

Project No – CE 220015 Jersey st Bridge Demolition

Construction Environmental Management Plan (CEMP) Rev 001

17/3/2023

Planning Condition Requirement

No development shall take place until a Construction Environmental Management Plan (CEMP) has been submitted to and approved in writing by the Local Planning Authority. The CEMP shall include and specify the provision to be made for the following:

- Hours of work for site preparation, delivery of materials and construction
- Arrangement for the parking of vehicles of site operatives and visitors
- Details of areas designated for the loading, unloading and storage of plant and equipment
- Details of the siting, height and maintenance of security hoarding
- Arrangement for the provision of wheel washing facilities for vehicles accessing the site
- Measures to control the emission of dust and dirt during construction
- A scheme for recycling / disposing of waste resulting from construction works
- A strategy to inform neighbouring occupiers of the timing and duration of any piling operations

The construction of the development shall then proceed in accordance with the approved CEMP.

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Introduction

This document specifically targets and mitigates the issues presented from the construction of the development and the associated works. For ease of reference, these are separated into specific elements and covered individually.

Works

Manchester City Council (MCC) have secured funding to begin public realm works across the Poland Street area to continue driving Manchester forwards over the coming decade. The Ancoats Public Realm project is an opportunity for Ancoats to become a Sustainable Urban Neighbourhood. The project aims to deliver public realm infrastructure to support the creation of a sustainable urban neighbourhood of 1,500 homes, which supports life and encourages community. Phase 1 of these works has been identified as the demolition of Jersey St Bridge which crosses an infilled canal arm. The resulting works will deliver a consistent level with adjacent land areas to facilitate development and the future Public Realm strategy. The works will also require utilities diversions within the road.

Location

The project is situated on Jersey street Manchester M46JW

The area surrounding the site comprises of the following;

- **North** – Residential and commercial property
- **East** – Residential property & canal
- **South** – Commercial and residential properties
- **West** – Commercial and residential properties

Site Entrance & Staff / Visitor Parking

Please see agreed logistics plan.

Project Team

Employer

Manchester City Council Town
Hall, Albert Square, Manchester
M60 2LA

Designer

Civic Engineers
Carver's Warehouse 77 Dale
Street Manchester M1 2HG

Architect

Manchester City Council Town
Hall, Albert Square, Manchester
M60 2LA

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Structural Designer

NA

Main Contractor

Eric Wright Civil Engineering Ltd
Sceptre House . Sceptre Way .
Bamber Bridge . Preston . PR5
6AW

Operations Manager

Stewart Lucas 07967597278

Project Manager

Des Donnelly 07971228917

Quantity Surveyor

James Durcan 07483927418

Project Programme

3/4/23 to 13/9/23

Site Working Hours

Monday to Friday (07:30 – 17:00)
Saturday (08:00 – 13:00)
Sunday & Bank Holidays (No work)

If programme dictates, there may be cause to work weekend and bank holidays. Any weekend or bank holiday working must be authorized by the MCC project manager.

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Erection and Maintenance of Security Hoarding

The operatives will utilise a safe system of work to ensure the general public are segregated from the element of works. All boundaries of the project will be closed off by 1.8m Heras Type Fence. Hoarding directly on to highways will be constructed to meet current regulations. All fencing will be visually inspected daily and maintained accordingly.

Site Accommodation, Loading and Unloading vehicles

Delivery vehicles will be controlled to ensure that unloading only takes place within designated times and within the site boundary (unless working on the surrounding infrastructure / highways). Vehicles will enter site immediately and gates will be manned to ensure no deliveries are kept on the highway. All subcontractors will be required to produce a procurement schedule for their materials which will be monitored through weekly / fortnightly meetings. Deliveries must be booked in advance. Efficient and accurate scheduling of deliveries will minimise storage capacity required, double handling and congestion around the site and surrounding roads and highway infrastructure.

Site storage of materials and plant will be very carefully controlled by restricted allocation of zones to particular trades. Detailed plans of the site will be drawn up outlining areas available for moving and storing materials during the various stages of the contract.

