

Cambridge Waste Water Treatment Plant Relocation Project
Anglian Water Services Limited

Environmental Statement

Appendix 2.6: Mitigation Tracker

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Contents

1	Introduction	1
1.1	Anglian Water Services Limited	1
1.2	Introduction to the relocation project	1
1.3	The relocation site.....	2
1.4	Purpose of the Proposed Development.....	2
1.5	Outline description of the Proposed Development.....	3
1.6	Environmental mitigation	6
1.7	Additional project benefits	6
2	Mitigation Tracker	7
2.1	Overview	7
2.2	Mitigation tracker tables.....	100
1	Introduction	1
1.1	Anglian Water Services Limited	1
1.2	Introduction to the relocation project	1
1.3	The relocation site.....	2
1.4	Purpose of the Proposed Development.....	2
1.5	Outline description of the Proposed Development.....	3
1.6	Environmental mitigation	6
1.7	Additional project benefits	6
2	Mitigation Tracker	7
2.1	Overview	7
2.2	Mitigation tracker tables.....	11

Figures

Figure 1.1: Scope of the draft DCO and the future demolition and redevelopment of the site at Cowley Road	5
Figure 2.1: Mitigation architecture.....	8
Figure 1.1: Scope of the draft DCO and the future demolition and redevelopment of the site at Cowley Road	5
Figure 2.1: Mitigation architecture.....	9

Tables

Table 2.1: Mitigation tracker guidance	7
Table 2.2: Agricultural and soils	100
Table 2.3: Air quality	111
Table 2.4: Biodiversity	113
Table 2.5: Climate resilience	175
Table 2.6: Carbon	196
Table 2.7: Community	201
Table 2.8: Health	208
Table 2.9: Historic environment	224
Table 2.10: Landscape and visual amenity	230
Table 2.11: Material resources and waste	236
Table 2.12: Noise and vibration	244
Table 2.13: Odour	246
Table 2.14: Traffic and transport	253
Table 2.15: Water resources	273
Table 2.16: Major accidents and disasters	309
Table 2.17: Cumulative effects	317
Table 2-2: Mitigation Tracker	9

1 Introduction

1.1 Anglian Water Services Limited

- 1.1.1 Anglian Water Services Limited (the 'Applicant') is the largest regulated water and water recycling company in England and Wales by geographic area, supplying water and water recycling services to almost seven million people in the East of England and Hartlepool.
- 1.1.2 The Applicant is committed to bringing environmental and social prosperity to the region they serve, through their commitment to Love Every Drop. As a purpose-led business, The Applicant seeks to contribute to the environmental and social wellbeing of the communities within which they operate. As one of the largest energy users in the East of England, they are also committed to reaching net zero carbon emissions by 2030.

1.2 Introduction to the relocation project

- 1.2.1 Anglian Water's Cambridge Waste Water Treatment Plant Relocation project (CWWTPRP) ("the Proposed Development") is funded by Homes England, the Government's housing accelerator which seeks to improve neighbourhoods and grow communities by releasing land for development.
- 1.2.2 The Proposed Development involves the relocation of the existing Cambridge Waste Water Treatment Plant (WWTP) currently operating at Cowley Road, Cambridge, to a new site between Horningsea, Fen Ditton and Stow cum Quy, adjacent to the A14 in Cambridgeshire.
- 1.2.3 The relocation would make the site of the existing WWTP available to form part of the development of a new low-carbon city district, known as North East Cambridge. The site at Cowley Road, is Cambridge's last major brownfield site, and the wider North East Cambridge district proposals envisage creating around 8,350 homes and 15,000 jobs over the next 20 years.
- 1.2.4 North East Cambridge is a highly sustainable location for housing. In addition to the Homes England funding, the area has benefitted from Transport Infrastructure Fund (TIF) funding for Park & Ride, the completion of Cambridge Guided Bus public transport infrastructure, the delivery of the Cambridge North rail station and the Chisholm Trail.
- 1.2.5 North East Cambridge is one of three key strategic sites which will form "*central building blocks of any future strategy for development*" in the proposed Greater Cambridge Local Plan being jointly prepared by Cambridge City Council and South Cambridgeshire District Council that will be subject to public consultation in Autumn 2023. The North East Cambridge Area Action Plan (AAP), currently in "Proposed Submission" form, will be the planning

policy framework which ultimately guides the development of North East Cambridge city district.

- 1.2.6 The importance of the Proposed Development, both regionally and nationally, was recognised by the Secretary of State for Environment, Food and Rural Affairs (DEFRA) in January 2021, who directed that the Proposed Development is nationally significant and is to be treated as a development for which a Development Consent Order (DCO) is required (see Appendix 1-3 of the Planning Statement, App Doc Ref 7.5).
- 1.2.7 The policy context of the Proposed Development is described in more detail in the Planning Statement (Application Document Reference 7.5)

1.3 The relocation site

- 1.3.1 The relocation site was selected following comprehensive study and public consultation. The site selection process and consideration of alternatives is described in more detail in Chapter 3: Alternatives of the Environmental Statement (App Doc Ref 5.2.3).
- 1.3.2 The current environmental conditions at the existing Cambridge WWTP site and at the relocation site are described in Chapter 2: Project Description of the Environmental Statement (App Doc Ref 5.2.2). The site is located to the north-east of Cambridge and 2km to the east of the existing Cambridge WWTP, as shown on the Works Plans (App Doc Ref 4.3.1). It is situated on arable farmland immediately north of the A14 and east of the B1047 Horningsea Road in the green belt between the villages of Horningsea to the north, Stow cum Quy to the east and Fen Ditton to the south west. Two overhead lines of pylons cross the northern and eastern edges of the main development site and come together with a third line at the north eastern corner of the site. The topography is fairly flat with an approximately 4m fall across the site south west to north east.

1.4 Purpose of the Proposed Development

- 1.4.1 The Proposed Development for which the DCO is being sought will deliver all the functions of the existing Cambridge WWTP at Cowley Road, treating all waste water from the Cambridge catchment and wet sludge from the wider region.
- 1.4.2 In addition, it will have an increased capacity, being intended to treat the waste water from the Waterbeach catchment and anticipated housing growth in the combined Cambridge and Waterbeach catchment area.
- 1.4.3 The infrastructure provided as part of the main works will have a design life to at least 2090, and the supporting infrastructure (i.e. the transfer tunnel, pipelines and outfall) will have a designed capacity sufficient to meet population growth projections plus an allowance for climate change into the 2080s. Furthermore, there is capability for expansion in space that has been

provided within the earth bank and by modification, enhancement and optimisation of the design to accommodate anticipated flows into the early 2100s.`

1.5 Outline description of the Proposed Development

1.5.1 The DCO application is seeking approval for the following main elements of the Proposed Development:

- 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.

- 1.5.2 Additional elements, together with more information on the above features are provided in Chapter 2: Project Description of the Environmental Statement (App Doc Ref 5.2.2). Principles of Good Design have been used to inform the development of the project, which has been guided by the National Infrastructure Commission's Design Principles, advice from the Design Council and review by the Cambridgeshire Quality Panel, as described in the Design and Access Statement (App Doc Ref 7.6).
- 1.5.3 Construction activities, likely to take 3-4 years, will include the creation of a shaft to intercept waste water at the existing Cambridge WWTP and temporary intermediate shafts between the existing Cambridge WWTP and the proposed WWTP to launch and recover a micro-tunnel boring machine. The sequence and location of construction activities are also detailed in Chapter 2: Project Description of the Environmental Statement (App Doc Ref 5.2.2).
- 1.5.4 Towards the end of the construction period, commissioning of the Proposed Development will commence, lasting for between 6 months and 1 year.
- 1.5.5 The Proposed Development will also involve the decommissioning of the existing Cambridge WWTP at Cowley Road. This is secured by the Development Consent Order and the Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) and involves activities necessary to take the existing plant out of operational use and to surrender its current operational permits.
- 1.5.6 Following decommissioning, the site of the existing plant will be made available in accordance with agreements already in place with Homes England and with the master developer appointed to deliver the redevelopment of North East Cambridge
- 1.5.7 Consent is not sought under the Development Consent Order for the subsequent demolition or redevelopment of the Cowley Road site, which, as described in Chapter 2: Project Description of the Environmental Statement (App Doc Ref 5.2.2) will be consented under a separate and future planning permission, by master developers, U+I and TOWN, appointed under the agreements described above.
- 1.5.8 The relationship between the Proposed Development, the scope of the proposed DCO and the future demolition and redevelopment of the site at Cowley Road is set out in figure 1.1, below:

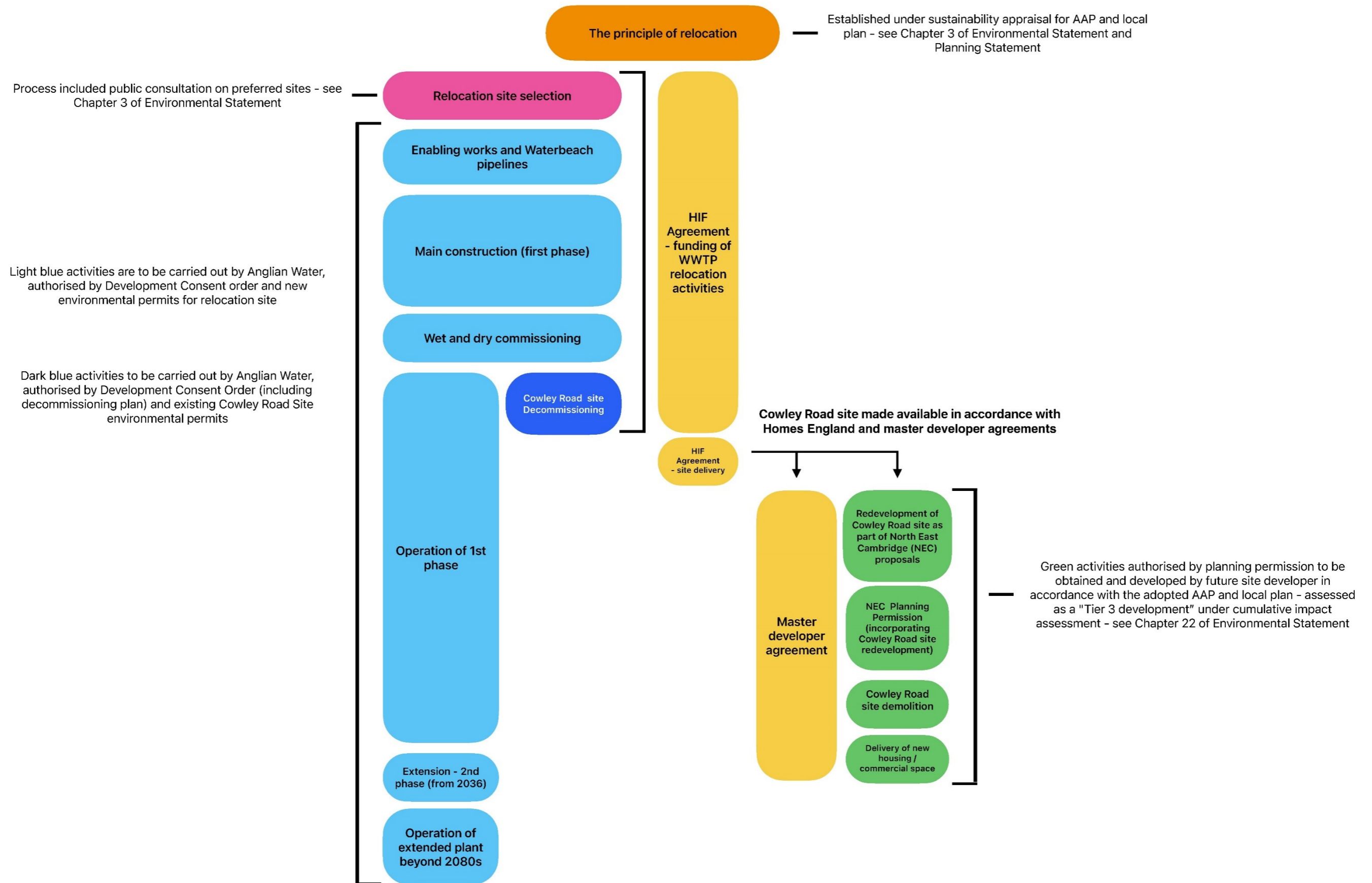


Figure 1.1: Scope of the draft DCO and the future demolition and redevelopment of the site at Cowley Road

1.6 Environmental mitigation

- 1.6.1 Through the environmental impact assessment process and community and technical stakeholder engagement the Proposed Development has incorporated comprehensive environmental mitigation, secured through the Development Consent Order.
- 1.6.2 This mitigation includes a Landscape, Ecological and Recreational Management Plan ("LERMP", Appendix 8.14, App Doc Ref 5.4.8.14) has been developed to complement regional and local initiatives, including the Wicken Fen Vision and the Cambridge Nature Network. The 22-hectare footprint of the plant is encircled by a landscaped and planted earth bank situated within the broader LERMP area of around 70-hectares.

1.7 Additional project benefits

- 1.7.1 In addition to enabling housing growth and future economic development of the Greater Cambridge area the project will also give rise to a number of additional benefits including:
- significantly reduced carbon emissions compared to the existing Cambridge WWTP, being operationally net zero and energy neutral, contributing to Anglian Water's ambition of being operationally net zero as a business by 2030.
 - greater resilience and improved storm management, meaning storm overflows and Combined Sewer Overflows (CSOs) are far less likely to occur. This means that, as Greater Cambridge continues to grow, the facility will be able to treat a greater volume of storm flows to a higher standard than would be the case at today's facility.
 - The proposed WWTP is being designed to reduce concentration in final treated effluent discharges of phosphorus, ammonia, total suspended solids and biological oxygen demand (BOD), compared to the existing Cambridge WWTP. This means that when the new facility starts to operate, water quality in the River Cam will improve.

2 Mitigation Tracker

2.1 Overview

2.1.1 The purpose of the Mitigation Tracker is to set out the mitigation measures presented in the Environmental Statement (Volume 5) for the Proposed Development. Table 2.1 indicates the mitigation with the DCO to be updated at the end of the examination to capture changes to requirements and s106 agreements.

