Construction & Environmental Management Plan

Our Lady`s RC Primary School

Alworth Road

Blackley

Manchester

M9 ORP

Planning Ref: 129587/FO/2021

Contents

1. Introduction.
2. Site and the surrounding area.
3. Roles and Responsibilities.
4. Site Communication.
5. Environmental Constraints and Receptors.
6. Key Environmental Impacts.
7. Emergency Response Plan.
8. Management of Contractors.
9. Training and Competence.
10. Traffic Management Plan.
11. Contractor Parking.
12. Construction Traffic Rules.
13. Details of Site Access/Egress.
14. Emergency Contact Details.

Attached to this document, and read in conjunction with:

- **Appendix A – Swept Path Analysis of a 16.5m Articulated Vehicle on Potential Haulage Road – DWG – 300309 – 001 – REV A.**
- **Appendix B – Swept Path Analysis pf a 12m Rigid Vehicle on Potential Haulage Road – DWG – 300309 – 002 – REV A.**

Introduction

This Construction Environmental Management Plan (CEMP) is intended to form the basis for the management of the main environmental aspects associated with the construction of a new educational development which will be providing additional general teaching classrooms including toilets and changing areas. A new dining hall and small kitchen is also to be provided alongside a learning resource centre and staff and admin areas.

The CEMP sets out how the commitments will be translated into actions in the field and the means by which they will be monitored and verified. It outlines the environmental commitments that are to be delivered by Rosslee Construction.

The Site and surrounding area

The site is located on Alworth Road, Higher Blackley in Manchester. It currently operates as a high school, is surrounded by residential homes. The proposed build is to be located on the grass field and site access is to be via Boothroyden Road, via a temporary "Haul" road, in which will be reinstated upon completion.

Roles and Responsibilities

Employer/Client – Our Lady`s RC High School

Site Management/Principal Contractor – Rosslee Construction

Architect – Pozzoni

Structural Engineer – WML Consulting

Principal Designer – Collab design and safety

Mechanical and Electrical Engineer – Waterman Building Services

Building Control – Ball and Berry

Site Communication

Communication Method	Frequency	Attendees	Environmental Points for Discussion	How its recorded
Contracts Managers meetings	Monthly	Contract Managers/Site Managers	Waste Management, Nuisance, Environmental Incidents etc	Action Log
Contractor, Sub contractor Meetings	Monthly	Directors, Contract Manager, site Manager, Quantity Surveyor	Waste Management, Nuisance, Environmental Incidents etc	Action Log
Toolbox Talks	As Required	All site Personnel, including sub-contractors	Toolbox talks will be used to inform all site personnel of key information concerning the management of the site, procedures to be followed and expected conduct when working on the project.	Action Log
Site Induction	As Required	Site Manager	Health and Safety procedures and specific site rules.	Action Log

Environmental Constraints and Receptors

Working Hours

The Site "Core Hours" will be Monday – Friday 07:30 – 18:00hrs and Saturday 08:00 – 13:00hrs. There will be no works programmed for Sundays or Bank Holidays unless otherwise agreed.

Noise Limits

In accordance with good practice, construction activites that elevate noise levels, measured as LAeq (1hr) by more than 1dB above ambient level at the front of any noise sensitive premises may not take place outside normal hours of work.

Construction Site Layout and Good Housekeeping

Rosslee will ensure that a good housekeeping policy will be always applied, and as far as reasonably practicable, and the following will be taken into consideration.

- All site hoardings will be regular inspected and repaired as necessary.
- All working areas will be kept in a clean and tidy condition.
- Wheel washing facilities will be brushed and cleaned regularly.
- Adequate toilet facilities will be provided for all site staff.
- Rubbish will be removed at frequent intervals and the site kept clean and tidy.
- Food waste will be removed at frequent intervals.
- Any waste susceptible to spreading by wind or liable to cause litter will be stored in closed containers.
- Open Fires will be prohibited at all times.

  All necessary measures will be taken to minimise the risk of fire, and Rosslee will comply with the requirements of the local fire authority.

Storage sites, fixed plant and machinery, equipment and temporary buildings will be located to limit adverse environmental effects.

