

Cambridge Waste Water Treatment Plant Relocation Project  
Anglian Water Services Limited

# Environmental Statement Appendix 2.7: Construction Environmental Management Plan

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## Summary

This document is the draft Construction Environmental Management Plan (dCEMP) for the Proposed Development. For the examination phase the dCEMP's purpose is to inform the ExA of the structure that the detailed CEMP will take and provide guidance as to what each section will contain.

The dCEMP will continue to be developed through collaboration with the relevant stakeholders and Principal Contractor to form a series of phase specific detailed CEMPs. The structure of these phase specific detailed CEMPs is set out in Section 2.3 to 8 of this dCEMP. These will be submitted to the relevant local authorities for approval prior to the commencement of the associated phase (in line with dDCO (Doc 2.1), Schedule 2, Requirement 9).

The detailed Construction Environmental Management Plans (CEMPs) purpose will be to form a simple to use and practical document translating the measures which are captured as commitments within the Code of Construction Practice (CoCP) Part A (Doc 5.4.2.1) and Part B (Doc 5.4.2.2) into concise measures specific to the different phases and locations of the Proposed Development

Various outline environmental management plans have been prepared to accompany the DCO Application. The detailed versions of this plans will be appended to the detailed CEMPs. Once developed these will detail specific mitigation or working methods required for a particular topic and will be implemented alongside the detailed CEMP.



# 1 Introduction

## 1.1 The Proposed Development

1.1.1 This section provides a high-level summary of the Proposed Development. The term Proposed Development refers to the Cambridge Waste Water Treatment Plant (WWTP) Relocation project in its entirety and all works associated with the development.

1.1.2 A detailed description of the Proposed Development can be found in Chapter 2 of the Environmental Statement (Application document reference 5.2.2).

1.1.3 In summary the Proposed Development will comprise of:

- an integrated waste water and sludge treatment plant.
- a shaft to intercept waste water at the existing Cambridge WWTP on Cowley Road and a tunnel/ pipeline to transfer it to the proposed WWTP and terminal pumping station. Temporary intermediate shafts to launch and recover the micro-tunnel boring machine.
- a gravity pipeline transferring treated waste water from the proposed WWTP to a discharge point on the River Cam and a pipeline for storm water overflows.
- a twin pipeline transferring waste water from Waterbeach to the existing Cambridge WWTP, with the option of a connection direct in to the proposed WWTP when the existing works is decommissioned.
- on-site buildings, including a Gateway Building with incorporated Discovery Centre, substation building, workshop, vehicle parking including electrical vehicle charging points, fencing and lighting.
- environmental mitigation and enhancements including substantial biodiversity net gain, improved habitats for wildlife, extensive landscaping, a landscaped earth bank enclosing the proposed WWTP, climate resilient drainage system and improved recreational access and connectivity.
- renewable energy generation via anaerobic digestion which is part of the sludge treatment process that produces biogas designed to be able to feed directly into the local gas network to heat homes, or as an alternative potential future option burnt in combined heat and power engines.
- renewable energy generation via solar photovoltaic and associated battery energy storage system.
- other ancillary development such as internal site access, utilities, including gas, electricity and communications and connection to the site drainage system.

- a new vehicle access from Horningsea Road including for Heavy Goods Vehicles (HGV's) bringing sludge onto the site for treatment and other site traffic.

temporary construction works including compounds, temporary highway controls, accesses and signage, fencing and gates, security and safety measures, lighting, welfare facilities, communication control and telemetry infrastructure.

- decommissioning works to the existing Cambridge WWTP to cease its existing operational function and to facilitate the surrender of its operational permits including removal of pumps, isolation of plant, electrical connections and pipework, filling and capping of pipework, cleaning of tanks, pipes, screens and other structures, plant and machinery, works to decommission the potable water supply and works to restrict access to walkways, plant and machinery.

## 1.2 Construction of the Proposed Development

1.2.1 The construction of the Proposed Development will be organised into a number of phases and construction activities as set out in the Environmental Statement, Chapter 2: Project Description (Doc 5.2.2). In summary these phases of comprise:

- Phase 1 Enabling works (the 'Enabling Phase' as described in the dDCO);
- Phase 2 Enabling works;
- Construction of the proposed WWTP & STC;
- Connecting infrastructure & supporting development;
- Landscape masterplan development;
- Waterbeach pipelines;
- commissioning and
- decommissioning.

## 2 Construction Environmental Management Plan

### 2.1 Purpose of the draft Construction Environmental Management Plan (dCEMP)

- 2.1.1 For the examination phase the dCEMP's purpose is to inform the ExA of the structure that the detailed CEMP will take and provide guidance as to what each section will contain.
- 2.1.2 The dCEMP will continue to be developed through collaboration with the relevant stakeholders and Principal Contractor to form a series of phase specific detailed CEMPs. The structure of these phase specific detailed CEMPs is set out in Section 2.3 to 8 of this dCEMP. These will be submitted to the relevant local authorities for approval prior to the commencement of the associated phase (in line with dDCO (Doc 2.1), Schedule 2, Requirement 9).
- 2.1.3 The detailed Construction Environmental Management Plans (CEMPs) purpose will be to form a simple to use and practical document translating the measures which are captured as commitments within the Code of Construction Practice (CoCP) Part A (Doc 5.4.2.1) and Part B (Doc 5.4.2.2) into concise measures specific to the different phases and locations of the Proposed Development.
- 2.1.4 The Principal Contractor will comply with environmental legislation from the Enabling Works (Phase 1) onwards, together with any additional environmental controls required in accordance with the DCO. The detailed CEMPs will be designed to manage compliance with relevant environmental legislation and the mitigation measures set out in the ES (Mitigation Tracker (Doc 5.4.2.6) and the Commitments Register (Doc 7.10). The detailed CEMPs will also direct compliance with the consents, licences, permits and approvals associated with the construction phase which are listed in the Consents and other Permits Register (Doc 7.1).

