

Hoover Site Merthyr Tydfil Enabling Works

Environmental Monitoring Method Statement

The environmental monitoring at the site will be split into three main elements.

- Boundary Monitoring;
- Monitoring associated with general excavation; and
- Monitoring of excavation of known contaminated areas.

Boundary Monitoring

Site boundary dust and noise monitoring will be carried out at locations shown on Drawing HOV-AMP-2025-001 attached. At each of the boundary monitoring stations, monitoring will be carried out using combined frisbee dust deposition gauges with directional strip gauges and a hand held noise meter.

Dust Gauge samples will be analysed for:

- Mass dust deposited;
- Assessment of deposition direction; and
- Examination under SEM for asbestos fibres as necessary.

Additionally, air quality monitoring for asbestos fibres will be undertaken as necessary during specific works relating to any asbestos contaminated materials i.e. contaminated soils identified within site investigation works.

Analysis of frisbee dust deposition gauges will be carried out twice monthly. On a twice monthly basis airborne particulate and noise monitoring will also be carried out at the frisbee monitoring stations.

Monitoring associated with general excavation

During excavations of soils, dust and noise monitoring will be carried out at two locations down the prevailing wind direction of the excavation works- i.e. generally to the north east of the works (prevailing wind direction is west/south west). Four frisbee dust deposition gauges with directional adhesive strip gauges will be used. Analysis of the frisbee dust deposition gauges will

be carried out twice monthly. Airborne particulate monitoring for total and respirable dust and noise monitoring will be carried out at the frisbee monitoring stations twice a month and at other times of dust/noise generation during the works-principally for site workers occupational health monitoring. Occupational monitoring for dust using personal sampling pumps will be carried during the works.

Monitoring of excavation of known contaminated areas

During the works frisbee dust deposition gauges with directional adhesive strips gauges will be set up at the locations shown on Drawing PSWR-AMP-2026-001. Analysis of the frisbee dust deposition gauges will be carried out twice monthly during the excavations of made ground soils. During working days airborne particulate monitoring, total hydrocarbon vapour, noise and odour monitoring will be carried out at least once a day at monitoring locations using a handheld meter.

Additionally, air quality monitoring for asbestos fibres will be carried out during the excavation of made ground soils. The frequency for this will be determined through risk assessment informed by the proposed latest IG sampling exercise.

Thresholds for Monitoring Works

Thresholds for the various monitoring works will be relevant values detailed in the Health and Safety Executive EH40/2005 (Occupational Exposure Limits) Publication. The proposed threshold for dust deposition gauges is 400mg/m²/day. For deposition rates greater than this, deposition could potentially create nuisance and actions to reduce dust levels such as the following may be required. Actions to reduce dust levels include limiting working areas, damping the site down by spraying water from bowzers and other specialist suppression equipment such as dust bosses.

For monitoring within the areas of excavation, EH40/2005 DEFINES Workplace Exposure Limits (WEL's) which have been set in order to protect the health of workers. These WEL's are expressed as an 8-hour Time Weighted Average (TWA) AND Short Term Exposure Limit (STEL) which is based on 15-minute reference period. The lowest WEL/STEL for substances thought to be present on site is Benzene, the 8-hour TWA exposure limit is 1ppm. For the works a permitted working area exposure concentration of 1 ppm will be adopted. Should the recorded average exceed this limit over a 5-minute period, additional monitoring for 15 minutes will be undertaken. If this limit is still exceeded mitigation measures will be put in place.

Monitoring Records

All sampling and monitoring will be undertaken in line with this document and site specific methods statements. Any equipment required to undertake these tasks will be calibrated on a daily basis or as maintained in accordance with the manufacturer's instructions. Information pertaining to these actions will be recorded on site monitoring specific pro-forma and kept in the site records. This information will then be forwarded to relevant parties.

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AMENDMENTS			
NO.	DETAILS	REV.	DATE

LEGEND	
●	General dust environmental Monitoring Locations

Walters Land Ltd

WALTERS
WALTERS & ASSOCIATES
 ENGINEERS & ARCHITECTS
 100-1000 Highway 100
 Suite 1000
 Tel: (416) 291-1111 Fax: (416) 291-1112

Home Site Map To: 1:10,000

Environmental Monitoring Locations

NO.	DATE	BY	CHKD
101	10/10/2010	10/10/2010	10/10/2010