



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL
BROWN COUNTY
Application No: 07-00502**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
40 CFR Part 60, Subpart 000	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 4/5/2001

Eagle Crushed Stone
Jeff Parry
4281 Roush Rd
Hillsboro, OH 45133-9999

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 by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

PCHD



FINAL PERMIT TO INSTALL 07-00502

Application Number: 07-00502
APS Premise Number: 0708000065
Permit Fee: **\$1000**
Name of Facility: Eagle Crushed Stone
Person to Contact: Jeff Parry
Address: 4281 Roush Rd
Hillsboro, OH 45133-9999

Location of proposed air contaminant source(s) [emissions unit(s)]:
**13526 Overstake Rd
Winchester, Ohio**

Description of proposed emissions unit(s):
Portable pug mill.

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

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 Related to Monitoring and Recordkeeping 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 quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

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 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)

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 application must be made to the Director for the installation or modification of any other emissions unit(s).

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.

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 thirty (30) 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>
particulate	0.10
particulate less than 10 microns	0.05

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F008 - Portable pug mill: 2 portable bins, 4 portable conveyor transfer points with water sprays	OAC rule 3745-31-05(A)(3)	0.28 lbs/hr and 0.10 tpy of particulate emissions 0.14 lbs/hr and 0.05 tpy of particulate of less than 10 microns See A.2.b & c below The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO..
	40 CFR Part 60, Subpart OOO	See A.2.a below.
	OAC rule 3745-17-07(B)(1) (See Section A.2.d)	The visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average (See Sections A.2.b.and A.2.d)
	OAC rule 3745-17-08 (B) (See Section A.2.d.)	Reasonably available control measures (RACM). (See Sections A.2.c. and A.2.d.)

2. Additional Terms and Conditions

- 2.a There shall be no visible particulate emissions of fugitive dust greater than 10% opacity from any transfer point.
- 2.b The aggregate materials processed through the portable bins and conveyor transfer points shall have water spray control sufficient to minimize or eliminate visible emissions of fugitive dust so that compliance with the opacity requirements specified above is continuously maintained.

- 2.c Moisture content of crushed stone shall be sufficient to minimize or eliminate visible emissions of fugitive dust
- 2.d These OAC rules, the stated visible emission opacity requirement, and the application of RACM are applicable only when this emissions unit is located in an Appendix A area as specified in OAC rule 3745-17-08.

B. Operational Restrictions

- 1. The permittee shall operate and maintain the water spray control system for the conveyor transfer points when the conveyor transfer points are in use.
- 2. The maximum annual production rate for this emissions unit shall not exceed 250,000 tons, based upon a rolling, 12-month summation of the production rates.

To ensure enforceability during the first 12 calendar months of operation, the permittee shall not exceed the production levels specified in the following table:

Month	Maximum Allowable Cumulative Production
1	20833
1-2	41667
1-3	62500
1-4	83333
1-5	104167
1-6	125000
1-7	145833
1-8	166667
1-9	187500
1-10	208333
1-11	229167
1-12	250000

After the first 12 calendar months of operation, compliance with the annual production rate limitation shall be based upon a rolling, 12-month summation of the production rates.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall perform weekly inspections of the water spray system to ensure proper operation of spray nozzles, water pumps, and associated equipment. Either the proper operation or a malfunction of the control system shall be noted in an operations log. If the malfunction of the spray system is observed, the permittee shall also record the following in the operations log:
 - a. period of time when the water spray system is not in operation while aggregate is being processed;

- b. corrective actions taken to minimize or eliminate visible emissions during the control equipment malfunction; and,
 - c. corrective actions taken to repair the water spray control system.
2. The permittee shall maintain monthly records of the following information:
 - a. the production rate for each month; and
 - b. beginning after the first 12 calendar months of operation, the rolling, 12-month summation of the production rates.

Also, during the first 12 calendar months of operation, the permittee shall record the cumulative production rate for each calendar month.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify any period of time when the water spray system was not in operation while aggregate was being processed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Portsmouth Local Air Agency by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month production rate limitation and, for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative production levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
3. Pursuant to the NSPS, the permittee 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. anticipated start up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start up date (within 15 days of such date); and
 - d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, Ohio 432116-3669

or

Portsmouth Local Air Agency
740 Second Street
Portsmouth, Ohio 45662

E. Testing Requirements

1. Within 60 days of reaching maximum production, but not later than 180 days after initial start up, and at such times as may be required by the Director, the permittee shall conduct, or have conducted, an opacity test for the new transfer points of pug mill system portable conveyors in order to demonstrate compliance with the specified allowable opacity limitation. The opacity test shall be conducted in accordance with the test methods specified in 40 CFR 60.675.

Not later than 30 days prior to the proposed test date(s), this facility shall submit an Intent to Test (ITT) notification to the Portsmouth Local Air Agency. The ITT notification shall describe in detail the proposed test methods and procedures, the source operating parameters, the time(s) and the dates(s) of the tests. Failure to submit such notification for review and approval prior to the tests may result in the Portsmouth Local Air Agency's refusal to accept the results of the opacity tests.

Personnel from the Portsmouth Local Air Agency shall be permitted to witness the tests. Personnel from this facility shall acquire data and information regarding the source operating parameters. Data reduction of opacity readings (to determine compliance with opacity limitations) shall be based upon 6-minute averages, and if applicable, 3-minute averages.