Wherever possible, materials will be delivered shrink-wrapped and palletised to be unloaded and distributed safely by a telehandler. Diesel fuel for site plant will be stored in sealed tanks inside bunded walls with a minimum of 110% of the capacity of the tank. The use of diesel driven plant and equipment will be kept to an absolute minimum. Wherever possible, equipment and plant will be electrically powered to reduce noise and prevent emissions.

Visitor and Operative Parking

EWCE shall encourage a Green Travel Plan for site which promotes public transport / car sharing. There will be very limited parking on site. Operatives will be expected to source local car parks where room on site is not available.

Pollution Prevention

A hazard identification & risk assessment will be completed by the prior to any site activities. The document provides a project specific outlook on the potential construction activities and sensitive receptors that could be encountered at site (surface water, groundwater, neighbouring properties, contaminated land, invasive weeds, tree protection orders, etc.). Through risk assessment, we quantify the likelihood and severity of activities against these receptors and provide mitigation / control measures to each. The Hazard Identification & Risk Assessment works in conjunction with the CEMP.

Storage & Handling of Materials

All materials and hazardous substances will be stored according to the manufacturer's literature. Containers will be labelled clearly and only kept on site if there is a use for them. All hazardous substances will be stored away from construction waste. The appropriate staff will be trained on storage and handling of substances. All waste will be removed by one of the EWCE approved waste contractors, ensuring compliance with duty of care legislation.

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Pollution Prevention & Emergency Preparedness

- All fuel sources will be stored in lockable double bunded fuel bowzers on an impermeable surface. The secondary container will be 110% of the primary container. All storage will be padlocked and either CCTV or physical security will be in place during non-working hours.
- All fuel sources will be a minimum of 10m from sensitive receptors.
- A drip tray / interceptor tray and funnel will be available and in use when refueling to reduce the chance of leakage. Drip trays / interceptor trays will be cleaned of contaminants on a regular basis with imbibers beads. These are then removed as hazardous waste.
- Spill kits and booms will be stocked on site in abundance next to fuel bowzers to contain the type of substances on site.
- All drainage systems on site will be protected using hessian, sandbags or other devices. Any drums / containers will also be stored on an impermeable surface to limit the pathway of contaminants into the ground.
- A drainage plan will be in place and displayed.
- Refueling procedures will be included within the Risk Assessment & Method Statements of all subcontractors.
- The emergency response plan will be displayed. Site management is trained on how to implement the plan which is covered during the induction and through regular environmental toolbox talks.
- Pollution Prevention Guidelines will be followed strictly.

Noise Control

In general, the construction phase can be viewed as intense activities of work over a short timescale. These construction processes involve concentrated activities in a localised area. The resultant noise effects are often significant to neighbouring properties. As a minimum, we will produce newsletters informing locals of the timing and duration of noisy activities such as piling operations as well as the **Project/Site Manager's** immediate contact information.

Construction methodologies will be made as efficient as possible to minimise noise impacts to local residential areas and offices. Additionally, every opportunity will be taken to provide 'temporary' screening where likely to provide effective mitigation. Where properties are already subject to significant road traffic noise, the impact from construction noise will be less than those areas which are set further back from existing road transport corridors. All measures to minimise construction noise would be taken according to best practicable means, as described in the mitigation measures section.

A more detailed Noise Assessment will be carried out by the Environmental Manager upon commencement and at regular intervals throughout the construction process.

Mitigation Measures

The noise impact of the construction phase can be minimised by use of the noise control measures, as suggested in Section 8 of BS 5228-1:2009. General principles for the control of noise during the construction works are presented below.

- Appropriate choice of plant and equipment;
- Regular plant maintenance;
- Careful phasing of the proposed operations; and
- Provision of temporary barriers.

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The site staff will utilise methods of mitigation outlined, alongside regular monitoring and feedback from residents. This regular noise monitoring will be carried out by the Environmental Manager. This may be substituted by subcontractor's noise readings as stated in their method of work.

Operating methods of noise reduction

- All staff and operatives will be briefed on the requirement to minimise nuisance from site activities. This included within the site inductions and reinforced through a programme of toolbox talks and all method statements. Any significant changes in numbers of workforce on site will force a review of the monitoring programme.
- No equipment will operate other than at the manufacturers' rated working levels.
- Use of machine based equipment on site will be kept to an absolute minimum and only silenced or sound models will be used.
- No plant and equipment will be left running if not required for immediate use.
- Resilient materials will be used where possible to reduce impact noise where materials are being moved or dropped e.g. lining chutes and dumpers. Materials will be lowered whenever practicable and otherwise drop heights will be kept to a minimum.

