

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

GUIDANCE

1 Introduction

Purpose and Scope

The purpose of the Construction Environmental Management Plan (CEMP) is to develop, maintain, implement, monitor and improve environmental control procedures in accordance with the relevant legal and regulatory requirements, contract specification and the Tilbury Douglas' Integrated Business Management System (BMS) which complies with ISO 14001:2015. In particular, this CEMP is designed to support Tilbury Douglas' BMS processes:

- Environmental Impact Assessment and Emergency Response
- Environmental Site Controls
- Waste Management
- Procurement of Timber / Timber Products
- Waste Carrier / Skip Company Management

The CEMP can be initiated at Tender or preconstruction phase and is applicable to all site personnel throughout the construction phase. It establishes a set of site specific environmental actions which identify the environmental impacts and detail environmental management requirements in order to mitigate impacts as identified by the client and our risk assessment process.

1.2 Objectives

The CEMP has the following objectives to assist in achieving Tilbury Douglas' identified responsibilities to our stakeholders; customers, society, people and shareholders:

- To ensure Tilbury Douglas' Environmental Policy is being implemented on site.
- To provide an effective environmental management system.
- To assist us to achieve our Environmental objectives.
- To comply with relevant legislation and contractual requirements.
- To ensure that environmental risks are effectively identified, managed or mitigated.
- To promote best working practices on site.
- To minimise the impacts on all relevant stakeholders and sensitive receptors.
- To efficiently use natural resources, minimise wastage and maximise local resource.

1.3 Environmental Policy Statement

Tilbury Douglas' Environmental Policy statement commits us to protecting the natural environment, minimising use of resources and compliance with legal and other requirements. The Environmental Policy statement is provided to subcontractors as part of our subcontract documentation and communicate to all site personnel through display on the site Environmental noticeboard.

1.4 PPP People Planet Performance

We know we can do more to give back to the communities we serve, there is also a growing need to address our impact on the environment, with the construction industry producing two fifths of all emissions and over a third of total UK waste.

To address the issues, and to build a better future together with our suppliers, customers and stakeholders, our new sustainability strategy, PPP, will focus on three things:

- Supporting **people**, that's the communities and local economies where we work by training and helping local people into work, using local contractors and giving a day of our time to support a good cause
- Looking after our **planet** better by reducing our emissions and becoming carbon net zero by 2024. We'll buy from local suppliers, introduce a cleaner fleet and cut unnecessary waste through digital construction and modern methods of construction techniques
- Measuring our **performance** to make sure we're always improving what we do for the benefit of everyone.

Please see the hub for more information.

1.5 Environmental Standards and Legislation

A list of the legislative and regulatory requirements is collected in the Tilbury Douglas' Register of Aspects, Impacts, Legislation and Regulations which forms part of our integrated management system. The Register also contains guidance from other bodies such as CIRIA and regulators that are applicable for the environmental aspects and activities during the construction phase of the scheme. Tilbury Douglas has access to Technical Indices to maintain awareness of up to date standards.

1.6 Sustainability Code for Subcontractor

Our Sustainability Code for Subcontractors is issued electronically to all subcontractors as part of the procurement process to ensure they understand and implement Tilbury Douglas' Environmental and Sustainability policies. It details minimum working standards in relation to control of sustainability issues

1.7 Environmental Competence of Subcontractors

The environmental competence of Subcontractors is assessed by Tilbury Douglas' as part of our subcontractor selection process. This assessment includes consideration of factors including previous performance, environmental management capability to produce suitable and practical method statements and risk assessments.

2 Project Key Performance Indicators

As part of the development of this CEMP, we should establish site specific KPIs, taking into account client objectives, planning requirements, as well as our own Environmental Objectives.

3 Roles and Responsibilities

Project Roles and Responsibilities are determined through our Environmental Site Controls process and detailed in the Project Management Plan Responsibilities Matrix. Tilbury Douglas recognises the need for accountability and responsibility for environmental issues at all levels in our organisation. This includes the site staff and operatives (including sub-contractors), who are a key determinant of environmental performance, and the senior management who ensure that the works are undertaken in accordance with this plan.

3.1 Site Team

3.1.1 Project Manager

The Project Manager is ultimately responsible for the effective resourcing of staff to ensure that all of the environmental requirements identified in the CEMP are undertaken and also for ensuring that all construction planning and activities comply with the requirements of the CEMP.

3.1.2 Project Environmental Co-ordinator

The Environment Co-ordinator acts as the Environment Champion for the project and is responsible for the implementation of environmental management procedures, monitoring and liaison with regulators, including:

- Completion of project-specific environmental risk assessment(s) and Appendix A to this document, the Site Environmental Action Plan and ensuring actions are undertaken by the nominated parties (see paragraph 6)
- Obtaining relevant licences, permissions or consents and ensuring compliance.
- Advising the project staff and sub-contractors on environmental restrictions and mitigation necessary
- Monitoring performance (e.g. energy use, resource efficiency, near misses)
- Management of Considerate Constructors Scheme process
- Communication of environmental requirements
- Co-ordination of required environmental or sustainability training

3.1.3 Waste Manager

The project Waste Manager is responsible for:

Co-ordinating the Designing out Waste and Resource Efficiency programme.

Management of project Materials Management Plan and Site Waste Management Plan

Ensuring copies of all licences, certificates and exemptions are obtained and checked on the Environment Agency, Natural Resources Wales or SEPA website prior to waste leaving site

Undertaking waste transfer station audits if required

Communicating waste management controls to the workforce

Enforcing waste segregation arrangements

Monitoring subcontractor waste performance and taking improvement action if required

3.1.4 Biodiversity Champion

The project Biodiversity Champion is responsible for:

Ensuring all necessary ecology and habitat surveys have been carried out

Ensuring R180b, Site Biodiversity Action Plan, if raised at tender, is reviewed, understood and actioned as part of the Environmental Action Plan at Appendix A to this document

Ensuring all relevant licences have been obtained and are complied with

Liaising with project ecologist(s) and regulators

Ensuring staff receive appropriate training and adequate communications

Ensuring appropriate mitigation measures are implemented

Ensuring opportunities for increasing biodiversity are identified

3.1.5 Public Liaison Officer

The Public Liaison Officer is responsible for:

- Ensuring all relevant stakeholders are identified
- Ensuring appropriate communication methods are identified
- Ensuring stakeholders receive regular updates relating to project progress and/or changes as required
- Responding to external communications, including complaints, and taking action as required
- Maintaining the communications log
- All staff receives relevant training.

3.1.6 Timber Manager

The Timber Manager is responsible for:

- Ensuring only sustainable and legal timber and paper is used on site.
- Ensuring all Requisitions specify that timber must be from a legal and well managed source
- Obtaining Chain of Custody certificates for all timber suppliers
- Ensuring all subcontractors' timber complies to project requirements
- Ensuring all delivery notes for timber and timber products are checked for compliance
- Ensuring all staff receive appropriate training.

3.1.7 Engineers and Foreman

Engineers and foremen may be the first to be notified of environmental incidents and are responsible for implementing emergency responses. They are also responsible for undertaking environmental inspections, delivering toolbox talks, identifying on-site environmental issues, and implementing relevant controls.

3.1.8 All Personnel

All Tilbury Douglas' and sub-contract staff and operatives have a responsibility to ensure that environmental best practice is implemented on site, including complying with environmental controls, identifying potential environmental incidents and reporting any that do occur.