All external lighting and illumination associated with the construction process will be in accordance with the guidance issued by the institution of lighting engineers. To ensure construction lighting does not affect the amenity of residents or create a statutory nuisance under the Environmental Protection Act 1990 as amended, external lighting will be designed and positioned to:

- Avoid disturbance to adjoining residents and occupiers.
- Avoid creating dazzle or distraction for drivers using adjacent highways.
- Seek to minimise light spillage or pollution.
- Ensure that excess light does not fall on sensitive ecological habitats.
- Energy efficient options for site facilities will be incorporated wherever possible. This will include energy sufficient light bulbs and automatic controls, which will supplement good housekeeping such as switching off equipment when not in use.

Rosslee will also ensure adequate security will be exercised, to protect the public and prevent unauthorised entry to or exit from site. Site gates will be closed and locked when there is no site activity, and if the need arises, then site security measures will be implemented.

Any site cameras that may be erected for the works, will be located and directed so they don't not intrude into the occupied school or the surrounding neighbouring properties.

Environmental Receptors

These are the environmental receptors that will be impacted by the following environmental aspects from this project:

- Air quality will be impacted by:
    1. Dust
    2. Fumes
- Neighbours:
    1. Noise,
    2. Dust
    3. Fumes
    4. Litter
    5. Vibration

- Ground and groundwater:
    1. Pollution spills
    2. Vibration
    3. Dust
    4. Litter
- Water Bodies, Streams, reservoirs, rivers, and lakes:
    1. Pollution spills
    2. Litter
    3. Dust/Silt
- Ecology, animals, birds, aquatic life, trees, and plants.

Key Environmental Impacts

Ecological

Rosslee will ensure that measures are in place to preserve the natural surroundings and nature as far as reasonably practicable. Regular toolbox talks will be carried out to ensure site compliance.

Transport

Impact

The impact of construction traffic has been assessed during the construction period. Traffic may cause the following impacts:

- Noise,
- Dust,
- Traffic Congestion resulting in extra travel time for residents,
- Vibration
- Nuisance
- Additional hazards to residents of moving vehicles.

Mitigation

- Measures to prevent off site parking of HGVs and employees' cars and to ensure vehicles used designated routes.
- Maintenance of traffic and pedestrian safety at all times (including necessary measures such as provision of ramps, barriers, uniform surfaces, signage etc)

- Measures to avoid mud/spoil being deposited on roads.
- Drop off points for deliveries
- Predefined lorry routes to the development
- Route of build
- Storage areas

Noise and Vibration

Impact

Noise and vibration will be cased during construction activities by:

- Traffic movements
- Plant movements
- Drilling and piling operations
- Excavating operations
- General construction activities
- Emergency sirens

Mitigation

- Noise and vibration will be limited to the core working hours as previously defined.
- Contractors must adopt “best practicable means” (BPM) to minimise the nuisance from noise and vibration.
- The maintenance and location of plant will be planned to minimise noise levels and screening will be used where necessary.
- Adherence to noise limits will be maintained throughout. General induction training for site operatives will be carried out, and noise assessed throughout the construction works.
- Use of the most environmentally acceptable and quietly operating plant and equipment appropriate to the works with emission levels limited to relevant EC Directive/UK Statutory instrument levels and levels quoted in BS5228.
- The excavation wherever possible will be carried out with the use of pneumatic breakers.
- Care will be taken when erecting and striking scaffolds to avoid impact noise of banging steels. All operatives undertaking these tasks will be instructed of the importance of handling scaffolds to reduce noise to a minimum.
- Deliveries will be programmed to arrive during daytime hours only, and specific as to not impact on the schools’ peak times, such as drop of and pick up times.

- Delivery vehicles will be routed to minimise disturbance to local residents. Delivery vehicles will be prohibited from waiting or parking on the highway or within the site with their engines running.

Air Quality

Impact

Air quality will be impacted by fumes from vehicles and plant and the potential for dust created during periods of dry weather from the earthworks.

Mitigation

- Engines and plant will not be left running unnecessarily.
- Low carbon vehicles and plant fitted with catalysts will be used where possible
- Ultra-low sulphur diesel fuel will be used in plant and vehicles.
- Ensuring plant and vehicles will be well maintained and hold a valid MOT.

