

CONSTRUCTION AND ENVIRONMENTAL MANAGEMENT PLAN

FOR

MR AND MRS S PLANT

**MEADOW VIEW CLEWLOWS BANK BAGNALL
ST99LP**

APPLICATION NO: SMD/2021/0462

DETERMINED ON:11/10/2021

IN ACCORDANCE WITH APPROVED PLANS:4777 01 03b

This document defines how specific environmental and construction management elements of the contract will be delivered.

1.00 INTRODUCTION

1.01 Construction and environmental plan

This EMP describes how environmental and construction aspects of the contract are to be managed. It is a live document that is to be reviewed at regular intervals to reflect progress of the works and changes in environmental requirements.

It identifies those aspects of site activities with potentially significant effects on the environment and the controls in place to mitigate those effects. Subcontract works are also subject to this CEMP.

- **Project Details**

The works consist of the construction of a new build Residential Bungalow

Proposed Programme

Commencement	:	Between May and June 2022
Duration:	:	6 months

2.00 OPERATION AND PROJECT SPECIFIC CONTROLS

2.01 Safe places of construction work

There will be suitable and sufficient safe access and egress from the construction site to every other place provided for the use of any person whilst at work and every place construction work is being carried out to every other place to which workers have access within a construction site.

The construction site will be kept safe for, and without risks to, the health of any person at work there.

Action will be taken to ensure that no person uses access to or egress from or gains unauthorised access to the site .

The construction site will have sufficient working space and be arranged so that it is suitable for any person who is working or who is likely to work there, taking account of any necessary work equipment likely to be used there.

2.02 Site set up

Selection and establishment of site compounds shall be undertaken mindful of site sensitivity, security, neighbours, storage and handling of chemicals (spill prevention), materials storage needs, drainage, and vehicle access .

Site compounds, storage and construction areas will be fenced or have barriers to delimit areas of operation and separate them from other occupied work sites. Where appropriate, sub-project site plans will show site establishment and the locations of environmental facilities such as fuel tanks, spill kits and waste bins

2.03 Site Welfare

Welfare will be provided in accordance with Schedule 2 of CDM 2015 but it should be noted that as this is a small project, no more than two people will be on site at any one time.

2.04 Site Security

The construction site will have its perimeter identified by suitable signs and be arranged so that its extent is readily identifiable and fenced off.

2.05 Site Working Hours

The site working hours will generally be 08:00 to 18:00 on weekdays and 08:00 to 13:00 on Saturdays with no working on Sundays or Bank holidays.

2.06 Housekeeping - litter

Each part of the construction site will be kept in good order and those parts in which construction work is being carried out will be kept in a reasonable state of cleanliness.

Adequate waste bins will be placed in work areas, storage areas and temporary site compounds for the depositing of work-related waste and mixed welfare wastes.

Regular inspections will be carried out to monitor housekeeping and initiate action to clear litter and debris.

Personnel are encouraged to avoid littering and to clear litter where it occurs within site boundaries.

2.07 Traffic management

A traffic management plan shall be developed for the project detailing deliveries, including abnormal loads, regular commuting, public transport options, parking, restrictions detailed in any local planning agreement or Section 61 consent, out of hours working and with view to minimising local congestion and impact on local roads

The traffic management plan will include as a minimum

- protection of the general public
- access points and other requirements for traffic entering and leaving the sites
- any temporary traffic control measures proposed to the surrounding highway network likely peak traffic movements to ensure that no contractors' vehicles are queuing along the adjacent highway network waiting to access the site.
- any restrictions on site access/delivery times
- any restrictions/disruption to vehicle access to adjacent properties
- any restrictions to adjacent highway or pedestrian footpath widths due to the proposed position of site fencing / hoarding
- Pedestrian / Vehicle segregation
- Safe driver practices
- Provision of signage
- Adequate vision / site lines

2.08 Mud and dust control

The need to control mud and dust will be covered in site inductions and in relevant task risk assessments, method statements and briefings.

Wind-blown dust, generated from dry, exposed ground or soil and wastes stockpiles, will be prevented by implementing the following measures

- The site perimeter will be fenced with either timber hoarding or heras fence installed (sheeted where necessary) to prevent the spread of dust and debris onto adjacent properties and roads.
- Lockable skips are to be used where necessary.
- Water suppression will be used to damp down the existing Annex building which is to be demolished or construction areas where dust is deemed to become excessive.
- If dust becomes excessive a lorry/vehicle wash will be installed and all vehicles egressing the site will be cleaned of site debris.