2.1.2 The Mitigation Tracker should be read in conjunction with the Environmental Statement.

2.1.3 Table 2-1 provides guidance on the content of the mitigation tracker tables provided in Table 2.2 to Table 2.17 within section 2.2.

Table 2.12-1: Mitigation tracker guidance

<u>Column</u>	<u>Explanation</u>
<u>Mitigation ID</u>	<u>Unique identification number for specific measure</u>
<u>Source</u>	<u>Identifier which is directly related to the mitigation identified within the ES or other application documentation</u>
<u>Measure applied to (part of the Proposed Development)</u>	<u>Location / project area measure applies to</u>
<u>Description of impact</u>	<u>Details of impact for which mitigation is applied to</u>
<u>Mitigation / commitment</u>	<u>Summary of the mitigation as identified within the source document.</u>
<u>Phase</u>	<u>Project phase that the measure will apply or be initiated</u>
<u>Reference documents</u>	<u>Where the mitigation measure is referenced or identified within the application documents</u>
<u>Securing mechanism</u>	<u>How the mitigation is secured such as a direct Requirement of the DCO or as s106</u>
<u>Related mitigation</u>	<u>Impacts which rely on the implementation of mitigation assigned to other impacts for example impacts to community receptors recorded in ES Chapter 11:Community are reliant on measures applied to control noise, air, odour and traffic and transport impacts.</u>

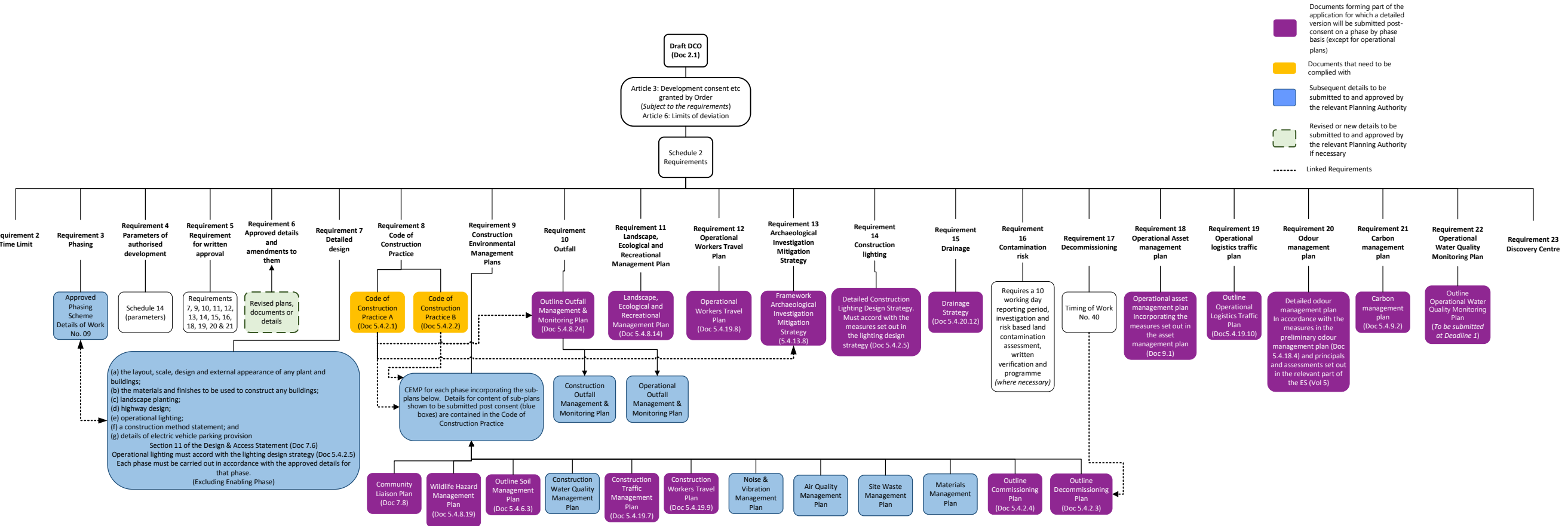


Figure 2.1: Mitigation architecture

Table 2-2: Mitigation Tracker

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
AS-1	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2—Securing Mitigation	Temporary reduction in the quality of soil resources during the construction of the proposed development due to soil compaction, poor soil storage, run-off, water logging and contamination from leaks and spills.	<p>Code of Construction Practice</p> <p>A detailed Soil Management Plan building on the outline SMP will be submitted to and approved by the LPA and will form part of a Construction Environmental Management Plan (CEMP)</p> <p>Where possible land drains will be avoided</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4.5.14, Watercourses/drainage channels, 7.4, Land quality—soil management, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP —a detailed soil management plan which must accord with the measures set out in the outline soil management plan
AS-2	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2—Securing Mitigation	Temporary reduction in the quality of soil resources during the construction of the proposed development due to soil compaction, poor soil storage, run-off, water logging and contamination from leaks and spills.	<p>Code of Construction Practice</p> <p>Manged through the soil quality and management mitigation measures which include, but are not limited to the following:</p> <ul style="list-style-type: none"> ● Handling of site soils should always be conducted in accordance with the Construction Code of Practice for Sustainable Use of Soils on Construction Sites (Defra 2018); ● Soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic; ● Tracked/low ground pressure vehicles are used where possible throughout stripping and haulage to reduce structural damage through compaction; ● Soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and ● Stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows <p>Outline SMP</p> <p>The detailed SMP will include provision for management and monitoring for a period of at least 5 years following construction.</p>	Construction	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)	—a detailed soil management plan which must accord with the measures set out in the outline soil management plan
AS-3	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2—Securing Mitigation	Reduction in the quality of soil resources as a result of the construction of the proposed WWTP due to soil compaction, run-off, water logging and contamination from leaks and spills	<p>Code of Construction Practice</p> <p>Section 4.4—a detailed Soil Management Plan building on the outline SMP will be submitted to and approved by the LPA and will form part of a Construction Environmental Management Plan (CEMP)</p> <ul style="list-style-type: none"> ● Section 5.14 where possible land drains will be avoided (Section 5.14 of CoCP Part A). <p>Code of Construction Practice & Outline SMP</p> <p>Section 7.4 manged through the soil quality and management mitigation measures which include, but are not limited to the following:</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4.5.14, Watercourses/drainage channels, 7.4, Land quality—soil management, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 5.4, Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP —a detailed soil management plan which must accord with the measures set out in the outline soil management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Handling of site soils should always be conducted in accordance with the Construction Code of Practice for Sustainable Use of Soils on Construction Sites (Defra 2018); Soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic; Tracked/low ground pressure vehicles are used where possible throughout stripping and haulage to reduce structural damage through compaction; Soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and Stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows <p>Outline SMP</p> <p>The detailed SMP will include provision for management and monitoring for a period of at least 5 years following construction.</p> <p>The detailed plan will include provision for management and monitoring for a period of at least 5 years following construction for areas not covered by the LERMP (Appendix 8.14, App Doc 5.4.8.14)</p>			
AS-4	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2—Securing Mitigation	Reduction in the quality of soil resources within the land required for the proposed WWTTP due to soil compaction, run-off, water logging and contamination from leaks and spills	<p>Code of Construction Practice</p> <p>Provision / reinstatement of land drainage through implementation of Section 5.14 of the CoCP Part A (Watercourses/drainage channels,);</p>	Construction	Section 5.14, Watercourses/drainage channels, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement 8—CoCP DCO Schedule 2, Requirement 9—CEMP
AS-5	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2—Securing Mitigation	Temporary requirement of agricultural land results in effect on soil resources due to soil compaction, poor soil storage, run-off, water logging and contamination from leaks and spills to temporary change to use of soils during construction of the final effluent pipeline and the waste water transfer tunnel	<p>Code of Construction Practice</p> <p>Provision / reinstatement of land drainage through implementation of Section 5.14 of the CoCP Part A (Watercourses/drainage channels,);</p>	Construction	Section 5.14, Watercourses/drainage channels, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement 8—CoCP DCO Schedule 2, Requirement 9—CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
AS-6	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2—Securing Mitigation	Permanent loss of BMV land due to land required for the proposed WWTP, the access road and landscaping proposals set out within the landscape masterplan.	Code of Construction Practice & Outline SMP Application of appropriate soil handling practices through implementation of the outline SMP and requirement within Section 4.4 of the CoCP Part A (Construction Environment Management Plan (CEMP)) to prepare a SMP.	Construction	Sections 4.4 (CEMP) Para 4.4.4., and 7.4, Land quality—soil management Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP— a detailed soil management plan which must accord with the measures set out in the outline soil management plan
AS-7	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2—Securing Mitigation	Temporary loss of access to and use of agricultural land during construction of the Waterbeach pipeline.	Design Defined accesses to Waterbeach works areas Creation of temporary haul route section parallel to Hatridges' Lane to allow farming activities to continue. Code of Construction Practice & CTMP Minimising access disruption and disturbance through implementation of Section 7.6 of the CoCP Part A (Traffic and Transport) and CTMP including the requirement to agree temporary access through coordination with landowners, tenants and/or land agents.	Construction	Table 2-14 ES Chapter 6 Agricultural Land and Soils (App Doc Ref 5.2.6) Table 4-1 and Sections Section 5.2 (Temporary access points and construction road signage), and 6.3 (Adherence to Designated Routes) in Construction Traffic Management Plan (CTMP) (Appendix 19.7, App Doc Ref 5.4.19.7) Section 4.4 (CEMP) Para 4.4.4. and 7.6 (Traffic and transport) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	Requirement 4—Parameters—Schedule 7 access to works DCO Schedule 2, Requirement—7 Detailed design CEMP to include detailed CTMP
AS-8	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2—Securing Mitigation	Temporary loss of access to and use of agricultural land during construction of the Waterbeach pipeline.	Code of Construction Practice & Outline SMP Return land temporarily required during construction to previous use through reinstatement to original land use after construction in line with landowner/tenant requirements as required by section 7.4 of the CoCP Part A and through application of a SMP based on the outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3).	Construction	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 7.4, Land quality—soil management, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP
AS-9	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2—Securing Mitigation	Temporary loss of agricultural land from waste water transfer tunnel and treated effluent	Code of Construction Practice & Outline SMP Return land temporarily required during construction to previous use through reinstatement to original land use after construction in line with landowner/tenant requirements as required by section 7.4 of the CoCP Part A and through application of a SMP based on the outline SMP	Construction	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		pipelines, the outfall and habitat creation.			Section 5.4, Outline SMP (Appendix 6.3, App-Doc-Ref 5.4.6.3)	
AS-10	ES Chapter 06: Agriculture and Soils (App-Doc-Ref 5.3.6) Table 5.2—Securing Mitigation	Temporary requirement of land from farm businesses for construction of the waste water transfer tunnel and treated effluent transfer pipelines results in temporary disturbance from construction traffic and short-term land severance.	<p>Construction Traffic Management Plan</p> <p>To reduce impacts on farm businesses the Construction Traffic Management Plan includes the details of traffic management measures such as reduced speeds, signage and haul route and access points.</p> <p>Minimising temporary short-term impacts to farm businesses through application of the measures required by the CTMP in particular:</p> <ul style="list-style-type: none"> Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian Section 6.3 Adherence to Designated Routes 	Construction	Section 5.2 (Temporary access points and construction road signage) Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9 (vii)—CEMPDCO Schedule 2, Requirement 9 (2)(a)(vii) CEMP to include detailed CTMP, (2)(b)(vii) CEMP to include detailed CTMP
AS-12	ES Chapter 06: Agriculture and Soils (App-Doc-Ref 5.3.6) Table 5.2—Securing Mitigation	Temporary requirement of land from farm businesses for construction of the waste water transfer tunnel and treated effluent transfer pipelines results in temporary disturbance from construction traffic and short-term land severance	<p>Code of Construction Practice</p> <p>Minimising access disruption and disturbance through implementation of Section 7.6 of the CoCP Part A (Traffic and Transport) and the CTMP requirement to agree temporary access through coordination with landowners, tenants and/or land agents.</p> <p>Requirement within section 3 of the CoCP Part A (Application Doc Ref: 5.4.2.1) Part A (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of temporary changes to access</p>	Construction	Sections 3 (Community & Stakeholder Engagement), 4.4 (CEMP) Para 4.4.4., and Section 7.6 (Traffic and Transport) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1) Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9 (2)(a)(i)—CEMP to include detailed CLP Requirement 9 (2)(a)(vii) CEMP to include detailed CTMP Requirement 9 (2)(b)(i)—CEMP to include detailed CLP Requirement 9 (2)(b)(vii) CEMP to include detailed CTMP
AS-13	ES Chapter 06: Agriculture and Soils (App-Doc-Ref 5.3.6) Table 5.2—Securing Mitigation	Temporary requirement of land from farm businesses for construction of the Waterbeach pipeline results in temporary disturbance from construction traffic and short-term land severance.	<p>Construction Traffic Management Plan</p> <p>To reduce impacts on farm businesses the Construction Traffic Management Plan includes the details of traffic management measures such as reduced speeds, signage and haul route and access points.</p> <p>Minimising temporary short-term impacts to farm businesses through application of the measures required by the CTMP in particular:</p> <ul style="list-style-type: none"> Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian. 	Construction	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1) Sections 5.2 (Temporary Access Points) and 6.3 (Adherence to Designated Routes), Construction, Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9 (2)(a)(i)—CEMP to include detailed CLP Requirement 9 (2)(a)(vii) CEMP to include detailed CTMP Requirement 9 (2)(b)(i)—CEMP to include detailed CLP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes <p>Code of Construction Practice</p> <p>Minimising access disruption and disturbance through implementation of Section 7.6 of the CoCP Part A (Traffic and Transport) and the CTMP requirement to agree temporary access through coordination with landowners, tenants and/or land agents.</p> <p>Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A (Application Doc Ref: Appendix 2.1, App Doc Ref 5.4.2.1,) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of temporary changes to access.</p>			Requirement 9 (2)(b)(vii) CEMP to include detailed CTMP
AQ-1	ES Chapter 07: Air Quality (App Doc Ref 5.2.7), Table 5.2- Securing Mitigation	Short term emissions from construction traffic using the public highway results in short term reduction in local air quality	<p>Construction Traffic Management Plan</p> <p>Management of construction vehicle movements described within the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) to minimise the impacts from vehicle movements in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes; Section 6.9 requirement for speed restrictions to Burgess's Drive, Bannold Drive and Bannold Road as well as Clayhithe Road will be put in place in accordance with the Temporary Traffic Regulation Order set out within an article in the DCO. <p>Travel Plan</p> <p>Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods.</p>		<p>Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 6.3, Adherence to Designated Routes, Construction and 6.9 Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p> <p>Outline Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9)</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 (2)(a)(i) – CEMP to include detailed CLP</p> <p>Requirement 9 (2)(a)(vii) CEMP to include detailed CTMP</p> <p>Requirement 9 (2)(b)(i) – CEMP to include detailed CLP</p> <p>Requirement 9 (2)(b)(vii) CEMP to include detailed CTMP</p> <p>Requirement 12 Operational Worker Travel Plan</p>
AQ-2	ES Chapter 7: Air Quality (App Doc Ref 5.2.7), Table 5.2- Securing Mitigation	Temporary instances of dust creation from construction activities (such as land clearance, earthworks, materials handling) leading to impacts from construction dust	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) to minimise dust in particular:</p> <ul style="list-style-type: none"> Section 4.4 which requires the Principal Contractor(s) to produce an Air Quality/Dust Management Plan(s) before works commence on site. The Plan will be appended to or incorporated into the CEMP(s). The Plan will be appended to or incorporated into the CEMP(s); and Section 7.8. (Air Quality) which requires the following general measures will be put in place to minimise dust including but not limited to: <ul style="list-style-type: none"> Minimising the movement of construction traffic around the working area as far as possible; provision of adequate water supplies for effective dust/particulate matter suppression; 	Construction	Sections 4.4 (CEMP) Para 4.4.4., and 7.8 Air quality Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement 8 CoCP detailed AQMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> —sweeping and damping down of surfaces at regular intervals; —use of enclosed chutes and conveyors and covered skips; —where necessary the use of solid screens or barriers when activities with a high potential for dust generation are carried out; —removal of materials which have the potential to produce dust will from site as soon as possible, unless being re-used on-site. If they are being re-used on-site, they will be covered or stored in locations where there is less potential for impact; —positioning of stockpiles as far as practicable from residential areas and at least 10 metres from watercourses where practical; and —sealing of stockpiles by means of back blading the stockpile to help reduce dust and to not promote areas for wildlife habitat. 			
AQ-3	ES Chapter 7: Air Quality (App-Doc-Ref 5.2.7), Table 5.2– Securing Mitigation	Temporary instances of dust creation from construction activities (such as land clearance, earthworks, materials handling) leading to impacts from construction dust	<p>Code of Construction Practice</p> <p>Section 3.2 of Part B specifies that stockpiles associated with Shaft 5 will be back bladed with the back of the excavator bucket, to shape and compact the surface of the stockpile to control dust.</p> <p>Section 3.4 requires the following mitigation measures will be implemented:</p> <ul style="list-style-type: none"> ● Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary; ● Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to the local authority when asked; and ● Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., and 7.8 Air quality Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1)</p> <p>Section 3.2 & 3.4, Transfer Tunnel CoCP Part B (Appendix 2.2 App-Doc-Ref 5.4.2.2)</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 (2)(a)(x) CEMP to include detailed AQMP</p> <p>Requirement 9 (2)(b)(x) CEMP to include detailed AQMP</p>
AQ-4	ES Chapter 7: Air Quality (App-Doc-Ref 5.2.7), Table 5.2– Securing Mitigation	Temporary instances of dust creation from construction activities (such as land clearance, earthworks, materials handling) leading to impacts from construction dust	<p>Code of Construction Practice</p> <p>Section 3.4 of Part B requires following mitigation measures to be implemented:</p> <ul style="list-style-type: none"> ● Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary; ● Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to the local authority when asked; and 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., and 7.8 Air quality Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1)</p> <p>Section 3.2 & 3.4, Transfer Tunnel CoCP Part B (Appendix 2.2 App-Doc-Ref 5.4.2.2);</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 (2)(a)(x) CEMP to include detailed AQMP</p> <p>Requirement 9 (2)(b)(x) CEMP to include detailed AQMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> ● Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions. 			
AQ-5	ES Chapter 07: Air Quality (App-Doc-Ref 5.2.7), Table 5.2 – Securing Mitigation	Operation of energy plant requiring continuous emissions of nitrogen oxides to air resulting in reduced local air quality	<p>Energy Plant Design</p> <p>Energy plant will have suitable exhaust stack height and operate in accordance with the relevant MCPD emission limit values for energy plants which will be specified within a site-specific Environmental Permit.</p>	Operation	ES Chapter 2 Project Description Section 2.4 Sludge Treatment Centre para 2.4.3 (App-Doc Ref 5.2.2); ES Chapter 7, Table 2-19 Design Parameters of the draft DCO (App-Doc Ref 2.1)	DCO Schedule 3 DCO Schedule 2 – Requirement 4 – Parameters The Environmental Permit will include medium combustion plant directive emission limits and conditions for monitoring and reporting.
B-1	ES Chapter 8: Biodiversity, Table 5.2 – Securing Mitigation	Creation and management of habitats as part of the landscape masterplan results in beneficial impacts associated with more varied and quality habitat when compared to existing baseline habitats	<p>LERMP – landscape masterplan features</p> <p>Direct benefit through the habitat provisions and within the LERMP (Appendix 8.14, App-Doc Ref 5.4.8.14), in particular:</p> <ul style="list-style-type: none"> ● inclusion of a new mosaic of habitats within the landscape masterplan intended to link to existing habitat features of value (such as existing hedgerows and habitats as part of the CWS); and ● implementation of appropriate management measures to meet the BNG commitment which will enable replacement habitat if initial planting is not successful. 	Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14 Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11 – LERMP
B-2	ES Chapter 8: Biodiversity, Table 5.2 – Securing Mitigation	Creation and management of habitats as part of the landscape masterplan results in beneficial impacts associated with more varied and quality habitat when compared to existing	<p>LERMP long term management – detailed plan preparation</p> <p>The beneficial impact associated with the landscape masterplan will be delivered during operation through the long-term implementation of the LERMP (Appendix 8.14 App-Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO). This plan will be based on the LERMP and will be agreed with key stakeholders.</p>	Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11 – LERMP
B-2	ES Chapter 8: Biodiversity, Table 5.2 – Securing Mitigation	Whilst decommissioning accidental leaks and spills during the draining and cleaning of existing tanks and/or works to stop up the existing outfall could result in short term temporary impact to surface water including the river Cam	<p>Code of Construction Practice</p> <p>Management of decommissioning activities as described within the CoCP Part A (Appendix 2.1 Doc-Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site.</p> <p>The plans will be appended to or incorporated into the CEMP(s).</p> <p>Section 5.7 specifies the content of Pollution Incident Control Plan:</p> <ul style="list-style-type: none"> ● plan will detail procedures to deal with any pollution incident that may occur, including notification procedures including as relevant notification of the Applicant and where applicable local authorities, along with response procedures (including appropriate materials, equipment and resources, timescales and to minimise the effects. 	Decommissioning	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A which requires a Water Quality Management Plan (WQMP), Pollution Incident Control Plan (PICP) and Decommissioning Plan (Appendix 2.1, App-Doc Ref 5.4.2.1)	Requirement – 8 CoCP DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 (2)(a)(vi) CEMP to include detailed WQMP detailed PICP,