3.2 Project Environmental Specialists

A comprehensive team of environmental specialists will be required in order to fulfil the environmental requirements and commitments of the scheme. Although Environmental Specialists will be generally based off-site they will receive regular progress updates and be kept informed of any environmental issues and will assist and advice on specific environmental issues as relevant. The Project Environmental Specialists required for this scheme include:

3.3 Environmental Advisor

The Tilbury Douglas Environmental Advisor is responsible for supporting the project team to reduce and mitigate the environmental impact of the project, comply with legislation and contribute to environmental outcomes. Specifically this includes:

- Advising the project staff on best practice and environmental constraints
- Assisting the project team in obtaining all consents relevant to the project
- Liaising with relevant statutory bodies if required
- Providing mentoring, training and guidance on sustainability issues

4 Environmental Aspects and Control Procedures

There are many environmental aspects that have been considered during the development of the CEMP. The relevant control procedures to be used are shown in the table below. These procedures are live documents and are amended as legislation and good practice techniques dictate. Please note that this list is not exhaustive.

Environmental Aspect	Tilbury Douglas' Activity Standards (AS)
Depletion of finite resources	(AS) Materials Management
Emissions to air	(AS) Emissions To Air
Emissions to water	(AS) Avoiding Pollution
Emissions to land	(AS) Avoiding Pollution (AS) Contaminated Land
Effects on water availability	(AS) Energy and Water
Recover and regenerate resources	(AS) Waste
Effects on Ecology	(AS) Effects on Ecology
Effects on heritage	(AS) Effects on Heritage
Effects on stakeholders	(AS) Effects on Stakeholders
Effects on flood risk	(AS) Avoiding Pollution

4.1 Environmental Risk Management

The above environmental aspects must be assessed for significance using Tilbury Douglas' Environmental Activity Standards and advice from Environmental Advisor to produce an environmental risk register and action plan. This forms part of the construction risk register and will define specific intentions and objectives to ensure that continuous improvements in environmental performance are achieved.

4.2 Specialist Environmental Management Plans

Some projects may require additional specialist environmental management plans due to contractual or planning requirements or specific environmental risk. These are to be appended to the CEMP.

5 Consent Management

The Project Environmental Co-ordinator is responsible for obtaining relevant consents and licences required for the works to be undertaken as set out in Tilbury Douglas' Environmental Site Controls Process. The Environmental Co-ordinator will ensure that consent requirements are reflected in Method Statements, Method Statement briefings and Toolbox talks. A summary of the environmental consents which may be required for the project is detailed below:

Consent / Licence / Permission*	Issue	Regulating Body
European Protected Species Mitigation Licence	Ecology	Natural England / Scottish Natural Heritage / Natural Resources Wales
Assent to Work Within a SSSI	Ecology	Natural England / Scottish Natural Heritage / Natural Resources Wales
Environmental Permit (Discharge to surface or ground water)	Water quality	Environment Agency / SEPA / Natural Resources Wales
Environmental Permit for Flood Risk	Flooding / Water quality	Environment Agency / SEPA / Natural Resources Wales or Local Drainage Boards
Trade Effluent Discharge consent	Discharge to sewer	Water company
Waste Carriers Licences	Waste	Environment Agency / SEPA / Natural Resources Wales
Waste Exemption / Environmental Permit	Re-use of waste materials in construction	Environment Agency / SEPA / Natural Resources Wales
Mobile Plant Licence / Waste Exemption	Crushing of demolition materials	Environment Agency / SEPA / Natural Resources Wales
Planning Conditions	General	Local Authority
Listed building consent	Built heritage	Local Authority
Scheduled Ancient Monument consent	Built / cultural heritage	Historic England / Historic Scotland / Cadw
Consent to disturb archaeology	Built / cultural heritage	Local Authority or Historic England / Historic Scotland / Cadw

*Table lists some common examples but is not intended as a comprehensive list. For further advice contact your Environmental Advisor.

6 Environmental Action Plan

Actions are recorded onto the project Environmental Action Plan (App A), detailing owner(s) and timescales. Progress against actions is reviewed during project progress meetings.

7 Operational Controls

Detailed operational controls such as method statements will be written for each work activity, with reference to the environmental risk assessment. The method statements will outline the processes, tasks and relevant quality, health and safety and environmental controls. This will include any mitigation and controls identified during the environmental risk assessment. The method statement will be reviewed by the Tilbury Douglas' site team and will be briefed in full to site personnel involved with the task.

8 Internal Communications

Internal communication tools such as briefings, environmental alerts, posters, guides and information sheets are prepared by the Tilbury Douglas' environment team and displayed on noticeboards / briefed to site teams as relevant.

8.1. Environmental Training

To ensure that environmental issues are properly addressed and controlled during the construction works, they will be communicated using the following methods:

- Site Induction
- Method Statement Briefings
- Tool Box Talks

8.2. Induction Process

All personnel (both Tilbury Douglas' and sub-contract staff) working on the project must receive the environmental element of the site induction which covers basic environmental controls, specific controls relating to licence or consent conditions, and emergency response procedures. Personnel are not permitted to undertake any work on the site unless they have received the site induction.

8.3 Method Statement Briefings

All method statements, including identified environmental risks, controls and mitigation measures included in the environmental risk assessment are to be briefed out to the workforce prior to commencement of the work activity.

8.4 Tool Box Talks

Tool box talks are provided for delivery to the workforce including sub-contractors. Tilbury Douglas' have prepared a suite of 30 sustainability toolbox talks, covering a range of topics, including:

- General environmental information

- Specific topics such as working near to water, spill controls, waste management, topsoil management. Numerous toolbox talks are available for a wide range of protected species; where required, site specific toolbox talks will be developed.

Where possible, tool box talks will be delivered when seasonally appropriate (e.g. nesting birds in February). One environmental Toolbox Talk will be delivered on site each month.

8.5 Environmental Constraints Notecard

On environmentally sensitive sites, we can prepare and issue a site-specific Environmental Constraints Notecard (ECN) to all site personnel, usually at induction. The ECN is an A5 printed information booklet which highlights the sensitive nature of the location, likely environmental issues and emergency reporting procedures. Consult with your Environmental Advisor if this is required.

9 Environmental Monitoring, Audits and Reporting

9.1 Monitoring

9.1.1 Company Monitoring Arrangements

Tilbury Douglas' monitors against its project KPIs, as well as the following measures:

- Project waste production
- Project energy consumption (electricity and diesel usage)
- Sub-contractor and supplier location
- Considerate Constructors Scheme registration and scores

9.1.1 Project Monitoring Arrangements

Some projects will require specific monitoring for client, contractual, planning or consent purposes. These should be listed in the CEMP and included in the Action Plan. A monitoring sheet should be drafted and used for each parameter that is monitored or for all the parameters on one sheet.

9.1.3 Site Inspections

Work areas will be inspected weekly by members of the site team and during Safety and Environmental Advisor visits using the Safety and Environmental Inspection form (L4). Completed inspections are reviewed by the Project Manager with follow-up actions addressed and checked during subsequent inspections.

9.1.4 Site Waste Management Plan

Tilbury Douglas' is committed to continuing use of Site Waste Management Plans (SWMP) on its projects in order to implement the waste hierarchy. The SWMP is implemented on site in line with Tilbury Douglas' Waste Management process. The Waste Forecast is used to identify opportunities for elimination, re-use or recycling of materials prior to disposal. All wastes generated during the project will be tracked (ensuring legal and responsible transfer and disposal). Waste generation is recorded, with the site team reporting on results through the SWMP and monthly data collection.

9.2 Environmental Auditing

9.2.1 Auditing Arrangements

Audits take place following Tilbury Douglas' audit process. All audit report findings and considerations will be discussed at the following site environmental meeting. The site will maintain a register of all NCRs raised and will ensure close-out of every item is carried out within the prescribed time allowance.

