

Thameslink Programme

Health & Safety – Good Practice 035

Measuring Dust

Overview/Description Redevelopment

The Costain team working at London Bridge have introduced hand held dust monitoring to help quantify the amount of respirable and inhalable dust in the work environment.

The monitor is also used to monitor site boundaries and pedestrian routes adjacent to working areas to test the adequacy of site dust control methods.



Hand held dust monitor

Key Elements

The dust monitor is a hand-held device and is good practice.

It tells the user the concentration of dust in the air by weight and volume i.e. in the picture shown the measured average concentration is 0,373 mg/m³ and the maximum reading shown [here 0.793 mg/m³] is the max concentration measured from the time the user started the recording / sampling.

We then compare this to the max exposure limits i.e. 4 mg/m³ as per HSE guidance. We set our own lower action limit of 2 mg/m³ with work being stopped at 3 mg/m³.

Benefits

- Easy to use
- Portable and robust construction
- It gives an instantaneous reading of the dust concentration
- Can be used to quantify dust emissions from site in the event of complaints
- Multi lingual interface screen