



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
HAMILTON 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: 14-05905**

**Fac ID: 1431034229**

**DATE: 4/19/2007**

Evans Gravel Inc.  
Chris Ferguson  
3700 Round Bottom Road, Anderson Township  
Cincinnati, OH 45244

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

HCDES



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**FINAL PERMIT TO INSTALL 14-05905**

Application Number: 14-05905  
Facility ID: 1431034229  
Permit Fee: **\$1700**  
Name of Facility: Evans Gravel Inc.  
Person to Contact: Chris Ferguson  
Address: 3700 Round Bottom Road, Anderson Township  
Cincinnati, OH 45244

Location of proposed air contaminant source(s) [emissions unit(s)]:

**Mt. Carmel Road, Anderson Township  
Cincinnati, Ohio**

Description of proposed emissions unit(s):

**Evans Landscaping Inc. has submitted this PTI application requesting air permits for operations such as mineral extraction, material handling, storage , etc. at the facility.**

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

Evans Gravel Inc.  
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## 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

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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	18.0
PM-10	6.6

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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 - (F001) - Roadways and Parking Areas**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) shall not exceed 1.82 tons per year.</p> <p>There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period.</p> <p>There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed one minute during any sixty minute observation period.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See terms and conditions A.2.a through A.2.g).</p>
ORC 3704.03(T)(4)	See term and condition A.2.h.
OAC rule 3745-17-07(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(B)(5)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a 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. In accordance with permittee's permit

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application, the permittee has committed to treat the unpaved roadways and parking areas with chemical stabilization/dust suppressants and/or water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.b** 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 an 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.
- 2.c** 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.
- 2.d** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.e** 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. In accordance with the permittee's permit application, the permittee has committed to ensure compliance by maintaining average speed limit, sweeping and watering. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.f** 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

Emissions Unit ID: F001

emission limitation for paved roadways and parking areas.

**2.g** 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.

**2.h** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05 (A)(3) do not apply to the total particulate matter emissions 10 microns and less in diameter (PM10) from this air contaminant source since the total uncontrolled potential to emit for the PM10 is less than ten tons per year.

## **B. Operational Restrictions**

None

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

1. Except as otherwise provided in this section, the permittee shall perform daily inspections of all roadways and parking areas.
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 the appropriate field office (having jurisdiction over the new site), modify the above-mentioned inspection frequencies if operating experiences 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:
  - a. 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;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

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- c. the dates the control measures were implemented; and
- d. 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 deviation reports that identify any of the following occurrences:
  - a. each day 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
  - b. 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. 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):
  - a. Emission Limitations:  
Particulate emissions from unpaved roadways and parking areas shall not exceed 1.1 tons per year.

Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the following equations:

Emissions Unit ID: **F001**

For unpaved roadways and parking areas:

$$\text{Tons/year PE} = [(A) * (B) * (C) * (0.0005)];$$

where:

A = emission factor in pounds per vehicles mile traveled (VMT) i.e. lb/VMT determined using the equation from AP-42, 13.2.1; (A = 4.63 lb/VMT)

B = Vehicles miles traveled annually i.e. VMT/year; (B = 9556.31 VMT/year)

C = (100 - 95)% i.e. taking into consideration the control efficiency of 95%.

0.0005 is the factor for pounds per year to tons per year conversion.

For paved roadways and parking areas:

$$\text{Tons per year PE} = [(A) * (B) * (0.0005)];$$

where:

A = emission factor in pounds per vehicles mile traveled (VMT) i.e. lb/VMT determined using the equation from AP-42, 13.2.2; (A = 3.75 lb/VMT)

B = Total annual vehicles miles traveled in paved roadways and parking areas (VMT/year); (B = 3822.53 VMT/year).

0.0005 is the factor for pounds per year to tons per year conversion.

Emissions from paved and unpaved roadways and parking areas shall be totaled to determine compliance.

b. Emission Limitations:

No visible PE from any unpaved roadway or parking area except for three minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitations listed 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

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Sources").

- c. Emission Limitations:  
No visible PE from any paved roadway or parking area except for one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitations listed 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").

- d. Emission Limitations:  
Uncontrolled potential to emit PM10 is less than 10.0 tons per year.

Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the emission factors from AP-42, Section 13.2, VMT and control efficiencies from the air permit to install application 14-05905 submitted on December 12, 2006.

**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 - (F002) - Storage Piles**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
ORC rule 3704.03(T)(4)	See term and condition A.2.a.
OAC rule 3745-17-07(B)(6)	No visible particulate emissions from any material storage pile except for a period of time not to exceed thirteen minutes during any sixty minute observation period.

