

Construction Environmental Management Plan

REVISION HISTORY

Issue Number	Reason	Updated by	Date

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1.0 ENVIRONMENTAL MONITORING AND CONTROL MEASURES

Environmental monitoring (e.g. noise, dust, water quality, waste management, energy usage etc.) must be undertaken in accordance with any legal, company and/or planning requirements. The following describes the details of environmental monitoring to be undertaken and the applicable control measures to be used.

Working Hours

- 7.30am to 6pm Monday to Friday
- 8.00am to 2.00pm Saturday

1.1 Air Quality

Air quality and dust will be constantly monitored by the site manager as works progresses. Special attention will be given during any demolition and 'dust suppression' will be continuous.

"Best Practice policies" with respect to Air (Dust) Pollution arising from site will be adopted and the control measures are to include:

- Wherever possible, plant and equipment shall not be left running for long periods when not directly in use.
- Stationery plant shall be required to be located as far from sensitive receptors and inhabited buildings as is reasonably practical;
- Vehicles transporting materials, capable of generating dust, to and from site shall be suitably sheeted on each journey to prevent release of materials and particulate matter. The sheeting material will be maintained in good order, free from excessive rips and tears;
- Burning of wastes or unwanted materials will not be permitted on site;
- All hazardous materials including, chemicals, cleaning agents, solvents and solvent containing products will be properly sealed in sealed containers at the end of each day by the contractor prior to storage in appropriately protected and bunded storage areas;
- Damping down of site activities where necessary;
- For wheel details, please refer to site specific Construction Management Plan.

If complaints regarding dust or air quality are received, the Site Manager will log the complaint, deal with the cause of the complaints and if necessary, implement measures to monitor the dust levels.

1.2 Noise

Noise is to be controlled at source where practicable (e.g. using screening, shielding).

Sensitive site boundaries will be protected by appropriate measures. Any damage or disruption to these protective measures will be made good by the Trade Contractor immediately.

During particularly noisy operations where noise may pose a nuisance to noise sensitive properties, then additional protection measures may be required.

Other control measures are to include:

- All vehicles, compressors and plant will be equipped with effective silencers and noise reducing insulation;
- Work practices will be adopted such that noise emissions are kept to a minimum, i.e. plant not in constant operational use will be switched off, excessive revving of vehicles will not be permitted and noise suppression covers will be closed at all times;
- Loading and unloading of vehicles, dismantling of site equipment such as scaffolding or moving equipment or materials around site will be conducted in such a manner as to minimise noise generation and where possible will be conducted away from noise sensitive areas. Reversing alarms should be set to the minimum setting allowable;
- Noise complaints, breaches of any statutory notices will be investigated by the Site Manager and documented.

1.3 Water

1.3.1 Water Quality

It is vital that surface water and effluent discharge is properly managed and controlled on site to protect the environment. The Project must ensure that no water pollution is caused. Pollution could arise to rivers, streams and other water systems from:

- Discharge of contaminated water from pumps or de-watering wells
- Spillages or contaminated surface water entering watercourses or drainage systems;
- Unauthorised discharge or leaks from pipes passing through, over or adjacent to watercourses or drainage systems;
- Accidental dropping of material into watercourses or drainage systems;
- Unauthorised discharge into a foul sewer drain.
- Possible leakage of fuel oils that are delivered and stored on site;
- Use of pesticides adjacent to watercourses
- Washing down of concrete trucks, bins and silos;

Surface water drainage shall be monitored.

All waterways must be protected from silt run off from site.

“Best practice policies” will be adopted and measures to prevent water pollution include:

- Development of a dedicated fuel storage area that is appropriately concreted and bunded, where possible;
- Provision of ‘spill kits’, sand or other suitable containment and absorbent materials;
- Consents to discharge to foul sewer/surface water dykes.
- Consents for discharge and/or abstraction from surface water and groundwater systems (controlled waters);
- Storage of materials, wastes and fuels away from, surface water and drainage systems.
- Sand bags to capture silt next to water courses
- Clean Water bowsers must be clearly identified and locked to ensure accidental filling with diesel is prevented.

All Trade Contractors are prohibited from washing out tools or equipment or disposing of surplus water to drains without prior permission.

1.3.2 Water Consumption

On site water consumption will be monitored so that water wastage, through for e.g. leaking hoses, running taps etc, can be minimised / avoided.

