

Construction Environmental Management Plan

GRAFTONGATE

PALOMA
CAPITAL

**WILLOUGHBY ROAD & BRANTWOOD ROAD
EDMONTON
NORTH LONDON
N17 0RU**

10 October 2023 Rev 1

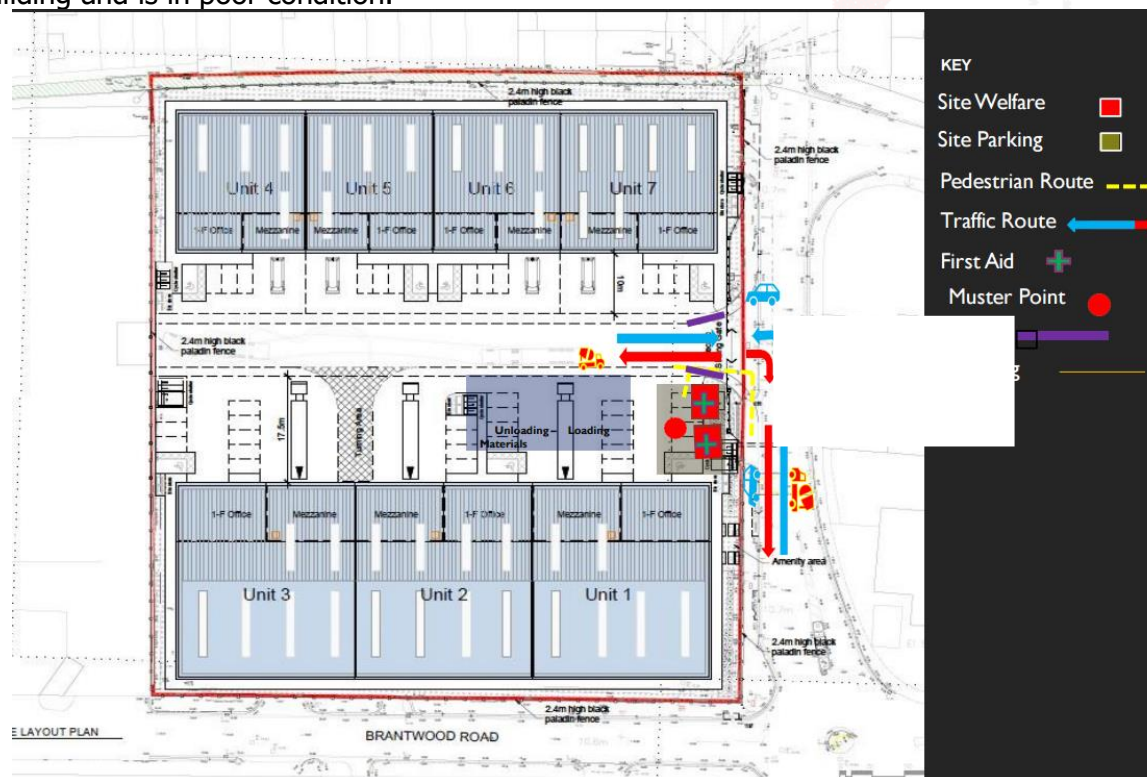
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1. The Project

Demolition of existing structures and redevelopment of two new industrial buildings (sub divided into 7-units) including ancillary offices, associated parking and servicing, landscaping, means of access, highways works and infrastructure. The site currently comprises a generally level parcel of land, having previously been utilised as a car salvage yard for when vehicles are seized without insurance and/or valid tax. The east of the site incorporates two buildings previously utilised on ground level as a car showroom and some office space, with additional temporary office cabins at ground, as the upper storey of larger main building and is in poor condition.



3. Programme

The construction phase of the project is due to commence on 23rd October 2023 with a contract program of 41 weeks.

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4. Management Of The Project

Project Team Organogram

Our leadership team is supported by an experienced delivery team. Our project managers, site managers, site engineers and office support are all experienced in the size, type and nature of the construction projects we undertake.