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> plan will complement and be consistent with the Emergency Preparedness Plan(s). <p>Section 7.5 includes measures to minimise run-off and the risk of runoff reaching ditches and watercourses.</p> <p>Outline Decommissioning Plan</p> <p>Management of decommissioning activities through application of measures within the outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan) which requires that the contractors to prepare a Decommissioning Plan</p>			
B-3	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2- Securing Mitigation	Whilst decommissioning accidental leaks and spills during the draining and cleaning of existing tanks could result in short term temporary impact to surface water including the river Cam	<p>Code of Construction Practice</p> <p>Management of decommissioning activities as described within the CoCP Part A (Appendix 2.1 Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site.</p> <p>The plans will be appended to or incorporated into the CEMP(s).</p> <p>Section 5.7 specifies the content of Pollution Incident Control Plan which will detail procedures to deal with any pollution incident that may occur, including notification procedures including as relevant notification of the Applicant and where applicable local authorities, along with response procedures (including appropriate materials, equipment and resources, timescales and to minimise the effects). The plan will complement and be consistent with the Emergency Preparedness Plan(s).</p> <p>These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery (used for decommissioning) to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained. 	Decommissioning	Sections 4.4 (CEMP) Para 4.4.4 and 5.7 (Pollution Incident Control Plan), Code of Construction Practice (CoCP) Part A which requires a Water Quality Management Plan (WQMP), Pollution Incident Control Plan (PICP) and Decommissioning Plan (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2, Requirement 9 (2)(a)(iii) CEMP to include detailed PICP, Requirement 9 (2)(b)(iii) CEMP to include detailed PICP, Requirement 9 (b) (xiv) CEMP to include detailed decommissioning plan
B-4	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2- Securing Mitigation	Potential for accidental leaks and spills during the draining and cleaning of existing tanks and or works	<p>Code of Construction Practice & Decommissioning Management Plan</p> <p>Management of decommissioning activities through application of measures within the outline Decommissioning Plan (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 4.4 (Construction</p>	Construction (decommissioning of the existing Cambridge	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A which requires a	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 (b) (xiv)

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		to stop the existing outfall which could result in short term temporary impact to surface water including the river Cam	Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App-Doc Ref 5.4.2.1) which sets out measures to control activities related to decommissioning.	WWTP to surrender permit)	Decommissioning Plan (Appendix 2.1, App-Doc Ref 5.4.2.1) Decommissioning Management Plan (App-Doc Ref 5.4.2.3).	CEMP to include detailed decommissioning plan
B-5	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2– Securing Mitigation	Direct and indirect impact on fish from operational of the outfall due to scour from higher flow events and from operational improvements so that effluent quality is improved	Design measures – fish mitigation Design measures to prevent or minimise impacts to fish are: <ul style="list-style-type: none"> ● inclusion of a non-return valve within the outfall chamber for storm flows to prevent ingress of fish to the chamber ● design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall 	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App-Doc Ref 5.2.2) Design Plans – Outfall (App-Doc Ref 4.13) ES Chapter 8, Table 2.10 (App-Doc Ref 5.2.2)	DCO Article 3
B-6	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2– Securing Mitigation	Direct and indirect impact on fish from operational of the outfall due to scour from higher flow events and from operational improvements so that effluent quality is improved	mplementation of an outfall management and monitoring plan to include ongoing monitoring measures to identify erosion/scour of the river bank. This may trigger the need for remediation including the application of further physical interventions.	Operation	ES Chapter 8 section 2.9 Mitigation measures adopted as part of the Proposed Development (App-Doc Ref 5.2.8)	DCO Scheduel 2 Requirement 10
B-7	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2– Securing Mitigation	indirect impact on fish (water quality) from operational of the outfall due to scour from higher flow events and from operational improvements so that effluent quality is improved	Storm Management Design The management of effluent quality and storm spill impacts through: <ul style="list-style-type: none"> ● design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam ● design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes ● design of storm storage volumes and flow rates to meet regulatory requirements; ● inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	ES Chapter 8, Table 2.10 (App-Doc Ref 5.2.28) App-Doc Ref 4.13 Design Plans – Outfall	DCO Article 3

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-8	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on badgers due to direct interface with habitat (including closure of outlier sett) and the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in close proximity to setts	<p>Measures in draft licence</p> <p>Direct and indirect impacts related to works to affecting badger will be through application of the mitigation measures in line with agreed Natural England licence conditions will be carried out (Draft Licence included Appendix 8.21, App Doc Ref 5.4.8.21) which requires the following:</p> <ul style="list-style-type: none"> provision of a tool box talk by the suitably experienced ecologist; completion of pre works checks; checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals; <p>securing of areas to prevent access by badger.</p>		Draft Natural England Mitigation Licence (App Doc Ref 5.4.8.21)	DCO Schedule 2 Requirement – 8 CoCP NE Licence
B-9	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on badgers due to direct interface with habitat (including closure of outlier sett) and the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in close proximity to setts	<p>Code of Construction Practice</p> <p>In addition to licence requirement the management of construction activities as described within the CoCP Part A and B (Appendix 2.1m App Doc Ref 5.4.2.1) in section 4.4 which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts including to ecological features. The CEMP will include requirements to apply best practice measures (including to locations not covered by the licence) during construction to prevent impacts to badger including:</p> <ul style="list-style-type: none"> completion of pre works checks (including areas not covered by licence); checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals <p>securing of areas to prevent access by badger</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., 5.9, (Lighting), and 7.2, (Ecology and Nature Conservation) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p> <p>Section 3.3, Waterbeach pipeline CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	DCO Schedule 2 Requirement – 8 CoCP DCO Schedule 2 Requirement 9 – CEMP
B-10	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	indirect impacts on badgers due to direct interface with habitat (including closure of outlier sett) and the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in close proximity to setts	<p>Lighting Strategy</p> <p>Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill)</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., 5.9, (Lighting), and 7.2, (Ecology and Nature Conservation) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p>	DCO Schedule 2 Requirement 14 – Construction lighting
B-11	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on bats (lighting and habitat related) due to the combination of temporary construction noise, use of temporary lighting, land	<p>Measures in Draft Licence (Bats)</p> <p>Direct and indirect impacts related to works to affecting bat habitat will be through application of the mitigation measures in line with agreed Natural England licence which requires the following:</p>	Construction	Draft Natural England Mitigation Licence (App Doc Ref 5.4.8.20)	DCO Schedule 2 Requirement – 8 CoCP DCO Schedule 2 Requirement 9 – CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		clearance and presence of people in close proximity	<ul style="list-style-type: none"> the use of wildlife sensitive lighting design as outlined in the draft Licence (Appendix 8.20, App-Doc Ref 5.4.8.20 such as <2700K, directional only with no upward orientation or light spill); and minimising severance of hedgerows and use of translocation of hedgerows to provide commuting habitat and foraging opportunities 		Lighting Design Strategy (Appendix 2.5, App-Doc Ref 5.4.2.5)	DCO Schedule 2 Requirement 14— Construction lighting
B-12	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Direct and indirect impacts on bats (lighting and habitat related) due to the combination of temporary construction noise, use of temporary lighting, land clearance and presence of people in close proximity	<p>Code of Construction Practice</p> <p>Management of construction impacts to terrestrial habitats that may affect bat population will be through further measures as described within the CoCP Part A and B (App-Doc Ref 5.4.2.1 & 2). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> Any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. In locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist <p>Management of lighting through the Lighting Design Strategy (Appendix 2.5, App-Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App-Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., 5.9, (Lighting), and 7.2, (Ecology and Nature Conservation) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)</p> <p>Section 3.3, Waterbeach pipeline CoCP Part B (Appendix 2.2, App-Doc Ref 5.4.2.2)</p> <p>Lighting Design Strategy (Appendix 2.5, App-Doc Ref 5.4.2.5)</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p> <p>DCO Schedule 2 Requirement 14— Construction lighting</p>
B-13	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Direct and indirect impacts on bats (lighting and habitat related) due to the combination of temporary construction noise, use of temporary lighting, land clearance and presence of people in close proximity to known utilised habitats	<p>LERMP—habitats</p> <p>Enhancement roost feature installation by mounting woodcrete type bat boxes suitable for a range of bat species to use, upon appropriate trees within the landscape masterplan; early planting of larger specimen trees and hedgerow plants within the landscape masterplan to provide vegetative features for commuting linkages and foraging resources as soon as possible; and thickening of hedgerows along the boundaries of the landscape masterplan area as appropriate, with native species plantings to enhance commuting linkages for bats to use.</p>	Operation	Figure 3.7 Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App-Doc Ref 5.4.8.14) Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App-Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11— Landscape, ecological and recreational management plan
B-14	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Direct and indirect impacts on bats (roosts) due to the combination of noise, use of temporary lighting, land clearance and presence of	<p>Measures within the draft licence</p> <ul style="list-style-type: none"> Provision of a tool box talk by the licenced bat ecologist; Completion of pre-works checks for works areas prior to the start of the works; 		Draft Licence (Appendix 8.20, App-Doc Ref 5.4.8.20)	DCO Schedule 2 Requirement 8 CoCP NE Licence

