CONSTRUCITON ENVIRONMENTAL MANAGEMENT PLAN

FM-HSE-P04-02



Revision History

Prepared by:	Sam Higgins	S. Higgins	10/07/2026
Accepted by:	Adam Liu	A. Liu	15/07/2026

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1. INTRODUCTION

This Construction Environmental Management Plan (CEMP) has been developed to identify and manage the environmental risks associated with the Piccadilly Gardens Redevelopment project, and is a fundamental requirement of the Galliford Try Environmental Management System (EMS).

The Galliford Try Plc Environment Policy Statement shall be clearly displayed within the site office and welfare facilities. The Manchester City Council environmental and sustainability policies, together with any project-specific environmental commitments, shall also be displayed and communicated to site personnel, sub-contractors, and visitors as appropriate.

This project involves the following key construction activities:

- Site establishment, welfare, security, hoarding, and temporary works.
- Site clearance and removal of existing paving, street furniture, structures, and water feature.
- Excavation, earthworks, and reinforced concrete foundation construction.
- Drainage installation and modifications to existing drainage infrastructure.
- Utility investigations, diversions, protections, and associated underground service works.
- Installation of new hard landscaping, including paving, kerbing, and public realm features.
- Installation of street furniture, lighting, and associated public realm infrastructure.
- Soft landscaping works, including shrub planting, soil preparation, and tree installation.
- Temporary traffic management and pedestrian management measures.
- Testing, inspection, commissioning, and handover of the completed works.

Prior to issue, all environmental documents relating to this Project, are reviewed and approved by the Project Manager.

2. ENVIRONMENTAL SETTING

The area of the proposed development covers 0.93ha, and the site is subject to a number of environmental sensitivities associated with its city centre location and surrounding environment, as summarised below.

2.1. Geology and Hydrogeology

The site is located within Manchester City Centre and comprises an existing urban public realm environment containing extensive hard landscaping, amenity grassland, urban tree planting, and existing below-ground infrastructure. The site has been subject to previous development activities and ground conditions generally comprise made ground associated with historical urban development. Ground investigation information, utility records, and site surveys shall be reviewed throughout the duration of the works.

Any unexpected ground conditions, contamination, buried obstructions or unidentified services encountered during construction activities shall be reported immediately to the Project Manager and managed in accordance with the Environmental Risk Register and project procedures.

The site is located approximately 50m Above Ordnance Datum, and no Groundwater Dependent Terrestrial Ecosystems have been identified within the site boundary or wider survey area during the Preliminary Ecological Appraisal (PEA).

Appropriate controls shall be implemented during excavation, drainage, and utility works to prevent pollution of soils and groundwater and to ensure compliance with environmental requirements.

2.2. Hydrology

There are no watercourses located within the site boundary. The site comprises an existing public realm environment containing hard landscaped areas and existing drainage infrastructure. A splash pad water feature is currently present within the gardens, and the surrounding area contains extensive surface water drainage systems associated with the adjacent highways and public realm.

Construction activities have the potential to affect existing drainage infrastructure through the release of silt, fuels, oils, concrete washout, and other contaminants. Appropriate pollution prevention measures shall therefore be implemented throughout the duration of the works.

All site personnel shall be briefed on pollution prevention measures, and no materials, wash water, or contaminants shall be allowed to enter existing surface water drainage systems.

2.3. Ecology (Flora / Fauna)

The PEA identified that the site comprises predominantly amenity grassland, urban trees, ornamental planting and extensive areas of hardstanding associated with pavements, roads and tram infrastructure. These habitats are considered to be of site importance.

Thirty-six urban trees are located within the site boundary together with raised planting beds containing ornamental trees and shrubs. Existing trees and retained landscaping shall be protected throughout the duration of the works in accordance with approved drawings and project requirements.

No statutory or non-statutory designated ecological sites were identified within or directly adjacent to the site boundary, and no Groundwater Dependent Terrestrial Ecosystems or invasive non-native species were recorded during the PEA.

The ecological assessment identified the potential presence of nesting birds, commuting and foraging bats, and west European hedgehogs within and around the site. Ecological mitigation measures identified within the PEA shall be incorporated into the planning and delivery of the works.

All personnel shall be made aware of ecological constraints through site inductions, toolbox talks, and task briefings. Should any protected species, nesting birds, or previously unidentified ecological constraints be encountered during the works, activities in the immediate area shall cease and the Project Manager shall be notified immediately.

2.4. Cultural Heritage (Archaeology / SAMs / Listed Buildings)

The project is located within Manchester City Centre, an area with a significant historical and cultural heritage. The site forms part of the civic and public realm environment of Piccadilly Gardens and is surrounded by numerous historic buildings and heritage assets.

Whilst no specific archaeological constraints have been identified, there remains the potential for previously unidentified archaeological remains or items of historical significance to be encountered during excavation and general construction activities.

Should any archaeological remains, buried structures, artefacts or items of cultural heritage significance be discovered during the works, all activities in the immediate area shall cease and the Project Manager shall be notified immediately. Appropriate consultation shall then be undertaken with Manchester City Council and other relevant stakeholders before works recommence.

Heritage assets within the site boundary include the Grade II Listed Peel Statue, Queen Victoria Statue, and Watt Statue. The exact scope of works in relation to these monuments is still to be determined, however, any works that are required will be carried out by an accredited heritage contractor approved by Manchester City Council. During the construction phase, each of the monuments will be protected with solid hoarding to prevent accidental damage and adverse impacts from general construction works in the vicinity.

2.5. Exiting Site and Surrounding Land Use (Neighbours / Protected Areas)

Piccadilly Gardens is one of Manchester's most important public spaces and transport interchanges, it is a key gateway for thousands of people entering the city from Piccadilly Station and beyond.

The site comprises the existing Piccadilly Gardens public realm area and associated surrounding footways, highways, public transport interfaces, and landscaped areas. It is situated within a densely populated urban environment with high levels of pedestrian activity and significant interaction with local businesses, public transport, cyclists, and vehicular traffic.

The principal environmental sensitivities associated with the project relate to the site's city centre location and include:

- High levels of pedestrian activity and public interface.
- Adjacent commercial and retail premises.
- Bus, tram, and highway infrastructure surrounding the site.
- Existing trees, planting and landscaped areas to be retained and protected.
- Potential noise, dust, and vibration impacts associated with construction activities.
- Management of deliveries, waste, traffic, and site logistics within a constrained urban environment.

Construction activities shall be planned and managed to minimise impacts on neighbouring businesses, visitors, residents, transport operators and members of the public throughout the duration of the works.

2.6. Contamination (Soils / Geology / Water)

The site is situated within a heavily developed urban environment with a history of previous construction and redevelopment. Early soil testing has indicated that there is no contamination present associated with historical land uses and buried infrastructure.

While no significant contamination constraints have been identified, all excavation and ground disturbance activities shall be undertaken in accordance with the project risk assessments, ground investigation information and relevant method statements.

Any unexpected contamination, stained soils, unusual odours, asbestos-containing materials, buried waste, or contaminated groundwater encountered during the works shall be reported immediately to the Project Manager and appropriate specialist advice sought before works recommence in the affected area.

Appropriate pollution prevention measures shall be implemented throughout the project to prevent contamination of soils, groundwater, and surface water drainage systems from fuels, oils, chemicals, washout and other construction-related activities.

3. ENVIRONMENTAL CONSENTS / PERMITS / LICENCES

The need for environmental consents, permits, licences, and exemptions relating to works associated with the project has been identified during the environmental risk assessment process.

Consequently, the necessary environmental permissions for this project shall be identified and recorded within the Environmental Risk Register (FM-HSE-P04-01).

The key other requirements applicable to this project are:

Other Requirements	Environment Requirements
Planning Permission and Planning Conditions	Compliance with all approved planning conditions, ecological mitigation measures and environmental commitments.
Manchester City Council Requirements	Compliance with client environmental requirements relating to noise, dust, traffic management, and public interface.