A comprehensive written report of the results of the opacity tests (including opacity levels and the source operating parameters) shall be submitted to the Portsmouth Local Air Agency within 30 days following completing of the tests.

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

0.28 lb/hr of particulate

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the emissions for each piece of equipment (load-in to hoppers, conveyor transfer points, pug mill, and load-out). Calculate the emissions from each piece of equipment by multiplying the maximum process rate, in tons/hour, times the appropriate emissions factor listed below. The emissions factors were obtained from AP-42, Volume I, 5th Edition, Chapter 1.

Load-In to Hoppers 0.003 lb/ton

Transfer Point 0.000101 lb/ton AP-42, Section 11.19, Table 11.19-2 dated January 1995 - the controlled PM10 factor times 2.1 in accordance with footnote c

Pug Mill

Load-Out to Truck 0.000101 lb/ton AP-42, Section 11.19, Table 11.19-2 dated January 1995 - the controlled PM10 factor times 2.1 in accordance with footnote c

b. Emission Limitation:

0.10 tpy of particulate

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the emissions for each piece of equipment (load-in to hoppers, conveyor transfer points, pug mill, and load-out). Calculate the emissions from each piece of equipment by multiplying the restricted annual process rate, in tons/year divided by 2,000 pounds/ton times the appropriate emissions factor listed below. The emissions factors were obtained from AP-42, Volume I, 5th Edition, Chapter 1.

c. Emission Limitation:

0.14 lb/hr of particulate less than 10 microns

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the emissions for each piece of equipment (load-in to hoppers, conveyor transfer points, pug mill, and load-out). Calculate the emissions from each piece of equipment by multiplying the maximum process rate, in tons/hour, times the appropriate emissions factor listed below. The emissions factors were obtained from AP-42, Volume I, 5th Edition, Chapter 1.

Load-In to Hoppers	0.003 lb/ton	
Transfer Point	0.000048 lb/ton	AP-42, Section 11.19, Table 11.19-2 dated January 1995 - controlled PM10 factor
Pug Mill		
Load-Out to Truck	0.0048 lb/ton	AP-42, Section 11.19, Table 11.19-2 dated January 1995 - controlled PM10 factor

d. Emission Limitation:

0.05 tpy of particulate less than 10 microns

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the emissions for each piece of equipment (load-in to hoppers, conveyor transfer points, pug mill, and load-out). Calculate the emissions from each piece of equipment by multiplying the restricted annual process rate, in tons/year divided by 2,000 pounds/ton times the appropriate emissions factor listed below. The emissions factors were obtained from AP-42, Volume I, 5th Edition, Chapter 1.

e. Emission Limitation:

10% opacity from any transfer point

Applicable Compliance Method:

Compliance shall be demonstrated using the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A, with the modifications listed in 40 CFR 60.675 Subpart 000.

f. Emission Limitation:

20% opacity, as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

- a. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a Permit to Install providing the following criteria are met:
 - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective Permit to Operate;
 - iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Portsmouth Local Air Agency and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in the Portsmouth Local Air Agency's and the appropriate field office's judgement, the proposed site is acceptable under OAC rule 3745-15-07.
- b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a Permit to Install providing the following criteria of OAC rule 3745-31-05(F) are met:
 - i. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - ii. The portable emissions unit is equipped with best available technology;
 - iii. The portable emissions unit owner has identified the proposed site to the Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit at the proposed site will have an acceptable environmental impact;
 - v. A public notice, consistent with OAC rule 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided that the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the portable emissions unit owner has provided Ohio EPA with fifteen days written notice of the relocation.

- c. Any site approvals issued by the Ohio EPA, pursuant to A.IV.1.b above shall be valid for no longer than three years, and are subject to renewal.

In order for the Director to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate" within the specified time frame (30 or 15 days) prior to relocation of the emissions unit with the Portsmouth Local Air Agency and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Portsmouth Local Air Agency and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the source may result in fines and civil penalties.

NEW SOURCE REVIEW FORM B

PTI Number: 07-00502

Facility ID: 0708000065

FACILITY NAME Eagle Crushed StoneFACILITY DESCRIPTION Portable pug mill CITY/TWP WinchesterSIC CODE 1422 SCC CODE _____ EMISSIONS UNIT ID F008EMISSIONS UNIT DESCRIPTION Portable pug mill: two portable bins, four portable conveyor transfer points with water sprays

DATE INSTALLED _____ to be installed 03/01

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	0.28 lb/hr	0.10 tpy	0.28 lb/hr	0.10 tpy
PM ₁₀	attainment	0.14 lb/hr	0.05 tpy	0.14 lb/hr	0.05 tpy
Sulfur Dioxide		NA	NA	NA	NA
Organic Compounds		NA	NA	NA	NA
Nitrogen Oxides		NA	NA	NA	NA
Carbon Monoxide		NA	NA	NA	NA
Lead		NA	NA	NA	NA
Other: Air Toxics		NA	NA	NA	NA

APPLICABLE FEDERAL RULES:

NSPS? **Subpart OOO**

NESHAP?

PSD?

OFFSET POLICY?

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

Enter Determination - use of water sprays at transfer points

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*?

YESNO

IDENTIFY THE AIR CONTAMINANTS: _____