9.2.2 Non Conformances

Non conformance with the control procedures required within the CEMP will be recorded on a Non Conformance Report (Q22b). Corrective actions will be implemented to ensure that future non-conformance does not occur.

10 Environmental Incidents

Tilbury Douglas' aims to achieve its Key Performance Indicator of zero site related environmental incidents. To ensure impacts are managed and minimised, and lessons learnt, any environmental incidents will be responded to and reported in accordance with Tilbury Douglas' Emergency Response process.

Where situations occur that could have resulted in an environmental incident, these are reported as environmental near misses using our internal near miss reporting procedure. Significant near misses and incidents will be reported to the client. All site personnel and subcontractors will be made aware of reporting requirements.

10.1 Emergency Planning

Emergency procedures and pollution responses are set out in the site-specific Emergency Procedures Plan and Fuel & Chemical Spillage Emergency Plan. Emergency plans will reference site-specific conditions such the proximity of watercourses or ecologically sensitive areas to the work area. In the event of an environmental incident, appropriate corrective and preventative actions will be proposed and implemented and the emergency plan will be reviewed and updated.

Additional Emergency plans may be required for specific Projects e.g. Flood emergency plan. These should be completed, appended to the CEMP and briefed to all site personnel.

10.2 Near Misses

An Environmental Near Miss is an unplanned and undesired event that could have resulted in harm or impact. Near misses are recorded on the project near miss log and communicated across the business for learning or process improvement.

10.3 Incident Investigation

In the event of a major environmental incident, the Project Manager supported by the Environmental Advisor will undertake appropriate environmental investigation using the Accident/Incident Investigation form and act on the findings accordingly.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

Contract Name: Luminous Oak

Contract Number: 100567

Contract Address: Fairfield Avenue, Boorley, Southampton, SO32 2UA

Customer/Client: Hampshire County Council

Contract Manager: Jamie Thomas

Project Manager: Jamie Thomas

Environmental Advisor: Shelton Chan

Local Authority Contact: TBC

Water Company Contact: TBC

Ecologist: Eco-support: Lewis Lakudzala

Document Ref	P13332-TDC-XX-XX-T-X-2010_Luminous Oak SEMH School - CEMP					
Revision	P01					
Phase (x in relevant box)	Tender		Preconstruction	x	Construction	
Completed by:	Jamie Thomas					
Date	23/12/2024					
Review date (max 3 months)	23/03/2024					

Note:

- All parts of the main CEMP document are mandatory, some appendices are optional
 - Please consult with your Environmental Advisor for assistance in completing the CEMP
- Please see CEMP guidance for further information about how to complete and use this document.

Communication

A copy of this CEMP should be available to all site personnel and issued to all sub contractors. The risk assessments and action plan must be reviewed for any relevance and therefore inclusion, in activity RAMS where appropriate.

The environmental policy must be posted on the site environmental notice board along with a copy of the PPP brochure, latest alerts and bulletins and the Emergency Plan (appendix I) .

Key Performance Indicators

KPIs and targets for this project are:

KPI	Target (value)	Reporting (Where)
<i>Examples:</i>		
<i>staff received Environmental Management training</i>	<i>100%</i>	<i>ilearn</i>
<i># site environmental inspections</i>	<i>4/year</i>	
<i>Local employment objectives</i>	<i>40%</i>	<i>PPP</i>
<i>% orders placed in local community</i>	<i>40%</i>	<i>PPP</i>

Key Project Environmental Risks (Risk register)

The table below defines the key construction environmental risk areas which have been highlighted for the construction phase of this Project:

Environmental Risk Assessments utilise environmental operational controls and detailed available environmental survey information and environmental reports. Appropriate site-specific mitigation measures and controls must be identified within the CEMP Action Plan (App A)

Topic	Issue
Designated Areas	No designated sites in the zone of influence
Arboriculture	There is one semi-mature Oak tree on site and a row of mature trees immediately outside of the northern boundary. There is also a defunct hedge row on the site which requires clearing. Protective fencing will be installed around the root zones of the trees.
Air Quality	
Cultural Heritage	N/A
Ecology	The hedgerow on site is likely to support Hazel Dormice with a hibernation nest found nearby. The removal of the dormouse habitat will be carried out prior to HCC/TD possession of site under an appropriate mitigation license by the main developer/house builder under the extant Outline planning permission. The northern boundary is a locally important and commuting resource for a range of bat species. The existing hedge and retained tree are likely to support nesting birds in the spring and summer. The hedge will be removed by the house builder before HCC/TC get possession of the site. The site does not support reptiles.
Geology & Soils	The geology of the site is clay overlain by made ground/topsoil
Waste	The majority of soils being removed from site will be classified as inert, a localised hotspot has already been dealt with previously by the house builder. Construction waste will be segregated into separate waste flows.
Nuisance	The site is surrounded by new build housing with some being occupied, regular updates and letters will be required to keep residents up to date with what is going on site.
Water	There is a high water table on the project, it is unlikely that there will be a full dewatering requirement rather localised pumping, we have been in contact with dewatering specialist who have stated dewatering will not be required. The EA will be contacted regarding disposal to a local surface water outlet.
Transport & travel	Parking will be made available on site to all, deliveries will be required to follow the agreed routes. Route plans will be sent to suppliers at issue of order.

Hazard Identification for Activities

Consider the project works and activities/packages involved in the construction of this project. Identify those activities that have potential environmental hazards and therefore need to include environmental mitigation within activity risk assessments and method statements.

	Activity/Aspect							
Hazard/Impact	Site set up	Demolition	trial holes	drainage	Excavations	Formwork	Concreting	Add additional Activities
Depletion of finite resources					x			
Emissions to air	x		x	x	x	x	x	
Emissions to water	x			x	x		x	
Emissions to land				x	x		x	
Effects on water availability								
Recover and regenerate resources				x	x		x	
Effects on ecology	x			x	x			
Restoration of land					x			
Effects on heritage								
Effects on Stakeholders	x			x	x			
Effects on flood risk								

Project Environmental Specialists

The Project Environmental Specialists required for this project are:

Specialist	Sub contractor	Contact details
Ecologist	Eco Support	Lewis Lakudzala

Specialist Environmental plans – additional to mandatory plans within appendices.

List any specialist environmental plans that are required, e.g. for planning or legislative requirement and append to CEMP

Contaminated land management plan/Remediation plan	N/A
Groundwater and dewatering management plan	TBC
Dust management plan	In PMP
Noise and Vibration management plan	N/A
Tree protection plan	AIA
Invasive species plan	N/A
Resource efficiency plan	N/A
Landscape plan	N/A

Client CEMP requirement

If a set format for the CEMP is required by the Client then additional documents can be appended to the CEMP, the CEMP remains a mandatory document for all Tilbury Douglas Projects

Consent Management

Identify in the table below any licences/consents/permits that are required for the project. Details to be included in the Action Plan (App A)

Consent / Licence / Permission*	Issue	Regulator (delete those not d
European Protected Species Mitigation Licence	Hazel Dormice in existing hedge - Main developer.	Natural England
Environmental Permit (Discharge to surface or ground water)	TBC - Requirement to discharge groundwater to local surface water outline TBC	Environment Agency
Trade Effluent Discharge consent	TBC - requirement for commissioning to be confirmed when chemicals agreed.	Water company
Waste Exemption / Environmental Permit	TBC - Waste exemption required for reuse of materials.	Environment Agency

*Table lists some common examples but is not intended as a comprehensive list.
For further advice, contact your Environmental Advisor.