Preliminary Ecological Appraisal	Implementation of ecological mitigation measures and recommendations contained within the Preliminary Ecological Appraisal.
Waste Duty of Care Requirements	Compliance with waste management legislation and Galliford Try waste management procedures.
Environmental Risk Register	Environmental risks to be reviewed, monitored and managed throughout the duration of the Works.
Utility Providers	Compliance with environmental requirements associated with utility investigations, diversions, connections and protection works.
Pollution Prevention Requirements	Protection of soils, drainage infrastructure and the surrounding environment from pollution arising from construction activities.

Any additional environmental permits, licences, exemptions or consents identified during detailed planning, design development, or construction shall be obtained prior to the commencement of the relevant works and managed in accordance with statutory and project requirements.

4. ENVIRONMENTAL RISK ASSESSMENT

The Project Manager, in conjunction with the HS&E Advisor, shall complete an environmental risk assessment which will be recorded within the Environmental Risk Register (FM-HSE-P04-01). The assessment shall encompass the design, pre-construction, construction and commissioning phases project. The Project Manager shall support the low carbon construction process by ensuring the Low Carbon Action Plan (FM-LCC-001) is developed, reviewed and updated throughout the duration of the works.

The environmental risk assessment shall consider the project's city centre location, public interface, ecological constraints identified within the Preliminary Ecological Appraisal, existing landscaping, drainage infrastructure, waste management requirements, and potential environmental impacts associated with the works.

Once completed, the Environmental Risk Register shall be reviewed and updated on a regular basis during the project planning process to ensure that it remains suitable, sufficient and effective in identifying and managing environmental risks.

Additional reviews shall be undertaken following significant changes to the scope of works, construction methodology, programme, site layout, environmental conditions or following any environmental incident or complaint.

5. ENVIRONMENTAL CONTROL MEASURES

In addition to the site-specific environmental control measures detailed within the Environmental Risk Register (FM-HSE-P04-01), the mandatory control measures described below also apply to the project**.**

5.1. Waste Management

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project-specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Client specific environmental and sustainability requirements associated with waste management shall be implemented throughout the duration of the project. Waste generated from site clearance, excavation, hard and soft landscaping, and general site activities shall be managed in accordance with the waste hierarchy, promoting waste prevention, reuse, recycling and recovery before disposal. Waste performance shall be monitored and reported throughout the duration of the works.

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Waste storage, handling and segregation	• Store wastes in areas away from surface / foul drains and watercourses • Segregate all construction wastes, at a minimum, into hazardous and non-hazardous waste streams • Segregate construction wastes into dry recyclables • Cover waste containers if there is a risk that wastes may be blown out or the wastes contained therein are water sensitive, e.g. plasterboard wastes • Use waste signage, i.e. labels that specify waste contents • Secure waste containers, (Note: On insecure sites or in areas where theft and vandalism may occur, skips should be lockable).	Yes
Off-site disposal of site waste streams	• Develop, implement and maintain a Site Waste Management Plan throughout the duration of the project • Use the GT Non-Hazardous Waste Transfer Note, (WTN), for the off-site disposal of all non-hazardous wastes, (FM-HSE-W01-02) • Use consignment notes for the off-site disposal of all hazardous wastes • Retain all WTNs for at least three years • Register the site with NRW if more than 500kgs / year of hazardous waste is to be sent for off-site disposal. Renew this registration on an annual basis, (Wales only) • Only use licensed waste carriers to transport wastes from site and obtain documentation to demonstrate registration • Obtain full copies of the Environmental Permits or Exemptions for the disposal locations of site waste streams • Periodically follow a waste vehicle to its destination, (refer to GN-HSE-W01-101), where: – The condition of the waste contractor's vehicle is poor, or – The waste contractor's waste paperwork is weak, or – A waste contractor uses a lower tier waste haulage company, or – A higher risk waste is being transported, e.g. asbestos or oily wastes – There is a suspicion that wastes may be taken to a non-licensed site • Contact the HS&E Advisor immediately if site wastes are not taken to a licensed waste disposal / recycling facility.	Yes
Reporting waste performance	• Report project waste performance on a quarterly basis, as a minimum, to Business Unit management to allow GT plc waste performance reports to be generated by the HS&S Department.	Yes

a. Reference should also be made to the Site Waste Management Plan that has been developed for this project.

5.2. Water Management

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers, and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project-specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Client specific environmental and sustainability requirements associated with waste management shall be implemented throughout the duration of the project. Waste generated from site clearance, excavation, hard and soft landscaping, and general site activities shall be managed in accordance with the waste hierarchy, promoting waste prevention, reuse, recycling and recovery before disposal. Waste performance shall be monitored and reported throughout the duration of the works. Particular consideration shall be given to surface water drainage systems, silt management, fuel storage, refuelling operations, and concrete works, given the city centre nature of the project.

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Abstraction, impounding & dewatering	• Obtain an abstraction licence from the EA for the abstraction of more than 20m^3 of water / day from any controlled water – England and Wales only, (refer to **GN-HSE-W05-101**) • Obtain an abstraction licence if waters from dewatering activities are to be used, e.g. for dust suppression • Obtain an Impounding Licence from the EA prior to any impounding works • Ensure that the GT Permit-to-Pump system is used for all effluent pumping activities, (refer to **GN-HSE-W05-101**) • Ensure that a pump head rose is used to reduce the risk of harm to aquatic life • Ensure conformance to requirements of obtained licences / authorisations.	**No**
Discharges to surface water or groundwater	• Consult with the EA as to the need for an Environmental Permit for the discharge of effluent to surface waters prior to the discharge proceeding • Obtain an Environmental Permit for the discharge of effluent to surface waters if chemical dosing agents have been used, (e.g. coagulants and / or flocculants), as a means of treating silt laden effluent • Ensure that the GT Permit-to-Pump system is used for all effluent pumping activities, (refer to **GN-HSE-W05-101**) • Obtain permission to discharge silt laden waters to land from the landowner and consult with the EA prior to discharge • Ensure all effluent discharges from site cabins are directed into sewers, (with permission from the local water company), or holding tanks • Ensure conformance to requirements of obtained permits / authorisations.	**No**
Discharges to sewer	• Obtain a trade effluent discharge consent from the local water company or written permission from the sewer owner prior to the discharge of any trade effluent into a foul sewer • Ensure that the GT Permit-to-Pump system is used for all effluent pumping activities, (refer to **GN-HSE-W05-101**) • Ensure conformance to requirements of any obtained consent.	**No**
Works in, near or over water	• Obtain an Environmental Permit / Exemption from the EA for the construction of any structure in, over or under a main river, (refer to **GN-HSE-W05-101**) when: – Within 8m of the bank of a main river, or 16m if it is a tidal main river – Within 8m of any flood defence structure or culvert on a main river, or 16m on a tidal river, or where it is a sea defence structure • Obtain a Land Drainage / Ordinary Watercourse Consent from the Lead Local Flood Authority, (LLFA), for the construction of any structure in, over or under an ordinary watercourse, including the construction of dams, weirs, mills, channel diversions and culverts, (refer to **GN-HSE-W05-101**). • Give the EA at least seven working days' notice of any intention to temporarily or permanently divert the flow of a main river, carry out works over or within a main river channel, or commence operations in a main river channel • Give LLFAs at least seven working days' notice of any intention to temporarily or permanently divert the flow of an ordinary watercourse, carry out works over or within an ordinary watercourse or commence operations in an ordinary watercourse channel • Develop, communicate and implement a suitable, adequate and effective method statement, where any watercourse diversion is to be undertaken • Consult with the EA as to the need for an abstraction licence where over pumping operations are to be undertaken • Obtain formal approval from the EA prior to the use of any herbicide in or near a watercourse, (i.e. within 10m of a watercourse) • Plant and equipment entering or working alongside watercourses should be well maintained, clean and free from oil leaks • Prevent liquid / solid debris falling into a watercourse or onto an embankment during construction activities.	**No**

