Rhode Island Department of Environmental Management

2015 Air Pollution Inventory

Rock and Sand Processing Plants

_____
Facility Name

_____ _____
Signature of Person Completing Form Date

The amount of material processed per year by each process should be listed on this form. If your facility does not have a particular process mark that process NA.

Type of stone processed: granite ☐ **limestone** ☐

Process	**Tons of material processed per year**
Screening	
Fines Screening	
Primary Crushing	
Secondary Crushing	
Tertiary Crushing	
Fines Crushing	
Screening (controlled)	
Fines Screening (controlled)	
Primary Crushing (controlled)	
Secondary Crushing (controlled)	
Tertiary Crushing (controlled)	
Fines Crushing (controlled)	
Truck unloading fragmented stone	
Truck loading conveyor crushed stone	

	Number of Points	***Tons of material processed per year***
Conveyor transfer points (uncontrolled)		
Conveyor transfer points (controlled)		

Return Form to: Air Pollution/Toxics Inventory, Office of Air Resources
235 Promenade Street, Providence, RI 02908-5767

Controlled operations are those operations that are controlled by wet suppression to control dust.

Primary Crushing - Jaw, impactor or gyratory crushers are used for this initial reduction of the stone. The crusher product, normally 7.5-3 cm (3-12 inches) in diameter and the grizzly throughs (undersize material) are discharged onto a belt conveyor and usually are conveyed to a surge pile for storage.

Secondary Crushing – Cone crushers are commonly used for this process which typically reduces material to about 2.5-10 cm (1-4 inches) in diameter.

Tertiary Crushing – Cone or impact crushers are commonly used for this process. Tertiary crusher output is normally 0.50-2.5 cm (3/16 to 1 inch) in diameter.

Fines Crushing – Oversized material is processed in a cone crusher or hammerhill adjusted to produce small diameter material less than .50 (3/16 inch) in diameter

Screening – The stone from the surge pile is conveyed to a vibrating inclined screen called the scalping screen. This unit separates the oversized rock from the smaller stone. The stone that is too large to pass through the top deck of the scalping screen is processed in the subsequent crusher.

Fines Screening – Crushed stone from the tertiary sizing screen is sized in a vibrating inclined screen (fines screen) with relatively small meshes.

All engines used to power your equipment should be reported on Form F4, "Generators"