Monitoring Requirements

List all site specific parameters that must be monitored and any threshold/limits set by regulator

Parameter	Method	Limit/Value	Regulator
Discharge volume	TBC	TBC	EA
Turbidity	TBC	TBC	EA
Mains water use	Meter	TBC	Thames Water

Site Inspection

This site has been determined by the Project Manager and Environmental Advisor to be **Medium** risk and will be visited every **4** weeks by an Environmental Advisor.

Specific activities on programme where more frequent site visits are required:

Vegetation Clearance May 2025
Topsoil Strip May 2025

Environmental Emergency plan

The following plans are required for this project:

- Fuel/Chemical spillage

Appendices

A	Environmental Action Plan	Mandatory
B	Materials Movement Plan	Mandatory if excavating or importing recycled aggregates, or soil onto site
C	Biodiversity Assessment	Mandatory
D	Water Management Plan	Mandatory
E	Green travel plan	Optional
F	Waste Forecast	Mandatory
G	Monitoring record sheet	Optional
H	Environmental Constraints Notecard	Optional
I	Emergency plan(s)	Mandatory

Tender and Preconstruction Environmental assessment

* All documents to be placed in Environmental Folder for inclusion in the CEMP (complete list of documents to be obtained at tender stage in Environmental Tender guidance)

* There are lots of comments on this form, please read for guidance

	Yes/No	Details	Comment
Magic maps search	Choose from		
Has an Ecological Survey been provided?	Yes	PEA	By HCC
Is survey less than 2 years old?	Yes		
If no Ecology survey, has Biodiversity Assessment been done?	Choose from		
Are further surveys recommended?	Choose from	Type:	
Is Site Clearance likely during the bird nesting season?	No	No tree removal required	
Have any protected species been identified? Is a Licence to Disturb Protected Wildlife required?	Identified	Licence Required?	
Bats	No	Choose from	
Badgers	No	Choose from	
Great Crested Newts	No	Choose from	
White Clawed Crayfish	No	Choose from	
Otters	No	Choose from	
Water Voles	No	Choose from	
Dormice	Yes	Yes	Removed by oth
Others	Choose from	Choose from	
Are there any Invasive species?	No	Type:	
Is Biodiversity Net Gain required?	Yes		
Are there any Archaeology issues?	No		
Conservation Area?	No	Type:	
Are there any Tree Protection Orders?	No		
Is the land contaminated? *	No	Management method	
Is a Crusher being used for demolition arisings?	No		
Are arisings from previous development left on site for	Yes		
Are we using any PFA, IBAA, steel slag etc?	No		
Environmental Permit (waste activity)	Yes	Waste Exemption	
CL:aire Code of Practice	Yes		
Environmental Permit (processing demolition arisings)	No		
Waste Exemption (low-risk activity)	Yes		
Is the site within 16m of a main river or ordinary Watercourse?	No	Main/ Ordinary	
Is there a Flood risk assessment? *	Yes	Flood zone	
Environmental Permit (Flood Risk activity Permit FRAP) required? - Main Rivers/Flood defences/Flood Plain	No		
Ordinary watercourse Consent required?	No		
Is there a risk of excessive water (> 20cm/day to be discharged)?	No		
Environmental Permit (discharge)	Yes		
Environmental Permit (abstraction)	No		
Environmental Permit (impoundment)	Choose from		
Trade Effluent Consent (discharge to foul sewer)	TBC	Commissioning	

Construction Environmental Management Plan (CEMP)

Action Plan

Risk Reference	Issue	Action Required	Authorisation (e.g. Permit/Consent) required (reference number when obtained)	Regulator/ external advisor (contact name)	Responsibility (company/individual)	Current Status (Not started/ ongoing/ complete)	Additional Information	Date Completed
1 Water	EA Discharge/ abstraction/ impoundment Permit	JT to confirm requirement	Abstraction not required, discharge maybe required for localised ground water	TBC	TD	Not started		
	Flood risk	N/A						
	Trade effluent consent	JT to confirm with specialist	likely only required for commissioning	TBC	Rentec	Not started		
	Water Management Plan	Yes - To be completed	N/A			Started		
	Emergency planning for Flooding	Completed						
2 Ecology	Protected Species on site	The existing hedge row on site where there is a risk of Hazel dormmice will be removed by others prior to TD occupation of site.	Consent will be required b other for these works					
3 Archaeology	Archaeology or working near historical structures	N/A						

Construction Environmental Management Plan (CEMP)

Action Plan

Risk Reference	Issue	Action Required	Authorisation (e.g. Permit/Consent) required (reference number when obtained)	Regulator/ external advisor (contact name)	Responsibility (company/individual)	Current Status (Not started/ ongoing/ complete)	Additional Information	Date Completed
4 Arboriculture (Trees)	Trees	One Oak tree on site to be protected, root zones to be protected of others on northern boundary.		Tilbury Douglas	Tilbury Douglas			
5 Biodiversity Enhancement	Every site to improve biodiversity by installing bat, bird bee boxes, bug hotel, hedgehog house, hibernacular etc							
	Biodiversity Nett Gain Required	Yes - To be completed						
6 Fuel/oil Pollution	Fuel and chemicals stored on site	TBC						
7 Concrete Washout	Concrete wash water generated on site is a potential pollutant	To be agreed with groundworkers, silt buster or similar			Ground worker	Not started		

Construction Environmental Management Plan (CEMP)

Action Plan

Risk Reference	Issue	Action Required	Authorisation (e.g. Permit/Consent) required (reference number when obtained)	Regulator/ external advisor (contact name)	Responsibility (company/individual)	Current Status (Not started/ ongoing/ complete)	Additional Information	Date Completed
8 Nuisance	Noise, vibration etc	Ongoing monitoring. Monitoring will be set up for pipling works			TD			
	Mud on road	The plan will be to tarmac the access road within the first few motnhs of the project to reduce the amount of debris being tracked on to roads.			TD			
	Dust	Tarmac to haul roads and damping down when required.			TD			
9 Excavated Material	Topsoil strip	Topsoil to be stored on site in agreed locations			TD			
	Subsoil	Removed from site						
	Materials Management Plan	PM to produce				Started		
10 Invasive Species	Invasive species	N/A						

Construction Environmental Management Plan (CEMP)
Action Plan

Risk Reference	Issue	Action Required	Authorisation (e.g. Permit/Consent) required (reference number when obtained)	Regulator/ external advisor (contact name)	Responsibility (company/individual)	Current Status (Not started/ ongoing/ complete)	Additional Information	Date Completed
11 Waste	Asbestos	N/A						
	Other Waste							
	Demolition material	N/A						
	Waste Management Plan					Started		

APPENDIX B (Internal*) Material Movement Plan

* This document does not take the place of a Claire Code of practice Material Management Plan, which may be required for contaminated material or movement of material between sites.
Live document will be updated during the project

[illegible]

APPENDIX C Biodiversity Assessment

	Yes/No
Has a Preliminary Ecological Assessment been done for this project (including site compound and access routes) within the last 2 years?	Yes
If a PEA has been done within the last 2 years ensure all actions are understood and transferred to the CEMP Action Plan. Ensure all recommended additional surveys have been completed or transferred to the project program and mitigation measures are transferred to the project program.	
If a PEA has not been done then complete the assessment below. The form should be completed by answering yes/no to each of the questions.	
On completion of this form, you will be aware of any species or features of the site where there is a risk to protected species. Any Yes responses are likely to require an Ecological survey/specialist assessment. If you are unsure if this is required after completing the form, then contact your Environmental Advisor for help. to decide if the level of biodiversity you have identified is such that an ecologist should be employed to carry out an ecological appraisal or if work can go ahead with care.	
To the best of your knowledge are any protected species likely to be present within the site or affected by the project? (Sources could be word of mouth from neighbours or client's staff or those working nearby)	Choose from
If yes, please list them and the source here:	