	• Ensure conformance to requirements of any obtained consent / approval.	
Works in tidal waters	• Consult with the Marine Management Organisation / EA, before any construction works commence in, near, under or over tidal waters to ensure that all appropriate consents are obtained.	**No**
Site drainage	• Develop and display a site drainage plan that identifies surface and foul water drainage systems and nearby controlled waters • Implement and maintain control measures to ensure site drainage does not contaminate drains or watercourses, e.g. cut-off ditches / silt fences • Provide toolbox talks to relevant personnel and contractors that effluent must not be poured down surface / foul water drains without permission.	**Yes**
Washing activities	• Conduct all washing and cleaning operations, (including the washing of vehicles and / or plant), in a designated area, which should be isolated from the surface water drainage systems and within hardstanding areas • Ensure no detergent contaminated wash down effluent is allowed to enter controlled waters unless permitted by the EA • Direct detergent contaminated wash down effluent via the foul sewer, after having gained permission from the Water Company, or ensure that it is contained for off-site disposal • Establish an impermeable concrete / mortar washout area at least 10m away from drains, surface waters or trees.	**Yes**
Monitoring	• Monitor the quality of watercourses potentially affected by site activities at least once per day and at agreed locations whilst construction operations are in progress, which may involve visual monitoring and / or physical, (e.g. pH, suspended solids, total organic carbon), sampling.	**Yes**

5.3. Ecological Management

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers, and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project-specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01). Ecological mitigation measures identified within the Preliminary Ecological Appraisal shall be implemented throughout the duration of the Works.

Client specific ecological and biodiversity requirements associated with the project shall be implemented throughout the duration of the works. Existing trees, planting areas and retained landscaped features shall be protected from construction activities. Ecological mitigation measures identified within the Preliminary Ecological Appraisal shall be communicated to site personnel through inductions, briefings and method statements. Particular consideration shall be given to nesting birds, commuting and foraging bats, west European hedgehogs and the protection of existing vegetation and urban trees throughout the construction phase.

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Works in protected areas	• Consult with Natural England and / or the local Planning Authority before works commence within a conservation area, e.g. Ramsar site, SAC, SPA, AONB, SSSI, NNR, ESA, NHA or a local conservation designation • Develop and submit a method statement to NE • Ensure a Phase 1 Habitat Survey has been conducted by a competent person, (e.g. qualified ecologist and / or arboriculturist), where necessary • Communicate control measures defined within the Habitat Survey to all staff and relevant sub-contractors • Provide information, (e.g. site induction / toolbox talks), to site personnel.	**No**

Protected species	• Ensure a Phase 1 Habitat Survey has been conducted by a competent person where the presence of protected ecological resources are known / suspected • Ensure an extended Phase 2 Habitat Survey is conducted by a competent person to assess the potential presence of protected fauna and / or flora, if required as a result of a Phase 1 Habitat Survey • Ensure protected faunal species surveys, (e.g. bat surveys), are conducted where their presence have been identified • Develop and implement a method statement, (that should be agreed with NE, for the management of protected species that includes all relevant recommendations made within ecological surveys • Obtain and fully implement the conditions of a European Protected Species Licence, i.e. Development Licence, if required • Phase all construction activities to ensure that proposed construction works avoid disturbance and / or damage to local ecological constraints • All site clearance works would be undertaken outside bird nesting season, (March to August inclusive), however, if works cannot be avoided during the nesting season an ecologist should supervise clearance works • Create a physical separation between construction operations and ecologically sensitive areas, e.g. fencing • Staff and subcontractors to report any protected flora / fauna discovered during construction to site management. Suspend all works within that area until authorised by an ecologist and site management • Provide information, (e.g. site induction / toolbox talks), to site personnel.	**Yes**
Tree & hedgerow protection	• Consult with the local planning authority to determine whether there are any TPOs in effect or whether trees are within a conservation area • Consult with the local planning authority to determine whether hedgerows are designated as an 'important' hedgerow • Ensure permission, (i.e. section 211 Notice / Tree Felling Licence), is obtained from the local planning authority / Forestry Commission / NRW for works to protected trees, e.g. tree surgery / felling and / or uprooting • Ensure a Tree Felling Licence is obtained from the Forestry Commission / NRW for the felling of more than $5m^3$ of non-protected trees • Ensure a Hedgerow Removal Notice is formally submitted to the local planning authority if the full or part removal of a hedgerow is required • Ensure a Phase 1 Habitat Survey has been conducted by a competent person, (e.g. qualified arboriculturist), where the presence of Tree Preservation Orders, (TPOs), / important hedgerows are known / suspected • Create a physical separation between construction operations and ecologically sensitive areas, e.g. fencing • Erect tree fencing to protect tree roots from construction activities, e.g. vehicle and / or plant use, installation of buried services and / or hard or soft surfaces • Provide information, (e.g. site induction / toolbox talks), to site personnel.	**Yes**
Invasive species	• Ensure a Phase 1 Habitat Survey has been conducted by a competent person where the presence of invasive species are known / suspected • Develop and implement a method statement for the management of invasive species as well as the disposal of invasive species wastes • Segregate invasive plant species locations from construction activities using durable fencing • Prevent the spread of invasive species through use of exclusion zones, boot wash facilities, wheel wash facilities etc. • Provide information, (e.g. site induction / toolbox talks), to site personnel.	**No**
Biodiversity Net Gain (BNG)	• Where there is a contractual requirement to achieve BNG, all recommendations stipulated within the biodiversity enhancement plan, developed by the pre-construction team, should be implemented.	**Yes**

5.4. Land Use Management

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Existing site surveys, ground investigation information, utility records and environmental information shall be reviewed and considered during the planning and execution of the works. Particular consideration shall be given to excavation activities, the management of made ground, potential contamination, utility infrastructure and the protection of retained landscape features within the site.

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Earthworks	• Develop an earthworks method statement where more than 50m^3 of spoil is to be excavated, refer to **STD-HSE-L03** • Avoid stripping soil following periods of heavy rainfall, (i.e. 5mm or more in a 24-hour period), when practicable • Keep areas of exposed ground to a practicable minimum • Segregate top and subsoil stockpiles • Handle soils carefully to minimise potential soil structure damage • Keep temporary stockpile heights as low as possible given space restrictions, e.g. 3m for topsoil and 4m for subsoil • Minimise run-off from stockpiles by light compaction and at an angle of no more than 45°, use of trenches and locating stockpiles away from drainage systems and watercourses • Protect stockpiles to minimise erosion losses and weed infestation if storage is to be longer than 6 months, (e.g. seeding or light compaction) • Protect stockpiles, (e.g. using berms), from flooding to avoid soil losses • Keep traffic off soil stockpiles, as much as possible, throughout the period of soil storage • Display clear and unambiguous signage to notify site personnel of the presence of different types of soil stockpiles • Avoid reinstating soils following periods of heavy rainfall, (i.e. 5mm or more in a 24-hour period), when practicable • Reinstate subsoil to maintain natural drainage patterns and avoid settlement • Reinstate topsoil by rendering into a loose and workable condition, as well as contouring to maintain the profile with the adjacent undisturbed area • Implement effective temporary and / or permanent soil erosion control measures, where necessary • Implement and maintain suitable, adequate and effective control measures to prevent run-off from stockpiles contaminating surface waters.	**Yes**
Contaminated land	• Cordon off areas of contamination from those that are uncontaminated • Develop and implement a remediation and / or disposal strategy for the management of contaminated land • Use competent contractors to implement any defined remediation and / or disposal strategy • Ensure all appropriate environmental permissions have been obtained where remediation, reuse and / or disposal of contaminated soils is to be undertaken, e.g. a Mobile Plant Licence or an Environmental Permit or Exemption, Waste Acceptance Criteria Testing has been undertaken on treated and / or untreated soils when disposing to landfill • Store contaminated soils in areas effectively demarcated from construction works and access / egress routes	**Yes**

	• Place soils on impermeable surfaces to prevent contamination of the underlying ground • Cover stockpiles to prevent windblown dust or the ingress of rainwater, where practicable • Implement controls for containing surface water run-off from contaminated stockpiles to prevent the uncontrolled discharge of contaminated effluent • Display clear and unambiguous signage to notify site personnel of the presence of contaminated soils.	

