

EMISSIONS ACTIVITY CATEGORY FORM
MINERAL EXTRACTION: FUGITIVE DUST EMISSIONS
 OEPA EMISSIONS UNITS ID: F008 (if established)

(Note: This emissions activity category form does not include all of the fugitive dust emissions units at a typical mineral extraction facility. For example, roadways and parking areas and storage piles have other forms which must be completed and submitted if such units are present at a facility.)

1. Overburden and mineral removal operations:

a. Type of mineral mined: coal clay or shale
 salt limestone or dolomite
 other (describe) _____

b. Method of mining: underground surface (area strip mining)
 surface (contour strip mining) surface (auger strip mining)
 surface (open-pit mining or quarrying)
 other (describe) _____

c. Quantity of material removed:

Type of Material	Type of Stripping	Type of Equipment Used	Quantity of Material Removed (Max. tons/hr) (Max. tons/yr)	
Overburden	Area	Scraper	_____	_____
_____	Area	Dragline	_____	_____
_____	Area	Miscellaneous	_____	_____
Overburden	Area	Excavator	80	50,000
_____	Contour	_____	_____	_____
_____	_____	_____	_____	_____
_____	Auger	_____	_____	_____
_____	_____	_____	_____	_____
Limestone	Quarry	Loader	1000	4,576,000
_____	_____	_____	_____	_____

2. Drilling operations:

Frequency of drilling:

Maximum no. of holes drilled per hour 2
 Maximum no. of holes drilled per week 80

Maximum number of holes drilled per year:

In overburden -0-
 In mineral deposits (list below by type of mineral):

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Type of Mineral	Number of Holes Drilled Per Year
Limestone	1300
_____	_____
_____	_____

3. Blasting operations:

Frequency of blasting

Maximum no. of blasts per hour 1

Maximum no. of blasts per week 4

Maximum number of blasts per year:

<u>Type of Mineral</u>	<u>Number of Blasts Per Year</u>
<u>Limestone</u>	<u>88</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

4. Loading operations:

- a. Type of loading: front-end loader to off-highway truck
 crawler-mounted shovel to off-highway truck
 other (describe) _____

b. Quantity of material loaded:

<u>Type of Material Loaded</u>	<u>Type of Loading Equipment</u>	<u>Quantity of Material Loaded</u>	
		<u>(Max. tons/hr)</u>	<u>(Max. tons/yr)</u>
<u>Overburden</u>	<u>Loader to truck</u>	<u>80</u>	<u>50,000</u>
<u>Limestone</u>	<u>Loader to truck</u>	<u>1000</u>	<u>4,576,000</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
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5. Waste disposal operations (does not include overburden disposal):

- a. Type of waste disposed:
- low-grade ore slack coal extraneous unmarketable rock
 tailings mud slime other (describe) _____

- b. Method of waste disposal:
- backfilling mining site slurried to holding ponds
 industrial landfill other (describe) _____

c. For heavy earthwork construction around waste disposal sites (leach pad and berm construction associated with the building of waste ponds to hold beneficiation slurry):

Construction operating schedule _____ months/year
Area of construction site: _____ acres

(For truck loading, haul roads and truck dumping activities at waste disposal operations, please include truck loading under item #4 of this form and complete the emissions activity category form for Roadways and Parking Areas for haul roads and complete the emissions activity category form for Material Handling for truck loading and dumping.)

6. Reclamation operations:

- a. Type of reclamation:
- continuous
 - topsoil stored and redistributed after mining
 - dragline or bulldozer used to grade spoils area before applying topsoil
 - other (describe) as needed

If an item other than continuous reclamation has been checked in the above item, please complete the following data:

Type of Material Deposited Over Site	Type of Equipment Used	Quantity of Material Deposited (max. tons/hour)	Quantity of Material Deposited (Max. tons/year)
Overburden	trucks & bulldozer	80	50,000
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- b. Wind erosion at reclamation operations:
- Barren area at reclamation site _____ acres
- Length of barren area _____ feet
- Width of barren area _____ feet

Surface soil type at barren area:

- rocky, gravelly
- sandy
- fine
- clay loam
- other (describe) _____

Surface texture at barren area:

- smooth
- roughened or plowed
- other (describe) _____

7. Control methods to be used for fugitive dust emissions from mineral extraction operations:

(List the control methods to be used to control fugitive dust emissions from each of the mineral extraction operations employed for this emissions unit and shown below. Use the appropriate control method codes (e.g., A, B, C, etc.) as described below to identify those methods in the table below. If no control method code is entered for a specific operation, such operation will be considered uncontrolled. Also, enter the estimated control efficiency for each control method.)

Type of Mineral Extraction Operation	Type of Material Processed	Control Method Code(s)	Control Efficiency (%)
<u>Overburden & mineral removal</u>	<u>Overburden</u>	<u>A</u>	_____
_____	_____	_____	_____
<u>Overburden & mineral removal</u>	_____	_____	_____
_____	_____	_____	_____
<u>Drilling operations</u>	<u>Limestone</u>	<u>G</u>	_____
_____	_____	_____	_____
<u>Drilling operations</u>	_____	_____	_____
_____	_____	_____	_____
<u>Blasting operations</u>	<u>Limestone</u>	<u>I</u>	_____
_____	_____	_____	_____

<u>Loading operations</u>	Limestone	K, M	
	Overburden	K, M	
<u>Waste disposal operations</u>			

Overburden and Mineral Removal Operations

A. Precautionary operating practice-minimization of disturbed land surface:
 Year implemented: 1981

B. Other (describe):

Drilling Operations

C. Water injection system:

Year installed _____
 Source of water _____
 Method of injection _____
 Water injection rate _____ gallons injected/minute

D. Ring water spray system

Manufacturer _____
 Model No. _____
 Source of water _____
 Application rate _____ gallons sprayed/minute

E. Dust ejector system with water spray or foam dust suppression:

Year installed _____
 Manufacturer _____
 Model No. _____
 Source of dust suppressant _____
 Type of dust suppressant used _____
 Application rate _____ gallons sprayed/minute

F. Dust ejector system with exhaust to cyclone:

Company ID for control device _____

G. Dust ejector system with exhaust to fabric filter:

Company ID for control device contractor equipment (Metroplex)

H. Other (describe):

Blasting Operations

I. Preventative methods:

- Check those methods used:
 minimizing the area to be blasted
 prevention of overshooting during blasting

Year implemented_____

Q. Other (describe):

8. Fugitive dust emissions data: Emissions from mineral extraction activities have been determined and such data is included with this form:

yes no

If yes, check method:

emissions unit sampling

emission factor

other (describe) _____

Drilling operations

Limestone

G

Drilling ope