GRAFTONGATE

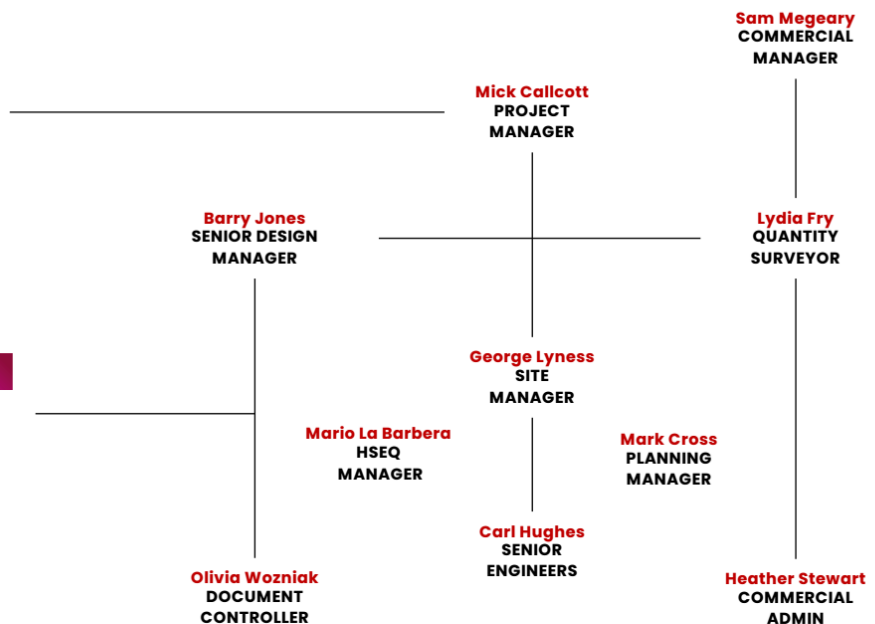


Naim Basha
MANAGING
DIRECTOR



Matt Fry
COMMERCIAL
DIRECTOR

Trinity



#teamwilten

4.1 Supervision

On Site Supervision:

- The works will be supervised by a full-time experienced Project Manager (Mick Callcott), who will be responsible for the day-to-day management of all aspects of the Site. He / she will be supported with a full time site based Site Manager (George Lyness)

Off Site Supervision:

- This will be carried out by an experienced Operations Manager and Operations Director who will be responsible for all aspects of Health & Safety, ensuring the correct resources are in place to ensure the safe and efficient execution of the works.
- All site supervision will be carried out by appropriately trained staff with relevant experience and will be fully supported by the project team.

4.2 Site Establishment / Site Accommodation

- Although the site is of a reasonable size, a large proportion of the site is taken with either the building itself or the associated hard standing car parks / hard standing.
- Owing to the locality of the site alternative locations for site compound / site parking / material storage zones are not feasible, and as such the plot itself will form the site boundary for the site establishment.
- The site compound and proposed access routes to and from the construction zones will be located on the footprint of the front elevation car park zones.
- During the latter stages of the construction (approximately 2/3's of the way through the program), a full compound move will be effected from this location to a location that has been permanently completed.
- The site will be secured by installing a full perimeter 'Heras' fence panel system. All operatives, site staff and visitors to site will enter via vehicle and will pass through a 'Gateman' operated control gate system situated at the location shown, allowing larger vehicles enough room to clear the Sandy Way main road, thus alleviating nuisance to the location.
- The main entrance gate will always be 'manned', with gates being shut during down times to avert unauthorized access.
- Site welfare will consist of Site Offices, Meeting Rooms, Mess facilities, Toilet and drying room facilities, Subcontractor accommodation and store containers. A more detailed layout will be produced within the Site Establishment RAMS.
- It is envisaged that the various cabins will be stacked to minimize land take, following the appropriate Temporary Works procedures.
- Visitor's book / complaints register located within the site office will be under constant review and any actions brought to the attention of the client and EA, with follow up actions implemented and addressed immediately.
- Pedestrian barriers will be installed within the compound and parking zones, with applicable segregation being implemented between the welfare zone and the various sections of the on-site works. Appropriate crossing points will be installed providing adequate on-site segregation from plant and operatives and visitors.
- All delivery vehicles will enter site and the Hold point will be located within the site

demise. There will be no temporary parking of vehicles on Sandy Way itself, and all delivery vehicles will be subject to delivery slots allocated in the preceding week.

- Construction traffic and unloading will be supervised and sufficient space allowed for within the various lay down areas on site.
- Prior to leaving site all vehicles will be subject to a thorough assessment on their cleanliness, and a vehicle clean down facility will be installed at the site entrance to produce clean vehicles leaving site. a regular road sweeper will be employed to clean site and adjacent roads.
- Concurrent with washing down vehicles leaving site will be the keeping clean of the site entrance. This will be of a tarmac nature and will receive regular washing down by the Gateman managing the main site entrance.

4.3 Materials Handling.

- When placing orders, whether direct to Wiltan Construction Ltd suppliers or to Supply Chain Subcontractors, all deliveries will be subject to a strict adherence to scheduled time slots. This will be done on a weekly basis, with certain major elements subject to client liaison.
- Site directional arrows will be placed around the local area, up to 500m away (permission sought from the council), indicating where the site is located for the delivery vehicles. Clear site entrance signage will be installed giving clear and precise information to all delivery vehicles entering site as per Traffic plans above.
- To mitigate the impact of Construction traffic during peak hours a site-specific Traffic Management Plan will be developed and implemented by the site team. This plan will focus on the following:
 - ✓ Co-ordination of car and van parking for construction personnel, visitors, site staff and client and Consultants.
 - ✓ Implementation of 'Just in time' deliveries.
 - ✓ Restrictions on unnecessary vehicle movements during peak periods of the surrounding road infrastructure.
 - ✓ Co-ordination of deliveries to arrive outside of peak times where appropriate.
- Upon receipt of the delivery vehicles into site, unloading and off-loading procedures will be implemented dependent on the type of delivery received. On all occasions the respective Supervisor from the Subcontractor / Supply Chain will manage the procedure, bank the vehicle to the allocated location on site and follow the prescribed off-loading procedure.