5.5. Nuisance Management

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Due to the location of the project within Manchester City Centre and the high levels of pedestrian activity, commercial premises and public transport infrastructure surrounding the site, particular consideration shall be given to the management of noise, vibration, dust, light and visual impacts arising from construction activities. Construction activities shall be planned and undertaken to minimise disruption to members of the public, neighbouring properties, businesses and transport operators.

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Noise and vibration controls	• Limit operation times to agreed working hours • Comply with Section 61 Agreements, (agreement with Local Authority to limit noise), if applicable • Notify and consult with all potentially affected parties that may be adversely affected from construction site noise either via verbal face to face communications or letter drops, (FM-HSE-C03-06) • Provide the local authority with advance notice of any works scheduled to take place outside agreed working hours • Assess, (e.g. via structural surveys), any and all structures that may be adversely impacted by vibration from vehicles or site activities • Select inherently quiet plant, where appropriate • Ensure all major compressors are 'sound reduced' models fitted with properly lined and sealed acoustic covers, where appropriate, that are kept closed whenever the machines are in use • Ensure all ancillary pneumatic percussive tools are fitted with mufflers or silencers of the type recommended by the manufacturers • Position ancillary plant, (e.g. crushers, screeners, generators, compressors, pumps), to reduce noise disturbance, i.e. furthest from receptors or behind noise barriers • Ensure subcontractors properly maintain and operate all plant according to manufacturer's recommendations so as to avoid causing excessive noise • Place vibrating equipment or plant on a base separate to that on which any sensitive structure is located, to reduce vibration impacts • Programme deliveries to arrive during daytime hours only • Take care when unloading vehicles to minimise noise • Route delivery vehicles so as to minimise any noise disturbance to local residents as well as reducing potential vibration impacts upon structures • Do not leave plant engines unnecessarily idling • Erect site hoarding, screens or barriers, as necessary and practicable, to shield noisy activities • Regularly monitor both on and off site to ensure minimal noise and vibration impacts upon local neighbours and wildlife.	**Yes**

Dust & odour controls	• Ensure all construction traffic follows specifically designated routes: – Implement speed limits for all vehicular movements – Cover all vehicles carrying loose materials – Dampen down haul roads, as necessary, to reduce dust emissions • Conduct all cutting and grinding operations in a manner to reduce the risk of dust migration, e.g. wet cutting techniques • Adopt dust suppression techniques, (e.g. water suppression), to reduce dust emissions from all crushing and screening activities • Locate stockpiles away from any sensitive receptors, where feasible • Seed / seal soil stockpiles to reduce the risk of dust migration • Regularly monitor both on and off site to ensure minimal dust and odour impacts upon local neighbours and wildlife.	**Yes**
Visual impact & light controls	• Erect site hoarding, screens or barriers, as necessary and practicable, to screen site activities • Choose and assemble site lighting to reduce light nuisance impacts to local neighbours and wildlife • Position lighting properly and direct light downwards to minimise impacts of light pollution on neighbours and wildlife • Switch off site lighting or minimise its use during periods of site inactivity • Keep site boundaries clean and tidy at all times • Maintain hoarding and / or fencing so as to be free of graffiti and non-project specific posters • Repair damaged or unsightly hoarding and / or fencing, as soon as possible.	**Yes**

5.6. Resource Efficiency and Management

The control measures summarised below apply to all personnel involved in the project, including Galliford Try staff, sub-contractors, suppliers and third parties, and cover all site activities. These measures shall be implemented alongside the project-specific controls outlined within the Environmental Risk Register (FM-HSE-P04-01). To support Galliford Try's commitment to carbon reduction and efficient resource use, opportunities to reduce energy consumption, waste generation, water use and embodied carbon shall be considered throughout the duration of the works.

The project shall seek to minimise resource consumption and carbon emissions through efficient design, procurement, logistics planning, waste reduction, responsible sourcing and the implementation of low carbon construction practices where reasonably practicable. The Project Team shall review opportunities to reduce environmental impacts during construction and support the objectives of the Low Carbon Action Plan.

To support Galliford Try's commitment to carbon reduction and efficient resource use, the following shall be implemented:

- Minimum Carbon Reporting - All project activities shall comply with Business Unit Minimum Carbon Reporting requirements as set out in STD-HSE-R02. Project carbon data shall be monitored and reported throughout the duration of the Piccadilly Gardens Redevelopment.
- Client Requirements - Comply with and retain evidence required for Manchester City Council environmental and sustainability targets, KPIs, planning requirements and any applicable certification scheme requirements. Evidence and reporting formats shall be maintained in accordance with project and client requirements.
- Green Site Setup - Site establishment, welfare facilities, plant selection, logistics arrangements and compound infrastructure shall be planned and delivered in accordance with the Green Site Set Up guidance contained within GN-HSE-R02-102, prioritising low-carbon and resource-efficient solutions wherever reasonably practicable.

Note: Director sign off is required for any solutions falling within the red (below minimum standard) category.

Site Setup Element	Summarise Solution Implemented	Green Site-Set-up Rating (Blue/ Green / Yellow/ Amber / Red)	Justification (if Amber/Red)
Power Supply	Mains supply	Green	

Site Setup Element	Summarise Solution Implemented	Green Site-Set-up Rating (Blue/ Green / Yellow/ Amber / Red)	Justification (if Amber/Red)
Site Power Management	Automatic shut down and energy monitoring	Green	
Waste Water	Managed welfare provider system	Green	
Construction Water Use	Mains supply and monitored use	Green	
Site Accommodation	Modular welfare units	Green	
Site Compound	Temporary compound within site boundary	Green	
Mobile Plant	Modern compliant plant and anti-idling controls	Green	
Handheld Tools	Battery powered where practicable	Green	
Reporting	Monthly environmental and carbon reporting	Green	
Commuting	Public transport encouraged due to city centre location	Green	

5.7. Sustainable Procurement

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Supplier assessment	• Ensure procurement teams / buyers undertake a supplier pre-qualification assessment that focuses on business management including environmental and social issues	Yes
Material ordering	• Avoid over-ordering of construction materials, i.e. material waste allowance rates should be kept ≤5%. • Ensure suppliers and subcontractors are contractually obliged to take-back construction / product wastes, e.g. pallets, packaging	Yes
Timber procurement	• Ensure all timber / timber products purchased for either temporary or permanent works are certified as legally and sustainably sourced, as defined by the UK Government Central Point of Expertise on Timber • Periodically conduct the following checks upon the delivery of timber / timber products to site: – Verify that FSC / PEFC Chain of Custody (CoC) certificate(s) provided are valid and genuine – Check the CoC certificate number matches the delivery note – Check that the relevant claim to each product supplied, (e.g. Mix 70%, 100%, Recycled Credit), is specified on the delivery note.	Yes
Aggregates procurement	• Maximise the use of cement replacement products in concrete mixes • Maximise the use of Recycled Concrete Aggregate (RCA).	Yes
Reduce packaging waste	• Minimise packaging waste on products supplied • Work with suppliers to implement packaging take back schemes.	Yes
Local suppliers	• Where possible, use local suppliers to reduce transportation costs and maintain a low carbon footprint.	Yes

5.8 Hazardous Materials Management

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Hazardous materials storage	• Develop a Spill Response Plan, (**FM-HSE-H04-01**) • Store hazardous materials more than 10m from a watercourse or surface water and / or foul water drainage gullies • Undertake COSHH assessment for hazardous materials, (FM-HSE-H02-01) • Segregate COSHH raw material stores and COSHH waste stores • Store hazardous material containers on secondary containment systems that will contain 110% of the contents of the largest container or 25% of the total, whichever is greater • Protect hazardous material containers so as to minimise the ingress of rainwater and secure them against accidental damage • Maintain and inspect hazardous material bunds and spill kits • Monitor hazardous material storage areas for leaks and signs of spillage • Provide site spill kits with instructions in areas of high risk, (refer to **GN-HSE-H04-101**) • Undertake spill response exercises / drills at a frequency as defined within the Spill Response Plan • Train staff in the use of spill kits and the correct disposal of used material.	**Yes**
Refuelling	• Undertake all plant refuelling on hardstanding or within defined areas that utilise drip trays / plant nappies • Provide secure valves and nozzles on fuel storage tanks / bowsers • Conduct refuelling activities at least 10m away from watercourses or surface / foul water drainage gullies • Locate spill kits in all appropriate locations, with instructions for use • Ensure training has been provided to those that conduct refuelling activities on correct refuelling procedures.	**Yes**