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		people in close proximity to known utilised habitats	<ul style="list-style-type: none"> Timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); and Installation of suitable bat boxes for use by crevice dwelling species on appropriate retained trees prior to disturbing works commencing, to facilitate continued opportunities for bats to roost. 			
B-15	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on breeding birds	<p>Code of Construction Practice</p> <p>Best practice measures in section 7.2 to operate in compliance with the 1981 Act:</p> <ul style="list-style-type: none"> pre works check by suitably experienced ecologist; avoidance of nesting bird season as appropriate to species found; and <p>clearance activities completed in accordance with approved methods</p>	Construction	Section 4.4 (CEMP) Para 4.4.4., and 7.2 (Ecology and Nature Conservation) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement – 8 CoCP Requirement 9 – CEMP
B-16	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on breeding birds (proposed WWTP access road and landscape masterplan area)	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to birds including best practice measures in section 7.2 applied during construction to:</p> <ul style="list-style-type: none"> complete pre works check by suitably experienced ecologist; avoid the nesting bird season as appropriate to any species found; and complete clearance activities completed in accordance with approved methods <p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce Birdstrike Hazard Management Plan before works commence on site. The plan will be appended to or incorporated into the CEMP(s). It will incorporate measures that</p> <ul style="list-style-type: none"> set out the required monitoring for changes to bird assemblages measures to prevent increased risk of attracting species of birdstrike concern. 	Construction	Section 4.4 (CEMP) Para 4.4.4., 5.15 (Cambridge Airport), and 7.2 (Ecology and Nature Conservation) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) Outline Wildlife Hazard Management Plan (Appendix 8.18, App-Doc Ref 5.4.8.18)	DCO Schedule 2 Requirement – 8 CoCP Requirement 9 – CEMP (2)(a)(iv) a detailed wildlife hazard management plan which must accord with the measures set out in the wildlife hazard management plan (2)(b)(iv) a detailed wildlife hazard management plan which must accord with the measures set out in the wildlife hazard management plan
B-17	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on breeding birds (proposed WWTP access road and landscape masterplan area)	<p>Landscape Masterplan</p> <p>Design measures include:</p> <ul style="list-style-type: none"> trees and woodland, scrub, grassland and seasonal ponds within the land required for the landscape masterplan contained with the LERMP to provide suitable habitat for a variety of bird species. 	Construction and Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 – LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> grassland seed mixes will incorporate grass and forb species to support a range of birds, including turtle doves. a range of bird nest boxes will be installed on suitable retained trees. 			
B-18	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 Securing Mitigation	Direct and indirect impacts on ditch macrophytes	<p>Code of Construction Practice</p> <p>Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s) and Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These will incorporate measures in the CoCP:</p> <ul style="list-style-type: none"> Section 7.5. (Water Resources and Flood Risk) which requires a series of general measures to be put in place to avoid and minimise impacts to surface water including but not limited to: <ul style="list-style-type: none"> best practice measures applied for management of leaks and spillages to prevent runoff reaching controlled waters limiting works to within 8 m of any watercourse or waterbody (other than for watercourse crossings, drainage/ecological mitigation works). Greater buffer distances may be required for the protection of protected species; identification of watercourses and land drains before construction works in that area commence and regularly checked for signs of silt. checking of excavation plant prior to use at open cut watercourse crossings to ensure it is in a sound condition and free of potentially contaminating materials; where possible, concrete lorries will return to their supplier or batching plant for wash out. Concrete wash out skips if required on site will be lined and located at least than 50 metres from a borehole or 10 metres from a watercourse or surface water drain. They will be placed on hardstanding or on the ground with plastic and membrane containment and clearly marked to avoid cross contamination. Any wash out areas within the working areas will be inspected weekly by the Site Manager to ensure there are no leaks or overflows. The pH of the wash out water will also be monitored; where needed the use of suitable concrete mixes in watercourses; surface water drainage around any batching plants will be controlled. where required adequate dewatering will be undertaken during excavation activities or construction of subsurface features and foundations (see the section on Dewatering below). Construction techniques may also be reviewed to determine whether an alternative approach is more appropriate. Following completion of in channel works, the channel will be cleared of debris/materials, the natural bed reinstated. 	Construction	Sections 4.4 (CEMP) Para 4.4.4., 5.13 (River work), 7.2, (Ecology and Nature Conservation), and 7.5, (Water resources and flood risk) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP Requirement 9 CEMP DCO Schedule 2 Requirement 10 OMMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>Management of silt during construction including meeting requirements of regulatory position statement (RPS)</p> <ul style="list-style-type: none"> — completion of works affecting watercourses and flood defences in accordance with the requirements of the relevant regulatory authority (Lead Local Flood Authority/Environment Agency/Internal Drainage Board). — requirement for all necessary consents and licences will be applied for and obtained from the relevant regulatory authority prior to the relevant works commencing on site. 			
B-193	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Direct and indirect impacts on ditch macrophytes during operation	<p>Outfall Design</p> <p>Design to incorporate bank and bed protection will be provided as part of the design. This will be in the form of rip rap bed protection and steel sheet piling to protect the banks as shown in the Design Plans— Outfall (App Doc Ref 4.13).</p>	Operation	<p>ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2)</p> <p>Design Plans— Outfall (App Doc Ref 4.13)</p> <p>ES Chapter 8, Table 2.10 (App Doc Ref 5.2.28)</p>	DCO Article 3
B-20	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2— Securing Mitigation ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Direct and indirect impacts on fish due to the combination of noise, the use of temporary lighting and works directly within and adjacent to the river and the potential short-term change in water quality from dewatering, run-off and from testing and commissioning activities	<p>Code of Construction Practice</p> <p>The best practice measures applied during construction are:</p> <ul style="list-style-type: none"> ● Section 7.2, Ecology and nature conservation, in respect Riparian and Aquatic Habitats specifically: <ul style="list-style-type: none"> — leaving bank and any aquatic vegetation in place for as long as practicable — removing the channel bed material prior to the excavation of the trench, storing the material separately material separately and replacing it once construction works are complete to promote rapid colonisation of the area by aquatic invertebrates and aquatic plants — maintaining the flow downstream of the crossing point — where possible completing works between August and October and/ or during low flow conditions to protect potential fish spawning or nursery sites ● CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to: <ul style="list-style-type: none"> — minimise the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidences; and — manage dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) ‘Temporary dewatering from excavations to surface water’ or Environmental Permit— whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour <p>Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental Protection Act 1990 (EPA) for the</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., 5.13 (River work), 7.2, (Ecology and Nature Conservation), 7.5 (Water resources and flood risk), and 7.7 (Noise and vibration) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>CoCP Part B Section 3.3 (Appendix 2.1, App Doc Ref 5.4.2.2)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p> <p>Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).</p>	<p>DCO Schedule 2 Requirement— 8 CoCP</p> <p>DCO Schedule 2 Requirement 9— CEMP</p> <p>DCO Schedule 2 Requirement 10— OMMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP.			
B-21	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2- Securing Mitigation	Direct and indirect impacts on fish due to the combination of noise, the use of temporary lighting and works directly within and adjacent to the river and the potential short-term change in water quality from dewatering, run-off and from testing and commissioning activities	Lighting Strategy CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).	Construction	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP Part B Section 3.3 (Appendix 2.1, App Doc Ref 5.4.2.2) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2 Requirement—8 CoCP DCO Schedule 2 Requirement 9—CEMP DCO Schedule 2 Requirement 10—OMMP DCO Schedule 2 Requirement 14— Construction lighting
B-22	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2- Securing Mitigation	Direct and indirect impacts on fish due to the combination of noise, the use of temporary lighting and works directly within and adjacent to the river and the potential short-term change in water quality from dewatering, run-off and from testing and commissioning activities	Commissioning Plan Management of commissioning activities through application of management plans, Section 8 (Appendix 2.5, App Doc Ref 5.4.2.5), and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors to prepare a Commissioning Plan	Construction	Sections 4.4 (CEMP) Para 4.4.4., and 7.2, (Ecology and Nature Conservation), and 7.5, (Water resources and flood risk) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).	DCO Schedule 2 Requirement—8 CoCP DCO Schedule 2 Requirement 9—CEMP (2)(b)(xiii) a detailed commissioning plan where the relevant phase includes commissioning which must accord with the outline commissioning plan; and
B-23	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2- Securing Mitigation	Direct and indirect impacts to otter due to construction within and adjacent to ditches, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam which could affect normal behaviour patterns resulting in diminished population	Code of Construction Practice Management of construction activities as described within the CoCP Part A and B—in particular section 4.4 Part A which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to: <ul style="list-style-type: none"> ● sensitive construction methodologies to include securing of areas to prevent access by otter; ● pre works checks for protected species by a suitably qualified ecologist; ● implement best practice measures in relation to the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. 	Construction	Sections 4.4 (CEMP) Para 4.4.4., 5.13 (River work) 7.2 (Ecology and Nature Conservation), 7.5 (Water resources and flood risk), and 7.7 (Noise and vibration) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP Part B Section 3.3 (Appendix 2.1, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement—8 CoCP DCO Schedule 2 Requirement 9—CEMP DCO Schedule 2 Requirement 10—OMMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-24	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2– Securing Mitigation	Direct and indirect impacts to otter due to construction within and adjacent to ditches, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam which could affect normal behaviour patterns resulting in diminished population	<p>Lighting Design Strategy</p> <p>Management of lighting through the Lighting Design Strategy (Appendix 2.5, App-Doc Ref 5.4.2.5)) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App-Doc Ref 5.4.2.1), which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill (thereby providing a night time safe transit route for otter).</p>	Construction	<p>Lighting Design Strategy (Appendix 2.5, App-Doc Ref 5.4.2.5))</p> <p>CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App-Doc Ref 5.4.2.1),</p>	<p>DCO Schedule 2 Requirement—8 CoCP</p> <p>DCO Schedule 2 Requirement 9—CEMP-DCO Schedule 2 Requirement 14—Construction lighting</p>
B-25	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2– Securing Mitigation	Direct and indirect impacts on reptiles during construction—	<p>Code of Construction Practice</p> <p>Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> complete pre works checks by suitably experienced ecologist complete clearance activities in accordance with approved methods to translocate reptiles potentially affected by the works to reinstatement of land temporarily used for construction <p>Section 7.2 (Ecology and Nature Conservation) which requires the Principal Contractor(s) to produce a Reptile Mitigation Strategy before works commence on site. It is proposed that the impact upon reptiles be mitigated through a combination of:</p> <ul style="list-style-type: none"> the use of reptile fencing (around the proposed WWTP), the practice of sensitive vegetation clearance and management including hard searches as appropriate local translocation. the provision of reptile specific ‘tool box talk’ to site staff prior to any work being carried out. <p>the use of staged cuts in a directional manner, as guided by the ECoW or other suitably experienced ecologist identified by the ECoW</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., and 7.2, (Ecology and Nature Conservation) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)</p> <p>Section 3 CoCP Part B (Appendix 2.2, App-Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement—8 CoCP</p> <p>DCO Schedule 2 Requirement 9—CEMP</p>
B-26	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2– Securing Mitigation	Direct and indirect impacts on reptiles in operation—	<p>Landscape Masterplan— Habitats</p> <p>Design measures to include a mosaic of suitable habitats (bare areas, grassland, scrub, seasonal ponds) along with reptile hibernacula within the land required for the landscape masterplan contained with the to provide suitable habitat for reptiles.</p>	Operation	Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App-Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11—LERMP
B-27	ES Chapter 8: Biodiversity (App-Doc	Direct and indirect impacts on river macrophytes-	<p>Code of Construction Practice</p> <p>Best practice measures applied during construction to minimise the risk of runoff reaching controlled waters (ditches and watercourses).</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4., and 7.2, (Ecology and Nature Conservation), and	DCO Schedule 2 Requirement—8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Ref 5.2.8), Table 5.2— Securing Mitigation		<p>Best practice measures applied for management of dewatering including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour.</p> <p>Inclusion of embedded ‘Green’ engineering features within river bank protection works—</p> <p>—Section 4.4 which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to ecological features, surface water, and impacts from the generation of noise. The best practice measures applied during construction in relation to fish are:</p> <ul style="list-style-type: none"> ● CoCP Part A, Section 7.2, Ecology and nature conservation, in respect Riparian and Aquatic Habitats specifically: <ul style="list-style-type: none"> —leaving bank and any aquatic vegetation in place for as long as practicable —removing the channel bed material prior to the excavation of the trench, storing the material separately and replacing it once construction works are complete to promote rapid colonisation of the area by aquatic invertebrates and aquatic plants —maintaining the flow downstream of the crossing point —where possible completing works between August and October and/or during low flow conditions to protect potential fish spawning or nursery sites ● CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to: <ul style="list-style-type: none"> —minimise the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidences; and —manage dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) ‘Temporary dewatering from excavations to surface water’ or Environmental Permit— whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour —CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP. 		7.5, (Water resources and flood risk) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 9—CEMP-DCO Schedule 2 Requirement 14 —Construction lighting</p> <p>DCO Schedule 2, Requirement 9 (2)(a)(vi) CEMP to include detailed WQMP, Requirement 9 (2)(b)(vi) CEMP to include detailed WQMP, DCO Schedule 2, Requirement 9 (2)(a)(iii) CEMP to include detailed PICP, Requirement 9 (2)(b)(iii) CEMP to include detailed PICP</p> <p>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river.</p>
B-28	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Direct and indirect impacts on Stow-cum-Quy Fen SSSI during construction due to, run-off, water logging and	Code of Construction Practice Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be	Construction	Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), 7.5 (Water resources and flood risk),	DCO Schedule 2, Requirement —8 CoCP DCO Schedule 2,