4.4 Site Hours

- The general working hours will be 7.30am to 5.30pm Monday to Friday's, and 8.00am to 1.00pm on Saturday, subject to seasonal variations during the winter months.
- Noisy works shall be limited to progressing at 8am on all days of the week.
- All deliveries will be made during normal site working hours, and no works will be carried out on Sunday's or Bank Holiday's unless written approval by the

client. Wherever possible deliveries will be planned outside of morning rush hour times.

4.5 Nuisance

- Any noisy, dusty, or vibration-based nuisance works will be identified early in the Construction process, and appropriate Control measures put in place to reduce and contain.
- Ground improvement works are limited other than standard cut and fill bulk earthwork techniques. As such it is not envisaged that site will have any major point load vibration works that may affect neighboring properties or structures.
- During the construction process, particularly in the dry summer months, measures will be in place to prevent the build-up of any significant dust on site. Control methods will generally consist of controlled damping down using a towed water spray bowser.
- In addition, and more relevant to the Ground works element of the works, excavations will be kept damp by utilizing similar damping down spraying methods. Air mist techniques can and will be deployed where necessary to prevent the generation of dust. Surplus materials being transported to and from the building plot post earthworks will be subject to stringent assessment with a strict 5mph speed limit throughout site aiding the reduction of dust generated.
- To ensure the above measures are deployed correctly there will be a permanent water supply to the site for the duration of the construction period, separate from the welfare water supply.
- Precautions will be taken during construction to ensure ground water is managed appropriately (See later Water Management Plan).
- No burning of fires will be permitted within the site boundary.
- Site will always be appropriately secured during the working periods and a monitoring security system in place during out of hours periods. The Site /Project Manager will be the point of contact for all Security based issues.

4.6 Project Health, Safety and Environmental Considerations

PROJECT HEALTH, SAFETY & ENVIRONMENTAL CONSIDERATIONS	
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Reference: Construction Design and Management Regulations – A.C.O.P.

For completion at Tender Stage with reference to the Pre-Construction Information provided by the CDM Appointed Principal Designer.

NOTE:

All applicable items must be carried forward to the Project Safety Assessment and all interested parties informed. If there is insufficient information re CDM Appointed Principal Designer.

APP = Applicable

CF = Carry Forward to the Construction Project Risk



		App	Comments	Project HS&E Assessment Y/N
1.	EXISTING ENVIRONMENT			
a)	Are there any planning restrictions which relate to the following?			
i)	Working hours	App	See text above	Y
ii)	Noise	App	Located close to neighbouring facilities, noisy activities will be reviewed and RA	Y
iii)	Dust	App	Monitor in windy conditions, damp down when necessary and required	Y
iv)	Vibration	App	Monitor and Control	
v)	Light	App	To be monitored – provision of temporary lighting where required	Y
vi)	Road Cleaning	App	Road Sweeper in operation during the earthworks, as required	Y
vii)	Operating a crushing &/or screening plant	App	Possible for screening site won material after breaking existing service yards.	Y
viii)	Craneage – airspace	N/A		
ix)	Archaeology or standing heritage	App	Possible watching brief during initial cut and fill operation	Y
x)	Specific local authority KPI reporting requirements			
xi)	Restriction on vehicle emissions e.g. London Emission Zone (LEX), or use of plant / vehicles with Euro 4+ engines	App	All machines complying with any requirements for NRMM. Site registered.	Y
xii)	Drainage from temporary carpark(s) must incorporate an oil / fuel interceptor			
b)	Are there any existing services?	APP		Y
i)	Underground cables	APP	To be continual monitoring via cat & genny and permit to break ground. Utilities drawings available on site.	Y
ii)	Overhead cables	N/A		
iii)	Gas Main	App	Planned works	Y