5.9 Raw Material Storage

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Storage of raw materials	• Store and handle all construction related materials so as to prevent: – Damage – Degradation of material quality characteristics – Contamination of the material and / or the external environment – Excessively long on-site storage periods – Loss through theft and vandalism • Conduct walk-through surveys, (using the Workplace Weekly HS&S Inspection (FM-HSE-M02-02)), to review construction related material handling and storage practices to ensure that material integrity and quality are being maintained and that their handling and storage is not contributing to an adverse environmental impact.	**Yes**

5.10 Aggregates

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Import of recycled aggregates	• Include the wording provided in **GN-HSE-R02-101**, section 1.1 in all purchase orders for recycled aggregates • Ensure that recycled aggregates have been produced in conformance with the Aggregates Quality Protocol: Production of Aggregates from Inert Wastes if more than 5,000 tonnes, (over a 3 year period), are to be imported. Retain documentation, as detailed within **GN-HSE-R02-101**, to verify conformance to the Aggregates Quality Protocol • Obtain a U1 Environmental Permit Exemption for the import of less than 5,000 tonnes, (over a 3 year period), of recycled aggregates that does not conform to the Aggregates Quality Protocol • Develop and / or obtain a Materials Management Plan, (compliant with the CL:AIRE Code of Practice), or an Environmental Permit for the import of more than 5,000 tonnes, (over a 3 year period), of recycled aggregates that does not conform to the Aggregates Quality Protocol • Reject all loads of delivered recycled aggregates that does not appear to meet the defined material specification, e.g. 6F2, 6F5, Type 1, Type 2 • Reject all loads of delivered recycled aggregates that contain more than 1% by mass of Class X materials, i.e. wood, plastic and / or metal • Reject all loads of delivered recycled aggregates that contain any asbestos materials or smells of hydrocarbons, e.g. oils / diesels.	**Yes**
Crushing inert aggregates	• Ensure that subcontractors' crushing plant has been issued with a PPC Permit issued by a Local Authority. Retain a copy of the issued PPC Permit within site documentation • Ensure that recycled aggregates are produced in conformance with the Aggregates Quality Protocol if more than 5,000 tonnes, (over a 3 year period), are to be produced. Retain documentation, as detailed within **GN-HSE-R02-101**, to verify conformance to the Aggregates Quality Protocol • Obtain an Environmental Permit if more than 5,000 tonnes, (over a 3 year period), of aggregates / soils are to be screened on-site • Obtain a T5 Environmental Permit Exemption if less than 5,000 tonnes, (over a 3 year period), of aggregates / soils are to be screened on-site • Obtain a U1 Environmental Permit Exemption for the use of less than 5,000 tonnes, (over a 3 year period), of crushed recycled aggregates that does not conform to the Aggregates Quality Protocol • Develop and / or obtain a Materials Management Plan, (compliant with the CL:AIRE Code of Practice), or an Environmental Permit for the use of more than 5,000 tonnes, (over a 3 year period), of recycled aggregates that does not conform to the Aggregates Quality Protocol.	**No**

5.11 Soils

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Import of soils	• Obtain documentation from the supplier, irrespective of whether the topsoil is premium, general purpose or economy grade, to verify that the topsoil satisfies the requirements of BS 3882 • Obtain a U1 Environmental Permit Exemption for the use of less than 1,000 tonnes, (over a 3 year period), of waste soils • Develop and / or obtain a Materials Management Plan, (compliant with the CL:AIRE Code of Practice), or an Environmental Permit for the import and use of more than 1,000 tonnes, (over a 3 year period) of waste soils.	**Yes**
Export of soils	• Ensure that a Materials Management Plan, (compliant with the CL:AIRE Code of Practice), is developed or an Environmental Permit is obtained for the export and use of more than 1,000 tonnes, (over a 3 year period), of waste soils • Ensure all waste Duty of Care legislation is complied with in relation to the transport and disposal of waste soils, (refer to Section 5.1).	**Yes**

5.12 Cultural Heritage Management

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Earthworks	• Consult with the local planning authority and / or Historic England, (HE), where relevant, before works commence in areas of known or suspected cultural heritage assets, e.g. archaeology, listed buildings • Develop and submit a method statement to HE for works that may impact known or suspected cultural heritage assets • Install effective segregation around known or suspected cultural heritage assets from construction activities • Erect signage to notify project personnel of the presence of known or suspected cultural heritage assets • Ensure an archaeological Watching Brief is present to monitor construction activities, (e.g. topsoil stripping, excavations), in areas of known or suspected cultural heritage assets • Use toothless buckets, when a Watching Brief is present, to remove topsoil in areas of known or suspected cultural heritage assets • Suspend all construction related works, in the immediate vicinity, if a suspected cultural heritage asset is identified • Report the identification of any cultural heritage asset to the local planning authority • Report and record any damage cultural heritage assets • Provide information, (e.g. site induction / toolbox talks) to site personnel.	**Yes**
Works on or near Cultural Heritage Assets	• Consult with the local planning authority prior to any demolition works within a conservation area • Obtain Listed Buildings Consent from the local planning authority for any works to a Listed Building • Ensure construction designs are sensitive to the presence of known cultural heritage assets • Conduct structural surveys before construction activities commence to ensure any vibration impacts do not damage known cultural assets • Report and record any damage cultural heritage assets • Provide information, (e.g. site induction / toolbox talks) to site personnel.	**Yes**

5.13 Traffic Management

The environmental control measures defined below apply to all personnel including Galliford Try staff, sub-contractors, suppliers and third parties, and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined within the Environmental Risk Action Plan (FM-HSE-P04-01).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Use of public, temporary & permanent haul roads	• Develop and implement a Traffic Management Plan in accordance with the requirements of **STD-HSE-S01** • Identify local receptors that may be adversely impacted by traffic related nuisance complaints, (e.g. noise, congestion and visual) • Establish and maintain contact with local residents and other potentially affected parties prior to the commencement of, and during, construction works in order to avoid any potential traffic nuisance related complaints • Ensure all construction related traffic uses agreed access points, as defined within the Traffic Management Plan • Ensure contractor Heavy Goods Vehicles are in good working order and hold a valid MOT certificate • Ensure all vehicles carrying loose material are covered • Obtain permission from the owner of street furniture, (e.g. local authority or Local Highway Authority), prior to attaching directional signage • Install hardstanding to reduce mud transfer onto public roads • Use wheel wash facilities / road sweepers, where appropriate, to keep public roads clear of dust and mud • Ensure all material suppliers adhere to agreed working hours in relation to material deliveries • Ensure all vehicles adhere to the site speed limits.	**Yes**

6 PROJECT ENVIRONMENTAL OBJECTIVES & TARGETS

The Project Manager, with the assistance of the HS&E Advisor, has considered the identified project environmental risks, client environmental requirements, ecological constraints, statutory obligations and sustainability objectives associated with the project and has defined the following environmental objectives and targets. Progress against these objectives shall be monitored and reviewed throughout the duration of the works.

6.1 Project Environmental Objectives and Targets

The Project Manager, or their nominated representative, together with the HS&E Advisor, shall review progress against the project environmental objectives and targets on a monthly basis during the 4-week planning meeting. The review will assess performance, identify opportunities for improvement, and ensure that appropriate actions are implemented to achieve the project's environmental commitments.

