

COMMONWEALTH OF VIRGINIA  
STATE AIR POLLUTION CONTROL BOARD  
REGULATIONS FOR THE CONTROL AND ABATEMENT OF AIR POLLUTION

9 VAC 5 CHAPTER 40.  
EXISTING STATIONARY SOURCES.

PART II.  
Emission Standards.

ARTICLE 14.  
Emission Standards For Sand and Gravel Processing Operations and  
Stone Quarrying and Processing Operations (Rule 4-14).

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- 9 VAC 5-40-1940. Facility and control equipment maintenance or malfunction.
- 9 VAC 5-40-1950. Permits.

9 VAC 5-40-1820. Applicability and designation of affected facility.

A. The affected facility to which the provisions of this article apply is each sand and gravel processing operation and each stone quarrying and processing operation.

B. The provisions of this article apply throughout the Commonwealth of Virginia.

9 VAC 5-40-1830. Definitions.

A. For the purpose of these regulations and subsequent amendments or any orders issued by the board, the words or terms shall have the meaning given them in subsection C of this section.

B. As used in this article, all terms not defined here shall have the meaning given them in 9 VAC 5 Chapter 10 (9 VAC 5-10-10 et seq.), unless otherwise required by context.

C. Terms defined.

"Process operation" means a method, form, action, operation or treatment of manufacturing or processing, including any storage or handling of materials or products before, during or after manufacturing or processing.

"Process unit" means any step in a manufacturing or process operation which results in the emission of pollutants to the atmosphere.

"Process weight" means total weight of all materials introduced into any process unit which may cause any emission of pollutants. Process weight includes solid fuels charged, but does

not include liquid and gaseous fuels charged or combustion air for all fuels.

"Process weight rate" means a rate established as follows:

- a. For continuous or long-run steady-state process operations the total process weight for the entire period of continuous operation or for a typical portion of it, divided by the number of hours of such period or portion of it.
- b. For cyclical or batch process operations, the total weight for a period that covers a complete operation or an integral number of cycles, divided by the hours of actual process operation during such a period.

9 VAC 5-40-1840. Standard for particulate matter.

A. No owner or other person shall cause or permit any material to be produced, handled, stockpiled or transported without taking measures to reduce to a minimum any particulate matter from becoming airborne. Where it is practical to measure the emission, the emission shall not exceed the limits established by Table 4-14. All such airborne particulate matter emanating from the yards, sidings or roads of such operations shall be considered fugitive dust and shall be controlled as stipulated in 9 VAC 5-40-1860. All crushers shall be fitted with liquid sprays or other appropriate systems which effectively limit the escape of airborne dust. Vibrating and shaker screens handling dry materials shall be enclosed or fitted with a collector system which will prevent the release of more than 0.05 grains per standard cubic foot. All feeders, elevators, conveyors, transfer points, discharge points and loading points shall be equipped with collectors, sprays or other means when necessary to minimize the escape of dust.

TABLE 4-14

Process Weight Rate		Maximum Allowable
Lb/Hr	Tons/Hr	Emission Rate Lb/Hr
100 or less	0.05 or less	0.551
200	0.10	0.877
400	0.20	1.40
600	0.30	1.83
800	0.40	2.22
1000	0.50	2.58
1500	0.75	3.38
2000	1.00	4.10
2500	1.25	4.76
3000	1.50	5.38
3500	1.75	5.96
4000	2.00	6.52
5000	2.50	7.58
6000	3.00	8.56
7000	3.50	9.49
8000	4.00	10.4
9000	4.50	11.2
10000	5.00	12.0
12000	6.00	13.6
16000	8.00	16.5
18000	9.00	17.9
20000	10.00	19.2

30000	15.00	25.2
40000	20.00	30.5
50000	25.00	35.4
60000	30.00	40.0
70000	35.00	41.3
80000	40.00	42.5
90000	45.00	43.6
100000	50.00	44.6
120000	60.00	46.3
140000	70.00	47.8
160000	80.00	49.1
200000	100.00	51.3
1000000	500.00	69.0
2000000	1000.00	77.6
6000000	3000.00	92.7

B. Interpretation of emission standard in subsection A of this section shall be in accordance with 9 VAC 5-40-22.

C. The provisions of this section shall not apply to affected facilities identified in subsection A of this section and located in AQCR 7; however, the provisions of 9 VAC 5-40-270 shall apply to the facilities.

9 VAC 5-40-1850. Standard for visible emissions.

The provisions of Article 1 (9 VAC 5-40-60 et seq.) of 9 VAC 5 Chapter 40 (Emission Standards for Visible Emissions and Fugitive Dust/Emissions, Rule 4-1) apply.

9 VAC 5-40-1860. Standard for fugitive dust/emissions.

The provisions of Article 1 (9 VAC 5-40-60 et seq.) of 9 VAC 5 Chapter 40 (Emission Standards for Visible Emissions and Fugitive Dust/Emissions, Rule 4-1) apply.

9 VAC 5-40-1870. **[Not in SIP]**

9 VAC 5-40-1880. **[Not in SIP]**

9 VAC 5-40-1890. Compliance.

The provisions of 9 VAC 5-40-20 (Compliance) apply.

9 VAC 5-40-1900. Test methods and procedures.

The provisions of 9 VAC 5-40-30 (Emission Testing) apply.

9 VAC 5-40-1910. Monitoring.

The provisions of 9 VAC 5-40-40 (Monitoring) apply.

9 VAC 5-40-1920. Notification, records and reporting.

The provisions of 9 VAC 5-40-50 (Notification, Records and Reporting) apply.

9 VAC 5-40-1930. Registration.

The provisions of 9 VAC 5-20-160 (Registration) apply.

9 VAC 5-40-1940. Facility and control equipment maintenance or malfunction.

The provisions of 9 VAC 5-20-180 (Facility and Control Equipment Maintenance or Malfunction) apply.

9 VAC 5-40-1950. Permits.

A permit may be required prior to beginning any of the activities specified below and the provisions of 9 VAC 5 Chapter 50 (9 VAC 5-50-10 et seq.) and 9 VAC 5 Chapter 80 (9 VAC 5-80-10 et seq.) may apply. Owners contemplating such action should contact the appropriate regional office for guidance.

1. Construction of a facility.
2. Reconstruction (replacement of more than half) of a facility.
3. Modification (any physical change to equipment) of a facility.
4. Relocation of a facility.
5. Reactivation (restart-up) of a facility.