CONSTRUCTION ENVIROMENTAL MANAGEMENT PLAN

Site Name	Burn Rd Birchencliffe
Site Address	Burn Rd, Birchencliffe, Huddersfield, HD3 3BT
Developer	Wiggett Homes Ltd

Site Contact	Name:	TBC		
(e.g. site manager)	Email:	TBC		
	Telephone:	TBC		
Construction start date	Feb 2023			
Date of first occupation	Feb 2024			
Construction end date	Dec 2024			
Site Start/finish times	Mon – Fri 9.30am – 17:00 Saturday 9.30am – 14:00 No work to be undertaken during public/bank holidays.			
Will construction be phased?			No	
If so please provide details				
Will there be a vehicular access into the site during construction?			Yes	
Will a loading/unloading area be provided within the site during construction?			Yes	
Will a banksman be provided to assist with loading/unloading and site access?			Yes	
If yes how will the banksman operate?	A Trained banksman will be available if needed.			
How will the site be secured/fenced during construction?	The site will be completely fenced off with Hoarding to immediate frontage and HERAS fencing to the remainder.			
Can all construction work take place within the site or will any of the public highway(including footways) need to be temporarily closed?			Yes	
If yes has a hoarding licence been obtained?				N/a
Will scaffolding need to be placed on the public highway during construction?				No
If yes, has a scaffolding permit been obtained?				N/a
What traffic management signage will be provided? (e.g. warning signs)	Site Construction warning signs will be displayed see traffic management plan.			
Will temporary traffic signals be required?				No
Has the councils traffic services approved the traffic management arrangements?				No
Will skips need to be placed on the public highway?				No
If yes has a skip licence been obtained?				No

How many contractors' cars/vans will be at the site (maximum at any time?)		10	
How many parking spaces will be provided within the site during construction?		10	
Where will contractors park if they cannot park on site?	Staff and Sub contractors will park on site on site whenever possible or safely on Burn Rd.		
What types of vehicles will deliver/collect materials/waste?	Articulated wagons and skip wagons.		
Where will materials be stored?	See traffic management plan.		
How many HGVs will visit the site each day (maximum number)?		10	
Will deliveries be timed to avoid the AM and PM peak periods? Deliveries will be between 8am – 4pm		No	
Will deliveries be timed to avoid school start/ finish times?		No	
Will deliveries be planned to avoid more than one HGV being at the site at any time?		Yes	
What route will HGVs use to travel to/from the site?	HGVs will come down Halifax Road, on to Yew Tre Road and then turn on to Burn Road. Vehicles will access the site in forward gears and turnaround within the site. A trained banksman will martial transport movements.		
Will a wheel wash facility be provided within the site during construction?		Yes	
If so, what type of facility will be provided and where will it be located?	WCL will use Men with brush shovels and jet wash to remove dirt. Road cleaners will be involved in maintaining clean roads in the traffic management plan.		
Will all vehicles exiting the site be checked for mud/debris and washed before leaving the site if mud/debris are found.		Yes	
Will the road/s outside the site be regularly inspected for mud/debris that may have been come from the site?		Yes	
Will the road/s outside the site be swept cleaned as soon as possible in the event that mud debris from the site have been deposited on the roads/s?		Yes	
Will any work be carried out on the public highway (e.g. construction of a new access) or adjacent to it that may affect it e.g. construction of a site boundary)?		Yes	
Has agreement been obtained from as to how this work can be carried out?		TBC	
If so, has the relevant licence/agreement been obtained/signed?			No

ADDITIONAL INFORMATION

HIGHWAYS NOTICES

The access into the site will be formed via S38 technical approval notice. The new access road will be adopted. WCL consulting engineers will be submit drawings to the local authority for approval.

DRAINAGE

WCL and Consulting Engineers will be submitting drainage details to UU, and local authority for approval.

WASTE REMOVAL

Transportation

The correct size of vehicle will be used to ensure the load will fit adequately into the transportation body.

Loading of materials

Careful loading of vehicles will be undertaken to ensure the load is distributed evenly. Vehicles will not be overloaded or loaded unevenly to ensure materials do not fall off the transportation body.

FUGITIVE DUST MITIGATION MEASURES

Communications

Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.

Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary. Display the head or regional office contact information

Develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the LA.

Complaints
Letters will be sent out to nearby residents prior to works commencing.

The contact details of the Site Manager and Contract Manager will be provided, as well as the company address.