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		contamination from leaks and spills and air emissions.	<p>appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained <p>Application of measures to manage drilling fluid break out as defined within the CoCP Part A section 7.4.</p> <p>The management of air quality as set out within Section 7.8 of the CoCP Part A, Air quality, sets out a framework for the control of air quality during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an Air Quality/Dust Management Plan (AQMP) appended to/as part of the CEMP. This includes the following general measures to be will put in place to minimise emissions and avoid nuisance:</p> <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; the use of low emission vehicles and plant as far as possible; and the movement of construction traffic around the working area will be minimised as far as possible 		7.7(Noise and vibration, 7.8 (Air quality) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>Requirement 9 (2)(a)(vi) CEMP to include detailed WQMP, Requirement 9 (2)(b)(vi) CEMP to include detailed WQMP, DCO Schedule 2,</p> <p>Requirement 9 (2)(a)(iii) CEMP to include detailed PICP, Requirement 9 (2)(b)(iii) CEMP to include detailed PICP</p>
B-29	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on terrestrial invertebrates due to direct interface with habitat and the combination of noise, use of temporary lighting, land clearance, excavation, and presence of people in proximity	<p>Landscape Masterplan – Design</p> <p>Design measures to minimise loss of terrestrial habitat that may support invertebrate populations includes retaining the existing ditch with hedgerow within the land required for the landscape masterplan contained within the LERMP.</p> <p>The landscape masterplan includes a topographical and habitat variability to support some invertebrate species (e.g. mining bees) within “bee bank” bare earth patches.</p>	Operation	Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14) Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 – LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-30	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on water quality within the River Cam CWS Temporary works within the river bed during the construction of the treated effluent discharge outfall to the River Cam reduce water quality in the River Cam CWS	Code of Construction Practice Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 Part A which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including: <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses; management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. Dewatering impacts within the River Cam CWS managed through the temporary works design which specifies the use of cofferdam to create dry working area within the River Cam 	Construction	ES Chapter 2 Project description para 2.12.9 (App-Doc Ref 5.2.2) Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), and 7.5 (Water resources and flood risk), in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) Section 3.3. COCP Part B (App-Doc Ref 5.4.2.2)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 (2)(a)(vi) CEMP to include detailed WQMP Requirement 9 (2)(b)(vi) CEMP to include detailed WQMP DCO Schedule 2, Requirement 9 (2)(a)(iii) CEMP to include detailed PICP, Requirement 9 (2)(b)(iii) CEMP to include detailed PICP
B-31	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on water quality within the River Cam CWS Temporary works within the river bed during the construction of the treated effluent discharge outfall to the River Cam reduce water quality in the River Cam CWS	Construction Methods Dewatering impacts within the River Cam CWS managed through the temporary works design which specifies the use of cofferdam to create dry working area within the River Cam	Construction	ES Chapter 2 Project description para 2.12.9 (App-Doc Ref 5.2.2)	DCO Schedule 2 Requirement 10 Outfall management plan Environmental Permit (Flood Risk Activities) Environmental Permit (Impounding)
B-32	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts to River Cam CWS during construction due to, run-off, water logging and contamination from leaks and spills.	Code of Construction Practice Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2 App-Doc Ref 5.4.2.1, 5.4.2.2) in particular Part A section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include best practice measures requirements including: <ul style="list-style-type: none"> minimising run-off and the risk of runoff reaching ditches and watercourses such as through the siting of launch and recovery pits associated with trenchless construction methods to be located a minimum of 8m from top of bank management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. measures applied for management of leaks and spillages 	Construction	ES Chapter 2 Project description para 2.12.9 (App-Doc Ref 5.2.2) Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), and 7.5 (Water resources and flood risk), in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) Section 3 of the CoCP Part B (Appendix 2.1, App-Doc Ref 5.4.2.2)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 (2)(a)(vi) CEMP to include detailed WQMP Requirement 9 (2)(b)(vi) CEMP to include detailed WQMP DCO Schedule 2, Requirement 9 (2)(a)(iii) CEMP to include detailed PICP, Requirement 9 (2)(b)(iii) CEMP to include detailed PICP DCO Schedule 2 Requirement 10 Outfall management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs which will be prepared) where spillage can be more easily contained 			<p>Environmental Permit (Flood Risk Activities)</p> <p>Environmental Permit (Impounding)</p>
B-33	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Direct and indirect impacts on water vole- Direct and indirect impacts on water vole due to construction of the outfall and chamber, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam	<p>Measures in Draft Licence (Water Vole) and Code of Construction Practice</p> <p>Direct and indirect impacts related to works to ditches will be through water vole displacement measures in line with agreed Natural England licence conditions (Draft Licence included App Doc Ref 5.4.8.22). These measures also include the:</p> <ul style="list-style-type: none"> provision of a tool box talk by the licenced water vole ecologist completion of pre works checks for works within 5m of watercourse / works crossing ditches prior to the start of the works application for licence amendments if deemed appropriate habitat creation (ditches) timing of works between 15 February and 15 April or as otherwise agreed by licence condition application for licence amendments if deemed appropriate and inclusion of additional measures within the application restricting temporary works to cross ditches to a 6m working width and habitat (ditch) reinstatement 	Construction	<p>Draft Licence App Doc Ref 5.4.8.22).</p> <p>Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), and 7.5 (Water resources and flood risk), in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3 of the CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p> <p>Natural England Mitigation Licence</p> <p>DCO Schedule 2 Requirement 11—LERMP</p>
B-34	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Direct and indirect impacts on water vole due to construction of the outfall and chamber, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam	<p>Outfall and River Bank Design</p> <p>Inclusion of embedded ‘green’ engineering features within river bank protection works;</p>	Operation	<p>ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2)</p> <p>Design Plans—Outfall (App Doc Ref 4.13)</p>	<p>DCO Schedule 3</p> <p>DCO Schedule 2 Requirement 10 Outfall Management Plan</p>
B-35	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Direct and indirect impacts on water vole due to construction of the outfall and chamber, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), and 7.5 (Water resources and flood risk), in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p> <p>DCO Schedule 2 Requirement 10</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		people in close proximity to ditches and the river Cam	<ul style="list-style-type: none"> minimising the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidents; and management of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit – whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour <p>Best practice measures as detailed within CoCP parts A and B applied for management of dewatering including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour.</p> <p>Lighting</p> <p>The management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).</p>		Section 3.1 of the CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)	<p>Environmental Permit (Flood Risk Activities)</p> <p>Environmental Permit (Impounding)</p>
B-36	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts to water vole due to construction within and adjacent to ditches, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam	<p>Measures within draft licence</p> <p>Direct and indirect impacts related to works to ditches will be through water vole displacement measures in line with agreed Natural England licence conditions. These measures also include the:</p> <ul style="list-style-type: none"> provision of a tool-box talk by the licenced water vole ecologist completion of pre-works checks for works within 5m of watercourse / works crossing ditches prior to the start of the works application for licence amendments if deemed appropriate habitat creation (ditches) Timing of works between 15 February and 15 April or as otherwise agreed by licence condition application for licence amendments if deemed appropriate and inclusion of additional measures within the application restricting temporary works to cross ditches to a 6m working width and habitat (ditch) reinstatement. 	Pre-construction Construction	Natural England Mitigation Licence Appendix 8.22, App Doc Ref 5.4.8.22); Section 4.4 and 7.2, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2, Requirement 8 – CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>Natural England Mitigation Licence</p>
B-37	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts to badger due to direct interface with habitat (including closure of outlier	<p>Measures in Draft Licence (Badger)</p> <p>Direct and indirect impacts related to works to affecting badger will be through application of the mitigation measures in line with agreed</p>	Construction	Draft Licence (Appendix 8.21, App Doc Ref 5.4.8.21) Section 3.3 of the CoCP Part	Natural England Mitigation Licence

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		sett), temporary stopping up of setts and the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in proximity	<p>Natural England licence conditions will be carried out (Draft Licence included Appendix 8.21, App Doc Ref 5.4.8.21) which requires the following:</p> <ul style="list-style-type: none"> ● provision of a tool-box talk by the suitably experienced ecologist; ● completion of pre-works checks; ● checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals ● securing of areas to prevent access by badger. 		B (Appendix 2.1, App Doc Ref 5.4.2.2)	
B-38	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts to badger due to direct interface with habitat (including closure of outlier sett), temporary stopping up of setts and the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in proximity	<p>Code of Construction Practice</p> <p>In addition to licence requirement the management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in section 4.4 which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts including to ecological features. The CEMP will include requirements to apply best practice measures (including to locations not covered by the licence) during construction to prevent impacts to badger including:</p> <ul style="list-style-type: none"> ● completion of pre-works checks (including areas not covered by licence); ● checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals ● securing of areas to prevent access by badger 		<p>Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation) in CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.3 of the CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>Natural England Mitigation Licence</p>
B-39	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts to bats due to the combination of temporary construction noise, use of temporary lighting, land clearance and presence of people in close proximity which could affect normal behaviour patterns resulting in diminished population	<p>Measures in Draft Licence (Bats)</p> <p>Direct and indirect impacts related to works to affecting bat roosts will be through application of the mitigation measures in line with agreed Natural England licence conditions which requires the following:</p> <ul style="list-style-type: none"> ● provision of a tool-box talk by the licenced bat ecologist; ● completion of pre-works checks for works areas prior to the start of the works ● timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); ● installation of suitable bat boxes for use by crevice dwelling species on appropriate retained trees prior to disturbing works commencing, to facilitate continued opportunities for bats to roost. ● use of wildlife sensitive lighting design as outlined in the Natural England licence; and ● minimising severance of hedgerows and reinstatement of hedgerows to provide commuting habitat and foraging opportunities 	Construction	<p>Draft Licence included Appendix 8.20, App Doc Ref 5.4.8.20</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p>	Natural England Mitigation Licence