	OBJECTIVE	MEANS OF MEASUREMENT	TARGET	RESPONSIBILITY	COMPLETION DATE
1	Prevent environmental incidents and pollution events throughout the Works	Environmental inspections, audits and incident reporting	Zero major environmental incidents	Project Manager	Project Completion
2	Minimise waste sent to landfill	Waste transfer records and monthly waste reporting	Maximise reuse and recycling of project waste streams	Project Manager / Waste Champion	Project Completion

3	Protect existing trees, planting and ecological features	Site inspections and environmental audits	Zero unauthorised damage to retained ecological features	Project Team	Project Completion
4	Minimise nuisance impacts on neighbouring businesses, transport operators and members of the public	Complaints register and environmental inspections	Zero substantiated environmental complaints	Project Manager	Project Completion
5	Reduce carbon emissions and resource consumption	Carbon reporting and Low Carbon Action Plan reviews	Compliance with Business Unit Minimum Carbon Reporting requirements	Low Carbon Champion	Project Completion

6.2 Project Incentive Scheme

The project shall encourage the pro-active reporting of environmental observations, near misses and improvement opportunities through the Galliford Try reporting systems. Positive environmental behaviours, pollution prevention initiatives, waste reduction measures, biodiversity enhancements and carbon reduction initiatives may be recognised through project reward and recognition arrangements. Project environmental performance shall be promoted through briefings, toolbox talks, site communications and monthly project reviews.

7 ROLES AND RESPONSIBILITIES

Key project environmental roles and responsibilities are provided in Appendix 1. The Project Team, sub-contractors and suppliers shall cooperate to ensure that environmental risks are effectively managed and that the requirements of this Project Environmental Plan are implemented throughout the duration of the works.

8 SUB-CONTRACTOR MANAGEMENT

The project will engage various sub-contractors to undertake construction-related activities associated with the project. These sub-contractors shall be responsible for carrying out all works in accordance with:

- Relevant environmental legislation and recognised industry best practice.
- The requirements of this CEMP and Galliford Try's Environmental Standards.
- Contractual environmental requirements, including Client, planning and project-specific requirements.
- Approved risk assessments, method statements and environmental control measures.

Sub-contractors shall develop suitable, sufficient and effective method statements that clearly identify the environmental risks associated with their activities and the control measures to be implemented to prevent pollution and minimise environmental impacts. No works shall commence until the relevant documentation has been reviewed and accepted by the Project Management Team.

Sub-contractors shall provide competent supervision, appropriate training and sufficient resources to ensure compliance with environmental requirements throughout the duration of their works.

Environmental performance shall be monitored through inspections, audits, Site Safety and Environmental Reviews (SSERs), site briefings and regular engagement with subcontractors. Where deficiencies are identified, corrective actions shall be implemented and monitored to completion.

Particular attention shall be given to the management of waste, dust, noise, vibration, pollution prevention, protection of existing trees and landscaping, and the management of activities affecting members of the public and surrounding stakeholders due to the city centre location of the project.

9 COMMUNICATION AND LIAISON

Effective communication and liaison are essential to the successful environmental management of the project. The Project Manager, with support from the HS&E Advisor, shall ensure that relevant environmental information is communicated to the Client, project team, sub-contractors, suppliers, regulatory bodies, stakeholders and members of the public as appropriate throughout the works.

9.1 Communication with Client Representatives

Environmental information shall be communicated to Manchester City Council and other relevant client representatives through project progress meetings, environmental reporting, design coordination meetings, inspections and site visits.

9.2 Communication with Suppliers and Subcontractors

During the tender, procurement and pre-start process, suppliers and sub-contractors shall be made aware of the environmental requirements applicable to the project. Environmental information shall be communicated through pre-start meetings, inductions, toolbox talks, briefings, method statement reviews and regular site coordination meetings. Relevant environmental documentation, including this Project Environmental Plan, shall be made available to those undertaking the works.

9.3 Communication with the Public

The Project Manager, or their nominated representative, shall liaise with local businesses, transport operators, stakeholders and members of the public throughout the duration of the project as required. Due to the city centre location and significant public interface associated with Piccadilly Gardens, construction activities shall be planned to minimise disruption arising from noise, dust, traffic movements and access restrictions. Where necessary, advance notice of disruptive works shall be communicated through stakeholder notifications, meetings, signage, letter drops or other appropriate means.

9.4 Communication with External Parties

Environmental communications shall be conducted, where required, with:

- Manchester City Council.
- Environment Agency.
- United Utilities.
- Utility providers and statutory undertakers.
- Emergency services.
- Adjacent landowners, businesses and stakeholders.
- Other regulatory bodies as required.

The purpose of maintaining proactive communication with external parties is to ensure compliance with statutory, contractual and project-specific environmental requirements throughout the duration of the works.

10 MANAGING COMPLAINTS

The Project Manager shall ensure that all environmentally related complaints are recorded and managed in accordance with Galliford Try procedures. Environmental complaints may include issues relating to noise, dust, vibration, traffic management, lighting, waste management, pollution incidents, visual impact or any other environmental effect arising from the Works.

All environmental complaints shall be investigated promptly by the Project Manager, with support from the HS&E Advisor where required, to determine the cause of the complaint and identify appropriate corrective and preventative actions.

Due to the city centre location of the project, particular consideration shall be given to complaints received from local businesses, transport operators, stakeholders, neighbouring properties and members of the public.

The outcome of complaint investigations and any associated actions shall be communicated to the relevant parties and recorded within the project management system. Complaint trends shall be reviewed periodically to identify opportunities for continual improvement in environmental performance.

11 ENVIRONMENTAL INCIDENTS AND EMERGENCY RESPONSE

All environmental incidents shall be reported immediately to the Project Manager, who shall ensure that the appropriate management team, Client representatives and regulatory authorities are notified where required. Environmental incidents shall be classified, investigated and managed in accordance with Galliford Try procedures.

Environmental incidents relevant to the project may include:

- Pollution of surface water drainage systems.
- Fuel, oil or chemical spills.
- Uncontrolled release of dust or debris.
- Damage to retained trees, planting or ecological features.
- Poor waste management practices.
- Discovery of contaminated materials.
- Discovery of archaeological remains or cultural heritage assets.
- Environmental complaints resulting from construction activities.
- Unauthorised discharge of water or construction effluent.

All environmental incidents, complaints and near misses shall be recorded within the relevant Galliford Try reporting systems. Investigations shall identify the root cause of the incident together with any corrective and preventative actions required to prevent recurrence.

In the event of a significant pollution incident, all works in the affected area shall cease immediately and action shall be taken to contain and minimise the impact of the incident. The Project Manager shall ensure that the appropriate emergency response arrangements are implemented and that relevant authorities are notified where required.

A Spill Response Plan (FM-HSE-H04-01) shall be developed and maintained for the project. Suitable spill response equipment shall be provided and maintained in locations identified through the project risk assessment process. Personnel involved in activities with a pollution risk shall be briefed in the use of spill control equipment and emergency response arrangements.

If archaeological remains, artefacts, protected species, nesting birds or previously unidentified ecological constraints are discovered during the works, activities in the immediate area shall cease and the Project Manager shall be informed immediately. Appropriate specialist advice shall be obtained before works recommence.

The Environment Agency 24-hour Incident Hotline shall be used where required to report pollution incidents affecting land, groundwater, surface water or drainage systems. Environment Agency Incident Hotline: 0800 80 70 60.

Environmental emergency arrangements shall be communicated through site inductions, toolbox talks, briefings and emergency exercises, and shall be reviewed periodically throughout the duration of the Works.

MAJOR ENVIRONMENTAL INCIDENTS	***Definition:***
	Major environmental consequences that cannot be immediately rectified or contained
	Widespread and/or irreversible environmental harm beyond the site boundary
	Regulator to exercise their legal duty to cease operations
	Likely to damage our reputation

SIGNIFICANT ENVIRONMENTAL INCIDENTS	***Definition:***
	Any release to land, water or air resulting in a breach of an environmental regulation
	A spill of a hazardous material that cannot be controlled or has entered, or could enter, a drain or watercourse
	Damage to protected flora, fauna or protected habitats and conservation areas
Reporting for both above incident categories: Should be notified, by the Project Manager, to the Business Unit Directors and the Regional Environmental Manager as soon as details are confirmed, but no later than one (1) hour after incident occurrence. Following contact with Business Unit Directors and the Regional Environmental Manager, the Environment Agency or local authority should be contacted, when necessary, by telephone as soon as practicable, but no later than one (1) hour after incident confirmed, (refer to contact details below).	