### 2.2 Structure of the dCEMP

- 2.2.1 The first iteration of the dCEMP scope covers the entirety of the Proposed Development, as the dCEMP content is developed Sections 4 onwards will become individual phase specific detailed CEMPs that will expand upon this dCEMPs structure.
- 2.2.2 Various outline environmental management plans have been prepared to accompany the DCO Application. The detailed versions of this plans will be appended to the associated detailed CEMPs. Once developed these will detail specific mitigation or working methods required for a particular topic and will be implemented alongside the detailed CEMPs.
- 2.2.3 The outline environmental management plans which will accompany the detailed CEMPs are shown in Table 2.1 below.

**Table 2-1: Environmental Management Plans**

Relevant Phase	Environmental Management Plan	Description
Enabling Works (Phase 1)	Community Liaison Plan	Sets out the approach to engaging with the community during the construction of the Proposed Development and to make sure the community are informed of activities and developments relating to construction.
Enabling Works (Phase 1)	Outline Soil Management Plan	Sets out how soils disturbed during the construction phase will be managed and monitored.
Enabling Works (Phase 1)	Construction Water Quality Management Plan	Will set out the measures to protect surface and groundwater during construction and avoid and minimise potential impacts upon the Proposed Development from flooding.
Enabling Works (Phase 1)	Construction Traffic Management Plan	Sets out the detailed management measures, procedures and best practices required for managing the impact of construction traffic on the local and strategic road networks during the construction period.
Enabling Works (Phase 1)	Construction Workers Travel Plan	Sets out a package of measures aimed at promoting greener, cleaner travel choices and reducing reliance on the private car.
Enabling Works (Phase 1)	Noise and Vibration Management Plan	Will set out the measures and procedures for the management of noise and vibration arising from the Proposed Development.
Enabling Works (Phase 1)	Air Quality Management Plan	Will include the following as a minimum; <ul style="list-style-type: none"> <li>• the contact details of person(s) accountable for air quality and dust issues on</li> <li>• the site will be displayed in prominent locations within the working area;</li> <li>• identification of the sources of dust/emissions;</li> <li>• control measures;</li> <li>• monitoring and recording including a complaints procedure; and</li> </ul>

Relevant Phase	Environmental Management Plan	Description
		<ul style="list-style-type: none"> <li>in accordance with the Community Liaison Plan</li> </ul>
Enabling Works (Phase 1)	Site Waste Management Plan	Will set out the framework for the management of wastes generated during the construction process in line with the waste hierarchy.
Enabling Works (Phase 1)	Materials Management Plan	Will be developed, if required, to allow the use of excavated waste under CL: AIRE Definition of Waste: Development Industry Code of Practice, v2 (2011) for the reuse of excavated waste materials.
Enabling Works (Phase 1)	Archaeological Investigation Method Statement	<p>Will be set out in two parts:</p> <ul style="list-style-type: none"> <li>Part 1 – Will describe the principles to be applied in undertaking archaeological mitigation on the Proposed Development. It will detail the relevant archaeological baseline, survey results and rational for mitigation for each of the identified mitigation areas; and</li> <li>Part 2 - Will discuss the strategy for each of the mitigation approaches and present outline method statements. These will form the basis of the works detailed in the site-specific schemes of investigation. It will also outline the requirements for communication, monitoring and reporting along with the procedure for completing the archaeological works.</li> </ul>
Enabling Works (Phase 1)	Wildlife Hazard Management Plan	Sets out specific procedures in relation to the operation and maintenance of the Proposed Development to ensure that continues to be no increase in the existing level of birdstrike risk within the safeguarding zone throughout the existence of the Proposed Development and as long as Cambridge City Airport (CCA) continues to be operational.

Relevant Phase	Environmental Management Plan	Description
Connecting Infrastructure and Supporting Development	Outfall Management and Monitoring Plan (OMMP)	Sets out the good practice measures that would be employed to reduce impacts on water during the construction of the pipeline and to maintain positive working relationships with local communities, the relevant planning authorities, the EA and the LLFA.
Commissioning	Outline Commissioning Plan	Sets out the process and management of the commissioning phase for the Proposed Development.
Decommissioning	Outline Decommissioning Plan	Sets out how plant at the existing Cambridge WWTP will be decommissioned as part of the process to surrender the existing Cambridge WWTPs environmental permit.

2.2.4 Emergency preparedness and pollution incident control measures have been incorporated into the structure Sections 4 to 8 of the dCEMP. Full details on these topics will be included each of the detailed CEMP.

## 2.3 Construction Roles and Responsibilities

2.3.1 Section 6 of the Code of Construction Practice Part A (Doc 5.4.2.1) sets out the construction roles and responsibilities.

2.3.2 The detailed CEMPs will include an organogram showing names, roles, responsibilities and communication methods for each of the construction roles.

## 2.4 Training and site induction

2.4.1 Section 5.2 of the Code of Construction Part A (Doc 5.4.2.1) sets out the commitments to the training methods and materials which will be used during the construction phase for staff and contractor training and site inductions.

2.4.2 The detailed CEMPs will form a key management tool used in both training exercises and the site induction. It will include as a minimum a copy of the site induction, templates and fact sheets used for training exercises and site briefings and tool box talks.