1.4 Waste Management and Worksite Housekeeping

Measures should be taken to prevent the production of waste where possible, to reduce the production of waste to a minimum, and to re-use or recycle waste where practicable. The Site Manager should promote best practice within the project.

The Company recognises its duty of care to check that the final destination of the waste complies with legislation. The company will ensure that only licensed waste carriers, waste management facilities and landfill sites are used to ensure compliance with legislative requirements.

Waste is to be removed by registered waste carriers only. Trade Contractors may only remove their own waste from site with prior agreement at the time of contract and must provide a copy of their waste carrier licence, waste permit for the transfer site/disposal site and must provide waste transfer notes/consignment notes for each waste removal from site.

1.5 Lighting & Energy

The project temporary lighting and power is to be designed and operated to minimise energy usage and will be controlled where possible through sensors, timers or switches. Energy efficient equipment is also to be specified and used on site.

Night-time lighting will be such that it is sufficient to allow safe passage, but without causing shadows or visual intrusion to adjacent properties or land. The Company will treat any complaint relating glare from stray lighting seriously. In the event of a complaint being received, the complaint will then be logged and the cause investigated fully. Where appropriate, remedial action will be taken by the Company and the complainant informed of what action has been taken.

Appropriate signage is to be in place in the site office reminding staff to turn off electrical items and be energy efficient.

Interior lighting and electrical items should be turned off out of hours when not in use.

1.6 Traffic Management

The Trade Contractors are fully responsible for their delivery vehicles and those entering the site on their behalf (e.g. suppliers).

All Trade Contractors will be required to regularly maintain plant and equipment in accordance with manufacturers' specifications. Copies of vehicle maintenance records will be made available to the Company on request.

A **maximum speed limit** of 10 mph will apply on site for the safety of the workforce and to minimise disturbance from noise and dust.

NOTE: For further information on Traffic management please refer to the site-specific Construction Plan.

1.7 Contaminated Land

Discovery of any tarry, fibrous, odorous or discoloured soil discovered on site must be reported to the Site Manager. All work must cease in the area until the contamination risk has been identified, additional control measures implemented as appropriate and clearance from the Site Manager has been given to proceed.

Contaminated soil requiring disposal will be excavated by the groundwork contractor and kept separate from other soil and waste materials in protected temporary stockpiles prior to disposal. The groundwork Trade Contractor must ensure that contaminated soil wastes are controlled and disposed of legally.

1.8 Flora and Fauna

Work surrounding surface water streams and rivers should proceed with care. If protected species are discovered or suspected, they must not be killed, expelled or disturbed. Where suspected protected habitats are discovered it must not be destroyed or disturbed. In such circumstances work in affected areas will immediately cease and the Site Manager will seek expert advice.

Storage of granular or liquid materials will not be permitted adjacent to surface water or other systems draining to controlled waters (i.e. surface water, groundwater, rivers, lakes, ponds or the sea), to minimise the risks to wildlife.

Trees protected by legislation, or to be retained must be adequately protected from damage by vehicle movements, materials storage and excavations (including the canopy and root system) for the duration of the project and signage in place identifying that they are subject to protection.

In the event that wildlife issues are identified during the course of the project, the Construction Director / Site Manager will consult with an Ecology Expert in order to develop and agree an appropriate management strategy.

1.9 Vermin Control

If any kind of vermin is noticed, the Site Manager must be informed and arrange “Pest Control”.

2.0 ENVIRONMENTAL INSPECTIONS AND REVIEWS

The site manager will carry out Monthly Site Inspections, environmental issues are also addressed during the monthly site inspections by the H&S Manager.

Inspections and audits will identify whether environmental protection measures are being implemented effectively, establish whether specific environmental performance requirements are being met and assess any additional environmental aspects of the site that are not being managed effectively.

Specific activities to be undertaken during the course of an environmental inspection will include:

- Observations
- Inspections of monitoring and other environmental records
- Examination of the evidence of environmental incidents

The Inspector is responsible for following up the actions to ensure that they are cleared, and for updating the Inspection Report with the clearance date(s). If necessary, they should get the help of the appropriate Manager to ensure that the Trade Contractor takes the necessary action.

The Construction Impact Management Plan is recommended to be reviewed at least 6 monthly by the Site Manager and other relevant personnel.