Any complaints received due to the work being undertaken will be resolved wherever possible at site level. Complaints will be logged by the Site Manager who will aim to respond to the complaint within 24 hours.

Should the Site Team be unable to resolve the complaint it will be passed on to Wiggett Directors.

Dust Management Plan

WCL recognises the potential for the proposed work to generate dust, nuisance and has expressed a commitment to operating the site in accordance with current best practices outlined in IAQM document “Guidance on the assessment of dust from demolition and construction”.

By implementing best practice measures to control and mitigate the generation and transportation of dust it is considered that dust emissions from the site can be adequately controlled.

The aim of the dust control measures set out by this scheme is that dust emissions should as far as possible be controlled mitigated or removed at source.

Site Management

The Site Manager is the designated individual with the responsibility for ensuring that the Dust Management Plan is enforced on site and its contents are communicated to all employees and contractors working on the site as part of the induction procedure.

The Site Manager will record all dusty and air quality complaints in a log and record any exceptional incidents that cause dust/or air emissions, and the action taken to resolve the situation.

Regular liaison meetings will be held with other high-risk construction sites within 500 m of the site boundary, to ensure plans are co-ordinated and dust and particulate matter emissions are minimised. It is important to understand the interactions of the off-site transport/ deliveries which might be using the same strategic road network routes.

Monitoring

Where receptors are nearby the Site Manager will undertake daily on-site and off-site inspection, to monitor dust, record inspection results, and log any issues.

They will also carry out regular on-site and off-site inspections to monitor compliance and they will increase frequency of site inspections when activities with a high potential to produce dust are being carried out.

Preparing and maintaining Site activities

The Site Manager will ensure that machinery and dust causing activities are located away from receptors.

When necessary they will put measures in place to enclose the site as far as reasonably practicable to mitigate the effect of specific operations that are known to generate a high potential for dust production.

The Site Manager will prevent the runoff of water or mud off site, and keep site fencing, barriers and scaffolding clean using wet methods.

Any materials that have the potential to produce dust will be removed from site as soon as possible.

During dry conditions the potential for dust emission is increased and may potentially impact on the amenity of neighbours, visitors or employees. During such periods an appropriate dust suppression technique will be employed on the site, working areas and stockpiles.

Should dust emissions be generated in extremely dry periods then suppression will be controlled by mobile spray units.

Operations
The Site Manager will ensure that equipment will be appropriate for the tasks for which it is being used, maintained in good working order and operated according to the manufacturer's instructions.

Where required cutting equipment will use water as dust suppressant or suitable local extract ventilation will be used.

An adequate water supply will be available on the site for effective dust/particulate matter suppression/mitigation.

Where disposal works are at high level or close to public activities enclosed chutes and covered skips and drop height will be minimised to limit fugitive dust release.

Site will have spill kits and necessary equipment to clean any spillages.

Waste Management
No bonfires and burning of waste materials

Operating Vehicles and Machinery and movements on site
All vehicles to switch off engines - no idling vehicles

The use of diesel or petrol-powered generators will be minimised where practicable.

Speed restrictions of 5mph will be imposed for all vehicles/plant moving around on site in order to minimise emissions of dust from the internal road surfaces.

Internal unsurfaced roads will be well maintained and compacted to minimise spillage from vehicles/plant and dust emissions from loose and uneven surfaces.

Should dust emissions be generated, the area being worked will be kept damp with water via a water bowser.

A Transport Plan to manage has identified the delivery routes to be taken for goods and materials.

A Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing)

Earthworks and Construction
Scabbling activities will not be undertaken on site.

Sand and other aggregates will be delivered when required and stored in locations to prevent nuisance with covers to be prevent dust.

Earthworks and exposed areas/soil stockpiles will be re-vegetated were possible to stabilise surfaces.

Use of Hessian, mulches or trackifiers will be used where practicable if it is not possible to re-vegetate or cover with topsoil.

Road Transport Off Site

A mechanical road sweeper will also be used on the public highway in the immediate vicinity of the site when dust is at a level which constitutes a nuisance potential, this will ensure the road surface remain clean. The frequency of use will be determined by the site management.

All vehicles leaving the site will be covered to prevent escape of materials and vehicles will be jet washed and brushed down to remove mud and dirt from the vehicle tyres.

This will prevent dirt being deposited on the road around the site and potentially turning airbourne dust.