## 2.5 Monitoring, Reporting and Review

### Environmental Inspections and Audits

- 2.5.1 The Principal Contractor will be required to undertake a programme of environmental inspections and audits to record performance and identify any corrective actions required. It will be the responsibility of the site management to ensure all evidence and documentation for audit purposes is kept up to date and freely available for inspection at all times. The detailed CEMPs will set out the programme of environmental inspections and audits which will be overseen by the Environmental Manager who will be present throughout the construction phase.
- 2.5.2 The types of environmental inspections would be associated with:
- Licences, permits and wider consents (see Consents and Other Permits Register (Doc 7.1);
  - Dust monitoring (see Section 7.8 of the CoCP Part A for details);
  - Noise monitoring (see Section 7.7 of the CoCP Part A for details);
  - Ground water and surface water pollution prevention (see Section 7.5 of the CoCP for details); and
  - Vegetation and biodiversity protection.

## 3 Construction Activities and Programme

### 3.1 Pre-construction activities

3.1.1 As described in Section 1.2 the construction of the Proposed Development will be organised into a number of different phases. As part of some of the phases pre-construction surveys will be required, these include:

- Bat surveys for trees identified as having the potential to support bat roosts;
- Badger surveys to understand if badger distribution has changed since the previous Environmental Statement (ES) surveys;
- Water Vole surveys to determine the status of water vole on watercourses crossed by construction activities and where suitable habitat was previously identified in the ES surveys;
- Otter surveys at watercourses where otters have been identified;
- Great Crested Newt presence/absence surveys to identify if a change in status (absent from the survey area in previous surveys) has occurred since the ES surveys; and
- Invasive species surveys to identify the presence of any species listed under Schedule 9 of the Wildlife and Countryside Act 1981 and Schedule 2 of the Invasive Alien Species (Enforcement and Permitting) Order 2019.

3.1.2 The above list is not an exhaustive list with other pre-construction surveys potentially being required such as geotechnical and ground stability surveys, archaeological intrusive investigations and topographical surveys. The detailed CEMPs will set out a full list of all pre-construction surveys that have been undertaken.

3.1.3 Pre-construction groundwater and surface water quality monitoring will be carried out prior to relevant construction phases, where required. Pre and post construction groundwater and surface water monitoring requirements will be included within the detailed CEMPs, these will take into account the requirements of the Environment Agency and Natural England.

3.1.4 General site clearance and preparation will be carried out across the Proposed Development as part of the Enabling Works (Phases 1 & 2). Construction access points which will require site clearance and preparation can be found in Table A-1 of the Construction Traffic Management Plan (CTMP (Doc 5.4.19.7)).

3.1.5 A temporary drainage system will be implemented prior to the commencement of the construction activities during Enabling Works (Phase 2)(where required)(see Figure 2.1 below).



## 3.2 Working Hours

3.2.1 Table 5.1 (Proposed construction hours) of the CoCP Part A sets out the different categories of working hours which are as follows and provides a description of activities either included or excluded from those working hours:

- Winter core hours (October to March);
- Summer core hours (April to September);
- Very special circumstances extension for particular activities;
- Continuous working hours;
- Out of hours working;
- Short notice working for safety reasons; and
- Over running works.

3.2.2 The detailed CEMPs will set out the final agreed working hours in the same table format as that provided within Section 5.10 of the CoCP.

## 3.3 Construction Programme

3.3.1 An indicative construction programme has been provided below based on the information known at the time of the DCO applications submission and therefore may not align with any finalised phasing plan which post dates this dCEMP.

3.3.2 More details on construction phasing will be included within a phasing plan secured through the draft DCO (Doc 2.1), which will be submitted to the relevant local authorities for review and approval.

3.3.3 The detailed CEMPs will set out site specific key milestone programmes which include considerations such as ecological seasonality of restrictions on working hours (see Section 2.2).

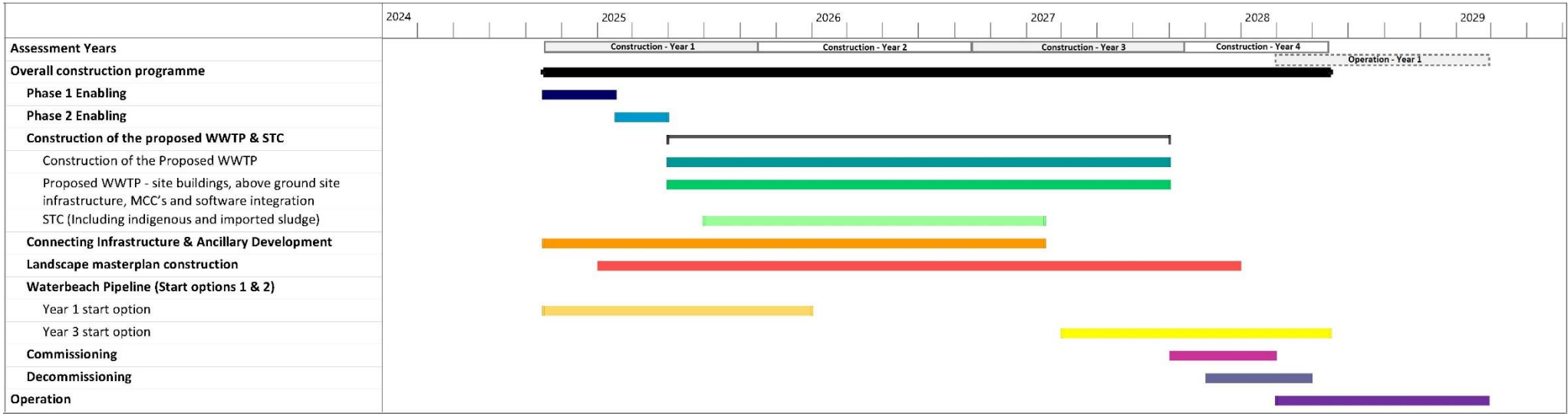


Figure 3.1: Indicative Construction Programme

- 3.3.4 The detailed CEMPs, detailed Dust Management Plan, detailed Noise and Vibration Management Plan and detailed Construction Water Quality Management Plan will include the scopes and frequencies of the site inspections.
- 3.3.5 Section 4.2 of the CoCP Part A sets out the commitments relating to the Environmental and Health & Safety Management Systems. The site environmental management system will be audited by the standards set out by ISO14001 and ISO45001. Additional legal compliance audits will also be undertaken.

