

**INSTRUCTIONS  
FORM F7  
SAND and GRAVEL OPERATIONS**

Department of Environmental Quality  
Division of Air Quality  
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DAQ ID	For office use only.
Pt. Source ID	Provide the identification number associated with the process.
SCC	Enter the appropriate Source Classification Code (SCC). See <i>page 18 of the General Instructions for explanation.</i>
Description of Process Generating Emissions	<p>Describe the process or equipment which causes or contributes to the air emissions at this source from the following: primary or secondary crushing (wet material), primary or secondary crushing (dry material), tertiary crushing (dry material), flat screens (dry products), transfer station, pile formation - stacker, truck loading (conveyor and front end loader) and unloading operations, conveying tunnel belt, etc.</p> <p>Please specify any other operations and provide relevant information necessary for emission calculations.</p>
NSPS	If equipment is regulated under New Source Performance Standards (NSPS), enter 'yes'. <i>The Approval Order conditions usually list any applicable NSPS equipment.</i>
Material Type	Specify the type of material processed.
Thru-put	Give the annual thru-put in tons per year.
% Silt Content	Estimate the average percentage of material passing through a 100 mesh sieve screen.
% Moisture Content	Enter the average moisture content of material before any water has been introduced. Ranges of aggregate moisture content are from 0% to 8% for moist material.
Emission Control Code	See Table 5 on page 21 of the General Instructions for options.
% Control Efficiency Control	Provide particulate control efficiency for the control facility. Efficiency of water sprays can be assumed to be between 75% and 90% if the moisture content of material passing through a 40 mesh sieve has a water content of 4% by weight.
Days/yr Applied	Include the number of days this control application was used.
Emissions	Calculate the quantity for each pollutant accounting for any

control, where appropriate, in tons per year. Report emissions rounded to nearest hundredth. **Provide complete calculations on a separate sheet.** See page 15 of the General Instructions for information on completing calculations.

**Estimate Code** Provide the method code for quantifying actual emissions of each pollutant. The valid method codes are listed in Table 6, page 26 of the General Instructions. If estimate code **8** (EPA Emission Factor) is used, also include the specific AP-42 section used in the Comments field; see page 15 for a link to AP-42.

**Emission Factor** Provide the emission factors used in the calculations for each pollutant. See page 14 of the General Instructions for information on emission factors.

**Units** Units appropriate to the emission factor used must be provided.

**Suggested Emission Factors (lbs emissions/tons thru-put):**  
*Estimate code is 8, using these factors.*

<b>CRUSHING</b>		
<b>Source</b>	<b>Total PM<sub>10</sub></b>	<b>Total PM<sub>2.5</sub></b>
Primary, Secondary, and Tertiary Crushing (dry material)	0.0024	No Data
Primary, Secondary, and Tertiary Crushing (wet material)	0.00054	0.00010
Fines Crushing (dry material)	0.015	No Data
Fines Crushing (wet material)	0.0012	0.000070
Reference: AP-42 Table 11.19.2-2.		
<b>SCREENING</b>		
<b>Source</b>	<b>Total PM<sub>10</sub></b>	<b>Total PM<sub>2.5</sub></b>
Dry Material	0.0087	No Data
Wet Material	0.00074	0.000050
Fines (dry material)	0.072	No Data
Fines (wet material)	0.0022	No Data
Reference: AP-42 Table 11.19.2-2.		
<b>CONVEYORS</b>		
<b>Source</b>	<b>Total PM<sub>10</sub></b>	<b>Total PM<sub>2.5</sub></b>
Transfer point (dry material)	0.0011	No Data
Transfer point (wet material)	4.6 x 10 <sup>-5</sup>	1.3 x 10 <sup>-5</sup>
Reference: AP-42 Table 11.19.2-2		