APPENDIX D: WATER MANAGEMENT PLAN

This is an operational document to:

- Identify where there are potential issues with water management and associated risks from regulatory action if they are not identified and controlled properly.
- Identify and explain how each of source of water will be treated to make it safe for disposal via an identified route
- Describe the monitoring regime and who is responsible for ensuring it is completed properly

Site is to hold:

- Full details, (RAMS, regulator and water authority Permits and consents), for each water management activity identified in the Table at Appendix 1 to this document
- Maintenance requirements of key equipment such as settlement tanks, pumps, silt bags
- General site management procedures in place to reduce contaminated water and pollutants reaching the water courses

Further guidance can be found in Activity Standard "Avoiding Pollution"

Insert:

- 1) Map of the site, showing;
 - a. Sources of waste water
 - b. Permanent water receptors ie rivers, drains, ditches, settlement lagoons etc,
 - c. Treatment and pumping locations
 - d. Discharge points
- 2) flood map showing extent of flood plain near site, from regulator online flood maps.

Flood Risk is Low/Medium/High (delete as applicable)

- 3) All communication with the regulator and Water Authority regarding water management, including requirement for flood defence consent, abstraction permit, discharge permit, trade effluent consent etc.

List every source of water resulting from site activities and how it will be handled and disposed of.

Sources of water	Contaminants eg silt, chemicals, pH, temperature, detergent*	Discharge Route and receptor	Treatment before discharge	Monitoring regime	Regulator permit or consent number/ reference
Site and compound area (run off)	Silt	To surface water	filter sediment	ongoing when required	RPS261
Accommodation waste	Foul	Pump	tanker from site		
Dewatering from excavation	Silt	To surface water	filter sediment	ongoing when	RPS261
Concrete wash water	High Ph	To surface water	TBC -		
Commissioning	TBC				

Appendix E Green Travel Plan

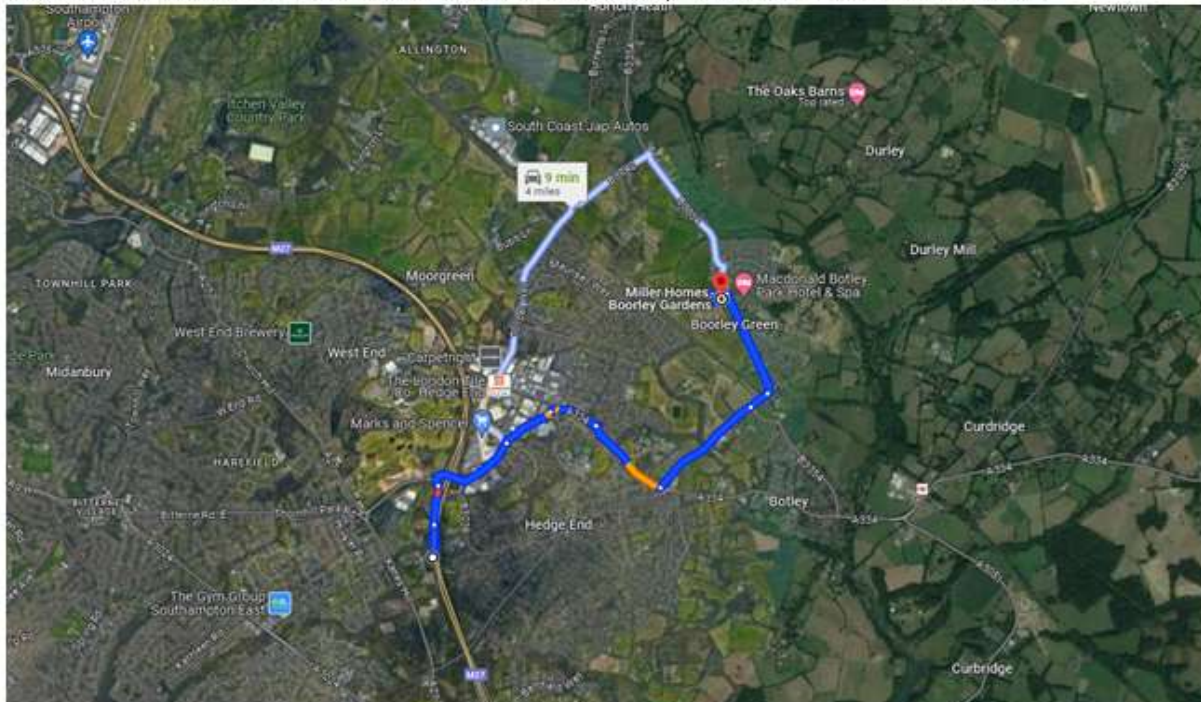
Green Travel and Construction Logistics Plan

Green travel and construction logistics plans are important management tools for project management teams. They act as a catalyst for reducing the negative effects (including congestion, noise and pollution) of construction work on vulnerable road users, local communities, residents, businesses and the environment.

Well-planned transport and delivery arrangements not only benefit the local environment but also save costs by encouraging efficient working practices and reducing vehicle journeys.

Route Planning

Access to site will be via the M27 and the A334, the route is identified below.



Fleet operators

All fleet operators of vehicles over 3.5t gross vehicle weight;

- to be accredited/ certified to an independent audit body, such as Fleet Operator Registration Scheme (FORS)
- to have in place a system for collision reporting for their vehicles
- to have driver licence checks
- to have in place a driver training and development programme specifically covering the safety of vulnerable road users (e.g. cyclists).

Vehicle standards

All vehicles over 3.5t gross vehicle weight;

- to be fitted with prominent signage that visually warns road users not to get too close to the vehicle

- to be fitted with side under-run protection
- will provide the driver with clear all-round visibility (can be achieved using blind-spot minimisation aids such as closed circuit television and class IV mirrors)
- to be fitted with enhanced audible means to warn other road users of a vehicle's left turn manoeuvre

It is important that all large deliveries are booked in with the site team to ensure there is space on site to receive them. A full time gateman will be put in place to manage any delivery vehicles.

The first stage of the project will be to construct the access road to the building to ensure there is a turning circle in place for large vehicles. This will prevent any idling on nearby roads. Please see site plan below:

Staff, subcontractor and visitor travel

To help reduce the number of journeys associated with the project subcontractors will be encouraged to car share and use minibuses, parking on site will be prioritised for those with multiple occupants. Parking on local roads will be prohibited.

Travel patterns will be monitored throughout the project and any improvements and additional initiatives will be implemented.

Parking constraints near site

Parking will be onsite, there will be no parking on nearby roads, parking will however be limited and allocated per contractor, we encourage car sharing where possible.

Specified or prohibited routes (either contractually stated or derived from an analysis of the options by the project team) are to be communicated to all visitors, subcontractors, and delivery and disposal companies.

Compliance with the stated requirements is to be monitored and action taken against individuals and organisations who are found to be disregarding the instructions.