### **Environmental Incidents**

- 3.3.6 The detailed CEMPs will set out the mechanisms for incident, near miss and dangerous occurrence reporting, this will include the review of processes to ensure correction actions, lessons learnt and continuous improvement
- 3.3.7 The reporting of incidents relating to noise and vibration, dust, water quality and construction traffic will be presented in the relevant detailed management plans that will be appended to the detailed CEMPs.

## 4 Management of the Environmental Effects – Enabling Works (Phase 1)

### 4.1 Introduction

4.1.1 The detailed CEMP will set out the measures or commitments associated with the following Enabling Works (Phase 1) activities that are not already captured within the Environmental Management Plans listed in Section 2.2;

- Enabling compound established adjacent to the construction access, with temporary site access off Low Fen Drove Way during these early enabling works (Works No.21) and perimeter fencing.
- Construction of permanent access road off Horningsea Road including the new junction bellmouth (Works No.02); perimeter land drainage to pick up and divert existing field drainage system; and installation of power, water, telecom services to perimeter of site (Works No.21).
- Construction compounds, mobilisation of plant, site welfare and services, commencement of shaft construction at existing Cambridge WWTP (Works No.18, 25 and 28).
- Establishment of part of Waterbeach pipeline North (Works No. 34) including temporary site compound to facilitate crossing the railway and to avoid or reduce potential conflict with the new Waterbeach Train Station. This will include up to 50m of pipework installation either side of the railway line.
- Environmental mitigation works within the CEMP and archaeological work to begin construction.
- Initial visual mitigation planting

4.1.2 The detailed CEMP will be accompanied by a series of figures indicating the locations management measures and commitments.

4.1.3 The table structures have been set out below so to provide an indication of how the measures will be presented, an example of a measure currently committed to within the CoCP Part A (Doc 5.4.2.1) has also been included. These tables will be populated during the development of the detailed CEMP.

## 4.2 Site Compound set ups, security and fencing

4.2.1 Detailed commitments on the implementation of construction related mitigation measures associated with the set up, security and fencing of construction compounds can be found in Section 5.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 4-1: Environmental management measures – Site Compound set ups, security and fencing**

Reference	Measure	Location	Responsible Person	Reference to further information
P1SC1	The bottom of all offices, welfare and containers netted to avoid nesting	Project wide	Principal Contractor	n/a

### 4.3 Lay Down/Storage areas

4.3.1 Detailed commitments on the implementation of construction related mitigation measures associated with Lay down/storage areas can be found in Section 5.4 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 4-2: Environmental management measures – Lay Down/Storage areas**

Reference	Measure	Location	Responsible Person	Reference to further information
P1LD1	Temporary lay down/storage areas will not be lit outside of core working hours	Project wide	Principal Contractor	Section 4.4 of this document.

## 4.4 Site Lighting

4.4.1 Detailed commitments on the implementation of construction related mitigation measures associated with site lighting can be found in Section 5.9 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 4-3: Environmental management measures – Site Lighting**

Reference	Measure	Location	Responsible Person	Reference to further information
P1SL1	Temporary LED tower lights approximately 8 meters high must be used whilst works are carried out.	Work No. 18 Work No. 25	Principal Contractor	Appendix 2.5 Lighting Design Strategy (Doc 5.4.2.5)

## 4.5 Tunnelling

4.5.1 Detailed commitments on the implementation of construction related mitigation measures associated with tunnelling can be found in Section 5.11 of the CoCP Part A (Doc 5.4.2.1).

**Table 4-4: Environmental management measures – Tunnelling**

Reference	Measure	Location	Responsible Person	Reference to further information
P1T1	Adhere to the Association of British Insurers/British Tunnelling Society’s Code of Practice for Risk Management in Tunnelling.	Work No. 34	Principal Contractor	Association of British Insurers/British Tunnelling Society’s Code of Practice for Risk Management in Tunnelling (Sept 2003)



## 4.6 Rail and A14 Crossing

4.6.1 Detailed commitments on the implementation of construction related mitigation measures associated with rail and the A14 crossing can be found in Section 5.17 of the CoCP Part A (Doc 5.4.2.1).

**Table 4-5: Environmental management measures – Rail and A14 Crossing**

Reference	Measure	Location	Responsible Person	Reference to further information
P1RC1	Monitoring to be carried out in line with the agreed Basic Asset Protection Agreement (BAPA).	Work No. 30	Principal Contractor	[Link to BAPA]

## 4.7 Cranes and other temporary structures

4.7.1 Detailed commitments on the implementation of construction related mitigation measures associated with cranes and other temporary structures can be found in Section 5.12 of the CoCP Part A (Doc 5.4.2.1).

**Table 4-6: Environmental management measures – Cranes and other temporary structures**

Reference	Measure	Location	Responsible Person	Reference to further information
P1C1	Operator of Cambridge Airport and the Civil Aviation Authority to be notified prior to erection if either the crane or load will exceed 10 above ground level or the surrounding structures or trees (if higher).	Project wide	Principal Contractor	

## 4.8 Watercourse/drainage channels

4.8.1 Detailed commitments on the implementation of construction related mitigation measures associated with watercourse/drainage channels can be found in Section 5.14 of the CoCP Part A (Doc 5.4.2.1).

**Table 4-7: Environmental management measures – Watercourse/drainage channels**

Reference	Measure	Location	Responsible Person	Reference to further information
P1W1	Installation of pre works land drainage system in accordance with land owner consultation	Work No. 21	Principal Contractor	n/a

## 4.9 Overhead Lines

4.9.1 Detailed commitments on the implementation of construction related mitigation measures associated with overhead lines can be found in Section 5.16 of the CoCP Part A (Doc 5.4.2.1).