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-40	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts to bats due to the combination of temporary construction noise, use of temporary lighting, land clearance and presence of people in close proximity which could affect normal behaviour patterns resulting in diminished population	<p>Code of Construction Practice</p> <p>Management of construction impacts to terrestrial habitats that may affect bat population will be through further measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2 App Doc Ref 5.4.2.1 & 5.4.2.2). These will be set out in the CEMP related to the specific works activity:</p> <p>Any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority.</p> <p>In locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist.</p>	Construction	Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation) in CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement 8 – CoCP DCO Schedule 2, Requirement 9 – CEMP
	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts to bats due to the combination of temporary construction noise, use of temporary lighting, land clearance and presence of people in close proximity which could affect normal behaviour patterns resulting in diminished population	<p>Landscape Masterplan</p> <ul style="list-style-type: none"> ● Enhancement roost feature installation by mounting woodcrete type bat boxes suitable for a range of bat species to use, upon appropriate trees within the landscape masterplan; ● early planting of larger specimen trees and hedgerow plants within the landscape masterplan to provide vegetative features for commuting linkages and foraging resources as soon as possible; and ● thickening of hedgerows along the boundaries of the landscape masterplan area as appropriate, with native species plantings to enhance commuting linkages for bats to use. 	Construction	Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14) Figure 3.7 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 – LERMP
B-41	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Direct and indirect impacts on bats (roosts) due to the combination of noise, use of temporary lighting, land clearance and presence of people in close proximity to known utilised habitats	<p>Measures in Draft Licence (Bats)</p> <p>Licence included Appendix 8.20, App Doc Ref 5.4.8.20) which requires the following:</p> <ul style="list-style-type: none"> ● provision of a tool box talk by the licenced bat ecologist; ● completion of pre works checks for works areas prior to the start of the works ● timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); ● installation of suitable bat boxes for use by crevice dwelling species on appropriate retained trees prior to disturbing works commencing, to facilitate continued opportunities for bats to roost; ● use of wildlife sensitive lighting design as outlined in the Natural England licence; and 	Construction	Natural England Mitigation Licence	DCO Schedule 2, Requirement 8 – CoCP DCO Schedule 2, Requirement 9 – CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> minimising severance of hedgerows and reinstatement of hedgerows to provide commuting habitat and foraging opportunities 			
B-42	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Direct and indirect impacts on bats (roosts) due to the combination of noise, use of temporary lighting, land clearance and presence of people in close proximity to known utilised habitats	<p>Code of Construction Practice</p> <p>Management of construction impacts to terrestrial habitats that may affect bat population will be through further measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2.2). These will be set out in the CEMP related to the specific works activity:</p> <p>Any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority.</p> <p>In locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist.</p> <p>Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).</p>		<p>Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation) in CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p>	<p>DCO Schedule 2, Requirement 8—CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p>
B-43	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Direct and indirect impacts on breeding birds (final effluent pipeline and transfer tunnel) due to direct interface with habitat and the combination of noise, use of temporary lighting, land clearance, excavation, and presence of people in close proximity	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to birds including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> complete pre-works check by suitably experienced ecologist; avoid the nesting bird season as appropriate to any species found; and complete clearance activities completed in accordance with approved methods 	Construction	Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2, Requirement 8—CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p>
B-44	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Direct and indirect impacts on terrestrial invertebrates due to direct interface with habitat and the combination of noise, use of temporary lighting, land clearance, excavation, and	<p>Landscape Masterplan—Habitats</p> <p>Design measures to minimise loss of terrestrial habitat that may support invertebrate populations includes retaining the existing ditch with hedgerow within the land required for the landscape masterplan contained with the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14).</p>	Operation	<p>Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14)</p> <p>Section 4 Landscape, Ecological and Recreational</p>	DCO Schedule 2 Requirement 11—LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		presence of people in proximity	The landscape masterplan includes a topographical and habitat variability to support some invertebrate species (e.g. mining bees) within “bee bank” bare earth patches. Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP		Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14)	
B-45	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Direct and indirect impacts on terrestrial invertebrates due to direct interface with habitat and the combination of noise, use of temporary lighting, land clearance, excavation, and presence of people in proximity	<p>Code of Construction Practice</p> <p>Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to terrestrial habitats are:</p> <ul style="list-style-type: none"> the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats. the implementation of tree/hedgerow protection measures which are shown on the Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App-Doc Ref 5.4.8.17). the implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3, App-Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows <p>Further measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1 & 5.4.2.2). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. in locations of retained hedgerow there shall be consideration of additional “thickening” to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist. 	Construction	<p>Sections 4.4 Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (Appendix 2.5, App-Doc Ref 5.4.2.5).</p> <p>Outline Soil Management Plan (Appendix 6.3, App-Doc Ref 5.4.6.3)</p> <p>Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App-Doc Ref 5.4.8.17).</p>	<p>DCO Schedule 2, Requirement—8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p> <p>DCO Schedule 2, Requirement 14—Construction Lighting</p>
B-46	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Accidental leaks or spills during the draining and cleaning of tanks within the existing Cambridge WWTP and stopping up and ceasing use of the existing Cambridge WWTP outfall	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) to minimise impacts to water and land, in particular:</p> <ul style="list-style-type: none"> Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s) before works 	Construction	Sections 4.4 Para 4.4.4, and 7.5 (Water Resources and Flood Risk) CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	<p>DCO Schedule 2, Requirement—8 CoCP</p> <p>DCO Schedule 2, and detailed PICP, and a detailed decommissioning plan where the relevant</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		results in short term temporary impact to water quality in the river Cam	<p>commence on site. The Plan will be appended to or incorporated into the CEMP(s). The Plan will be appended to or incorporated into the CEMP(s).</p> <ul style="list-style-type: none"> Section 7.5. (Water Resources and Flood Risk) which requires the following general measures will be put in place to minimise dust including but not limited to: Best practice measures applied for management of leaks and spillages to prevent runoff reaching controlled waters Management of decommissioning activities through application of measures within the outline Decommissioning Plan (Appendix 2.5 App Doc Ref 5.4.2.5) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan) which requires that the contractors to prepare a Decommissioning Plan 		Outline Decommissioning Plan (Appendix 2.5 App Doc Ref 5.4.2.5)	phase includes decommissioning which must accord with the outline decommissioning plan.
B-47	v-ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2- Securing Mitigation	Light spill into retained habitats from operation of lighting within the proposed WWTP such as Low Fen Drove Way Grasslands and Hedgerows CWS — once vegetation established	<p>Landscape Masterplan</p> <p>Direct benefit to be realised through the habitat provisions and within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14):</p> <ul style="list-style-type: none"> inclusion of a new mosaic of habitats within in the landscape masterplan intended to link to existing habitat features of value (such as existing hedgerows and habitats as part of the CWS); implementation of appropriate management measures to meet the BNG commitment which will enable replacement habitat if initial planting is not successful. 	Operation	Figure 3.1, 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14 Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2, Requirement —7 Detailed design DCO Schedule 2 Requirement 11—LERMP
B-48	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2- Securing Mitigation	Light spill into retained habitats from operation of lighting within the proposed WWTP such as Low Fen Drove Way Grasslands and Hedgerows CWS — once vegetation established	<p>Lighting Design</p> <p>Use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP</p>	Operation	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2, Requirement —7 Detailed design
B-49	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2- Securing Mitigation	Light spill into retained habitats from operation of lighting within the proposed WWTP impacts Low Fen Drove Way Grasslands and Hedgerows CWS which will not benefit from the screening effect of established vegetation until year 15 of operation	<p>Lighting Design</p> <p>Design measures to prevent or minimise artificial light are:</p> <ul style="list-style-type: none"> wildlife sensitive lighting design incorporated into detailed design exclusion of lighting provision on the access road the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP habitat creation within the landscape masterplan that serves a screening function once mature <p>Detailed lighting design will comply with the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5). This includes the requirement for lighting to accord with The Institute of Lighting Professionals Advice</p>	Operation	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2, Requirement —7 Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			Note—Guidance Note 1 for the Reduction of Obtrusive Light (GN01/21) (2021) or any later revisions of this document published by the Institute and Guidance Note 08/18—Bats and Artificial Lighting.			
B-50	-ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Loss of river habitats due to construction of the outfall and associated river bank protection works (river bank and river bed)	<p>Outfall and River Bank Design</p> <p>Design measures to avoid or minimise loss of river habitat within the River Cam are:</p> <ul style="list-style-type: none"> designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river; minimising extent of river bank protection works; and design that includes embedded ‘Green’ engineering features within river bank protection works that seeks to maintain hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation. <p>Implementation of final design for outfall and river protection works to include measures required by the Environment Agency secured by the Environmental Permit (flood risk activities).</p>	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2) Design Plans—Outfall (App Doc Ref 4.13)	Environmental Permit (Flood risk activities)
B-60	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Beneficial impacts to common reptiles and their habitats due to habitat creation within the landscape masterplan and its ongoing management through the LERMP	<p>Landscape Masterplan—Habitats</p> <p>Provision and maintenance of new habitats within the landscape masterplan for reptile species to use.</p> <p>Sensitive vegetation management strategy within the LERMP in place in line with the 1981 Act</p> <p>Direct benefit to reptiles to be realised through measures within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14):</p> <ul style="list-style-type: none"> implementation of sensitive vegetation management strategy that avoids direct injury or killing of reptiles; inclusion of bare soil scrapes within the landscape masterplan, on south-facing slopes of earth banks suitable for reptiles to use to bask (insolate); and maintenance measures to ensure habitats are sustained 	Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14) Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11—LERMP
B-70	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Operational noise impacts on breeding birds due to operation of the mechanical-electrical elements (such as pumps and compressors) of the proposed WWTP and during activities to implement the LERMP	<p>Design of proposed WWTP</p> <p>Design measures to minimise operational noise impacts by design including consideration of location, layout and plant/equipment selections and acoustic screening from the earth bank and enclosures to reduce noise emissions.</p> <p>Noise at the proposed WWTP will be controlled under the terms of an Environmental Permit, which requires the adoption of best available techniques (BAT) to control noise at source.</p>		Table 2-10 in ES Chapter 8: Biodiversity (App Doc Ref 5.2.8)	Environmental permit

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-80	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Operational noise impacts on breeding birds due to operation of the mechanical-electrical elements (such as pumps and compressors) of the proposed WWTTP and during activities to implement the LERMP	Landscaping Management Control of intermittent noise impacts associated with implementation of the LERMP through avoidance of vegetation management within the landscape masterplan area during bird-breeding season		Table 2-10 in ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8)	DCO Schedule 2 Requirement 11—LERMP
B90	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Temporary and permanent removal of ditch habitat during construction due to the temporary open cut ditch crossings; and permanent loss due to the landscaping and structural proposals	Code of Construction Practice Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2 App-Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to ditch habitats are: <ul style="list-style-type: none"> ● limiting any permanent crossing of ditches to a maximum width of Hedgerow and ditch crossings minimised to 6m; ● the implementation of measures set out under section 7.2 of the CoCP Part A in respect Riparian and Aquatic Habitats specifically: ● leaving bank and any aquatic vegetation in place for as long as practicable ● removing the channel bed material prior to the excavation of the trench, storing the material separately and replacing it once construction works are complete to promote rapid colonisation of the area by aquatic invertebrates and aquatic plants ● maintaining the flow downstream of the crossing point ● restoration of original bank profile on completion of the pipeline crossings ● where possible completing works between August and October and/or during low flow conditions to protect potential fish spawning or nursery sites 		Sections 4.4 Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) Section 3—CoCP Part B (Appendix 2.1, App-Doc Ref 5.4.2.2)	DCO Schedule 2, Requirement 8—CoCP DCO Schedule 2, Requirement 9—CEMP
B-91	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Temporary and permanent removal of ditch habitat during construction due to the temporary open cut ditch crossings; and permanent loss due to the landscaping and structural proposals	Landscape Masterplan Design measures to avoid or minimise loss of habitat through retaining existing ditch with hedgerow within the land required for the landscape masterplan contained with the LERMP (Appendix 8.14 App-Doc Ref 5.4.8.14)		Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11—LERMP
	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Temporary and permanent removal of ditch habitat during construction due to	Outfall Design		ES Chapter 2: Project Description Para 2.12.4 (App-Doc Ref 5.2.2)	

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Ref 5.2.8), Table 5.2— Securing Mitigation	the temporary open cut ditch crossings; and permanent loss due to the landscaping and structural proposals	Designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile		Design Plans—Outfall (App Doc Ref 4.13) BNG Report (Appendix 8.13 App Doc Ref 5.4.8.13)	DCO Schedule 2 Requirement 10 Outfall Management Plan
B-92	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Temporary and permanent removal of ditch habitat during construction due to the temporary open cut ditch crossings; and permanent loss due to the landscaping and structural proposals	Ditch Creation Creation of new up to 3.65km of new ditch habitat as described in Appendix C of the BNG Report (Appendix 8.13 App Doc Ref 5.4.8.13)		BNG Report (Appendix 8.13 App Doc Ref 5.4.8.13) ES Chapter 8 Table 2-11 (App Doc Ref 5.2.8)	DCO Schedule 3
B-93	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Removal of habitats in relation to temporary and permanent use of the land (such as for laydown areas, open cut trenching, HDD drilling, construction compounds, proposed WWTP and associated access) resulting in habitat loss, fragmentation and severance of wildlife corridors-	Landscape Masterplan Habitats removed to be replaced by plantings of habitats of higher ecological value in line with landscape masterplan within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14).		Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11—LERMP
B-94	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Removal of habitats in relation to temporary and permanent use of the land (such as for laydown areas, open cut trenching, HDD drilling, construction compounds, proposed WWTP and associated access) resulting in habitat loss, fragmentation and severance of wildlife corridors-	Code of Construction Practice Management of construction activities will be through measures as described within the CoCP Part A and B—in particular Part A section 4.4 which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to terrestrial habitats are: <ul style="list-style-type: none"> the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats. the implementation of tree/hedgerow protection measures which are shown on the Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17). the implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows 		Sections 4.4 Para 4.4.4, 7.2 (Nature conservation and ecology) and Section 7.4 (Land Quality) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP
B-95	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2— Securing Mitigation	Removal of habitats during the temporary use of land for the construction of the Waterbeach pipeline	Code of Construction Practice Best practice measures to operate in compliance with the 1981 Act as appropriate:		Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology)	DCO Schedule 2, Requirement—8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> — pre works check by suitably experienced ecologist — best practice vegetation clearance methods 		CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement 9—CEMP
B-96	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Removal of habitats during the temporary use of land for the construction of the Waterbeach pipeline	<p>Code of Construction Practice Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to terrestrial habitats are:</p> <ul style="list-style-type: none"> — the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible — the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats. — Minimising construction working width — Reinstatement of areas temporarily disturbed during construction — the implementation of tree/hedgerow protection measures which are shown on the Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17). — the implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows. 		<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17).</p> <p>Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3)</p>	<p>DCO Schedule 2, Requirement—8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP including a detailed soil management plan which must accord with the measures set out in the outline soil management plan</p>
B-97	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Potential surface water impacts at Allicky Farm Pond CWS due to spills and leaks within the proposed WWTP migrating beyond the site	<p>Operating Practices</p> <p>Operation in accordance with environmental permit for the proposed WWTP including implementation of EMS which will include materials storage controls, spill control measures, emergency response procedures</p> <p>Segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy</p>	Operation	<p>ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)</p> <p>Drainage strategy (Appendix 20.12, App Doc Ref 5.4.20.12)</p>	<p>DCO Schedule 2 Requirement 15—Detailed drainage strategy</p> <p>Environmental Permit</p>
B-98	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Potential surface water impacts at Allicky Farm Pond CWS due to spills and leaks within the proposed WWTP migrating beyond the site	<p>Drainage Design</p> <p>Segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy</p>	Operation	Drainage strategy (Appendix 20.12, App Doc Ref 5.4.20.12)	<p>DCO Schedule 2 Requirement 7—Detailed design</p> <p>DCO Schedule 2 Requirement 15—Detailed drainage strategy</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-99	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Temporary disturbance of badger sett and associated habitat due to the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in proximity	<p>Code of Construction Practice</p> <p>Management of impacts to badger as a result of construction activities are through measures as described within the in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts including to ecological features. The CEMP will include requirements to apply best practice measures during construction to prevent impacts to badger including:</p> <ul style="list-style-type: none"> • completion of pre-works checks across the Existing Cambridge WWTP (due to badgers being considered a mobile species); • checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals • securing of areas to prevent access by badger 		Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement 8 – CoCP DCO Schedule 2, Requirement 9 – CEMP
B-100	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Construction within the land required for the proposed WWTP and landscape masterplan results in temporary impacts to the non-statutory designated site: Low Fen Drive Way Grassland and Hedges CWS	<p>Landscape Masterplan</p> <p>Plan does not include removal of vegetation from the CWS.</p> <p>Plan includes provision of a buffer of a minimum of 10m between works areas and extent of CWS.</p>		Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2, Requirement 10 – LERMP
B-101	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Construction within the land required for the proposed WWTP and landscape masterplan results in temporary impacts to the non-statutory designated site: Low Fen Drive Way Grassland and Hedges CWS	<p>Code of Construction Practice</p> <p>Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to ecological features, surface water, and impacts from the generation of noise. The best practice measures applied during construction in relation to these aspects are:</p> <ul style="list-style-type: none"> • CoCP Part A, Section 7.2, Ecology and nature conservation, and Part B, section 3.3 which: <ul style="list-style-type: none"> — require the prohibition of vegetation removal from the CWS — requires the routing of works access through existing pathways that cross the CWS — requires the provision of a buffer of a minimum of 10m between works areas and extent of CWS. • CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to: <ul style="list-style-type: none"> — minimising the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidents; and — management of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) ‘Temporary dewatering from excavations to surface water’ 		Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology), 7.5 (Water and flood risk), 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2, Requirement 8 – CoCP DCO Schedule 2, Requirement 9 – CEMP DCO Schedule 2 Requirement 14 – Construction lighting

