 color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.
  
4. 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.) associated with the enclosed material handling operations. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible fugitive emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
  
2. The permittee shall submit semiannual written reports which identify all six-minute periods during which the average opacity from the dry control device was greater than 0 percent. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
  
3. The permittee shall submit semiannual written reports that (a) identify all days during

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which any visible particulate emissions were observed from the stacks serving the dried product storage bins and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) associated with the enclosed material handling operations serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
5. Pursuant to the New Source Performance Standards (NSPS), the source owner/operator is hereby advised of the requirements to report the following at the appropriate times:
  - a. construction date (no later than 30 days after such date);
  - b. actual start-up date (within 15 days after such date); and
  - c. date of performance testing (if required, at least 30 days prior to testing).

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Reports are to be sent to:

Ohio EPA, Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402

## **E. Testing Requirements**

1. Compliance with the emission limitations specified in Section A.1 of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation(s):  
baghouse serving dryer, enclosed material handling operations, and product (fines) storage

5.0 mg PE/dscm and 2.06 tons PE/year  
5.0 mg PM10/dscm and 2.06 tons PM10/year

### Applicable Compliance Method:

The mg PE/dscm emission limitation was established in accordance with the baghouse manufacturer's guaranteed maximum outlet concentration. If required, compliance with the particulate emission limitation shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 60 Appendix A, Methods 1 through 5.

All emissions of particulate matter are PM10 and have been established as equivalent to the PE limitation. If required, compliance with the mg PM10/dscm emission limitation shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 51, Appendix M, Methods 201 and 202. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office (NWDO).

The annual emission limitations were determined by multiplying the maximum outlet concentrations of 5.0 mg/dscm, a maximum volumetric air flow rate of 25,000 dscfm, and a maximum operating schedule of 8760 hours/year, applying the appropriate conversion factors of 1 gram/1,000 milligrams, 1 pound/454 grams, 60 minutes/hour, 0.0283 m<sup>3</sup>/ft<sup>3</sup>, and 1 ton/2,000 pounds. Therefore, provided compliance with the 5.0 mgPE/dscm and the 5.0 mg PM10/dscm limits are demonstrated, compliance with the annual limitations will be assumed.

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- c. Emission Limitation(s):  
baghouses serving product (dried limestone) storage silo bin vents

0.03 gr PE/dscf and 4.51 tons PE/year  
0.03 gr PM10/dscf and 4.51 tons PM10/year

Applicable Compliance Method:

The gr PE/dscf emission limitation was established in accordance with the baghouse manufacturer's guaranteed maximum outlet grain loading concentration. If required, compliance with the particulate emission limitation shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 60 Appendix A, Methods 1 through 5.

All emissions of particulate matter are PM10 and have been established as equivalent to the PE limitation. If required, compliance with the mg PM10/dscm emission limitation shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 51, Appendix M, Methods 201 and 202. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office (NWDO).

The annual emission limitations were established by combining the annual emissions from the four identical bin vents. The annual emissions were calculated by multiplying the maximum baghouse outlet concentrations, the maximum volumetric air flow rates (1,000 acfm per bin vent), and the following conversion factors in order to covert to tons per year: 1 pound/7,000 grains, 60 minutes/hour, 8,760 hours/year, and 1 ton/2,000 pounds. Therefore, provided compliance is demonstrated with the 0.03 gr PE/dscf and the 0.03 gr PM10/dscf limitations, compliance with the annual limitations will be assumed.

- d. Emission Limitation:  
0% opacity, as a six-minute average from the limestone dryer

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with requirements in Section C.2.

- e. Emission Limitation:  
0% opacity, as a six-minute average from the storage bin vents

Applicable Compliance Method:

If required compliance shall be determined according to test Method 9 as set

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forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."

- f. Emission Limitation:  
no visible fugitive emissions from building enclosure

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified 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".

2. The permittee shall conduct, or have conducted, an initial performance test for the baghouse serving the limestone dryer that is associated with this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable maximum outlet concentrations for PE and PM10 and the opacity restriction.
  - c. The following test methods shall be employed to demonstrate compliance with the above emissions: for PE, Methods 1-4 and 5 of 40 CFR Part 60, Appendix A; for PM10, Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M; and for opacity, Method 9 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60.11. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office (NWDO).

The sampling time and volume for each test run shall be as least 2 hours and 1.70 dscm.

- d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, NWDO.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, NWDO. The "Intent to Test" notification shall describe in detail the proposed test methods and

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procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, NWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, NWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report of the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, NWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, NWDO.

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**F. Miscellaneous Requirements**

1. 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 for 40 CFR Part 60 are also federally enforceable.

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SIC CODE 1422 SCC CODE 3-05-020-06 EMISSIONS UNIT ID F004  
 EMISSIONS UNIT DESCRIPTION raw material (limestone) handling.

DATE INSTALLED 11/07

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment			NA	NA
PM <sub>10</sub>	Attainment			NA	NA
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?  
**BAT is not applicable**

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO  
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES \_\_\_\_\_ NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_

Emissions Unit ID: P901

SIC CODE 1422 SCC CODE 3-05-020-06 EMISSIONS UNIT ID F005  
 EMISSIONS UNIT DESCRIPTION product (dried limestone) load-out operation with telescopic chute.  
 DATE INSTALLED 11/07

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment			NA	NA
PM <sub>10</sub>	Attainment			NA	NA
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

**BAT is not applicable.**

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO  
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES \_\_\_\_\_ NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_

Emissions Unit ID: P901

SIC CODE 1422 SCC CODE 3-05-020-06 EMISSIONS UNIT ID P001  
 EMISSIONS UNIT DESCRIPTION product (fines) load-out operation with pneumatic hose and baghouse.  
 DATE INSTALLED 11/07

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment	5.0 mg PE/dscm	2.06 (P001 + limestone dryer)	same	same
PM <sub>10</sub>	Attainment			NA	NA
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

**Use of pneumatic load-out and baghouse to avoid requirements of BAT.**

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES \_\_\_\_\_ NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_

**MGQ Aggregates, Inc.**  
**PTI Application: 03-17307**  
**Issued: 2/28/2008**

**Facility ID: 0374020222**

Emissions Unit ID: **P901**

SIC CODE 1422 SCC CODE 3-05-020-06 EMISSIONS UNIT ID P901  
3-05-020-12  
 EMISSIONS UNIT DESCRIPTION product drying, transferring, conveying, and storage with baghouses.  
 DATE INSTALLED 11/07

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment	nat gas= 0.1lb/hr dryer stack= 5.0 mg/dscm storage silos= 0.03 gr/dscf	nat gas= 0.44 dryer stack= 2.01 storage silos= 4.51	same	same
PM <sub>10</sub>	Attainment	same as PE	same as PE	same as PE	same as PE
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? UUU NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

**Use of baghouses to avoid requirements of BAT.**

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \_\_\_\_\_

\$

### **TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES \_\_\_\_\_ NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_