MINOR ENVIRONMENTAL INCIDENTS	***Definition:***
	Any emission of dust, odour, noise, vibration and / or light to the external environment, such that it results in a complaint from project and / or non-project personnel
	A spill of a hazardous material that can be controlled or has not entered, and cannot enter, a drain or watercourse
	Any action that has the potential to cause a negative visual impact, e.g. mud on the public highway, poor soil management that could result in poor agricultural or amenity reinstatement standards.
ENVIRONMENTAL NEAR MISS	***Definition:***
	A situation where no environmental consequences occur, but where:-
	A risk of environmental harm exists as a result of conditions on site
	A risk of environmental harm exists as a result of individuals actions
Reporting for both above incident categories: Should be reported by the Project Manager to Business Unit Directors and HS&E Advisor within 48 hours and logged in the ActiveSHEQ Database.	

ENVIRONMENTAL POSITIVE OBSERVATION	***Definition:***
	An environmental event that has affected construction progress but was not identified before works commenced, e.g. discovery of nesting birds, protected flora/fauna; archaeology, contamination land, fly-tipped waste. Note: this will not apply if preconstruction surveys/inspections were not conducted but, if had been conducted, would have identified the problems before construction works commenced.

The Senior Site Manager will, when necessary, report incidents to the Environment Agency (EA) via:	
• EA Local Area Office	03708 506 506
• EA 24-hour Emergency Hotline	0800 80 70 60

Adler and Allan Ltd. (Response Time: Within 4 hours) Membership Number: **C000002007**	**0800 592 827**

All environmental incidents, complaints and unexpected finds should be logged in the ActiveSHEQ database, investigated and closed out by the HS&E Advisor.

12 ENVIRONMENTAL TRAINING

Courses are run by Galliford Try covering various environmental issues, as defined in the Galliford Try HS&S Training Matrix. For site personnel, the site induction will be used to promote overall environmental awareness as well as employee and subcontractor environmental responsibilities. The site induction will be further enhanced through the delivery of a series of toolbox talks relevant to the activities being undertaken on the project.

The environmental toolbox talks that should be delivered on this project are as follows:

ENVIRONMENTAL TOOLBOX TALKS	
TBT-HSE-C04-201	Archaeology
TBT-HSE-E03-201	Tree Protection
TBT-HSE-E03-204	Bats
TBT-HSE-E03-210	Birds
TBT-HSE-H04-201	Spill Control
TBT-HSE-H04-202	Petrol, Diesel and Oils
TBT-HSE-N02-201	Dust and Air Quality
TBT-HSE-N02-202	Noise and Vibration
TBT-HSE-N02-203	Be a Good Neighbour
TBT-HSE-R02-201	Materials Management and Housekeeping
TBT-HSE-R02-202	Energy Conservation – Construction Site Good Practice
TBT-HSE-W01-201	Waste Management
TBT-HSE-W01-202	Storage of Waste
TBT-HSE-W01-203	Waste Segregation
TBT-HSE-W05-201	Water Pollution Prevention

The delivery of environmental toolbox talks shall be planned during the 4-week planning meeting held between the Project Manager, or their nominated representative, and the HS&E Advisor. Additional environmental briefings shall be delivered where changes to the works, environmental risks or site conditions require further communication.

13 ENVIRONMENTAL AUDITS AND INSPECTIONS

Continuous monitoring of environmental performance will take place through regular Site Safety and Environmental Reviews (SSERs), workplace inspections and management reviews. These reviews shall assess compliance with the requirements of the Environmental Management System, this Project Environmental Plan, approved method statements, statutory obligations and Client requirements.

Environmental inspections shall be undertaken by the Project Management Team to verify that environmental control measures remain effective and that environmental risks are being appropriately managed throughout the duration of the works. Particular attention shall be given to waste management, pollution prevention, ecology, housekeeping, dust, noise, vibration and protection of the surrounding environment.

Site Safety and Environmental Reviews (SSERs) shall be conducted by the HS&E Advisor, with any findings being communicated to the Project Manager. Appropriate corrective and remedial actions shall be implemented and monitored to completion.

Environmental performance information arising from inspections, audits and SSERs shall be reviewed periodically to identify trends, lessons learned and opportunities for continual improvement. Environmental findings and best practice shall be communicated to project personnel and subcontractors where appropriate.

Appendix 1 – Roles and Responsibilities

GALLIFORD TRY TEAM		
NAME / POSITION	**KEY ENVIRONMENTAL RESPONSIBILITIES**	**MOBILE NUMBER**
Sam Higgings Design Manager	• Ensure that designs are carried out in compliance with the relevant legislation, the GT Environmental Policy and Standards, guidelines, approved codes of practice and other requirements such as those specified by our clients • Ensure that regular design reviews and assessments are jointly undertaken with the design and operational staff, as appropriate • Ensure competency assessments are carried out where design consultants are employed.	07903 993 463
Adam Liu Project Manager	• Be aware of the environmental statutory requirements affecting site activities and seek further advice, if necessary • Ensure that all site environmental permissions are obtained and conformance with the conditions defined within these permissions • Define project specific environmental objectives / targets, refer to Section 6 • Ensure that environmental risk assessments are effectively monitored, reviewed and communicated • Organise and plan workplaces so work is conducted in accordance with GT Environmental Standards • Identify the environmental requirements within method statements and ensure that they are produced and reviewed on time • Identify method statements' required distribution, (e.g. foremen, supervisors, operatives), and ensure that they are followed and controlled, as appropriate • Ensure adequate supplies of environmental control equipment, (e.g. spill response equipment), are available and are appropriately used • Accompany all Regulatory enforcement officers during any site visits • Ensure all new employees, contractors and visitors, including delivery drivers, are instructed on project specific environmental requirements • Ensure site specific environmental training needs are identified and training programmes are undertaken for all levels of site staff and contractors • Ensure all Supervisors and contractors are aware of their environmental responsibilities • Report any significant environmental incidents, disciplinary action or enforcing bodies' visits to the HS&E Advisor.	07801 552 227
TBC Site Supervisors	• Be aware of the environmental statutory requirements affecting operations and seek further advice, if necessary • Ensure all new employees, contractors and visitors, including delivery drivers, are instructed on project specific environmental requirements • Ensure that all relevant persons are briefed on the contents of environmental risk assessments / method statements, and monitor operatives, (including contractors), for compliance • Ensure that an adequate supply of environmental control equipment, (e.g. spill response equipment), is kept on the site and implement disciplinary procedures against any employee who abuses or does not make full use of this equipment, when required • In conjunction with the Project Manager, plan environmental standards into work activities • In conjunction with the Project Manager, discuss environmental matters with all supervisors, including contractors, on a regular basis	TBC