- hoses will be used to clean wheels and underside of vehicles leaving the site.
- No water/slurry will be allowed to leave the confines of the site.
- the public highway will be monitored for any build-up of mud. .
- A road sweeper will be called upon if necessary
- Work will be locally enclosed, where necessary, to stop dust escaping using sheeting or temporary screens.
- the number of people (unlikely to be more than 2) is to be limited near the work creating dust, those doing the task will also be rotated as necessary.
- general mechanical ventilation to remove dusty air from the work area (eg in enclosed spaces such as indoors) is to be adopted where appropriate
- work clothes are to be selected that do not keep hold of dust.
- Silica may be present both during the demolition and during construction (Cutting of kerbs, concrete blocks etc). HSE Construction Sheet No 36 is to be followed to minimise dust.
- Where possible the right size of building materials will be used so that less cutting or preparation is needed
- Drop heights of debris is to be reduced to avoid dust spillage.
- Stockpiles are to be segregated to prevent vehicles tracking over.

Stockpiles are to be of suitable height and size to limit spread of dust and debris

Site management procedures are to be put in place to ensure that work is done in the right way including :-

- check controls are effective. Does the work still seem dusty? carry out dust exposure monitoring?
- involve workers. They can help identify problems and find solutions

- maintaining equipment: follow instructions in maintenance manuals
- regularly look for signs of damage. Make repairs;
- replacement of disposable masks in line with manufacturer's recommendations;
- properly clean, store, and maintain non-disposable RPE. Change RPE filters as recommended by the supplier;
- carry out a thorough examination and test of any on-tool extraction system .
- supervise workers. Make sure they: use the controls provided;
- follow the correct work method;
- attend any health surveillance where it is needed.

2.09 Excavations

All practicable steps will be taken to prevent danger to any person, including, where necessary, the provision of supports or battering, to ensure

- no excavation or part of an excavation collapses
- no material forming the walls or roof of, or adjacent to, any excavation is dislodged or falls;
- no person is buried or trapped in an excavation by material which is
- dislodged or falls.

Suitable and sufficient steps will be taken to prevent any person, work equipment, or any accumulation of material from falling into any excavation.

Suitable and sufficient steps will be taken to prevent any part of an excavation or ground adjacent to it from being overloaded by work equipment or material.

2.10 Noise Control

Site works located in residential and other locations can create noise nuisance to neighbours and the general public, as well as posing an occupational risk.

The presence of sensitive receptors will be identified and recorded on the register of environmental effects and the necessary control measures implemented.

If increases in noise are considered excessive, control measures will be adopted. Where possible noisy operations must be programmed for times when the least perceived nuisance will occur.

Contact will be made with neighbours likely to be affected by construction works informing them about the works and what mitigation measures have been implemented to reduce nuisance and disruption as much as practically feasible. Negotiation with local authorities may be required to establish and manage Control of Pollution Act Notices

- **Plant emission control**

Where feasible, electric plant will be used in preference to diesel or petrol powered units.

No plant will be allowed to idle for long periods when not in use. Plant operators are encouraged to switch off as soon as practically sensible.

Evidence of poor plant maintenance, such as black exhaust fumes, will be monitored on a continuing basis. Plant with unacceptable performance is prohibited from work until rectified or replaced. Plant will be routinely inspected in line with prescribed requirements including emissions as well as leaks and drops.

2.12 Water management plan

Where there is risk of impact on controlled waters, a water management plan shall be developed setting out project specific controls for the management of any controlled or other waters during construction phase.

2.13 Waste management

Waste services may be provided by a number of licensed carriers or brokers, transferring wastes to a variety of receiving sites. The selection of services will depend on location, nature of the wastes and the availability of receiving sites. In all cases, the priority is to avoid disposal to landfill wherever possible. The waste hierarchy 'Prevention – reduce – reuse – recover – dispose' will always be implemented (legal requirement).

Hazardous wastes will be either transported by road to the waste hub or disposed of in accordance with waste regulations and approved contractors.

Where sites produce hazardous waste, they will be registered with the Environment Agency.

All skips and bins will be closed or sheeted where required to prevent the escape of wind-blown debris.

Duty of care records will be maintained and filed in archives on completion

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Details of waste, carriers and disposal sites will be recorded, including evidence of checks made on licences, permits and inspections.

2.14 Site drainage

Drainage systems can act as rapid pathways for the spread of pollutants. Small quantities of pollutants such as oil can spread over large areas and cause significant harm.

Both storm and foul drainage systems will be identified and shown on plans.

Interceptors and cut-off valves, and other pollution control equipment will be maintained, inspected and clearly identified.

2.15 Fire Procedures

Suitable and sufficient fire-fighting equipment and fire detection and alarm systems will be provided and located in suitable places.