iv)	Telecommunications	App	Planned works	Y
v)	Fibre optic	App	Planned works	Y
vi)	Computer/Cable Vision			
c)	Are there any traffic restrictions?			
i)	On site parking	App	Adhere to Client site rules and traffic management plans. All site parking to be within the curtilage of the site boundary where possible. On road parking in free spaces on Brantwood Road allowable.	Y
ii)	Delivery times	App	To be planned and monitored and based on a 'just in time' process, with strict adherence to site times as per the narrative above	Y
iii)	Access for emergency vehicles	App	To be always maintained	Y
iv)	Ground conditions	App	Monitor for purpose of material storage and access for deliveries	Y
	2. STRUCTURES - BUILDINGS			
a)	Are there any existing structures on site with specific Health and Safety hazards?			
i)	Asbestos	App	Asbestos survey to be sent from client side received .Additional survey carried out by Demolition contractor.	Y
ii)	Fragile roofing	N/A		
iii)	Unstable structure	N/A		
b)	Are there any problems with the ground?			
i)	Contamination	App	Monitoring while works progress. Survey carried out pre works.	
ii)	Subsidence	N/A		
iii)	Instability	N/A		

3.	EXISTING DRAWINGS (IF APPLICABLE)			
a)	Have all available drawings of the structure(s) to be demolished, or incorporated into the proposed structure, been made available?	App	Yes, in Tender pack	
4.	THE DESIGN			
a)	Have any hazards or work sequences been identified which may be a risk to workers' safety?	APP	Utilise the Designers RA document during all planned activity	Y
b)	Have any precautions or sequences of erection been stipulated to improve safety?	App	Design package. Build sequence detailed in the contractors RAMS	Y
c)	Is prefabrication possible?	APP	Elements of pre-fabrication will be used where possible but majority of work is site constructed	Y
d)	Is a BREEAM, CEEQUAL or similar rating required?	App	BREEAM - Excellent.	Y
e)	Have any decisions been taken by the design team with regard to reducing waste	App	Fill materials – muck shift retained on site where possible. Crushing of materials on site for use within works packages.	Y
5	CONSTRUCTION MATERIALS			
a)	Have any hazardous materials been specified which cannot be avoided?	N/A		
b)	Has any timber been specified that does not meet the requirements of G.F. Tomlinson's Timber Purchasing policy?	N/A		
c)	Is there a need to demonstrate that materials have been responsibly sourced.	App	BREEAM and considerate Constructors Scheme	Y

6.	SITE			
a)	Have any stipulations been made, or problems highlighted, regarding the location of site access, site accommodation, unloading/storage areas and traffic and pedestrian routes?	APP	Adhere to the key stipulation that the site compound, locations of welfare cabins and storage cabins, storage areas, lay down zones and site parking shall all be within the site curtilage. Monitoring of pedestrian walkways to the front elevation at the entry / exitpoint to site	Y
7.	CLIENT'S UNDERTAKING (IF APPLICABLE)			
	Are there any identified SHE issues to take into consideration when working on Client's occupied premises?	N/A	No occupied premises on site. All new build.	Y
8.	SITE RULES			
	Have any specific site rules been stipulated by the Employer or his representative?	App	The Client has provided specific site rules. Included in the Pre-Construction information provided by the Principal Designer. CPHSP considers all the elements and includes for them within planning.	Y
9.	LIAISON			
	Have procedures been established for the consideration of SHE implications arising from design elements of contractor's work packages and substantial design changes?	App	Ongoing design review meetings. To be covered by Sub Contractors package risk assessments and safe systems of work	Y

10.	PROTECTION OF THE PUBLIC			
a)	Select perimeter / entrance locations and type based on risk.	App	Perimeter fence to be maintained and monitored. Entrance gates to be manned at all times and be located at current site entrance position to minimise any potential traffic problems.	
b)	Consider security requirements e.g. security guard, CCTV, lighting etc.	App	CCTV cameras to be utilised to provide security. Constant monitoring of site systems to ensure security at all times, with changes to be made if required.	Y
c)	Consider existing emergency arrangements, are they affected?	App	Maintain emergency routes around the local area (including the narrow public footpath between site and the neighboring building) (to be closed during demolition of adjacent wall)	
d)	Are public roads / paths affected, what type of physical barrier will be required?	App	No areas outside the site boundary to be used. Area around site to be maintained and litter pick carried out	Y
e)	Are the public exposed to risks from falling materials / objects?	N/A		Y
11.	WASTE MANAGEMENT			
a)	Has the Client produced an initial Site Waste Management Plan – if so have we obtained a copy?	APP	Site Waste Management Plan (SWMP) created and to be updated as project progresses.	Y
b)	If we are importing more than 5000 tonnes of fill an environmental permit may be required	N/A		
c)	If we are crushing or screening onsite more than 5000 tonnes of demolition material an environmental permit may be required	App	Crushing existing service yard to 6F2 & Type 1. Not more than 5000 tonnes	Y
d)	With regard to disposal offsite, has the waste soil been classified as inert, non-hazardous or hazardous? Has a suitable disposal site been located?	APP	Currently classified as inert, further tests to be carried out as works progress..	Y
e)	Do we have confidence in the quality of the soil data we have been provided with? Are further tests required?	App	Geotechnical survey has been provided. Further tests will be carried out as works progress if discoveries made.	Y

