NJ Silicosis Outreach and Research Alliance - Engineering Controls for Crystalline Silica
Modifications to Jackhammer Spray Dust Control by NJ DOT
Adopted jackhammer water-spray control

Further refined design

Applied to other equipment:
- concrete saw
- 8-lb. chipper
- compressed-air blowpipe

Representatives from NJ DOT and NJ Turnpike Authority at a demo session for jackhammer water-spray control
NJ DOT Modifications

- Portable battery-powered water supply
- Two nozzles
- Truck-mounted water tank
- Quick-connect fittings
JACKHAMMER

Without water-spray control

With water-spray control
Jackhammer fitted with single water-spray control

Quick-connect fittings

Double-nozzle modification
CONCRETE SAW

Without water-spray control

With water-spray control
8 LB. CHIPPER

Without water-spray control

With water-spray control
Compressed-Air Blowpipe

Close-up view of compressed air pipe with water-spray attachment
NJ DOT Bridge Repair
Atlantic City, NJ
Real-time Air Sampling Results During Dust-Generating Tasks

Concrete Saw

Jackhammer

Engaged water spray

Real-time
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