Fire-fighting equipment or fire detection and alarm systems will be examined and tested at suitable intervals and properly maintained.

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Each person at work on a construction site will be instructed in the correct use of fire-fighting equipment which it may be necessary for the person to use.

Where a work activity may give rise to a particular risk of fire, a person must not carry out work unless suitably instructed.

Fire-fighting equipment must be indicated by suitable signs.

A sufficient number of suitable emergency routes and exits will be provided to enable any person to reach a place of safety quickly in the event of danger.

All emergency routes or exits and any traffic route giving access to it will be kept clear and free from obstruction and, where necessary, provided with emergency lighting so that it may be used at any time.

Each emergency route or exit will be indicated by suitable signs.

Burning of materials on site will not be permitted on site

2.16 Storage of fuels, oils and COSHH materials

Fuels, oils, paints, solvents and other Control of Substances Hazardous to Health (COSHH) materials will be kept in lockable containers, with controlled access to keys, and in line with legal requirements e.g. oil storage regulations, 110% bunding, use of drip trays, etc.

Fuelling operations will be planned to minimise the risk of spillage and environmental risk. This may be the subject of a specific plan for high-risk operations and sensitive areas.

2.17 Subcontractors

Subcontractors and suppliers are required to comply with the CEMP in its entirety. Site inductions, toolbox talks, training and task briefings will be given to all site personnel with relevant information from the CEMP.

This CEMP will be provided to subcontractors, along with the contract specific environmental details, where their works package can have a potential detrimental impact on the environment. Subcontractors will be required to develop their own environmental plans specific to work packages where appropriate and to comply with the content and direction of this and other applicable supporting documentation.

2.18 Incidents and emergencies

Actions in response to environmental incidents and emergencies will be communicated at inductions and task briefings. Spill response posters will be displayed on office and welfare facility notice boards.

Site plans showing the locations of spill kits and waste facilities, in addition to the locations of health and safety facilities will be available within the site office and welfare cabin notice boards. Plans will include the names of personnel with specific environmental responsibilities, and actions to be taken. Cross reference will be made to contingency planning requirements.

2.19 Incident reporting and investigation

Incidents are to be reported as soon as practically possible after they have been identified. Site management will assess the significance of the incident and determine the level of investigation.

All accidents, incidents etc will be reported as required under RIDDOR

All investigations will be reported in accordance with Regulation 24 of CDM 2015

3.00 ENVIRONMENTAL MANAGEMENT

3.01 Environmental incident and emergency controls

Generally, pollution prevention will be achieved by the provision of containment measures such as drip trays, absorbent mats or materials, drain covers for preventing impact on sewers or watercourses and by complying with safe working methods.

Adequate and appropriately placed spill kits will be provided for rapid incident response when and where prevention fails. Incidents and emergencies will be reported in accordance with the client's procedures

3.02 Communication

Environmental information will be delivered to contract personnel in the following way: meetings on site.

Complaints and compliments will also be recorded on and resolved particularly where from the client, adjacent properties, regulators, and the public.

3.03 Training

Not Applicable

- **Environmental incident and emergency controls**

Control measures to prevent and control environmental incidents and emergencies on sites will be delivered on site by weekly meetings.

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Adequate and appropriately placed spill kits will be provided for rapid incident response when and where prevention fails. Incidents and emergencies will be reported to the relevant authority.

3.05 Monitoring

The owners of the site will be responsible for environmental inspections at site level.

Environmental performance at site level will be regularly monitored during weekly inspections.

3.06 Records

Environmental records will include

- Inspections
- Site visit records (by others)
- Waste management records and plans
- Correspondence including complaints and regulatory units
- Incident and investigation reports
- Permits, licences and consents
- Environmental data e.g. recycled aggregates, sustainable timber, etc.

4.00 SITE RULES

The following site rules will be adopted on site. .

- All contractors will be expected to behave in a civilised and courteous manner.
- Any contractor or contractors' personnel behaving in an unsatisfactory way may be removed from site.
- There is to be no smoking in the works area.
- No materials or debris are to be burnt on or adjacent to the site.
- No alcohol or Drugs are to be consumed on site. No one under the influence of drugs or alcohol are to be allowed on the site.
- All works areas are to be cleaned daily of site debris to avoid fire risks.
- All adjacent roadways and access roads kept clean of mud, dust and site debris. .
- Radios are not to be used.
- No mobile phones are to be used in the construction and trafficked areas.
- No food or drink is to be consumed in the works area.

- No headphones are to be worn at any time.
- Only cordless equipment or 110volt equipment is to be used on site.
- All contractors to wear appropriate PPE.