12.	WILDLIFE / BIODIVERSITY			
a)	Are there any protected species or habitats identified, which may require special methods of working, protection or translocation? In particular: -	N/A	NONE	Y
i)	Amphibians, e.g., Great Crested Newts	N/A	N/A	
ii)	Mammals, e.g. Badgers, Bats, Dormice, Otter, Water Vole	N/A	None	Y
iii)	Reptiles, e.g., Adder, Slow Worm	N/A	None	
iv)	Specific plants, e.g., orchids	N/A	None identified in ecology report	
v)	Designated areas, e.g., Site Special Scientific Interest (SSSI)	N/A	None	
vi)	Trees or hedgerows	APP	None identified	Y
b)	Have any noxious or invasive plants been identified, e.g., Japanese Knotweed, Giant Hogweed, or Himalayan Balsam?	N/A	None identified	
c)	Has seasonality been taken into account when programming the work, e.g., bird nesting, bat roosting or amphibian breeding times?	APP	Ecology report does not identify any concerns with either vegetation of wildlife in the site area.	Y
d)	Have opportunities been investigated to enhance the biodiversity of the project e.g. installation of bat or swift boxes, or use of native species in planting schemes??	APP	Landscape plan in place to better the current site levels as well as nesting boxes and bee posts etc, in line with BREEAM requirements	Y
13.	WORKING OVER/ADJACENT WATER			
	If working over, in or adjacent to controlled waters a flood defence consent may be required	N/A	Not close to any waterways.	

14.	DISPOSAL/DISCHARGE OF WATER			
a)	Dewatering (groundwater abstraction) may require an environmental permit	N/A		
b)	Discharge of groundwater, water from excavations, etc. to controlled waters (ditches, streams, rivers etc.) will require the consent of the environment agency, and possibly an environmental permit	APP	Monitor disposal to client arrangements and environmental standards, all run off will be filtered and planned to be captured prior to leaving site boundaries (Refer to Water Management Plan)	Y
c)	Discharge of groundwater, water from excavations, concrete washout water etc. to a foul sewer will require the consent of the local sewerage undertaker	N/A		
d)	Discharge of effluent from temporary site accommodation to the foul sewer will require the consent of the local sewerage undertaker	N/A	Tank in use for initial construction period prior to FW discharge consent	Y
e)	Concrete washout water not to be discharge to ground, or to surface water drains, without treatment, and may require an environmental permit	APP	'lined' wash out ring / skip will be utilised	Y
15	OTHERS			
a)	Working on a live site	N/A		
b)	Working adjacent to railway	N/A		

4.7 Surface Water Management Plan

The Site team must work to ensure the Surface Water run-off is minimised and that the Best Practicable Means (BPM) are used to firstly avoid creating run off and then if any is produced, the controlling of.

Key elements of this plan are to be given to site workers via a Toolbox Talk prior to the start of the works. All key trades will be targeted for the On-Site Toolbox talk, but primarily will focus on the Earthworks, Groundworks and Roofing Subcontractors.

All Construction team members and Supervisors of the key trades will be briefed on this plan, and in particular about the following:

- ✓ Management of Subcontractors
- ✓ Liaison with Neighbors and the public
- ✓ Reacting to Incidents or Complaints
- ✓ Ensuring that BPM is used to manage the works.

Briefings will be taken up by requirements in contract appendices, and Subcontractor Environmental Requirements.

The Plan considers the activities related to the construction of the building and associated car parks and hard-standing zones on site, where the works will include:

- ✓ Construction of the single unit
- ✓ Construction of detailed SW and FW drainage associated.
- ✓ Construction of associated external hard-standing tarmac and permeable paving zones applicable.

SURFACE WATER RUN-OFF MANAGEMENT

Mitigation Methods

- Wiltan Construction Ltd will seek to control, and limit, any surface water run-off during all aspects of construction activity.
- As indicated above, key Subcontractor personnel will be inducted on this plan, and given further guidance and instruction as necessary through the course of the project.
- Wiltan Construction Ltd will ensure that there is no discharging, or allowing of water contaminated with silt, to enter the existing Surface Water system, that may cause pollution.
- Wiltan Construction Ltd will insist that all relevant Subcontractors seek to channel run-off away from Watercourses and SW drains and will also protect all SW drains by the likes of cut-off ditches or earth bunds (if works are to be within 15m of watercourses or SW drains).
- Works will be planned prior to commencement and control measures placed in each task specific Method Statement, approved by the Main Contractor prior to works commencing. This is to ensure that each element of the works has addressed the potential for water run-off and potential contamination to SW watercourses or drainage systems.