**2. Additional Terms and Conditions**

- 2.a The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the total fugitive particulate emissions from this air contaminant source since the total uncontrolled potential to emit for fugitive particulate emissions is less than ten tons per year.

**B. Operational Restrictions**

None

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

None

**D. Reporting Requirements**

None

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions

Emissions Unit ID: **F002**

shall be determined in accordance with the following method(s):

a. Emission Limitation:

There shall be no visible particulate emissions from any material storage pile except for a period of thirteen minutes during any sixty minute observation period.

Applicable Compliance Method:

Compliance 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, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

b. Emissions Limitation:

Uncontrolled potential to emit particulate emissions is less than 10.0 tons per year.

Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the following equations:

$$\text{tons PE/yr} = [(A) * (C) * (0.0005)] + [(B) * (C) * (0.0005)] + [(D) * (E) * (F) * (0.0005)]$$

where,

A = Particulate matter emissions factor for storage pile load-in, pounds per ton of material handled, calculated with reference to AP-42, Section 13.2.4, (November, 2006); (A = 0.0052 lb/ton).

B = Particulate matter emissions factor for storage pile load-out, pounds per ton of material handled, calculated with reference to AP-42, Section 13.2.4, (November, 2006); (B = 0.0052 lb/ton).

C = Total annual tons material handled; © =560,000 tons per year)

D = PM emissions factor for storage pile wind erosion developed from EPA-450-3-88-008, 9/88); (D = 6.78 pounds per day per acre)

E = Total storage pile surface area; ( E = 4.9 acres).

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F = Total number of days per year, storage piles are exposed to wind erosion;  
(F = 365 days)

**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) - Mineral Extraction**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3704.03(T)(4)	See term and condition A.2.a

**2. Additional Terms and Conditions**

- 2.a The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the total fugitive particulate emissions from this air contaminant source since the total uncontrolled potential to emit for the fugitive particulate emissions is less than ten tons per year.

**B. Operational Restrictions**

None

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

None

**D. Reporting Requirements**

None

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.2.a of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitations:

Emissions Unit ID: **P001**

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Uncontrolled potential to emit particulate emissions is less than 10.0 tons per year.

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Applicable Compliance Method:

Emissions shall be calculated and compliance be determined by using the following equations:

$$\text{Tons of PE per year} = [(A_1B_1 + A_2B_2 + \dots + A_nB_n) * (0.0005)];$$

where:

A = Annual tonnage of aggregates/minerals processed under each specific operation such as topsoil removal, truck loading, etc. (involved in mineral extraction) in tons per year.

B = Emission factor of particulate emissions (PE) in pounds per ton from each specific operation such as topsoil removal, truck loading, etc. (involved in mineral extraction) as referred from US EPA AP-42, Table 11.9-4, Western Surface Coal Mines.

The factor 0.0005 has been used in the above equation for the purpose of pounds per year to tons per year conversion.

**F. Miscellaneous Requirements**

None

Emissions Unit ID: P002

**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 -(P002) - Aggregate Processing Plant with crushing, screening and material handling.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) shall not exceed 11.8 pounds per hour and 9.66 tons per year.</p> <p>Particulate matter emissions 10 microns and less (PM10) shall not exceed 4.6 pounds per hour and 3.70 tons per year.</p> <p>The requirement of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart OOO.</p> <p>See term and condition B.1 - B.3.</p>
40 CFR Part 60 Subpart OOO	See terms and conditions A.2.b - A.2.e.
OAC rule 3745-17-07(B)	The emission limitation specified by this rule is less stringent than those established pursuant to 40 CFR Part 60 Subpart OOO.

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by wet-mining the aggregate and the use of water sprays, as necessary, to keep the material moist to meet the opacity limitations and compliance with the emissions limitations.
- 2.b Fugitive particulate emissions from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10 percent opacity, except as provided by rule 40 CFR 60.672.
- 2.c Fugitive particulate emissions from any crusher shall not exceed 15 percent opacity.

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- 2.d** Fugitive particulate emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin shall not exceed 0 percent opacity.
- 2.e** Fugitive particulate emissions from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line shall not exceed 0 percent opacity.
- 2.f** The hourly emission limitations outlined in section A.1. are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.
- 2.g** 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 of 40 CFR Part 60 are also federally enforceable.