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>or Environmental Permit—whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour</p> <p>CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP.</p> <p>Wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill) along with dust control measures (such as wetting materials).</p>			
B-102	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Construction within the land required for the proposed WWTP and landscape masterplan results in temporary impacts to the non-statutory designated site: Low Fen Drive Way Grassland and Hedges CWS due to a combination of noise, emissions to air, use of temporary lighting, land clearance and presence of people.	<p>Code of Construction Practice</p> <p>Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to ecological features, surface water, and impacts from the generation of noise. The best practice measures applied during construction in relation to these aspects are:</p> <ul style="list-style-type: none"> ● Wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill) along with dust control measures (such as wetting materials); ● CoCP Part A, Section 7.2, Ecology and nature conservation, and Part B, section 3.3 which ● require the prohibition of vegetation removal from the CWS ● requires the routing of works access through existing pathways that cross the CWS ● requires the provision of a buffer of a minimum of 10m between works areas and extent of CWS. ● CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to: <ul style="list-style-type: none"> ● minimising the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidents; and ● management of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) ‘Temporary dewatering from excavations to surface water’ or Environmental Permit—whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour ● CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the 		Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology), 7.5 (Water and flood risk), 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2, Requirement 8—CoCP DCO Schedule 2, Requirement 9—CEMP DCO Schedule 2 Requirement 14—Construction lighting

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			Environmental Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP.			
B-103	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2—Securing Mitigation	Temporary water quality impacts on Stow-cum-Quy Fen SSSI during construction due to, run-off, water logging and contamination from leaks and spills.	<p>Code of Construction Practice</p> <p>Best practice measures as detailed within CoCP parts A and B applied during construction to minimise the risk of runoff reaching ditches and watercourses</p> <p>Best practice measures in relation to the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002.</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 Part A which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained. 		<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology), and 7.5 (Water and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.1—3.3 CoCP Part B (Doc Ref 5.2.2.2)</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p>
B-104	Chapter 08: Biodiversity Table 5.2—Securing Mitigation	Dewatering during the construction of the outfall temporarily reduces water quality within the River Cam CWS	<p>Code of Construction Practice</p> <p>Best practice measures as detailed within CoCP parts A and B applied during construction to minimise the risk of runoff reaching ditches and watercourses</p> <p>Best practice measures as detailed within CoCP parts A and B applied for management of dewatering activities including treating dewatering effluent prior to discharge and control of dewatering discharges to</p>		<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology), and 7.5 (Water and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p> <p>DCO Schedule 2, Requirement 10—Environmental Permit</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>prevent scour</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1, App-Doc-Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. <p>Dewatering impacts within the River Cam CWS managed through the temporary works design which specifies the use of cofferdam to create dry working area within the River Cam</p> <p>Phasing of construction activities, Section 3.1 of the CoCP Part B, in relation to completion of in river works in summer months when water levels are expected to be lower</p>		<p>ES Chapter 2 Project Description para 2.12.9 (App-Doc-Ref 5.2.2)</p> <p>Section 3.1 CoCP Part B (Appendix 2.1, App-Doc-Ref 5.4.2.2)</p>	
B-105	ES Chapter 8: Biodiversity (App-Doc Ref 5.2.8), Table 5.2 – Securing Mitigation	Temporary works within the river bed during the construction of the treated effluent discharge outfall to the River Cam reduce water quality in the River Cam CWS	<p>Code of Construction Practice</p> <p>Best practice measures as detailed within CoCP parts A and B applied during construction to minimise the risk of runoff reaching ditches and watercourses.</p> <p>Best practice measures as detailed within CoCP parts A and B applied for management of dewatering activities including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour.</p> <p>Dewatering controls</p> <ul style="list-style-type: none"> Dewatering impacts within the River Cam CWS managed through the temporary works design which specifies the use of cofferdam to create dry working area within the River Cam 		<p>ES Chapter 2 Project Description para 2.12.9 (App-Doc-Ref 5.2.2)</p> <p>Sections 4.4 (CEMP) Para 4.4.4, and 7.4 (Land quality), and 7.5 (Water and flood risk), CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1)</p> <p>Section 3.1 CoCP Part B (Appendix 2.1, App-Doc-Ref 5.4.2.2)</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>Environmental Permit</p>
CR-1	ES Chapter 09: Climate resilience (App-Doc Ref 5.2.9), Table 5.2 – Securing Mitigation	Higher maximum summer temperatures and in combination weather events lead to mechanical and electrical equipment failure	<p>Operational Monitoring</p> <p>Monitoring of condition during temperature extremes</p>	Operation	<p>ES Chapter 11 Section 2.8, and Table 5.1</p> <p>ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App-Doc-Ref 5.2.2)</p> <p>Asset Management Plan (Appendix 9.1, App-Doc-Ref 5.4.9.1)</p>	Requirement 18 – Operational Asset Management Plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	ES Chapter 09: Climate resilience (App Doc Ref 5.2.9), Table 5.2—Securing Mitigation	Higher maximum summer temperatures: efficiency of boilers and CHP unit	Asset Management Applicant's asset management plan to include scheduling of maintenance and renewal works to improve efficiency of units	Operation	ES Chapter 11 Section 2.8, and Table 5-1 ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2) Asset Management Plan (Appendix 9.1, App Doc Ref 5.4.9.1)	Requirement 18—Operational Asset Management Plan
CR-2	ES Chapter 09: Climate resilience (App Doc Ref 5.2.9), Table 5.2—Securing Mitigation	Increased winter rainfall and heavy rainfall events leads to structural damage and flooding within the proposed WWTP	Drainage Design Surface water drainage design avoids damage to or water ingress into buildings and structures Upgrade of the surface water drainage with larger pipe diameters and storage towards the end of the century.	Construction	ES Chapter 11 Section 2.8 and Table 5-1 Drainage Strategy (App Doc Ref 5.20.4)	DCO Schedule 2 Requirement 7 Detailed design DCO Schedule 2 Requirement 15—Detailed drainage strategy
CR-3	ES Chapter 09: Climate resilience (App Doc Ref 5.2.9), Table 5.2—Securing Mitigation	Increased winter rainfall and heavy rainfall events leads to structural damage and flooding within the proposed WWTP	Operational Management Management plans and business continuity plans for extreme weather conditions The Environmental Permit will include conditions requiring a written EMS which will include management systems to cover pollution prevention and emergency responses	Operation	ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2) ES Chapter 11 Section 2.8 and Table 5-1 Asset Management Plan (Appendix 9.1, App Doc Ref 5.4.9.1)	Environmental Permit
CR-4	ES Chapter 09: Climate resilience (App Doc Ref 5.2.9), Table 5.2—Securing Mitigation	Increased winter rainfall and heavy rainfall events leads to structural damage and flooding within the proposed WWTP	Operational Management Monitoring the response of the Proposed WWTP surface water drainage system to intense rainfall events and recording occurrences of surface water flooding The Environmental Permit will include conditions requiring a written EMS which will include management systems to cover pollution prevention and emergency responses	Operation	ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2) ES Chapter 11 Section 2.8 and Table 5-1 Drainage Strategy (App Doc Ref 5.20.4)	Environmental Permit
CR-5	Chapter 09: Climate resilience Table 5.2—Securing Mitigation	Increased winter rainfall and higher fluvial flows: damage to the outfall structure and riverbank	Operational Management Periodic monitoring of structure conditions	Operation	ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2	Requirement 18—Operational Asset Management Plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
					Maintenance (App-Doc-Ref 5.2.2) ES-Chapter 11 Section 2.8, and Table 5-1	
CR-6	Chapter 09: Climate resilience Table 5.2—Securing Mitigation	Greater seasonal range between wetter winters and drier summers: ground movement	Operational Management Controlled through operational asset inspection and repair programme including period asset inspections	Operation	ES-Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App-Doc-Ref 5.2.2) ES-Chapter 11 Section 2.8, and Table 5-1 Asset Management Plan (Appendix 9.1, App-Doc-Ref 5.4.9.1)	Requirement 18—Operational Asset Management Plan
CR-7	ES-Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Increased seasonal winter rainfall and heavy rainfall events	Operational Management Inspection and maintenance regime to keep pipes clear and operating effectively.	Operation	ES-Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App-Doc-Ref 5.2.2) ES-Chapter 11 Section 2.8, and Table 5-1	Requirement 18—Operational Asset Management Plan
CR-8	ES-Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Increased winter rainfall and heavy rainfall events: biodiversity mitigation habitats	Surface Water Drainage Design Surface water drainage design in accordance with the Drainage Strategy (Appendix 20.12, App-Doc-Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency’s Approach to Groundwater Protection, Feb 2018 (Version 1.2)	Operation	Drainage Strategy (Appendix 20.12, App-Doc-Ref 5.4.20.12).	DCO-Schedule 2 Requirement 15—Drainage
CR-9	ES-Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Increased winter rainfall and heavy rainfall events: biodiversity mitigation habitats	Operational Management Maintenance, repair and replanting of seasonal ponds	Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc-Ref 5.4.8.14)	DCO-Schedule 2 Requirement 11—LERMP
CR-10	ES-Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Reduced summer rainfall and increased drought conditions: biodiversity mitigation habitats	Landscape Masterplan Diversity of species in final planting specification	Pre-construction	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc-Ref 5.4.8.14)	DCO-Schedule 2 Requirement 11—LERMP
CR-11	ES-Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Reduced summer rainfall and increased drought	Landscape Masterplan Creation of the seasonal ponds to retain rainwater in the summer	Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management	DCO-Schedule 2 Requirement 11—LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		conditions: biodiversity mitigation habitats			Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14 Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14	
CR-12	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Reduced summer and rainfall and increased winter rainfall: tree planting	Landscape Masterplan Drought tolerant species selection Adaptive management to consider how future wooded areas and new planting will be watered.	Pre-construction	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14 Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11—LERMP
CR-13	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Reduced summer and rainfall and increased winter rainfall: tree planting	Detailed Management and Monitoring plan (LERMP) Adaptive management to consider how future wooded areas and new planting will be watered.	Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11—LERMP
CR-14	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Reduced summer rainfall and increased drought conditions: landscaping and tree planting	Landscape Masterplan Species diversity and choice of drought resilient tree species. Landscape Management Plan to replace dieback of wooded area with tree species that thrive in future climates locally	Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14 Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11—LERMP
CR-15	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Reduced summer rainfall and increased drought conditions: landscaping and tree planting	Detailed Management and Monitoring plan (LERMP) Landscape Management Plan to replace dieback of wooded area with tree species that thrive in future climates locally Approval and implementation of a detailed management and monitoring plan	Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11—LERMP
CR-16	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Reduced summer rainfall and increased drought conditions: landscaping and tree planting	Surface Water Drainage Design Transfer of rainwater collected within the earth bank to the drainage network in the landscaped area Detailed surface water drainage design will comply with the Drainage Strategy Drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2)	Operation	Drainage Strategy (Appendix 20.12, App-Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15—Drainage

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
CR-17	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Warmer, wetter winters leading to increases in pest and disease outbreaks	Landscape Masterplan Diversity in planting species Landscape management—approval and implementation of a detailed management and monitoring plan	Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14 Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11—LERMP
CR-18	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Increased winter heavy rainfall events and summer drought conditions: erosion of soils	Drainage Strategy Surface water runoff design avoids erosion and scour Drainage to accord with requirements set out within The Environment Agency’s Approach to Groundwater Protection, Feb 2018 (Version 1.2)	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15—Drainage
CR-18	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Increased winter heavy rainfall events and summer drought conditions: erosion of soils	Landscape Masterplan Landscape management design avoids exposed desiccated soils Landscape management to identify soil erosion and vegetation management	Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14 Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11—LERMP
CR-19	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Increased winter rainfall and heavy rainfall events: river scour	Outfall and River Bank Design River bank and river bed protection is included within the outfall design. CFD modelling of discharge at the outfall includes consideration of scour impacts and the assessment includes a 20% climate change uplift	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) Design Plans—Outfall (App Doc Ref 4.13 ES Chapter 09 Section 2.9 and Table 5.2 (App Doc Ref 5.2.9) Chapter 20—Appendix 20.7—Outfall CFD Report (pp Doc Ref 5.4.20.7)	
CR-20	ES Chapter 09: Climate resilience, Table 5.2—Securing Mitigation	Increased winter rainfall and heavy rainfall events: river scour	Outfall Management Plan River bank and river bed protection is included within the outfall design. CFD modelling of discharge at the outfall includes consideration of scour impacts and includes a 20% climate change uplift	Operation	ES Chapter 2: Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) ES Chapter 09 Section 2.9 and Table 5.2 (App Doc Ref 5.2.9) Chapter 20—Appendix 20.7—Outfall CFD Report (pp Doc Ref 5.4.20.7)	DCO Schedule 2 Requirement 11—Outfall