NOISE & VIBRATION

General Site Activities
WCL will comply with BS 5228-1:2009+A1:2014 and BS 5228-2:2009+A1:2014, Code of practice for noise and vibration control on construction and open sites, Part 1 Noise and Part 2 Vibration.

Noise assessments of the processes have been undertaken and we do not anticipate any noise pollution above recommended levels.

Site boundaries will be enclosed with perimeter fencing. To the side and rear elevation a fence wrap will be employed, and to the front elevation timber hoarding will be installed, this will assist in dampening sound transfer from site activities.

The restriction in site operating hours will be carried out in accordance with Local Authority guidance, thus preventing the carrying out of any noise disruption outside these hours or during weekends and public holidays.

A newsletter will be sent to all nearby residents prior to the commencement of work which is likely to generate loud noise and vibration such as piling.

Noise & Vibration Generating Plant & Equipment
The following equipment that is known to generate significant noise will be in operation on site.

- Hand held tools
- Abrasive cutting equipment
- Diesel powered Site cabin
- Delivery Vehicles
- Fork lift truck/TEL handler
- Excavators
- Piling Rig

Mitigating Measures

Hand held tools and rotary abrasive cutting equipment
Hand held tools and rotary cutting tools on site will produce noise but short bursts of usage generating noise levels of 80dB(A) equivalent to a bus or lorry passing which will not exceed noise pollution limits.

Rotary abrasive cutting stations will be set up wherever possible. These areas will be cordoned off for health and safety of operatives, and positioned away from existing buildings to reduce nuisance to neighbours.

Diesel Powered Site Cabin and welfare
Diesel generators will power site cabin and welfare facilities in the initial stages of construction. Low noise silent generators will be used, and these will only used during site operating hours.

Temporary electric supply will be installed as soon as feasible to eliminate the need for diesel generators.

Delivery Vehicles
All deliveries to site will be from Rigid trucks. Deliveries will be within site operating hours and timed to avoid peak traffic and school pick up and drop off.

Vehicles will drive into site in forward gear and engines will be turned off during unloading to minimise nuisance to neighbours from engine noise.

Fork lift truck/TEL handler
Fork lift truck/TEL handler will be used to manoeuvre materials around the site during site operating hours.

The noise generated by these vehicles will be comparable to cars and vans passing the site. When not in use the engines will be turned off to eliminate nuisance, idling engines will not be permitted.

Excavators
Suitably sized modern plant will be used at all times to ensure that engine noise is kept to the minimum.

Initial site clearance, road and drainage installation will use 110 ton excavators. The noise generated will be from the diesel engine is comparable to bus, and lorries.

Smaller 10-45 ton excavators the noise generated will be comparable to cars these will be used for completing external works to properties.

When not in use the engines will be turned off to eliminate nuisance, idling engines will not be permitted.

Piling Operations Noise
Analysis of the Site Investigation by WCL Engineers has identified the need for piled foundations to all the proposed plots.

The piling rig will be operational for 2 weeks. Driven concrete piles will be used. WCL anticipate that the noise generated at the existing property line will be less than 65dB (A).

If necessary WCL will employ noise consultants to assess the noise at the perimeter where properties are in close proximity of the site to ensure noise levels are not exceeded.

Should the noise generated from the rhythmic hammering of the pre cast piles exceed acceptable levels WCL will look to use noise damping materials, and/or enclosures to mitigate the noise impact.

Piling Operations Vibration
Piling operations can affect nearby properties with vibration.

Dilapidation Surveys
We will write to neighbouring properties advising them of the works and will offer to undertake a pre-construction condition survey of the external fabric of their property to record all visible building defects prior to the start of piling work. Only where access is expressly given by way of return email, will we complete this activity.

Resident Communications
A newsletter will be sent to all nearby residents prior to work starting to inform them of the planned start date for piling work, what to expect in relation to noise and vibration, and reassurance that these works are not expected to cause damage to any building. Contact details of the site management will also be provided.

Vibration monitoring
The British Standard for levels of acceptable vibration to prevent damage is set at 20mm/sec. To provide for a factor of safety WCL will set target levels at 10mm/sec. Vibration monitoring equipment will be set up on the boundary nearest to the piling operations to record vibration levels.

Should the installation of concrete piles generate vibration above levels an alarm will go off which will alert the piling operator to stop piling activities. WCL will review the method of work with the piling contractor, alternatives piling solutions that reduce vibration like steel tublar piles or pre-drilling pile locations will be considered to ensure piling is undertaken within vibration levels.