APPENDIX F1 SITE WASTE MANAGEMENT PLAN (Forecast)

Note: Forecast is split by activity & nature of waste (Excavation, Construction, Demolition & Hazardous waste)

Activity / Type	Waste Stream	LOW Code	Planned Waste Management	Forecast Quantity (tonnes)	Planned Actions to reduce waste	Potential waste reduction (%)	Residual waste (tonnes)
Excavation	Soil & stones (inert)	17 05 04	Reuse on site	4000	Topsoil reused on site - existing stone carpark reused.	100	0
	Soil & stones (inert)	17 05 04	Reuse off site	10000	Reuse off site	100	0
	Soils & stones(inert)						0
	Other						0
	Other						0
	Other						0
	Other						0
Excavation total (t)				14000		Residual total (t)	0
Demolition	Concrete	17 01 01					0
	Bricks	17 02 02					0
	Tiles & ceramics	17 01 03					0
	Mixed concrete, bricks, tiles & ceramics (inert)	17 01 07					0
	Wood	17 02 01					0
	Glass	17 02 02					0
	Plastic	17 02 03					0
	Mixed metals	17 04 07					0
	Gypsum based construction materials (non-haz)	17 08 02					0
	Mixed demolition waste	17 09 04					0
							0
	Other						0
	Other						0
	Other						0
	Other						0
Demolition total (t)				0		Residual total (t)	0
Construction	Concrete	17 01 01					0
	Bricks	17 02 02					0
	Tiles & ceramics	17 01 03					0
	Mixed concrete, bricks, tiles & ceramics (inert)	17 01 07	Reuse off site	30		100	0
	Wood	17 02 01	Reuse off site	20		100	0
	Glass	17 02 02					0
	Plastic	17 02 03					0
	Mixed metals	17 04 07					0
	Gypsum based construction materials (non-haz)	17 08 02	Recycling off site	60		100	0
	Bituminous mixtures e.g. planings (non-haz)	17 03 02					0
	Mixed construction waste	17 09 04	Recycling off site	300		98	6
	Waste paint and varnish (non haz)	08 01 12					0
	Waste adhesives and sealants (non haz)	08 04 10					0
	Paper & cardboard packaging	15 01 01					0
	Plastic packaging	15 01 02					0
	Mixed packaging	15 01 06					0
	Alkaline batteries	16 06 04					0
	Canteen waste	20 01 08					0
	Street cleaning waste	20 03 03					0
	Septic tank sludge	20 03 04	Landfill	40			40
	Other						0
	Other						0
	Other						0
	Other						0
	Other						0
Construction total (t)				450		Residual total (t)	46
Hazardous	Mixed concrete, bricks, tiles & ceramics (haz)	17 01 06*					0
	Mixtures of wood, glass & plastic (haz)	17 02 04*					0
	Bituminous mixtures containing coal tar	17 03 01*					0
	Soil & stones (haz)	17 05 03*					0
	Insulation materials containing asbestos	17 06 01*					0
	Construction materials containing asbestos	17 06 05*					0
	Gypsum based construction materials (haz)	17 08 01*					0
	Mixed waste (contaminated / haz)	17 09 03*					0
	Waste paint and varnish (solvents / haz)	08 01 11*					0
	Waste adhesives and sealants (solvents / haz)	08 04 09*					0
	Mixed Waste Eletrical & Electronic Equipment	16 02 13*					0
	Lead batteries	16 06 01*					0
	Nickel batteries	16 06 02*					0
	Mercury batteries	16 06 03*					0
	Mixed batteries	20 01 33*					0
	Other						0
	Other						0
	Other						0
	Other						0
	Other						0
Harzardous total (t)				0		Residual total (t)	0
Total forecast (t)				14450		Residual forecast (t)	46

APPENDIX F2 SITE WASTE MANAGEMENT PLAN (Carriers & Destinations)

[illegible]

Licence Checkers: <https://www.gov.uk/find-registered-waste-carrier>

APPENDIX F3 SITE WASTE MANAGEMENT PLAN (Actual Waste Movements)

Movement	Waste	EWC Code	Waste Category	Day	Month	Year	Transfer Reference	Waste Carrier Name	Waste Management Destination	Tonnes	On site (%)		Off site (%)				Re-use on site (t)	Diversed from landfill (t)	Landfill Actual (t)
											Re-use	Recycl-ing	Re-use	Recycl-ing	Recovery	Landfill			
1	Concrete	17 01 01	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
2	Soil & stones (Inert)	17 05 04	Construction	1	June	2024		Select carrier	Select destination							100	0	0	0
3	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
4	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
5	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
6	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
7	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
8	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
9	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
10	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
11	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
12	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
13	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
14	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
15	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
16	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
17	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
18	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
19	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
20	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
21	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
22	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
23	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
24	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
25	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
26	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
27	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
28	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
29	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
30	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
31	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
32	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
33	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
34	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
35	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
36	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
37	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
38	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
39	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
40	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
41	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
42	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
43	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
44	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
45	Select waste type	#N/A	Category	Day	Month	Year		Select carrier	Select destination							100	0	0	0
Total construction waste										0						Totals	0	0	0

APPENDIX G Monitoring record sheets

Insert monitoring record sheets as required

Example for watercourse and pH monitoring below:

Example for watercourse and pH monitoring below:
These should be altered according to site requirements

Beck to be visually monitored for silt and oil prior to work commencing and 30 minutes after work has commenced.

Beck to be inspected again after work has ceased

Any visual discolouration or sheen on the watercourse to be reported to site management immediately and work to cease.

[illegible]

Example for pH monitoring of concrete washout:

Concrete washout water to be monitored following use

pH levels above 8 should be neutralised prior to reuse of the water and prior to discharge to foul drain/removal by tanker

[illegible]

APPENDIX H Ecological Constraints Briefing

Edit the below information to suit the site Ecological Constraints and include in site induction



The following information should be edited to make it specific to this project. The information should then be included in the site induction and briefed to the site team.

This leaflet explains:

- The kinds of wildlife that you could find whilst working on this project.
- What to do if you find any **legally protected species** whilst at work, to remain within the law.
- Penalties for breaking the law.



WHY CONSIDER WILDLIFE?

- Wildlife conservation
- Animal welfare
- Law (see below)
- Planning Conditions



LEGALLY PROTECTED SPECIES

Penalties of up to £5000 or 6 months in prison per offence (per animal).

Both the individual and / or the company can be held liable.



WORK METHODS

If you are given a strict method of work in relation to a Wildlife issue – stick to it.

It could be an offence if you breach a set works method – this could lead to all site works being stopped and prosecution.



IMPORTANT - INSTRUCTIONS 1-5:

If you think you have found a legally protected species on site:

- 1) Do not touch the animal, plant or nest.
- 2) Stop all work and machinery movement immediately, both where the find was made and on
- 3) Immediately contact Tilbury Douglas site supervisor:
They will contact their own Ecology team.
- Tell them what you saw and where it was.
- 4) Wait for instructions – **Do not resume work or move any machinery / equipment unless**
- 5) Fill in an Incident Report on Eco-Online. You will need to include:

Exactly what you saw
What it was doing (if possible)
What work you were doing
Specific location
Your name

DORMICE

Dormice have orange-brown fur, and a thick hairy tail. Including the tail, they are up to **15cm** long.

A dormouse nest is about grapefruit-size, usually woven from thin strips of bark and dry grass.

A nest could be found in bramble or other low thick scrub. **Do not look inside a suspected nest.**

If you see or find a dormouse or dormouse nest,
Follow instructions 1-5 immediately.



ALWAYS CONSIDER THE LOCAL ENVIRONMENT WHEN WORKING.