- All watercourses and SW drains will be identified both visibly on site and marked on the site plan for all to see.
- No silty water will be discharged over the ground, unless into pre-excavated settlement beds (fenced off) or via adequately sized settlement tanks situated adjacent to the works in question.
- Daily Inspections by the Main Contractor's Site Management team will progress for all high-risk sections of work, with additional inspections taking place when adverse weather is expected to ensure no changes to site circumstances have occurred.

METHOD STATEMENTS – PHASING OF WORKS

During the works the Main Contractor (in liaison with Earthworks, Groundworks and Roofing Subcontractors), will aim to minimise the amount of exposed ground and temporary stockpiles of soil in order to minimise the amount of silty water that has to be dealt with. Currently all excavated drainage arisings will be excavated and carted to an on-site stockpile area for use within the overall cut and fill strategy for the site.

Open trench excavation works (drainage runs / foundation works) will be sequenced so that the length of trench open at any moment in time is kept to a minimum, thus reducing the potential risk of over generation of silty water extracted from the excavations.

Works will be phased to ensure mud from vehicles entering and exiting site will be minimised. This will be done by means of (constantly maintained) Haul Roads, 'Just-in-time' deliveries, and regular road sweeper attendance during peak phases (please refer to previous sections of this plan).

The site haul roads will also have temporary stone filled drainage ditches constructed alongside, to filter and control surface water run-off for the duration of the works. There will also be a progressive and continuous inclusion of straw bales at the open end of the drain runs to filter water entering the newly installed pipes.

DEALING WITH ATTENUATION SURFACE WATER FLOWS DURING CONSTRUCTION

A key element of the construction works is how site will be controlling and attenuating surface water flows during construction, to ensure that discharge flows during construction are below the allowable site discharge rate, with due consideration to the slight slope across site and potential for heavy run off flows on the gradient.

The programme intent is to install at least one cut off filter drains across a section of the site, to cut off surface water run-off from exiting site at the road side elevation. Catch pit will be installed at the end of each run with pumps introduced within the chambers to control the level of the captured water. Discharge consent will be obtained from the EA to allow for the captured water to be discharged into the nearby surface water system, through appropriately sized settlement tanks.

There is also intent to install temporary land drains connecting the outfalls until such times as the permanent drainage is installed and operational.

SUMMARY

As the site is located a sufficient distance from associated balancing ponds, rivers and open watercourse ditches, the general risk for pollution from SW run-off is deemed to be low.

Key consideration however, as indicated above, is in relation to the avoidance of pollution to the existing SW drainage system and the potential flooding to the lower end of the site.

As a minimum, and to comply with the conditions of best practice, the following measures will be adopted on site: On Site workings: -

- Plant and wheel washing are carried out in a designated area of hard standing at least 10m from any watercourse or surface drain.
- Any Run-off is collected in a sump and recycled where possible.
- Settled solids are removed regularly.
- Discharge of contaminated water goes to the foul water system, with permission from the sewerage provider.
- Refuel mobile plant in a designated area, on an impermeable base away from drains or watercourses
- All fuel to be stored in a (double skinned) bunded bowser.
- All refuelling and bulk deliveries are to be supervised.
- Check the available capacity of the tank before refuelling.
- On plant check hoses and valves regularly for signs of wear.
- Turn off valves after refuelling and lock them when not in use.
- Position drip trays to catch minor spills.
- Spill kits and sand will always be available to contain any spillages.
- Designated contained area for washing out ready mix concrete lorries.
- Surface water run-off from all parking areas and roadways will be diverted to a class 1 oil separators with adequate capacity for the anticipated flows.
- Regular road sweeping will take place to control mud and dust on roads.
- All foul water during the construction phase will be connected to the existing foul system or a tanker will be used to dispose off-site.
- Material stockpiles will have silt fences at the toe of the slope made from geotextiles if required.
- Staff & contractors will be trained in incident response.
- Slow silt laden site water down using check dams and shallow settlement ponds.
- Critically determine the difference between attenuating water for flood prevention, against using settlement ponds for the treatment of silt laden water.
- Have a Yellow / Amber / Red alert level warning system in place for look ahead weather alerts. Typically, these would include assessment of the alert level in relation to the likely event of either low level disruption, potentially disruptive weather, or extreme weather warnings that will result in pre-determined control measures to be adopted (additional to the ones indicated above)

INCIDENT RESPONSE

Any incidents that could have an environmental impact will be reported to the Environmental Agency: - Environment incident hotline 0800 807060

LEGISLATION & GUIDANCE

The Water Environment

(England and Wales)

Regulation 2009

Land Drainage Act 1991

SEPA Engineering in the

Water Environment

Good Practice Guide

Temporary

Construction Methods

Control of Water

Pollution from

Construction Sites –

Guide to Good Practice

(SP156)

Environmental Good Practice – Site Guide (C650)

4.8 Environmental Management Plan (EMP)

Wilten Construction Ltd is committed to managing the environmental impacts associated with the Willoughby Road site and achieve consistently high standards of performance throughout the duration of the project.