**Table 4-8: Environmental management measures – Overhead lines**

Reference	Measure	Location	Responsible Person	Reference to further information
P1OL1	Site briefing given to all construction workers on the risks associated with working under or near overhead lines.	Project wide	Principal Contractor	[link to relevant site briefing or tool box talk]

## 4.10 Utility Works

4.10.1 Detailed commitments on the implementation of construction related mitigation measures associated with utilities works can be found in Section 5.18 of the CoCP Part A (Doc 5.4.2.1).

**Table 4-9: Environmental management measures – Utility Works**

Reference	Measure	Location	Responsible Person	Reference to further information
P1UW1	New utilities connections to be installed in line with the relevant Protected Provision	Work No. 21	Principal Contractor	[Link to relevant protected provision]

## 4.11 Fire Prevention and Control

4.11.1 Detailed commitments on the implementation of construction related mitigation measures associated with fire prevention and control can be found in Section 5.5 of the CoCP Part A (Doc 5.4.2.1).

**Table 4-10: Environmental management measures – Fire Prevention and Control measures**

Reference	Measure	Location	Responsible Person	Reference to further information
P1FPC1	Fire exit routes, fire/smoke doors must be clearly signed, and written fire instructions displayed at suitable points within the site compounds.	Work No. 18 Work No. 21 Work No. 25 Work No. 28	Principal Contractor	n/a

## 4.12 Emergency Procedures and Preparedness

4.12.1 Detailed commitments on the implementation of construction related mitigation measures associated with emergency procedures and preparedness can be found in Section 5.6 of the CoCP Part A (Doc 5.4.2.1).

**Table 4-11: Environmental management measures – Emergency Procedures and Preparedness**

Reference	Measure	Location	Responsible Person	Reference to further information
P1EPP1	All staff trained in the use of spill kits	Project Wide	Principal Contractor	[Link to training material]

### 4.13 Pollution Incident Control

4.13.1 Detailed commitments on the implementation of construction related mitigation measures associated with pollution incident control can be found in Section 5.7 of the CoCP Part A (Doc 5.4.2.1).

**Table 4-12: Environmental management measures – Pollution Incident Control**

Reference	Measure	Location	Responsible Person	Reference to further information
P1PIC1	Maintain an up to date record of all substances kept in the construction compounds or storage areas with the potential to harm people and/or the environment.	Project Wide	Principal Contractor	Pollution Prevention Guideline Pollution Incident Response Planning (PPG 21)



## 4.14 Ecology and Nature Conservation

4.14.1 Detailed commitments on the implementation of construction related mitigation measures associated with ecology and nature conservation can be found in Section 7.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 4-13: Environmental management measures – Ecology and Nature Conservation**

Reference	Measure	Location	Responsible Person	Reference to further information
P1ENC1	Acoustic screening to be provided to reduce disturbance to bats.	Work No. 33 Work No. 34	Principal Contractor	n/a

## 4.15 Historic Environment

4.15.1 Detailed commitments on the implementation of construction related mitigation measures associated with historic environment can be found in Section 7.3 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 4-14: Environmental management measures – Historic Environment**

Reference	Measure	Location	Responsible Person	Reference to further information
P1HE1	Remains of potential archaeological interest uncovered by any construction works not subject to active archaeological monitoring must be protected and left open for inspection by the appointed archaeological contractor who will be informed promptly of any such discovery.	Project Wide	Principal Contractor	n/a

## 4.16 Land Quality

4.16.1 Detailed commitments on the implementation of construction related mitigation measures associated with land quality can be found in Section 7.4 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 4-15: Environmental management measures – Land Quality**

Reference	Measure	Location	Responsible Person	Reference to further information
P1LQ1	High visibility clothing, safety boots, hard hat, safety glasses, gloves and ear defenders/plugs for noisier activities to be worn at all times in working areas.	Project Wide	Principal Contractor	n/a

## 4.17 Water Resource and flood risk

4.17.1 Detailed commitments on the implementation of construction related mitigation measures associated with water resource and flood risk can be found in Section 7.5 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 4-16: Environmental management measures – Water Resources and Flood Risk**

Reference	Measure	Location	Responsible Person	Reference to further information
P1WR1	Any cement bags to be sealed and stored appropriately to prevent leaks or dust.	Project Wide	Principal Contractor	

## 5 Management of the Environmental Effects – Enabling Works (Phase 2)

### 5.1 Introduction

5.1.1 The detailed CEMP will set out the measures or commitments associated with the following Enabling Works (Phase 2) activities that are not already captured within the Environmental Management Plans listed in Section 2.2;

- Establishment of working area by removing topsoil and moving it to a temporary earth bank, and the excavation of subsoil to reduce the site level to that proposed for the finished site. The subsoil will be used to construct the landscaped earth bank around the new works (Works No. 22). In addition, establishment of the main site compound, principal store area, subcontractor compound and a concrete batching plant will take place; this will be located outside of the earth bank and adjacent to the access road to be used during the construction of the works (Works No. 21).
- Create stable working platforms to each works area and construct internal access roads for use by construction plant and material deliveries (Works No.21 & 22). Each working area will also be provided with temporary site drainage, the provision of utility services and work area compounds and offices.

5.1.2 The detailed CEMP will be accompanied by a series of figures indicating the locations management measures and commitments.

5.1.3 The table structures below provide the Examining Authority (ExA) with an indication of how the measures will be presented. These tables will be populated during the development of the detailed CEMP.