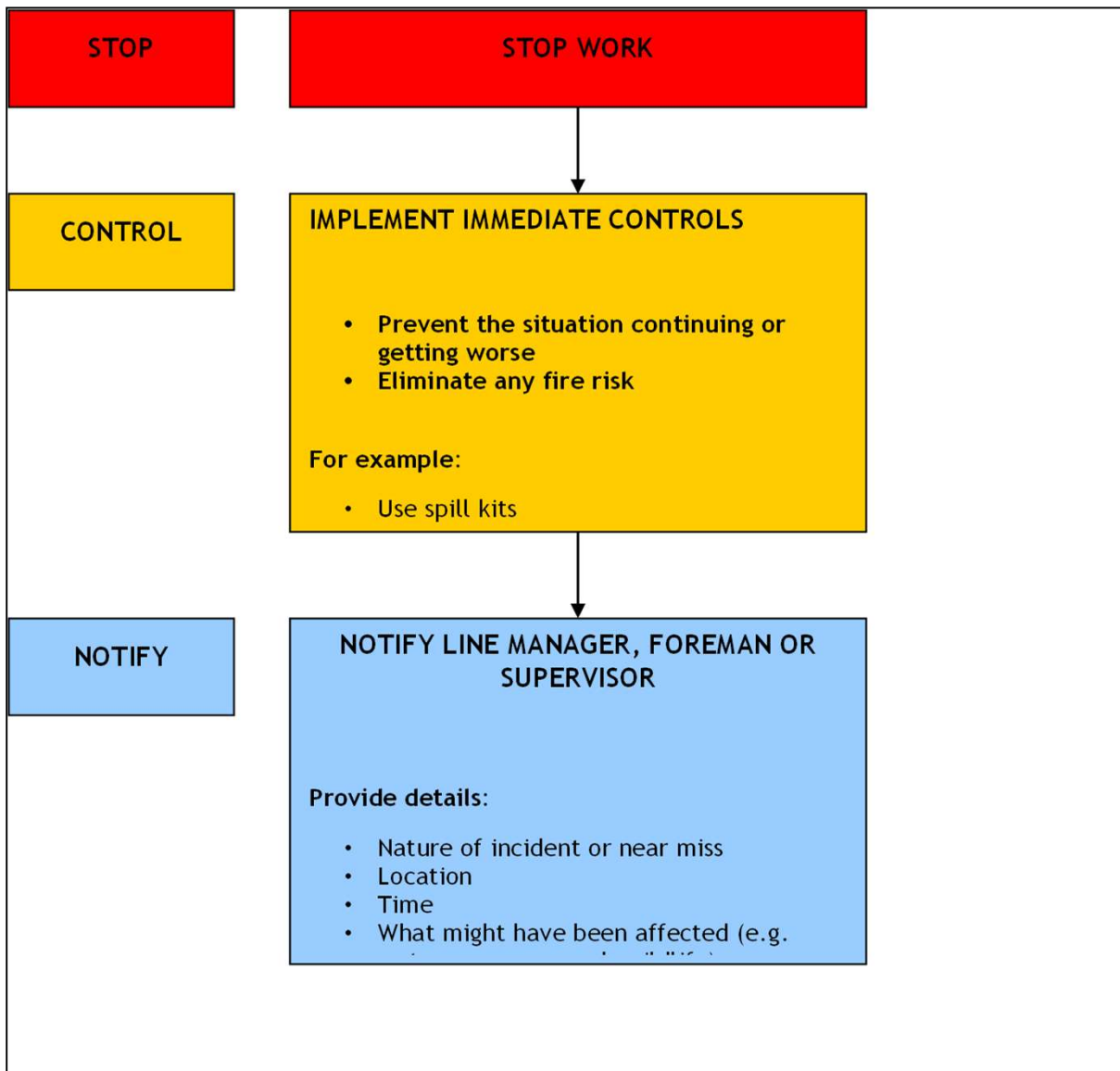
APPENDIX I Emergency Plan

Introduction

This Environmental Incident Emergency Plan sets out the contract or site-specific responses and reporting to be undertaken in the event of an environmental or pollution incident.

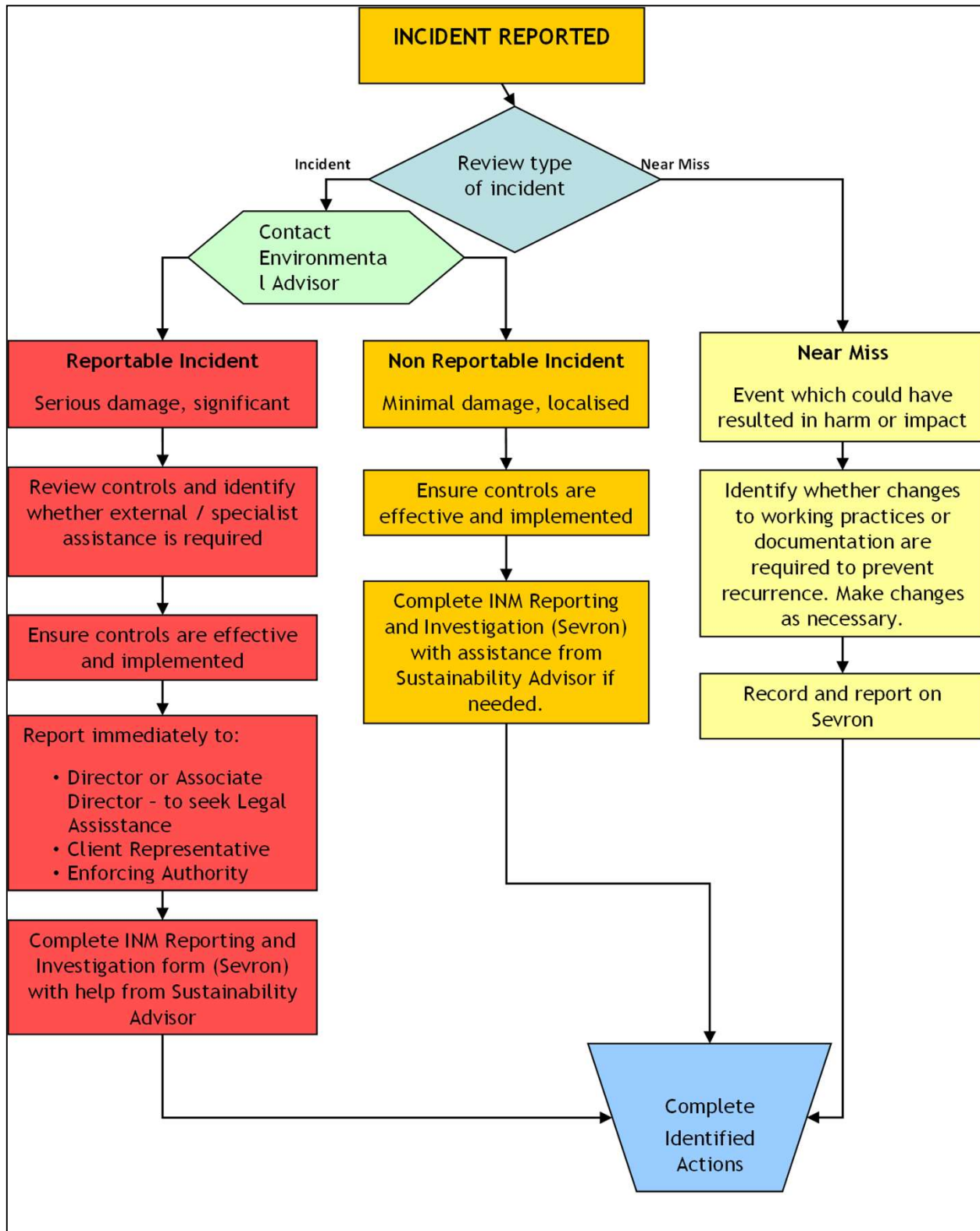
Emergency Actions – Operatives

In the event of an environmental incident, operatives should be briefed to take the following emergency actions:



Emergency Actions – Site Supervisors / Managers

The following decision tree should be used to determine the correct actions, responses and reporting required by site supervisors and managers in the event of an environmental emergency.