The purpose of this Construction Environmental Management Plan (CEMP) is to:

- **Ensure compliance with all applicable legislation & statutory controls** (see schedule II) – this includes planning conditions, Section 106 agreements, and client's environmental requirements.
- **Ensure Conformance with the Company Environmental Policy Statement** (Appendix P) – including all associated Wilten Construction Ltd standards and procedures;

- **Achieve Company Objectives & Targets**

- **Deliver best practicable environmental performance** – this means preventing pollution, minimizing adverse environmental impacts and securing the potential benefits associated with higher standards of environmental performance.

The CEMP identifies specific environmental issues associated with Willoughby Road site and stipulates core procedures that will be used to manage them. Relevant environmental information will be communicated as required.

All amendments to this CEMP must be made by the specific project/site management.

GENERAL PROJECT ENVIRONMENTAL REQUIREMENTS

Waste Management

Site will manage waste.

When considering management options for identified waste streams, Wilten Construction Ltd and supply chain members will adhere to the principles outlined in the waste hierarchy below.



Wilten Construction LTD and supply chain members will ensure waste is stored away from drains, boreholes, wells and controlled waters. Containers shall be in good condition and, where required, covered to prevent dust and litter being blown out. If there is any likelihood of stored waste contaminating the surrounding environs, all necessary steps will be taken to ensure no contamination occurs. This may include the use of containment bunds with rain shelters and the use of sealed containers, i.e., clip-top drums and fluorescent tube coffins. Before waste is treated and / or removed from the site, all subcontractor's / waste contractors must provide the project team with legible copies of the following documentation:

- Environmental
- I permits (mobile plant licences) and exemption certificates authorizing on-site crushing and screening activities;
- Waste Carriers Registration Certificates;
- Environmental Permits, (Waste Management Licences and PPC Permits);
- Notification certificate of exemption from environmental permitting.

The project team and, where applicable, subcontractors will ensure that the removal of all inert / non-hazardous waste is recorded on Waste Transfer Notes. These documents must be kept for a minimum of two years. These documents will be stored on site and made available on request.

The project team and, where applicable, subcontractors will ensure the removal of all hazardous waste is recorded on Hazardous Waste Consignment Notes. These documents must be kept for a minimum of three years. These documents will be stored on site and made available on request.

Legible copies of all Waste Transfer and Consignments Notes, recording the removal of waste from the project/site must be issued to G.F. Tomlinson. This includes waste generated on site by subcontractors).

When removing hazardous waste from the project/site the following Premises Code must be used on all Hazardous Waste Consignment Notes: This is the 6-digitalpha numeric code given to the project when registering the site as a producer of hazardous waste with the Environment Agency.

Storage of Fuel, Oils & Building Chemicals

Containers must be stored within a Spill Nappy (or similar), bund or any other suitable secondary containment system (SCS). All containers must be located in a safe place to minimise the risk of damage and locked-off when not in use.

For oil tanks, intermediate bulk containers and mobile bowsers the SCS must be able to hold:

- Where one container is being stored - a minimum of 110% of the total volume.
- Where more than one container is being stored - a minimum of 110% of the largest container's storage volume, or at least 25% of their total volume (whichever is greater);
- For drum storage, the interceptor tray must be able to hold at least 25% of the total storage capacity of the drums.

Bunded areas must be made impermeable to water and oil. The base and walls must not be penetrated by any valve, pipe or opening that is used for draining the system. For further guidance on bund construction and other requirements, please refer to CIRIA publication *Construction of bunds for oil storage tanks (R163)* and Environment Agency Pollution Prevention Guidelines 2 and 6.

Areas used to store fuel / oil and other potential contaminants are identified on the traffic management plan.

Mobile Crushing & Screening Process

Crushing and screening of demolition material must be conducted in accordance with the plant operators' manual and, where applicable, environmental permit (mobile plant licence) / waste exemption certificate. The operator must use the Best Available Techniques (BAT) for preventing or, where this is not practicable, reducing emissions from the installation. The following items must be considered when attempting to reduce the environmental impact of this process:

- Location;
- Operation;
- Maintenance;
- On-site transfer of dusty materials;
- Condition of roadways / haulage routes;
- Stockpiling materials.

General Site Activities

Regarding nuisance, the methodology in which work activities are undertaken must apply Best Practicable Means (BPM) in order to minimise negative impact on local, sensitive receptors, such as schools and domestic dwellings. However, if measures to reduce excessive dust and noise are unsuccessful, work must stop, and an alternative method devised before work can resume.