## 5.2 Site Compound set ups, security and fencing

5.2.1 Detailed commitments on the implementation of construction related mitigation measures associated with the set up, security and fencing of construction compounds can be found in Section 5.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 5-1: Environmental management measures – Site Compound set ups, security and fencing**

Reference	Measure	Location	Responsible Person	Reference to further information

### 5.3 Lay Down/Storage areas

5.3.1 Detailed commitments on the implementation of construction related mitigation measures associated with Lay down/storage areas can be found in Section 5.4 of the CoCP Part A (Doc 5.4.2.1).

**Table 5-2: Environmental management measures – Lay Down/Storage areas**

Reference	Measure	Location	Responsible Person	Reference to further information

## 5.4 Site Lighting

5.4.1 Detailed commitments on the implementation of construction related mitigation measures associated with site lighting can be found in Section 5.9 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 5-3: Environmental management measures – Site Lighting**

Reference	Measure	Location	Responsible Person	Reference to further information



## 5.5 Fire Prevention and Control

5.5.1 Detailed commitments on the implementation of construction related mitigation measures associated with fire prevention and control can be found in Section 5.5 of the CoCP Part A (Doc 5.4.2.1).

**Table 5-4: Environmental management measures – Fire Prevention and Control measures**

Reference	Measure	Location	Responsible Person	Reference to further information

## 5.6 Emergency Procedures and Preparedness

5.6.1 Detailed commitments on the implementation of construction related mitigation measures associated with emergency procedures and preparedness can be found in Section 5.6 of the CoCP Part A (Doc 5.4.2.1).

**Table 5-5: Environmental management measures – Emergency Procedures and Preparedness**

Reference	Measure	Location	Responsible Person	Reference to further information

## 5.7 Pollution Incident Control

5.7.1 Detailed commitments on the implementation of construction related mitigation measures associated with pollution incident control can be found in Section 5.7 of the CoCP Part A (Doc 5.4.2.1).

**Table 5-6: Environmental management measures – Pollution Incident Control**

Reference	Measure	Location	Responsible Person	Reference to further information

## 5.8 Ecology and Nature Conservation

5.8.1 Detailed commitments on the implementation of construction related mitigation measures associated with ecology and nature conservation can be found in Section 7.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 5-7: Environmental management measures – Ecology and Nature Conservation**

Reference	Measure	Location	Responsible Person	Reference to further information

## 5.9 Historic Environment

5.9.1 Detailed commitments on the implementation of construction related mitigation measures associated with historic environment can be found in Section 7.3 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 5-8: Environmental management measures – Historic Environment**

Reference	Measure	Location	Responsible Person	Reference to further information

## 5.10 Land Quality

5.10.1 Detailed commitments on the implementation of construction related mitigation measures associated with land quality can be found in Section 7.4 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 5-9: Environmental management measures – Land Quality**

Reference	Measure	Location	Responsible Person	Reference to further information

## 5.11 Water Resource and flood risk

5.11.1 Detailed commitments on the implementation of construction related mitigation measures associated with water resource and flood risk can be found in Section 7.5 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 5-10: Environmental management measures – Water Resources and Flood Risk**

## 6 Management of the Environmental Effects – Proposed Waste Water Treatment Plant & Sludge Treatment Centre

### 6.1 Introduction

6.1.1 The detailed CEMP will set out the measures or commitments associated with the following activities that are not already captured within the Environmental Management Plans listed in Section 2.2;

- Construct both the STC and WWTP (Works No. 4 to 6, 8 to 16), whereby their respective construction programmes will run simultaneously. Both are likely to involve ground improvement to support the structures (potentially piling), secondary excavation to form the footprint of each process unit and both in situ and precast concrete techniques to construction foundations, support structures and tanks. Interconnecting pipework will follow. Once the principal structures are complete the site team will undertake the mechanical and electrical installation packages for each process block. Each process block will then be dry commissioned ready for a co-ordinated wet commissioning programme.
- Once construction of the WWTP and STC has been established, on-site infrastructure will be constructed, including operational buildings (Works No. 7 and 19), the permanent access road (Works No. 2), car parks (Works No. 3 and 7), permanent HV/LV switchgear buildings and generator areas (Works No. 5). Where possible, topsoil will be placed on the earth bank and early landscape packages started (Works No. 23).

6.1.2 The detailed CEMP will be accompanied by a series of figures indicating the locations management measures and commitments.

6.1.3 For the purpose of the procedural decision issued on the 10<sup>th</sup> of August the table structures have been provided below so to provide the Examining Authority (ExA) with an indication of how the measures will be presented. These tables will be populated during the development of the detailed CEMP.



## 6.2 Site Compound set ups, security and fencing

6.2.1 Detailed commitments on the implementation of construction related mitigation measures associated with the set up, security and fencing of construction compounds can be found in Section 5.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 6-1: Environmental management measures – Site Compound set ups, security and fencing**

Reference	Measure	Location	Responsible Person	Reference to further information

### 6.3 Site Lighting

6.3.1 Detailed commitments on the implementation of construction related mitigation measures associated with site lighting can be found in Section 5.9 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 6-2: Environmental management measures – Site Lighting**

Reference	Measure	Location	Responsible Person	Reference to further information

## 6.4 Cambridge Airport

6.4.1 Detailed commitments on the implementation of construction related mitigation measures associated with Cambridge Airport can be found in Section 5.15 of the CoCP Part A (Doc 5.4.2.1).

**Table 6-3: Environmental management measures – Cambridge Airport**

Reference	Measure	Location	Responsible Person	Reference to further information

## 6.5 Fire Prevention and Control

6.5.1 Detailed commitments on the implementation of construction related mitigation measures associated with fire prevention and control can be found in Section 5.5 of the CoCP Part A (Doc 5.4.2.1).