The potential to produce dust will be minimised by implementing BPM measures, these will include:

Site Planning

- Dampening of exposed soil and material stockpiles using sprinklers and hoses when necessary to prevent dust and particulate matter becoming mobile.
- Stockpiles of soils and materials should be located as far as possible from sensitive properties, considering prevailing wind directions and seasonal variations.
- Surface areas of stockpiles would be minimised (subject to Health and Safety and visual constraints regarding slope gradients and visual intrusion) to reduce surface areas exposed to wind pick up.

Construction Activities

- Construction operatives will use appropriately designed vehicles when handling material and design controls for the use of construction equipment and vehicles.

- Additionally, it will be ensured that all construction plant and equipment is maintained and in good working order.
- Short term releases may also occur during start-up of diesel engines etc.
- Regular visual checks and routine maintenance would be applied in accordance with the plant specification, to minimise releases. Faulty site plant will be decommissioned until repairs are carried out and it has found to be operating satisfactorily.
- Dust supressed tools will be used for all operations.
- No unauthorised burning of any material will be carried out.

Construction Traffic

- Surfaced and un-surfaced site roads/parking will be watered as necessary using a water bowser and surfaces kept in good order.
- Regular inspection of local highways and site boundaries to check for dust deposits (road sweeping will be conducted when required). The road sweeper collections will be disposed of in accordance with the waste management legislation.
- Visual inspection of the site perimeter to check for dust deposition (evident as soiling and marking) on vegetation, cars and other objects, and the implementation of remedial measures if required, will be carried out.

Ground conditions

Impacts

Ground conditions can be impacted by:

- Fuel and liquid spillages,
- Dust,
- Vibration, Windblown waste/Litter
- Contaminated land.

Mitigation

All fuel will be stored in double skinned tank, or a tank in a suitable bunded area in compliance with the control of pollution (oil storage) (England) Regulations 2001.

Re-fuelling activities will only be undertaken by suitably qualified persons and spill kits will be available in the site compound.

All hazardous liquids, e.g., oils, lubricants, chemicals and tins of paint to be stored in a segregated area in a suitable locked COSHH container. COSHH assessments will be readily available nearby for information in the event of a spillage.

Dust and vibration will be controlled as previously detailed.

If areas of unidentified contamination are discovered during construction, expert advice will be sought from the appropriately qualified engineers on the actions that should be taken.

In order to protect site workers, members of the public and the environment where movements of contaminated material off site are required, this will be carried out under the relevant waste management legislation and in consultation with the Environment Agency where required.

The Environment Agency will also be consulted where piling and ground improvement activities have the potential to cause risk to the underlying groundwater sources to ensure risk is minimised.

Water Resources and Flood Risk

Impacts

Surface water and ground water resources could be impacted from pollution, for example fuel spillages, dust and waste.

There is potential for the creation of silt during periods of heavy rainfall which if not managed, could cause silt pollution which could lead to:

- Pollution to watercourse and harm to watercourse fauna,
- Flooding
- Blocking drains, causing nuisance issues.

Mitigation

Measure to manage spillages, dust and waste are detailed in other sections of this document. All the diesel tanks will be bunded and diesel spill kits will be in high-risk areas suspectable to spills. Fuel spill kits are to be stored in the site compound and at appropriate locations across the development site.

All options are to be considered for occurrence of silt run off, these include:

- Leaving grassy areas as catchment or settlement areas
- Battering or sheeting oil stockpiles and locating them away from the watercourses or drains where possible.

- Protection of drains
- Use of grips and straw bales
- Silt fencing
- Dewatering

Waste

Impacts

The construction works are likely to produce the following wastes:

- Inert Waste
- Non-hazardous mixed waste
- Plasterboard
- Wood
- Paper, cardboard, and plastics.
- Hazardous Waste – small quantities of part full paint tins, mastic tubes and aerosols

Mitigation

A Site Waste Management Plan (SWMP) will be developed for the project.

The SWMP details how each waste stream will be managed, the projected waste volumes and the duty of care checks on all waste carriers and permitted disposal/treatment sites.