Contact Details

Please complete the tables below with relevant contact details for internal reporting, client contacts and regulators.

Spill response contacts - local company to be contacted for emergency response capability.

Where identified as a significant risk through the environmental risk assessment process, local arrangements should be made for the contract.

Spill Response Company Details		
Contact name	Reconomy	1952292000
Tilbury Douglas Contact Details		
Name	Job Title	Contact Number
Jamie Thomas	Project Manager	07920 154981
TBC	Contracts Manager	
Paul Gale	Sector/Regional Director	07712 868020
Shelton Chan	Environmental Advisor	
Declan Timmins	Company Secretary	07483368030
Client Contact Details		

Regulator Contact Details		
Nature of Incident	Contact	Statutory Authority / Phone Number
Surface Water Pollution Ground Water Pollution Waste Land Contamination	Central Hotline/Pollution Hotline	Environment Agency 0800 807060
Nuisance: - Noise - Vibration - Dust / Air quality	TBC	Local Authority
Wildlife		Natural England 0300 060 3900
Discharge to foul sewer	Water company	Thames Water
Other Detail:	Insert contact name	Insert details Insert contact number

(1) England: Environment Agency

(2) Scotland: Scottish Environmental Protection Agency

(3) Wales: Natural Resources Wales

Note: some incidents may also need notification to the HSE, emergency services and transport operators such as the Highways England, Transport Scotland or Network Rail.

Reporting Incidents to the Regulator

Environmental Pollution incidents that require reporting and incident investigation: (for more clarification discuss with your Environmental Advisor). Contact Environmental Regulator (as above)

damage or danger to the natural environment
pollution to water or land
dead fish or fish gasping for air caused by discharge from site
incidents at regulated waste sites where our waste has been taken
collapsed or badly damaged river or canal banks caused by our activities
unplanned blockages to watercourses caused by our works

Contact Local Authority to report:

damage to water main

Contact Water Authority to report:

contamination of drainage systems

Wildlife Incidents:

failure to adhere to protected species licence: incident to be reported to consultant ecologist who holds the licence.

damage to protected species or habitat, with no licence: incident to be reported to Regulator (as above)

Pollution to Land and Water Incident Controls

Controls to Contain and Clean-up Chemical Spillages to Land

Steps	Controls	Absorbent Materials
1	Health and Safety Controls	
	- Identify the type of substance spilled onto the ground and apply appropriate COSHH controls (e.g. PPE). - Ensure all naked flames are extinguished.	
2	Identify Sensitive Areas and Protect	Sand or soil/inert material
	Place a barrier of sand around sensitive areas to protect from spillage.	
3	Contain Spillage by Bunds	Booms or sand
	- If spillage is onto sloping land contain with a bund across its path. The bund should be of a sufficient size and length to contain the whole flow. - Small spillages may be contained on gentle slopes by barriers made of absorbent material such as sand or spill granules available in spill kits or stores.	
4	Manage Source of Pollution	
	Identify source of pollution and apply controls to prevent situation worsening i.e. turn off leaking valves, sealing holes containers etc.	
5	Mark-Up Affected Area and Apply Absorbents	Oil:
	Once the spillage has been contained the area should be clearly marked-up.	Treated Granules
	Absorbent material (available in spill kits or stores) should be placed over the surface of the affected area.	Oil absorbent material (white rolls / pads)
	Once the surface oils have been 'mopped up' the absorbent material should be removed to the hazardous waste disposal facilities.	Sand (if others are not available)
		Chemicals:
		- Black Chemical Pads - Sand
6	Review Soil for Contamination	
	- The soil below the affected area should be thoroughly inspected for signs of any contamination. - If contaminated then the material should be removed to an appropriate waste disposal area.	

Controls to Contain and Clean-up Chemical Spillages to Water Resources

Steps	Controls	Absorbent Materials
1	Health and Safety Controls	
	Identify the type of substance spilled and apply appropriate COSHH controls (e.g. PPE).	
	- Ensure all naked flames are extinguished. - Ensure safe working practices are developed before attempting to remove pollutants from water.	
2	Manage Source of Pollution	
	Identify source of pollution and apply controls to prevent situation worsening i.e. turn off leaking valves, sealing holes containers etc.	
3	Controlling Floating Chemicals e.g. oils	
	Establish booms surrounding the affected area to restrict the affected area.	Booms
	Apply pads and sweep the booms over the surface of the affected area to remove any chemicals. Continue until the chemical is completely removed.	Oils – white absorbent pads or rolls
		Chemical – grey/yellow pads
4	Sinking/ Mixing Chemicals	
	Ensure all possible controls limiting the volume of chemical entering the water resource have been implemented.	
5	Remove any barriers or booms	
	- Once all the contaminants have been removed from the surface of the water resource the booms and dams should be removed and the bed and banks reinstated to the former quality. - Contaminated absorbent booms or other materials must be disposed of as hazardous waste.	

Controls to Contain Silty Water Discharges to Water Resources

Steps	Controls
	Manage Source of Pollution
	1 • Identify source of silt and apply controls to prevent situation worsening <i>i.e.</i> turn off pump.
	Contain Silty Discharge
	2 • Where possible contain silty discharge and reduce speed of flow to watercourse (e.g. re-profile slopes, cut-off trench, filter material in drainage, use of pumps or silt busters).
	Controlling Discharge from Outfalls
	3 • Where silty water is being discharged from outfalls, minimise discharge by slowing flow (e.g. use of straw bales, baffle boards or closing outfall).

Appendix J Environmental Risk Assessment

* Items in red are suggestions only and should be ammended according to site risks.

RISK ASSESSMENT (To be used for both Occupational Health & Safety and Environment)

Contract:

Activity/Operations: Cle: Environmental risk in normal, abnormal and emergency conditions

Hazard / Risk or Environmental Impact	Risk Level Before Controls			Those at Risk or Area of Impact	Controls	Risk Level After Controls		
	L	Sv	R/I			L	Sv	R/I
<u>Avoiding Pollution</u>								
Chemical Pollution	3	3	9	Environment/ People	All fuel, oil and chemicals to be stored in bunded stores, all containers to have secondary containment. Oil absorbent spill kit to be kept on site in case of oil and fuel spillage. General Spill kit to be available on site for chemical spills. Emergency spill clean up number and Environment Agency number is available on the notice board (L100) Plant and equipment will be well maintained and checked for leaks daily.	2	3	6
Fire Water	1	3	3	Environment	Fire Water will drain into the site surface water drains and into the combined sewer. There is oil and fuel stored on site, The emergency services will be informed of this on arrival and the Environment Agency will be informed if these are released during the fire suppression. There are no watercourses adjacent to site.	1	3	3
Trade Effluent	2	3	6	Environment	All sources of trade effluent will be identified in the water management plan and disposal route, required permits/consents obtained. Including, but not limited to: excavation water, cementitious water.	1	3	3
Flooding	1	3	3	Environment/ people	EA flood map consulted, this shows flooding potential for the site.	1	3	3
Silt	2	3	6	Environment	The site is next to a watercourse, silt pollution will be prevented by using a siltbuster and silt sock prior to discharge and daily monitoring.	1	3	3
<u>Managing Waste</u>	2	3	6	Environment	Identify waste streams and check all licences and permits for waste carriers/waste disposal facilities. Skips to be emptied when full and not allowed to spill over. Waste Contractor is to provide all waste transfer notes, waste carriers licences and waste permits.	1	3	3
					FSC/PEFC paper and timber products only to be purchased.	1	2	2