**Table 6-4: Environmental management measures – Fire Prevention and Control measures**

Reference	Measure	Location	Responsible Person	Reference to further information

## 6.6 Emergency Procedures and Preparedness

6.6.1 Detailed commitments on the implementation of construction related mitigation measures associated with emergency procedures and preparedness can be found in Section 5.6 of the CoCP Part A (Doc 5.4.2.1).

**Table 6-5: Environmental management measures – Emergency Procedures and Preparedness**

Reference	Measure	Location	Responsible Person	Reference to further information

## 6.7 Pollution Incident Control

6.7.1 Detailed commitments on the implementation of construction related mitigation measures associated with pollution incident control can be found in Section 5.7 of the CoCP Part A (Doc 5.4.2.1).

**Table 6-6: Environmental management measures – Pollution Incident Control**

Reference	Measure	Location	Responsible Person	Reference to further information

## 6.8 Ecology and Nature Conservation

6.8.1 Detailed commitments on the implementation of construction related mitigation measures associated with ecology and nature conservation can be found in Section 7.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 6-7: Environmental management measures – Ecology and Nature Conservation**

Reference	Measure	Location	Responsible Person	Reference to further information

## 6.9 Historic Environment

6.9.1 Detailed commitments on the implementation of construction related mitigation measures associated with historic environment can be found in Section 7.3 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 6-8: Environmental management measures – Historic Environment**

Reference	Measure	Location	Responsible Person	Reference to further information



## 6.10 Water Resource and flood risk

6.10.1 Detailed commitments on the implementation of construction related mitigation measures associated with water resource and flood risk can be found in Section 7.5 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 6-9: Environmental management measures – Water Resources and Flood Risk**

Reference	Measure	Location	Responsible Person	Reference to further information

## 6.11 Odour

6.11.1 Detailed commitments on the implementation of construction related mitigation measures associated with odour can be found in Section 7.8 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 6-10: Environmental management measures – Odour**

Reference	Measure	Location	Responsible Person	Reference to further information

## 7 Management of the Environmental Effects – Connecting Infrastructure and Supporting Development

### 7.1 Introduction

7.1.1 The detailed CEMP will set out the measures or commitments associated with the following activities that are not already captured within the Environmental Management Plans listed in Section 2.2;

- Other than bringing utility services of gas, water, power and telecom services into the proposed WWTP, the associated activities for the proposed WWTP include the following:
  - Waste Water Transfer Tunnel to bring effluent from the existing Cambridge WWTP to the proposed WWTP (Works No. 27);
  - the FE pipeline returning the treated water to the River Cam from the proposed WWTP (Works No. 31);
  - the storm pipeline returning occasional settled storm flows to the River Cam from the proposed WWTP (Works No. 31); and
  - rising main diversions to bring raw sewage flows that currently arrive at the existing Cambridge WWTP through sewers other than the main incoming tunnel from Central Cambridge (Works No. 17 and 26).

7.1.2 The detailed CEMP will be accompanied by a series of figures indicating the locations management measures and commitments.

7.1.3 For the purpose of the procedural decision issued on the 10<sup>th</sup> of August the table structures have been provided below so to provide the Examining Authority (ExA) with an indication of how the measures will be presented. These tables will be populated during the development of the detailed CEMP.

## 7.2 Site Compound set ups, security and fencing

7.2.1 Detailed commitments on the implementation of construction related mitigation measures associated with the set up, security and fencing of construction compounds can be found in Section 5.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 7-1: Environmental management measures – Site Compound set ups, security and fencing**

Reference	Measure	Location	Responsible Person	Reference to further information

### 7.3 Tunnelling (Including river crossings)

7.3.1 Detailed commitments on the implementation of construction related mitigation measures associated with tunnelling (including river crossings) can be found in Sections 5.11 and 5.13 of the CoCP Part A (Doc 5.4.2.1).

**Table 7-2: Environmental management measures – Tunnelling (Including river crossings)**

Reference	Measure	Location	Responsible Person	Reference to further information

## 7.4 Rail and A14 Crossing

7.4.1 Detailed commitments on the implementation of construction related mitigation measures associated with rail and the A14 crossing can be found in Section 5.17 of the CoCP Part A (Doc 5.4.2.1).

**Table 7-3: Environmental management measures – Rail and A14 Crossing**

Reference	Measure	Location	Responsible Person	Reference to further information

## 7.5 River Work

7.5.1 Detailed commitments on the implementation of construction related mitigation measures associated with river work can be found in Section 5.13 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 7-4: Environmental management measures – River work**

Reference	Measure	Location	Responsible Person	Reference to further information

## 7.6 Site Lighting

7.6.1 Detailed commitments on the implementation of construction related mitigation measures associated with site lighting can be found in Section 5.9 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 7-5: Environmental management measures – Site Lighting**

Reference	Measure	Location	Responsible Person	Reference to further information



## 7.7 Fire Prevention and Control

7.7.1 Detailed commitments on the implementation of construction related mitigation measures associated with fire prevention and control can be found in Section 5.5 of the CoCP Part A (Doc 5.4.2.1).

**Table 7-6: Environmental management measures – Fire Prevention and Control measures**

Reference	Measure	Location	Responsible Person	Reference to further information

## 7.8 Emergency Procedures and Preparedness

7.8.1 Detailed commitments on the implementation of construction related mitigation measures associated with emergency procedures and preparedness can be found in Section 5.6 of the CoCP Part A (Doc 5.4.2.1).

**Table 7-7: Environmental management measures – Emergency Procedures and Preparedness**

Reference	Measure	Location	Responsible Person	Reference to further information

## 7.9 Pollution Incident Control

7.9.1 Detailed commitments on the implementation of construction related mitigation measures associated with pollution incident control can be found in Section 5.7 of the CoCP Part A (Doc 5.4.2.1).