Waste will be segregated into individual skips (metal, hard-core, inert etc and monitored in relation to type and weight, enabling the recycling of onsite materials to be maximised. Canteen waste will also be bagged and recycled where appropriate.

All timber waste will be returned to our Head Quarters, where it's recycled as fuel to heat the offices at Rosslee Construction.

Emergency Response Plan

Nearest Hospital to the development site is:

Fairfield General Hospital

Rochdale Old Road

Bury

Lancashire

BL9 7TD

TEL: 0161 624 0420

Hospital directions will be available as a hard copy on the notice board in the canteen.

All operatives will be informed in the site induction of who the First Aiders are onsite, the First Aid procedures and fire protocols. Details of the appointed First Aider will also be displayed in the site office.

The First Aid point(s) fire assembly point and fire equipment position will be briefed in the site induction and identified on a “Site Plan” located within the welfare areas.

Management of Contractors

All Sub – Contractors are required to provide Rosslee Construction as Main Contractor with a copy of their latest Health & Safety policy, Method Statements, Risk Assessments for all their proposed working methods as per the Health & Safety Policy and Procedures manual.

These will contain methods of activities, potential environmental receptors and are required prior to commencement onsite.

A copy of this information is to be held withing the site office.

All Rosslee Construction Employees/Sub Contractors to also ensure that all employees hold a current CSCS Card (relevant to the work they undertake onsite) and a copy of their card numbers retained onsite.

Training and Competence

Procedures for ensuring the correct levels of training and competence include:

- All operatives are informed at the induction stage of all sensitive ecological document stating the reasons and locations of all the relevant areas (if any)
- All operatives are inducted by Rosslee Construction before work commences and informed that they are required to "Sign in" everyday before they commence work.
- The site will have a strict Health and Safety approach, where individual operatives have specific induction sheets. These documents are to be read to the relevant operatives, where a signature is required on completion, and a record kept within the site file.
- A record of Toolbox talks will be kept onsite stating date, description of non-conformance, potential implications, proposed corrective actions, individual responsible and target date.

Traffic Management Plan

This traffic management plan is set out the intended routes of vehicles into site that are likely to include 16.5m articulated vehicles, 12m rigid wagons and 3.5t panel vans.

All vehicles would turn off A6104 Victoria Avenue into Boothroyden Road and across the junction with Howden Road to approach the boundary of the school playing field. A "Swept Path Analysis" has been carried out on the Site Entrance to show vehicle movements onto site for both Rigid and Articulated Vehicles. Please refer to Appendix A and Appendix B attached to this report.

A section of the boundary fencing will be removed and made into a temporary secure access and an access ramp excavated and stoned up to form a ramp onto the school playing field.

Large vehicles would then drive forwards up the ramp onto the playing field and then reverse into the site for offloading. A turning circle would be created to allow sufficient room for vehicles to exit the site forwards.

All areas would be excavated, a ground stabilization membrane laid and hardcore, consolidated in layers will be laid down to create a good surface and then reinstated afterwards.

A wheel wash facility would be provided using a power washer.

A banksman would be on site to guide drivers into the site and assist in reversing and to secure the boundary fencing and gates.

Contractor Parking

Parking for contractors will be made available onsite. There will be no permitted parking within the surrounding residential area.

