

Rhode Island Department of Environmental Management

2023 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:
DEM.AirInventory@dem.ri.gov
Air PollutionInventory, Office of Air Resources 235
Promenade Street, Providence, RI 02908-5767

Air Pollution Inventory Form Q

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 hammermill 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"