**Table 7-8: Environmental management measures – Pollution Incident Control**

Reference	Measure	Location	Responsible Person	Reference to further information

## 7.10 Ecology and Nature Conservation

7.10.1 Detailed commitments on the implementation of construction related mitigation measures associated with ecology and nature conservation can be found in Section 7.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 7-9: Environmental management measures – Ecology and Nature Conservation**

Reference	Measure	Location	Responsible Person	Reference to further information

## 7.11 Historic Environment

7.11.1 Detailed commitments on the implementation of construction related mitigation measures associated with historic environment can be found in Section 7.3 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 7-10: Environmental management measures – Historic Environment**

Reference	Measure	Location	Responsible Person	Reference to further information

## 7.12 Land Quality

7.12.1 Detailed commitments on the implementation of construction related mitigation measures associated with land quality can be found in Section 7.4 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 7-11: Environmental management measures – Land Quality**

Reference	Measure	Location	Responsible Person	Reference to further information

### 7.13 Water Resource and flood risk

7.13.1 Detailed commitments on the implementation of construction related mitigation measures associated with water resource and flood risk can be found in Section 7.5 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 7-12: Environmental management measures – Water Resources and Flood Risk**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8 Management of the Environmental Effects – Waterbeach Pipeline

### 8.1 Introduction

- 8.1.1 The detailed CEMP will set out the measures or commitments associated with the construction of the Waterbeach Pipeline (Work No.33,36 and 37) that are not already captured within the Environmental Management Plans listed in Section 2.2.
- 8.1.2 The detailed CEMP will be accompanied by a series of figures indicating the locations management measures and commitments.
- 8.1.3 For the purpose of the procedural decision issued on the 10<sup>th</sup> of August the table structures have been provided below so to provide the Examining Authority (ExA) with an indication of how the measures will be presented. These tables will be populated during the development of the detailed CEMP.



## 8.2 Site Compound set ups, security and fencing

8.2.1 Detailed commitments on the implementation of construction related mitigation measures associated with the set up, security and fencing of construction compounds can be found in Section 5.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 8-1: Environmental management measures – Site Compound set ups, security and fencing**

Reference	Measure	Location	Responsible Person	Reference to further information

### 8.3 Site Lighting

8.3.1 Detailed commitments on the implementation of construction related mitigation measures associated with site lighting can be found in Section 5.9 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 8-2: Environmental management measures – Site Lighting**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.4 Tunnelling (Including river crossings)

8.4.1 Detailed commitments on the implementation of construction related mitigation measures associated with tunnelling (including river crossings) can be found in Sections 5.11 and 5.13 of the CoCP Part A (Doc 5.4.2.1).

**Table 8-3: Environmental management measures – Tunnelling (Including river crossings)**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.5 Rail and A14 Crossing

8.5.1 Detailed commitments on the implementation of construction related mitigation measures associated with rail and the A14 crossing can be found in Section 5.17 of the CoCP Part A (Doc 5.4.2.1).

**Table 8-4: Environmental management measures – Rail crossing and A14**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.6 Waterbeach train station

8.6.1 Detailed commitments on the implementation of construction related mitigation measures associated with the Waterbeach train station can be found in Section 3.4 of the CoCP Part B (Doc 5.4.2.2).

**Table 8-5: Environmental management measures – Waterbeach train station**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.7 Fire Prevention and Control

8.7.1 Detailed commitments on the implementation of construction related mitigation measures associated with fire prevention and control can be found in Section 5.5 of the CoCP Part A (Doc 5.4.2.1).

**Table 8-6: Environmental management measures – Fire Prevention and Control measures**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.8 Emergency Procedures and Preparedness

8.8.1 Detailed commitments on the implementation of construction related mitigation measures associated with emergency procedures and preparedness can be found in Section 5.6 of the CoCP Part A (Doc 5.4.2.1).

**Table 8-7: Environmental management measures – Emergency Procedures and Preparedness**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.9 Pollution Incident Control

8.9.1 Detailed commitments on the implementation of construction related mitigation measures associated with pollution incident control can be found in Section 5.7 of the CoCP Part A (Doc 5.4.2.1).

**Table 8-8: Environmental management measures – Pollution Incident Control**

Reference	Measure	Location	Responsible Person	Reference to further information



## 8.10 Ecology and Nature Conservation

8.10.1 Detailed commitments on the implementation of construction related mitigation measures associated with ecology and nature conservation can be found in Section 7.2 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 8-9: Environmental management measures – Ecology and Nature Conservation**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.11 Historic Environment

8.11.1 Detailed commitments on the implementation of construction related mitigation measures associated with historic environment can be found in Section 7.3 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 8-10: Environmental management measures – Historic Environment**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.12 Landscape and Visual

**Table 8-11: Environmental management measures – Landscape and Visual**

Reference	Measure	Location	Responsible Person	Reference to further information

### 8.13 Land Quality

8.13.1 Detailed commitments on the implementation of construction related mitigation measures associated with land quality can be found in Section 7.4 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 8-12: Environmental management measures – Land Quality**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.14 Water Resource and flood risk

8.14.1 Detailed commitments on the implementation of construction related mitigation measures associated with water resource and flood risk can be found in Section 7.5 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 8-13: Environmental management measures – Water Resources and Flood Risk**

Reference	Measure	Location	Responsible Person	Reference to further information

## 8.15 Odour

8.15.1 Detailed commitments on the implementation of construction related mitigation measures associated with odour can be found in Section 7.8 of the CoCP Part A (Doc 5.4.2.1) with any site specific measures detailed in the CoCP Part B (Doc 5.4.2.2).

**Table 8-14: Environmental management measures – Odour**

Reference	Measure	Location	Responsible Person	Reference to further information

## Get in touch

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Calling our Freephone information line on **0808 196 1661**



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You can view all our DCO application documents and updates on the application on The Planning Inspectorate website:

<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/cambridge-waste-water-treatment-plant-relocation/>