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Facility Name: **Eagle Crushed Stone, Davon Inc**

Application Number: **07-464**

Date: **August 19, 1998**

### **GENERAL PERMIT CONDITIONS**

#### **TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

#### **NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

#### **CONSTRUCTION OF NEW SOURCES**

The proposed source(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 are inadequate or cannot meet applicable standards.

If the construction of the proposed source(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 Ohio Administrative Code (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

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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 applicable standards.

### **PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

### **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.

### **APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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### **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.

### **PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

### **SOURCE OPERATION 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 and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Eagle Crushed Stone, Davon Inc** located in **Brown** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
F006	Mineral extraction (drilling, blastings overburden removal and truck loading)	Fabric filter collection system for drilling operation	3745-31-05	13.67 TPY PM/PM <sub>10</sub>  For the overburden removal, drilling, and truck loading operations the visible emissions shall not exceed 20 percent opacity as a three-minute average.  See Additional Special Term and Condition A.1.a.

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SUMMARY  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM/PM <sub>10</sub>	13.67

**CONSTRUCTION STATUS**

The **Portsmouth Air Pollution Control** shall be notified in writing as to (a) the construction starting date, (b) the construction completion date, and (c) the date the facilities were placed into operation for the following sources: **F006**.

**RECORD(S) RETENTION AND AVAILABILITY**

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

**REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Portsmouth Air Pollution Group, 740 Second Street, Portsmouth, OH 45662**.

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### **WASTE DISPOSAL**

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

### **MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

### **MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Portsmouth Air Pollution Group, 740 Second Street, Portsmouth, OH 45662.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

### **NINETY DAY OPERATING PERIOD**

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

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**ADDITIONAL SPECIAL TERMS AND CONDITIONS**

**A. Operational Restrictions**

1. Mineral extraction includes the following activities: overburden removal, drilling and blasting, truck loading, waste disposal, and reclamation. The permittee shall implement the precautions/control strategies listed below to reduce fugitive emissions:

- a. Drilling

Any drill used at this plant must employ Reasonably Available Control Measures (RACM) for fugitive dust sources. RACM for drilling operations is deemed to be a fabric filter collection system. The fabric filter collection system shall achieve an outlet emission rate of not greater than 0.030 grain of particulate matter per dry standard cubic foot of exhaust gases or there are no visible emissions from the exhaust stack, whichever is less stringent.

No contract drilling may occur at this plant without the permittee first certifying, in writing to the Portsmouth Local Air Agency, that the contractor's drilling rig employs RACM.

- b. Blasting

The proper sizing of charges, the judicious placement of charges, and the proper sequencing of blasts to prevent overshooting shall be observed at all times.

**B. Testing Requirements**

1. Compliance with the emission limits in the Air Emission Summary of this permit shall be determined in accordance with the following methods:

- a. Emission Limit

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For the overburden removal, drilling, and truck loading operations the visible emissions shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method

OAC rule 3745-17-03(B) (3)

b. Emission Limit

13.67 TPY PM/PM<sub>10</sub>

Applicable Compliance Method

Compliance shall be determined by calculating the sum of the following:

Drilling - Multiply the tons drilled per day (.171 ton/day) by the emission factor of .008 pound/ton (AP-42; 11.19.2-2; factor for wet drilling multiplied by 100 for dry drilling) times .145 (correction for 95 percent capture and 90 percent control) multiplied by 365 day/year divided by 2000 pounds/ton.

Blasting - Multiply the number of blasts per year (730 blasts/year) by the emission factor of 36.5 pounds/blast (AP-42; 11.9-6) divided by 2,000 pounds/ton.

Overburden Removal - Multiply the cubic yards removed per year (258,133 yard<sup>3</sup>/year) by the emission factor of 0.0026 pound/yard<sup>3</sup> (AP-42; 11.9-2) divided by 2,000 pounds/ton.

Truck Loading - Multiply the tons loaded per year (2,900,000 tons/year) by the emission factor of .000016 pound/ton (AP-42; 11.19.2-2) divided by 2,000 pounds/ton.