

Noise and Vibration Statement for Fill Operations

Riversee Ltd

Riversee Ltd
Herbert Road
Newport

Development at: Herbert Road
Job No: sw49

1. DUST SUPPRESSION

The local authority has the power under the **Clean Air Act 1993**, to limit the dust, emissions and odours generated by a site. Failure to comply with these limits can result in abatement notices being served if complaints are made.

Complaints can be avoided by adopting the following good working practices:

- Identify sensitive receptors and inform the authorities of any likely nuisances that may occur.
- Instigate control measures to mitigate any negative impacts.
- Develop a daily monitoring regime to record dust conditions whilst noting weather conditions, construction activities, their location and duration on site

The site will be accessed off the Herbert road serving the site, In dry spells the road will be dampened with water to suppress the dust. A road brush will be used to keep the existing road clean and to suppress the dust.

2. DUST SCREENING

If the generation of dust cannot be avoided it may be necessary to erect screens to act as wind breaks or dust barriers. These will take the form of permeable or semi-permeable fences, but may have to be designed to resist high wind loads. Permanent features such as fencing (where practicable), will be erected early in the project.

3. NOISE SUPPRESSION

To ensure the most effective method of noise suppression is used we will be working in line with BS 5228:2009.

Varying site activities will produce shifting noise levels which will be kept to a minimum from neighboring properties. Measures to overcome this will be as the following:

- Avoidance of unnecessary revving of engines
- All Equipment/Plant which is not in use will be switched off or powered down immediately. All Plant/Equipment used on site will be no noisier than the levels quoted in BS 5228-1:2009.
- Internal haul routes will be well maintained.
- Drop heights of materials will be minimized,
- The use of foul language and shouting will be prohibited.

Site operations will be restricted to 08:00 – 18:00 Monday to Friday and 09:00 to 13:00 Saturdays so that noise is not audible at noise sensitive premises outside of these times. These hours are principally the hours that neighboring properties will be out to work. No construction works will take place on Sundays or on Bank Holidays. The site will be securely locked outside of these hours.

Development at: Herbert Road
Job No: sw49

Plant and delivery lorries will be used within the construction period. Noise generated by such machines will be reduced by the proposed hoarding, fencing and other mitigation strategies previously stated. All plant/Equipment will be maintained in a suitable condition in line with manufactures recommendations and only used for the purpose it is intended and by trained and competent persons. Care will be taken to site the equipment/machinery away from noise-sensitive areas and where possible, loading and unloading will be carried out away from such areas. Any Large Plant/Equipment will be secured on site overnight and during periods of non-use as far away as possible from occupied dwellings to minimize disturbance during start up and shut down.

Communication with local residents during the works via letter drops at key stages of the project will be carried out. Site/Project management contact details will be displayed on hoarding on entrance to the site should issues arise.

4. POLLUTION PREVENTION METHODS

An Environmental Emergency may include a spillage to a water resource (surface or groundwater), the ground or abnormal emissions to air.

It is a statutory offence to either cause pollution to a surface and ground water resource or to contaminate ground around a site. The 'Prosecution Policy' of the enforcement agencies defines the basis for when legal action will be undertaken and how they determine the severity of the crime. The prosecution policy brings into account the attitude and preparedness of the contractor to both prevent spillages occurring and to apply effective controls.

To ensure that all sites are suitably prepared to prevent and control any unforeseen spillages this procedure sets out what each site must set-up and maintain during all stages of construction.

DEFINITIONS

Emergency

An incident where the effects of the event cannot be controlled (e.g. spillages of pollutant substances)

Line Managers

A Line Manager is the most senior member of staff present at the location of the incident. The Line Manager may be the: Contracts Manager, Site Manager or assistant.

SPILLAGE KIT PROVISIONS

The site will maintain a suitable spillage kit at the following locations across the site:

- With each refueling bowser;
- Near to surface waters, drains
- Where works have a high risk of pollution.

Equipment will include some or all listed below:

- oil booms when working close to water (4 no. minimum)
- oil absorbent rolls/pads when there is potential for large spillages or across the surface of watercourses (2 no. rolls minimum)

Development at: Herbert Road
Job No: sw49

- oil absorbent granules
- chemical absorbent pads/rolls
- supply of sand

ROLES AND RESPONSIBILITIES

All site personnel

All site operatives are responsible for identifying and reporting any spillages and where appropriate implementing controls.

Line Managers

Line Managers are responsible for ensuring that appropriate controls and remedial procedures are implemented when a spillage is identified.

INCIDENT CONTROLS

For spillages to land and water see Tables 1 and 2.

For any abnormal emissions to the air which are likely to have an effect on the local community:

- Stop the relevant activity
- Follow reporting processes as defined by Line Manager.
- Ensure that any verbal reports to the Enforcing Authority are confirmed in writing within 48 hours.

INCIDENT REPORTING

Where the incident is controllable and no intervention is required from any third party/statutory Environmental authority, then controls should be implemented, the incident cleaned up/resolved and a note made in the site diary.