Noise Reduction of Mobile Plant

- The movement of plant onto and around the site will have regard to the normal operating hours of the site and the location of any noise sensitive receptors. Audible reversing alarms will be of a type, which whilst ensure that they give proper warning and have a minimum noise impact.
- Internal haul routes will be well maintained and avoid steep gradients.
- Earth moving plant will be fitted with efficient sound reduction equipment and manufacturers' enclosure panels will be kept closed.
- The site compound will be located to minimise the noise impacts of delivery vehicles on unmade ground.

Noise Reduction of Stationary Plant and Tools

- Hydraulic or electric tools will be used where possible.
- Alternative equipment will be specified for concrete breaking/cutting.
- Sound reduction equipment will be fitted.

Further Noise Guidance

- BS 5228 -1:2009 'Code of practice for noise and vibration control on construction and open sites – Part: Noise'
- [EWG-E-MP-02 - Environmental Management Toolkit](#) (saved in the Wrightbox electronic project file).

Dust Control

The control of dust arising from the construction works will be controlled in a number of ways depending on the source and the stage at which the construction works are.

Dust Assessment

Visual dust monitoring will take place daily. If excessive dust levels are reached, works will be temporarily suspended whilst the Environmental Manager is consulted and further appropriate dust measures are implemented to enable works to recommence. This will be recorded.

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Wheel Washing

Eric Wright Group Ltd will ensure that the working machinery, plant & vehicles, which may have the potential to cause an excessive dust or mud problem onto the public highway, will have the facility to wash down. A road sweeper shall be procured as and when required.

Mitigation Measures

Haulage Routes, Vehicles and Construction Plant

Potential dust Source	Control Measure	Responsibility for implementation
Haul roads and traffic routes	Deliveries will be scheduled to avoid standing traffic on routes to site.	Des Donnelly 07971228917
Vehicle waiting areas and hard standing	Vehicles will be directed into site and unloaded. If waiting is required, engines will be switched off.	Des Donnelly 07971228917
Vehicle and wheel washing	Wheel washing facilities will be easily available and sign posted.	NA
Site traffic	Speed restrictions will be in place including signage and managed by site personnel to avoid back up.	Des Donnelly 07971228917
Public roads	Responsible person to be aware of scheduled deliveries and coordinate traffic and operations affecting access.	Des Donnelly 07971228917
Road cleaning	Road sweeper will be procured when required for cleaning access roads to site. These operations will be increased when critical activities occur.	Des Donnelly 07971228917
High level walkways and surfaces (Scaffolding and others)	Operatives will be briefed at induction to the requirements of dust control and suppression.	NA

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Static and Mobile Plant Emissions

Potential dust Source	Control Measure	Responsibility for implementation
Visible exhaust smoke	All standing / waiting traffic will ensure engines are switched off. All plant brought will be appropriately maintained and suppliers advised of this at order stage.	Sub-contractor to be confirmed
Maintenance	All plant and equipment will be maintained off site.	Sub-contractor to be confirmed
Servicing	All plant and equipment will be serviced off site.	Sub-contractor to be confirmed
Operating time	All operations will be conducted in line with the planning conditions and all subcontractors will be made aware during procurement stage.	Sub-contractor to be confirmed
Exhaust time	Operating plant will be monitored to ensure it is not left running unnecessarily.	Sub-contractor to be confirmed
Exhaust direction and heights	Exhausts from plant will be in line with manufacturer's specifications and directed from ground to atmosphere.	Sub-contractor to be confirmed
Location of plant and equipment	Plant and equipment operating close to other businesses and sensitive receptors will be kept to critical activities only.	Sub-contractor to be confirmed