	• Ensure all GT inspections are carried out as prescribed in the Galliford Try HS&S management system • Make full use of the services of the HS&E Advisors and co-operate with them to achieve GTs Environmental Standards • Follow GT Environmental Standards and report any problems in achieving these standards to the Project Manager and HS&E Advisor • Ensure that the requirements of all environmental risk assessments are brought to the attention of all operatives involved, including contractors • Actively encourage employees to report environmental problems as soon as they are discovered or if they are anticipated in the future.	
Neil Scullion Regional HS&S Manager	• Liaise with Business Unit Managers on operational environmental issues • Assist project management to ensure that projects meet GT's Environmental Standards • Ensure the collation of environmental performance information, as provided by workplace management • Where working practices are observed that pose a significant environmental risk, ensure that, where possible, the activity is stopped; inform site and Business Unit management immediately; provide appropriate support, advice and assistance in identifying and implementing the necessary remedial actions • Ensure that the relevant manager is advised if operations are not achieving GT's Environmental Standards, and further advise the Operations Director, Business Unit Managing Director and Group HS&S Director, as appropriate • Assist Business Units in the environmental performance management of contractors • Ensure that significant environmental incidents are reported promptly to the Business Unit Directors, Group HS&S Director and regulators, as appropriate • Investigate all environmental incidents as required by GT's Environmental Standards and make known and discuss any significant findings / recommendations within the Business, as appropriate • In conjunction with the operational staff, identify areas / operations that require specific environmental improvement and assist in the organising or undertaking of such improvements, as appropriate • Provide feedback to the Regional Environmental Manager on the effectiveness of the Galliford Try HS&S management systems and any improvements necessary • Assist HS&S Director and Environmental Manager in maintaining high corporate environmental management standards across the Group.	07701 734 685
Duncan Healey Regional Environmental Manager	• Where working practices are observed that pose a significant environmental risk, ensure that, where possible, the activity is stopped; inform site and Business Unit management immediately; provide appropriate support, advice and assistance in identifying and implementing the necessary remedial actions • Provide specialist environmental input to operational staff through advice, guidance and support, e.g. on environmental legislation and industry best environmental practice • Provide detailed support / guidance in the planning stages of a new project, e.g. review the adequacy of environmental risk assessments • Liaise with Business Unit Managers on operational environmental issues. • Provide information in the form of instructions, Guidance Notes, Codes of Practice, as appropriate, and ensure operational staff are provided with Galliford Try communications on effective environmental working practices and alerts	07902 771 287

	• Assist operational staff in the review of environmentally high-risk contractors' method statements, provide appropriate assistance in assessing other environmentally related method statements, and monitor the implementation of the same in the workplace, as appropriate • Ensure that the relevant manager is advised if operations are not achieving GT's environmental standards, and further advise the Operations Director, Business Unit Managing Director and Group HS&S Director, as appropriate • Assist project management through advice, information, training and encouragement, as appropriate, to ensure that projects continually meet Galliford Try environmental standards • Promote involvement in environmental management of all operational staff by discussion, briefings, training sessions and effective communication • Assist in the investigation of all environmental incidents, as required by GTs Environmental Standards, and make known and discuss any significant findings / recommendations • Ensure that significant environmental incidents are reported promptly to the Business Unit Directors, Group HS&S Director and regulators, as appropriate • Ensure communication with the regulators regarding all relevant environmental inspections and incidents • In conjunction with the operational staff, identify areas / operations that require specific environmental improvement and assist in the organising or undertaking of such improvements, as appropriate.	
Lee Bulman HS&E Advisor	• Where working practices are observed that pose a significant environmental risk, ensure that, where possible, the activity is stopped; inform site and Business Unit management immediately; provide appropriate support, advice and assistance in identifying and implementing the necessary remedial actions • Liaise with Business Unit Managers on operational environmental issues • Provide detailed support / guidance in the planning stages of a new project, e.g. preparing the project environmental plans • Provide information in the form of instructions, Guidance Notes, Codes of Practice, as appropriate, and ensure operational staff are provided with Galliford Try communications on effective environmental working practices and alerts • Collate environmental information, as provided by workplace management, for monthly reports • Assist operational staff in the review of environmentally high risk contractors' method statements, provide appropriate assistance in assessing other environmentally related method statements, and monitor the implementation of the same in the workplace, as appropriate • Ensure that the relevant manager is advised if operations are not achieving GT's environmental standards, and further advise the Operations Director, Business Unit Managing Director and Group HS&S Director, as appropriate • Assist project management through advice, information, training and encouragement as appropriate to ensure that projects continually meet GT's environmental standards • Promote involvement in environmental management of all operational staff by discussion, briefings, training sessions and effective communication • Ensure induction instructions are reviewed regularly for relevance to current operations and ensure that they are being effectively communicated • Ensure that all staff, including office-based personnel, receive appropriate environmental training and instruction • Monitor the Business Units to ensure that all staff, including office-based personnel, receive appropriate environmental training and instructions	07595 762 047

	• Assist Business Units in the environmental performance management of contractors • Ensure that significant environmental incidents are reported promptly to the Business Unit Directors, Group HS&S Director and regulators, as appropriate • Assist in the investigation of all environmental incidents as required by Galliford Try Environmental Standards and make known and discuss any significant findings / recommendations • Ensure communication with regulators regarding all relevant environmental inspections and incidents • Carry out environmental inspections at all workplaces on a regular basis, as appropriate, to ensure compliance with the GT Environmental Policy and Standards • In conjunction with the operational staff, identify areas / operations that require specific environmental improvement and assist in the organising or undertaking of such improvements, as appropriate • Provide feedback to the Environmental Manager on the effectiveness of the HS&S management system and any improvements necessary.	
TBC Waste Champion	• Drive waste performance improvement including onsite materials and waste management practices • Verify the validity of disposal site permits, licenses and / or exemptions. • Ensure that the Galliford Try waste transfer note, (FM-HSE-W01-02), is completed in full for all non-hazardous waste streams removed from site for reuse, recycling and / or disposal • Ensure that hazardous waste consignment notes are fully completed for hazardous waste streams removed from site.	TBC
TBC Spill Responders	• Ensure spill response equipment is available and well maintained • Respond to any spill incident that occurs onsite if it is safe to do so • Complete an Environmental Incident Report following any spill incident and ensure the incident is recorded within the ActivSHEQ database.	TBC
TBC Project Low Carbon Champion	• Promote adoption of low carbon principles in delivery including Avoid (evaluate the basic need); Switch (pursue alternative solutions) and Improve (identify and adopt solutions and techniques that improve the use of resources) • Implement low carbon site setup (see Green Site Set up guidance on Galileo) • Support whole life carbon assessments through monitoring environmental aspects driving site carbon emissions (i.e. electricity use, on site fuel, transport of materials to site, water use, commuting and waste)	TBC

SPECIALIST SUBCONTRACTORS		
NAME / POSITION	**KEY ENVIRONMENTAL RESPONSIBILITIES**	**MOBILE NUMBER**
Adler & Allan Limited	• To provide specialist spill response services to the project in the event of a significant spill incident • To remove waste spill clean-up materials and to provide the site team with all waste duty of care paperwork associated with the disposal of waste spill clean-up materials.	0800 592 827
Civic Aisling Wallace	• Conduct Phase 1 Habitat Survey(s) where the presence of protected ecological resources are known / suspected • Conduct extended Phase 2 Habitat Survey(s) to assess the potential presence of protected fauna and / or flora, if required, as a result of a Phase 1 Habitat Survey • Conduct protected faunal species surveys where their presence has been identified	07565 802 554

	• Develop / review method statement(s) for the management of protected species that includes all relevant recommendations made within ecological surveys • Liaise with ecological regulatory bodies to ensure the suitability of method statements • Obtain and fully implement the conditions of a European Protected Species Licence, i.e. Development Licence, if required • Implement, with the assistance of the site team, all physical and management controls, defined with method statements and licences, to protect known flora / fauna • Monitor site works to assure conformance with method statements and / or licences • Regularly discuss progress and issues with the Project Manager, or their nominated representative.	
Civic Katie Fletcher	• Develop and submit a method statement to regulatory bodies for works that may impact known or suspected cultural heritage assets • Obtain, in conjunction with the Project Manager, all relevant regulatory permissions • Implement, with the assistance of the site team, all physical and management controls, defined with method statements and licences, to protect known or suspected cultural heritage assets from construction activities • Conduct an archaeological Watching Brief to monitor construction activities in areas of known or suspected cultural heritage assets • Report the identification of any cultural heritage asset to the relevant regulatory body • Recommend site works be suspended if cultural heritage assets are identified • Regularly discuss progress and issues with the Project Manager, or their nominated representative.	07375 715 607
TBC Tree Surgeon	• Conduct tree felling / surgery works as per the scope of contract • Ensure permission, (i.e. section 211 Notice / Tree Felling Licence), is in place for works to protected trees; otherwise, do not proceed with works. • Ensure a Tree Felling Licence is in place for the felling of more than $5m^3$ of non-protected trees; otherwise, do not proceed with works. • Regularly discuss progress and issues with the Project Manager, or their nominated representative.	TBC
Waste Contractors	• Refer to the Site Waste Management Plan, (SWMP).	See SWMP