The following measures must be considered when attempting to reduce noise and dust:

- Use sheeted lorries and sealed / covered skips;
- Use dust extraction equipment when drilling, sanding and cutting;
- Damp down haulage roads and stockpiled materials in dry or windy weather;
- Sweep access roads regularly;
- Grass over topsoil which is being stockpiled for landscaping or off-site re-use;
- Locate plant and equipment away from sensitive receptors;
- Use screens, including earth bunds to act as acoustic barriers;
- Isolate plant and equipment when not in use;
- Fit white noise systems on vehicles to reduce noise nuisance when reversing, where possible;
- Keep engine compartment doors closed;
- Limit vehicle movements on-site, i.e. use of one-way system.

Previously Unidentified Issues

If one or more of the following is discovered, work in that location must stop immediately and the Director(s) must be informed:

- Contaminated soils;
- Archaeological remains or features;
- Suspicious objects;
- Invasive species, i.e. Japanese Knotweed;
- Protected species, i.e. badgers, bats, amphibians, reptiles and plant life.

Specific Project Environmental Requirements

This section incorporates information derived from documents

scheduled in 2.3.2 of the Construction Phase Plan. – consider the

following headings: Unexploded ordnance UXO survey within Client

supplied information, available on site for review, a category index of

LOW has been established.

- KPI monitoring requirements, i.e. noise, dust, vibration, tree protection, protected species, waste, power usage, water consumption, commercial deliveries, etc.
- Materials with recycled content & low embodied energy
- Considerate Constructors scheme, i.e. minimum score 41
- Employment & / or training opportunities for local people in line with s106 agreement
- Liaison / working with schools & local community groups.
- Volunteering & charity work

Waste (Significant Waste Streams that will be Generated)

- Re-use of site won materials, i.e. soil & stones will all be analysed and re-used wherever possible.
- Waste segregation on / off site, wherever possible all waste will be segregated and stored in suitably sized skips/vessels to ensure reduced traffic to and from the site.
- Use of prefabricated materials – Most elements of the works will be prefabricated to reduce waste on site throughout the works.

Standing Heritage & Archaeology

- Archaeological investigations & sensitive areas has been completed with no features found

Materials and Design

- Materials with recycled content & low embodied energy

- Sustainable procurement policy, i.e. use of local suppliers & labour
- Timber purchasing policy i.e. use of FSC, PEFC
- Local supply chain (reducing nuisance, carbon emissions & simultaneously bringing socio-economic benefits to the immediate and surrounding area)

Sensitive Neighbours

The local businesses and residents adjacent to site will be kept informed about the works by letter at regular frequencies, a complaints/compliment box, phone numbers and emails for the site team will be available and made clear on the site gate and in all correspondence.

Local community meetings will be attended where appropriate and by invite from the community leader.

Ecology & Biodiversity

Tree protection is not required within the planning and arboriculturally documents and all works will comply with the requirements set out.

All perimeter hedges, trees and wildlife will be protected to ensure the surrounding areas are not affected by the development, details are again available in the arboriculturally, ecological and planning documents. The site will be ecologically enhanced by the project.

- No protected species have been found in any of the Ecology reviews or assessments, however we will monitor and maintain good practices during all construction activities.

Invasive species, i.e. Japanese knotweed have not been found on or around the development however should any concerns be raised or signs of such invasive species be found the works will cease in and around the area of concern and will immediately be raised with the Ecologist and client team.

Waste Contractor Environmental Reporting

Waste Contractors are to provide waste notes and consignment notes. They will be also requested to send a site report periodically all of which will be recorded and retained on site.

Emergency & Incident Preparedness

In order to minimise the risk of a pollution incident, subcontractors must ensure all operatives understand the environmental risks associated with their work activity and what control measures are in place to eliminate or reduce negative environmental impact.

Should an environmental incident occur, it must be reported to the site management immediately, that in turn will invoke the necessary emergency procedures. All

Environmental incidents will be reported to the applicable Directors, authorities, EA and will be investigated thoroughly and recorded.

Monitoring, Auditing & Reporting

Please refer to the Construction Phase Plan.

Training Awareness & Competence

Please refer to 4.14 of the Construction Phase Plan

ENVIRONMENTAL ASPECTS & IMPACTS

The project team has identified elements of its work which will have an impact on the environment.

Work activity / package Aspects & Impacts Registers will be developed and provided to all subcontractors. The subcontractor must manage all risks associated with their work activity / package in accordance with this document.

Where the subcontractor identifies additional environmental risk, it is the subcontractor's responsibility to inform the Principal Contractor.

Wiltan Construction LTD may, from time to time, externally communicate information relating to significant environmental aspects and the company's performance. Such decisions will be made by appropriate management and documented.