Material Handling

Potential dust Source	Control Measure	Responsibility for implementation
Material Handling operations	Handling and movement of materials will be kept to a minimum through planning.	Sub-contractor to be confirmed
Transport of powdery materials	Loose materials will be moved in containers or remain wrapped until use.	Sub-contractor to be confirmed
Transport of aggregates	Enclosed or sheeted vehicles will be used.	Sub-contractor to be confirmed
Handling areas	Areas will be kept clean and free from dust/	Sub-contractor to be confirmed
Vehicle loading	Construction methods that minimise the creation of dust will be used.	Sub-contractor to be confirmed
Filling Skips	Enclosed skips will be used.	Sub-contractor to be confirmed
Reducing the spread of dust across the site	Damping down methods will be used.	Sub-contractor to be confirmed

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Storage of Powder Materials

Potential dust Source	Control Measure	Responsibility for implementation
Bulk Cement	Will be delivered and stored in tankers / silos.	NA
Silos	Will be kept in good condition and regularly checked for damage.	NA
Accidental spillage when filling or operating silos	Emergency preparedness plan will be in place and displayed.	NA
Dry materials > 3mm	Will be used at point of delivery.	NA
Dry materials < 3mm	Will be used at point of delivery.	NA
Storage	Materials will be stored away from site boundaries and sensitive receptors.	NA

Stockpiles

Potential dust Source	Control Measure	Responsibility for implementation
Stockpiles	Stockpiles will be kept away from sensitive receptors and kept to a minimum.	Sub-contractor to be confirmed
Building stockpiles	Stockpiling will be done so that the angle of repose is not such that slippage will occur.	Sub-contractor to be confirmed
Short term stockpiles	Will be kept to a minimum and avoided by use of material at source.	Sub-contractor to be confirmed
Long term stockpiles	Will be kept to a minimum and avoided by use of material at source.	NA

Site Establishment and Restoration on Completion

Potential dust Source	Control Measure	Responsibility for implementation
Earthworks	Will be completed in sections to minimise over exposure.	Sub-contractor to be confirmed
Completed earthworks	Will be reinstated as soon as possible in line with programme.	Sub-contractor to be confirmed
Storage mounds	Any mounding will be sealed.	Sub-contractor to be confirmed
Landscaping	Will be in line with programme and design.	NA
Crushing and screening	Crushing and screening operations will kept away from sensitive receptors.	NA

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Construction and Fabrication Process

Potential dust Source	Control Measure	Responsibility for implementation
Cutting, grinding, drilling, sawing etc.	Pre-fabrication of materials will be considered to avoid cutting. Suppression methods will be explored.	Sub-contractor to be confirmed
Dust control exhaust ventilation	Diamond cutting blades will be used and water sprays.	Sub-contractor to be confirmed
Cutting roads, pavements, blocks	Diamond cutting blades will be used and water sprays.	Sub-contractor to be confirmed
Angle grinders	Diamond cutting blades will be used and water sprays.	Sub-contractor to be confirmed
Mixing of granular materials	Pre-mixed materials will be used under controlled conditions. Powders will be stored in a safe environment.	Sub-contractor to be confirmed

Internal and External Finishing and Refurbishment

Potential dust Source	Control Measure	Responsibility for implementation
Painting and decorating	Use of suppression or extraction equipment will be used. Vacuum cleaning where possible.	NA
Plastering rendering, finishing and fitting out	Housekeeping will be a focus point across the development to control dust related activities.	NA
Electrical plumbing systems requiring chasing into walls	Use of suppression or extraction equipment will be used. Vacuum cleaning where possible.	NA
Fire proofing and insulation	Use of suppression or extraction equipment will be used. Vacuum cleaning where possible.	NA
Cleaning	Dry sweeping will be avoided.	NA

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Further Dust Guidance

- 'The Control of Dust from Construction and Demolition Activities' document (BRE, 2003).
- [EWG-E-MP-02 - Environmental Management Toolkit](#) (saved on the Wrightbox electronic project file).

Light Control

Lighting will be provided to ensure safe working conditions for staff. The following measures will be put in place:

- All lighting will be situated to provide as much lighting as is necessary for the work and no more, thereby reducing the risk of light pollution and the requirement for multiple generators.
- Lighting will face downwards / sideways so that they do not intrude into any nearby premises.
- Appropriate site lighting will be selected. For example; LED lighting to improve the energy efficiency of the site and minimise the spread of light beyond where is required.

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