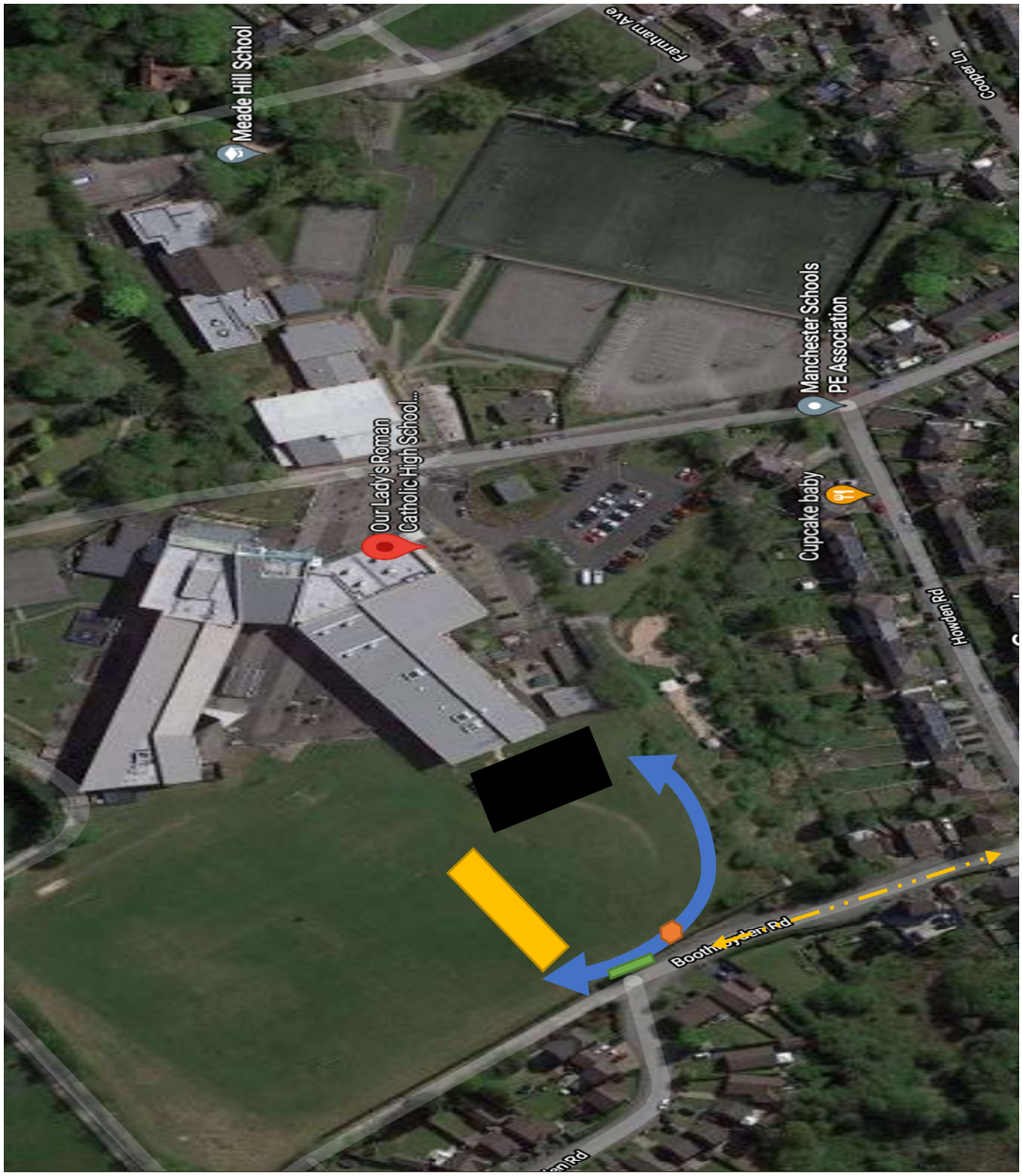
Construction Traffic Rules

To ensure correct procedures are followed, Site Traffic Rules will be briefed within the site induction, to ensure a clear understanding is obtained, and to enforce the rules:

- Construction traffic will be restricted to 5MPH whilst within the site parameters. Sign boards to be erected for the avoidance of doubt.
- Upon accessing/egressing site, then local highway guidance must strictly be always followed.
- Speed Limits of surrounding areas must be always adhered to.
- All vehicle movements within the site compound must be accompanied by a trained banksman.
- All site deliveries will be scheduled into site with confirmed delivery times, this will be organised by Rosslee` company buyer at the time of order.
- Wheel wash facilities must be used upon exiting site if conditions dictate.
- Any debris, mud or waste deposited from any vehicle must be removed immediately and reported to the site manager.

ROSSLEE CONSTRUCTION

Details of Site Access and Egress



Key

Temporary Haul Road

Contractor Parking

Gated Access

Area of Work

Access/Egress

Wheel Wash

Emergency Contact Details

During the construction phase, a sign boards will be placed on the site entrance. This will display contact details for the Site Manager.

An informative letter drop will be carried out for the immediate residents, and any other party that is deemed suitable to be made aware of the construction works. This will detail the Site Mangers contact details should the need arise for someone to make contact.