Where the incident cannot be managed using on-site resources or is considered difficult to control (e.g. cannot be cleaned up within one hour of occurring), the relevant Environmental authority must be informed and an Environmental Incident report should be completed stating the following data:

- Date of incident
- Time of incident
- Exact Location of incident
- Incident details (including type)
- Who incident was first reported to
- Notified relevant Environmental authority details
- Remediation measures
- Measures to prevent a recurrence
- Details of any machinery involved
- Details of any witnesses
- Details of person completing the report
- Witness statements

A copy is to be forwarded to the Green Hill Construction's Health, Safety and Environmental Manager at the earliest opportunity.

Corrective and preventive action will be communicated as a follow up to the Incident Report.

Development at: Herbert Road
Job No: sw49

TRAINING

All site operatives and line managers should be trained with respect to the environmental emergency control procedure. This will include the location and use of the spill kits.

STORAGE OF HAZARDOUS MATERIALS

Storage will be as follows:

- **Diesel/Oil**

This will be stored in a locked double skinned tank at a safe location within the site compound, in a position that is not in a direct path of vehicular movements or other similar dangers.

Tanks will be stored on a mass concrete hard standing to a minimum 150mm and enclosed with a blockwork bund upstand of 225mm.

An appropriately sized sand pit will be located adjacent to the bund to deal with any spillages that may occur. The contaminated sand will be dealt with and removed promptly and stored in adequately sized sealed waste containers until collected by licensed waste controllers.

Refuelling

Fuel tanks must not be refuelled when engines are running (allow to cool when refuelling with petrol) and only refuel in appropriate designated areas.

Development at: Herbert Road
Job No: sw49

TABLE 1. CONTROLS TO CONTAIN AND TREAT SPILLAGES TO LAND

Steps	Controls	Absorbent Materials
1.	Health and Safety Controls - Identify the type of substance spilled onto the ground and apply appropriate COSHH controls - Wear appropriate Personal Protection Equipment; and - Extinguish all items with potential to cause ignition of the spillage.	
2.	Identify Sensitive Areas and Protect Place a barrier of sand around sensitive areas (surface waters and site drains) to protect from spillage	Sand or inert material
3.	Contain Spillage by Bunds - If spillage is onto sloping land contain through developing a bund across its path. The bund should be of a sufficient size and length to contain the whole flow. - Small spillages may be contained on gentle slopes by barriers made of: absorbent material, located at the stores. - On moderate slopes an earth bund should be developed by excavator, dozer or manual tools. If time permits a plastic lining should be established across the containment area to stop ground penetration.	Booms or sand Available material and plastic sheeting Available material and plastic sheeting
4.	Treat Source of Pollution Identify source of pollution and apply controls i.e. turn of leaking valves, sealing holes containers etc.	
5.	Demarcate Affected Area and Apply Absorbent - Once the spillage has been contained the area should be demarcated. - Absorbent material (see below for type) available from the stores should be placed over the surface of the affected area. - Once the surface oils have been 'mopped up' the absorbent material should be removed in bags or by a sealed device to the contaminated skip.	Oil Based - Treated Granules - Oil absorbent rolls - Sand Chemicals - Chemical Pads - Sand
6.	Review Substrate for Contamination The soil below the affected area should be thoroughly inspected for signs of any contamination. Signs of contamination include changes in appearance, odour and consistency. If the controller is unsure whether any residual contaminants remain then soil testing should be undertaken. If contaminated then the substrate material should be removed to an appropriate waste disposal area.	

Development at: Herbert Road
 Job No: sw49

TABLE 2. STEPS TO CONTAIN AND TREAT SPILLAGES TO WATER RESOURCES

Spillages to water resources must be controlled immediately to limit the spread and their effects upon water resources. Any spillage to surface water resources, or to areas which may potentially lead to contamination of the water resources, should be immediately reported to the Line Manager.

Steps	Controls	Absorbent Materials
1.	Health & Safety Controls - Identify the type of substance spilled onto the ground and apply appropriate COSHH controls - Don appropriate Personal Protection Equipment; and Extinguish all items with potential to cause ignition of the spillage.	
2.	Protect the Water Source Develop bunds on the banks or place absorbent material along ditch banks to prevent or restrict the flow of pollutants to the water resource.	Bunds Oil Absorbent Booms Sand Soil
3.	Spillage to Ditch If the spillage occurs to a ditch dam the affected stretch using sand bags or local material. If unavailable use local material covered by a plastic sheet to create an impermeable dam. Note: if the pollutant floats and time permits, then a drainage pipe should be installed at the base of the dam to allow unaffected water to continue to flow.	Sand Bags or local inert material.
4.	Controlling Floating Chemicals Establish booms surrounding the affected area to restrict the affected area. Apply pads or rolls and sweep the booms over the surface of the affected area to remove any chemicals. Continue until the chemical is completely removed.	Booms Oils – white absorbent pads or rolls Chemical – black pads
5.	Sinking Chemicals Apply steps 1 to 3 and immediately contact the Environment Agency. Ensure all possible controls limiting the volume of chemical entering the water resource have been implemented.	
6.	Remove any barriers or booms Once all the contaminants have been removed from the surface of the water resource the booms and dams should be removed and the bed and banks reinstated to the former quality.	

Development at: Herbert Road
Job No: sw49

Management Control

Prepared by : Darran Watts
(Director)

Dated : 29th March 2015