

## BEST PRACTICE

|                    |                     |                   |                              |
|--------------------|---------------------|-------------------|------------------------------|
| LOCATION:          | Quarry              | ARTICLE YEAR      | 2006                         |
| ACTIVITY:          | Occupational Health | COMPANY:          | Hanson Bath & Portland Stone |
| SUB ACTIVITY:      | Air and dust        | COMPANY LOCATION: | Avon Mill Lane, Somerset     |
| BEST PRACTICE No:  | BP321               | COMPANY TEL:      | 0117 9869631                 |
| COUNTRY OF ORIGIN: | United Kingdom      |                   |                              |

### TITLE

**Dust removal system**

### ARTICLE

The process of cutting and shaping stone at this works creates a high level of airborne dust. The idea to counter this was based upon a wet suppression system found in asphalt plants.

A powerful fan is located in a building where it is linked back to the masons' workstation. The fan sucks the dust through the ducting link where it passes through a series of water bars which send out a fine spray, turning the dust into slurry. This slurry then falls to the bottom of the tank where it is mixed with a flocculent and turned into a semi-solid, ready for disposal. This process therefore removes the dust and releases clean air into the atmosphere. As a consequence, the dust levels have been cut by 50 per cent.

### ARTICLE IMAGES