**B. Operational Restrictions**

- 1. The total amount of aggregate processed by the emissions unit P002 shall not exceed 560,000 tons per year.
- 2. Water sprays shall be operated at points necessary to ensure compliance with the visible emission limitations specified in section A.2.b, A.2.c, A.2.d and A.2.e. for crushing, transfer points, screening, and conveying operations.
- 3. Aggregate product loaded onto trucks shall have a moisture content sufficient to minimize visible emissions of fugitive dust and the loading drop height shall not exceed fifteen (15) feet.

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

- 1. The permittee shall maintain monthly records of the amount of aggregate processed in emissions unit P002.

**D. Reporting Requirements**

1. A screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to 40 CFR 60.672(h) and subsequently processes unsaturated material shall submit a report of this change within 30 days following such change to the Hamilton County Department of Environmental Services. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in 40 CFR 60.672(b) and the emission test requirements of 40 CFR 60.11 and 60.675. A screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in 40 CFR 60.672(h).
2. The permittee shall notify Hamilton County Department of Environmental Services in writing prior to re-configuration of any aggregate processing and material handling equipment that will increase the maximum hourly production rate from that identified in the PTI application 14-05905, submitted December 12, 2006, for this emissions unit. This notification shall include information sufficient to determine if the proposed re-configuration will comply with the existing permit to install limitations. If the proposed re-configuration will not comply with the existing permit to install limitations, the permittee shall not commence the re-configuration until a permit to install modification is issued.
3. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that identify any exceedance of the annual production rate limitation in term and condition B.1 as well as the corrective actions that were taken to achieve compliance. If no exceedances occurred, then the permittee shall state so in the report. These reports shall be submitted by January 31 of each year.
4. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services which specify the total PE emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement 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), including a description of

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each affected emissions unit, equipment manufacturer, and serial number of the equipment if available; and

- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, Ohio 45219

- 6. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate initial compliance with the standards in 40 CFR 60.672 of Subpart OOO, including reports of observations using Method 9 to demonstrate compliance with section A.2.b and A.2.c of this permit. Wet mining operations - terms A.2.d. and A.2.e. - are exempt from initial compliance tests per 40 CFR 60.675(h).

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

- 7. The permittee shall notify Hamilton County Department of Environmental Services in writing prior to the replacement of any existing aggregate processing and material handling equipment of equal or smaller size subject to the requirements of 40 CFR Part 60.670(d). The notification shall include the equipment-specific design and capacity information required in 60.676(a).

## **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:
  - a. Emissions Limitations:  
11.8 pounds of PE per hour; 9.66 tons of PE per year  
4.6 pounds of PM10 per hour; 3.70 tons of PM10 per year

Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the following equations:

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$$\text{Pounds of PE per hour} = A_1B_1 + A_2B_2 + \dots + A_nB_n$$

where:

A = emission factor of particulate emissions (PE) in pounds per ton from each specific operation such as crushing, hopping, conveying, etc. involved in aggregate processing as referred from US EPA AP-42, Table 11.19.2-2 (Version 8/04).

B = maximum hourly process rate in tons per hour for each specific operation such as crushing, hopping, conveying, etc. involved in aggregate processing as provided in the air permit to install application 14-05905 submitted on December 12, 2006.

The tons per year emission limitations are based on pounds per hour emissions rates multiplied by the number of hours of operation in a year (1600 hours of operation per year) and divided by 2000 for pounds to tons conversion. Compliance shall be determined from multiplying the actual annual production rate by the above emission factor.

b. Emission Limitation:

The permittee shall not cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15% opacity.

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO.

c. Emission Limitation:

The permittee shall not cause to be discharged into the atmosphere from any transfer point or screen, where the material is not saturated, any fugitive emissions which exhibit greater than 10% opacity.

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO.

d. Emission Limitation:

The permittee shall not discharge any visible particulate emissions into the

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atmosphere from any wet screening operations and subsequent operations, and any screening operations, bucket elevators, and belt conveyors in the production line downstream of wet operations.

**Applicable Compliance Method:**

Compliance 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. Compliance with the production limitation in term and condition B.1 shall be demonstrated by the required records in term and condition C.1.
3. The permittee shall conduct, or have conducted, fugitive visible particulate emission testing for emissions unit F001 in accordance with the following requirements:
  - a. The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after initial startup.
  - b. Compliance with the opacity limits as specified in term A.2.b and A.2.c of this permit shall be determined by using US EPA Reference Test Method 9 (40 CFR Part 60). The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). Wet mining operations - terms A.2.d. and A.2.e. - are exempt from initial compliance tests per 40 CFR 675(h).
  - c. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
  - d. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency.

The "Intent to Test" notification shall describe in detail the proposed test methods and 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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.

**F. Miscellaneous Requirements**

None