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
CA-1	Chapter 10: Carbon, Table 5.2—Securing Mitigation	Climate change emissions contributions through GHGs associated with operation of the proposed WWTP	Carbon Management Plan Implementation of an Operational Carbon Management Plan	Operation	ES Chapter 10 Section 2.4 and Table 5.2 (App-Doc Ref 5.2.10)	DCO Schedule 2 Requirement 21—Carbon management plan
CA-2	Chapter 10: Carbon, Table 5.2—Securing Mitigation	Climate change emissions contributions through GHGs associated with operation of the proposed WWTP	Design—Solar infrastructure Inclusion of solar panels in the inner slope of the earth bank (for the preferred option of G2G). Requirement to update Carbon model to account for detailed design of the Proposed Development to monitor further carbon savings through detailed design when compared to the baseline DMO design	Construction	ES Chapter 2: Project Description Section 2.13 further associated development and site-wide provisions (App-Doc Ref 5.2.2) ES Chapter 10 Section 2.4 and Table 5.2 (App-Doc Ref 5.2.10)	DCO Schedule 2 Requirement 7 DCO Schedule 2 Requirement 21—Carbon management plan (plan cannot be prepared until carbon model update)
CA-3	ES Chapter 10 Table 5.2—Securing Mitigation	Climate change emissions contributions through GHGs associated with operation of the proposed WWTP	BREAAAM Gateway building to be designed to achieve BREEAM “Excellent” standard	Construction	ES Chapter 2: Project Description Section 2.13 Further associated development and site-wide provisions, Further associated development, (Gateway Building) (App-Doc Ref 5.2.20) ES Chapter 10 Section 2.4 and Table 5.2 (App-Doc Ref 5.2.10)	DCO Schedule 2 Requirement 7—Detailed design
CA-4	Chapter 10: Carbon, Table 5.2—Securing Mitigation	Whole life carbon of the proposed WWTP	Landscape Masterplan Land use change acting to reduce emissions over the whole life of the assessment	Construction Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App-Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11—LERMP
CA-5	ES Chapter 10 Carbon, Table 5.2—Securing Mitigation	Whole life carbon of the proposed WWTP	Carbon Management Plan Measures adopted in operation act to reduce emissions over the whole life of the assessment: <ul style="list-style-type: none">● Follow the Net Zero to 2030 Strategy● Implement the Operational worker travel plan to encourage mode shift in transport	Operation	ES Chapter 10 Section 2.4 and Table 5.2 (App-Doc Ref 5.2.10) QWTP (Appendix 19.8, App-Doc Ref 5.4.19.8)	DCO Schedule 2 Requirement 21—Carbon management plan DCO Schedule 2 Requirement 12 Travel Plan
CA-6	ES Chapter 10: Carbon, Table 5.2—Securing Mitigation	Capital carbon as a result of materials and activity to construct the Proposed Development	Design Optimization—Detailed Design Design optimisation at detailed design stage informed by carbon model that seeks to further reduce capital carbon through: <ul style="list-style-type: none">● Continued innovation review● Materials specifications● Design of efficient construction and temporary works	Construction	ES Chapter 10 Section 2.4 and Table 5.2 (App-Doc Ref 5.2.10)	DCO Schedule 2 Requirement 7—Detailed Design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
CO-1	Chapter 11: Community Table 5.2—Securing Mitigation	Provision of new community resources through new Discovery Centre provides benefit	Discovery Centre The opportunity for enhanced provision of community resource through the inclusion of Discovery Centre and continued operation throughout the operational lifetime of the proposed WWTP (by appointment) Requirement to monitor usage of the Discovery Centre	Operation	ES Chapter 2: Project Description Section 2.13 further associated development and site-wide provisions (App Doc Ref 5.2.2) ES Chapter 11 Section 2.8 and Table 5.2	
CO-2	Chapter 11: Community Table 5.2—Securing Mitigation	Provision of a new bridleway provides benefit to recreational users (horse riders) through additional equestrian resource	Design—New Bridleway Opportunity for access to the area in proximity to the land required for the proposed WWTP will be enhanced for equestrians by the Change of status for up to 1.03km of existing farm track to provide a new Public Right of Way (bridleway)	Operation	Figure 3.14 within Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11—LERMP
CO-3	Chapter 11: Community Table 5.2—Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access to recreational resources and informal open spaces	Outfall Design Design measures to prevent or minimise impacts to recreational users: <ul style="list-style-type: none"> ● Design of outfall so as not to affect width and gradient of footpath (PRoW 85/6) ● Design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river and along the banks ● Design of the outfall so that it integrates into the existing bank and allows for the reinstatement to existing levels Approved outfall design secured through conditions with the Environmental Permit (Flood Risk Activities)	-Operation	ES Chapter 2: Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) Design Plans—Outfall (App Doc Ref 4.13)	Environmental Permit (flood risk activities) DCO Schedule 2 Requirement 7—Detailed Design
CO-4	Chapter 11: Community Table 5.2—Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access to recreational resources and informal open spaces	Approval and implementation of an Outfall Management Plan	-Operation	ES Chapter 2: Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2)	DCO Schedule 2—Requirement 10
CO-5	Chapter 11: Community Table 5.2—Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access to recreational resources and informal open spaces	Landscape Masterplan Direct benefits to recreation to be through measures within the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14): <ul style="list-style-type: none"> ● Opportunity for access to the area in proximity to the land required for the proposed WWTP will include formalising access through the provision of permissive paths and leisure cycling access within the LERMP ● Change of status for up to 1.03km of existing farm track to provide a new Public Right of Way (bridleway) 	Operation	Figure 3.12—3.14 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11—LERMP
CO-6	Chapter 11: Community	The presence of permanent infrastructure creates a permanent change to access to recreational	Landscape Masterplan Long-term application of the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed	Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP)	DCO Schedule 2 Requirement 11—LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2—Securing Mitigation	resources and informal open spaces	management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to users this includes the requirement to complete user survey at least twice a year to understand how people are interacting with the recreational space and accessing the wider network of PRow and permissive paths.		(Appendix 8.14, App Doc Ref 5.4.8.14)	
CO-7	Chapter 11: Community Table 5.2—Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access to recreational resources and informal open spaces	Design—Horningsea Road Enhancements for recreational users through: <ul style="list-style-type: none"> Improvements to the footway on the east and west of Horningsea Road New pedestrian crossing to access the landscape masterplan area 		ES Chapter 2: Project Description, Section 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2) Design Plans—Highways and Site Access (App Doc Ref 4.11)	Requirement 7—Detailed Design
CO-8	Chapter 11: Community Table 5.2—Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access in the provision of two recreational resources and informal open spaces	Landscape Masterplan Opportunity for access to the area in proximity to the land required for the proposed WWTP will include formalising access through the provision of permissive paths and leisure cycling access within the LERMP	Operation	Figure 3.12—3.14 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14) Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11—LERMP
CO-9	Chapter 11: Community Table 5.2—Securing Mitigation	Temporary requirement for land to construct the Waterbeach pipeline affects access to CBS Automotive	Code of Construction Practice Management of impacts to land temporarily required managed through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2.2) and CTMP: <ul style="list-style-type: none"> requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction requirements to maintain access CTMP Implementation of the CTMP in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which: <ul style="list-style-type: none"> requires connectivity/access to community facilities and residential properties to be maintained during works. requires connectivity/access to community facilities and residential properties to be maintained during works 	Construction	Section 4.4 (CEMP Para 4.4.4, Section 7.2 (Ecology and conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Construction Traffic Management Plan Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2, Requirement—8 CoCP
CO-10	Chapter 11: Community Table 5.2—Securing Mitigation	Temporary changes to access affecting residents on Low Fen Drove Way due to use during construction for access	Construction Sequencing and Access Design Sequencing construction of the permanent access at the start to minimise disruption to Low Fen Drove Way	Construction	ES Chapter 2 Sections 2 para 2.9.3 and 3.1 3.1 Construction phasing and sequence of assembly (App Doc Ref 5.2.2)	DCO SCHEDULE 2 Requirement 7—Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
					Design Plans—Highways and Site Access (App-Doc Ref 4.11)	DCO Schedule 2, Requirement—8 CoCP
					Section 7.6, CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement 9—CEMP
					Sections 6.3 of the Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	
CO-11	Chapter 11: Community Table 5.2—Securing Mitigation	Temporary changes to access-affecting residents on Low Fen Drive Way due to use during construction for access	<p>Construction Traffic Management Plan</p> <p>Implementation access controls as set out in Section 6.3 of the CTMP and Traffic and Transport measures of the CoCP in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works). Requirement within section 3 of the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref: 5.4.2.1, 5.4.2.2) Part A (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements, diversions etc 	Construction	Section 7.6, CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement—8 CoCP
					Section 6.3 of the Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	
					Community Liaison Plan (App-Doc Ref 7.8)	
CO-12	Chapter 11: Community Table 5.2—Securing Mitigation	Temporary changes to recreational resources and open space—Waterbeach PRoW (130/16, 130/10, 130/6 and 130/8) due to the temporary crossings by the pipeline construction	<p>Code of Construction Practice</p> <p>Provision of gated crossings and appropriate signage to communicate temporary diversions</p>	Construction	Sections 4.4 (CEMP) and 7.6 (Traffic and transport) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement—8 CoCP
CO-13	Chapter 11: Community Table 5.2—Securing Mitigation	Temporary changes to recreational resources and open spaces—Fen Ditton (PRoW 85/6 and PRoW 85/8) due to the temporary in-river construction works to construct the outfall	<p>Design—Temporary diversion</p> <p>Temporary diversion of the PRoW 85/6 at the outfall works area using 85/8 and a temporary path to re-join the PRoW 85/6 upstream of the outfall works area</p>	Construction	Section 7.6 (Traffic and transport) CoCP Part A Appendix 2.1, (App-Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement—8 CoCP
					Sections 6.3 of the Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7) Community Liaison Plan (App-Doc Ref 7.8)	DCO Schedule 2, Requirement 9—CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan,

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
CO-14	Chapter 11: Community Table 5.2—Securing Mitigation	Temporary changes to recreational resources and open spaces—Fen Ditton (PRoW 85/6 and PRoW 85/8) due to the temporary in-river construction works to construct the outfall	<p>Code of Construction Practice</p> <p>Provision of diversions and appropriate signage to communicate temporary diversions in particular:</p> <ul style="list-style-type: none"> Implementation of section 7.6 of the CoCP Part A which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period. Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion <p>Section 7.6 which includes a requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area</p>	Construction	<p>Sections 3 (Community & Stakeholder Engagement) and 7.6 (Traffic and transport) CoCP Part A Appendix 2.1, (App-Doc Ref 5.4.2.1)</p> <p>Sections 6.7 of the Construction Traffic Management Plan (App-Doc Ref 5.4.19.7)</p> <p>Community Liaison Plan (App-Doc Ref 7.8)</p>	<p>DCO Schedule 2, Requirement—8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p> <p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP including a detailed community liaison plan which must accord with the measures set out in the community liaison plan</p>
CO-15	Chapter 11: Community Table 5.2—Securing Mitigation	Temporary changes to recreational resources and open spaces due to the temporary in-river construction works to construct the outfall that will affect the navigable width of the river	<p>Code of Construction Practice—River Navigation</p> <p>Measures to manage the minimum width that must be retained and provide advance warning to users of the river are outlined in section 3.1 of CoCP Part B (Appendix 2.2, App-Doc Ref 5.4.2.2).</p> <p>Measures to manage the minimum width that must be retained and provide advance warning to users of the river are outlined in section 3.1 of CoCP Part B (Appendix 2.2, App-Doc Ref 5.4.2.2) in particular:</p> <ul style="list-style-type: none"> Requirement within section 3 of the CoCP Part A and B (Appendix 2.1 & 2.2, Application Doc Ref: 5.4.2.1, 5.4.2.2) Part A (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period Requirement within section 3 of the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref: 5.4.2.1, 5.4.2.2) Part A (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion Approval and implementation of an Outfall Management Plan 	Construction	<p>Section 3.1, CoCP Part B (Appendix 2.2, App-Doc Ref 5.4.2.2)</p> <p>ES Chapter 2: Project Description Section 2.12 The Outfall (App-Doc Ref 5.2.2)</p> <p>Community Liaison Plan (App-Doc Ref 7.8)</p>	<p>DCO Schedule 2, Requirement—8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p> <p>DCO Schedule 2, Requirement 10—Outfall management plan</p>
CO-16	Chapter 11: Community Table 5.2—Securing Mitigation	Temporary changes to recreational resources and open spaces Horningsea Road	<p>Construction Traffic Management Plan</p> <p>Management of construction impacts to Horningsea Road through the implementation of the CTMP (Application Document Ref 5.4.19.7) in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes 		<p>Section 7.6, CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) 1)</p> <p>Sections 6.3 and 6.9 of the Construction Traffic</p>	<p>DCO Schedule 2, Requirement—8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works). 		Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7);	
H-1	Chapter 12: Health Table 5.2—Securing Mitigation	Changes in access to areas of open space and recreation, including PRow and the ability for local communities to undertake physical activity and live active lifestyles—Horningsea, users of Low Fen-Drove Way, Chesterton, properties on the eastern end of Fen Road and Milton	<p>Design—Temporary Diversions</p> <p>Diversions and appropriate signage to communicate temporary diversions as detailed in the CoCP Part A. Implementation of section 7.7 of the CoCP Part A (Traffic and Transport) includes measures for temporary traffic control and measures to manage the impact upon users of the PRow during the construction period.</p> <p>Implementation of the CTMP in particular:</p> <ul style="list-style-type: none"> section 6.3 Adherence to Designated Routes section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM-PM peaks section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works 	Construction	<p>Sections 4.4 (CEMP) para 4.4.4 and 7.7 (Traffic and transport), CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7);</p> <p>ES-Chapter 2:Project Section 3.8, Construction access, Access to the Final Effluent (FE) and storm pipeline works area (App Doc Ref 5.2.2)</p> <p>Rights of Way Plans (App Doc Ref 4.6);</p>	DCO Schedule 2, Requirement—8 CoCP
H-2	Chapter 12: Health Table 5.2—Securing Mitigation	Changes in access to local services as a result of construction activities and changes to travel routes and delays	<p>Construction Traffic Management Plan</p> <p>The CTMP states that there will be no construction traffic through Horningsea village. Section 4.2 of the CTMP states that hours of construction traffic operation will avoid the AM and PM peak periods as well as school pick-up and drop-off hours.</p>	Construction	<p>Sections 4.2 of the Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)</p>	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP
H-3	Chapter 12: Health Table 5.2—Securing Mitigation	Changes to health and wellbeing due to a combination of an increase in noise, air quality, dust, odour, traffic and visual effects due to works within the existing Cambridge WWTP, and works to construct the Waterbeach pipeline and Clayhithe	<p>Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport (Application Document Ref 5.2.19) and Chapter 17: Noise and vibration (Application Document Ref 5.2.17).</p> <p>Code of Construction Practice</p> <p>Management of construction activities that may impact community health and wellbeing will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1 & 5.4.2.2):</p> <ul style="list-style-type: none"> the management of air quality as set out within Section 7.8 of the CoCP Part A, Air quality, sets out a framework for the control of air quality during construction, identifying a number of ‘standard’ mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an Air Quality/Dust Management Plan (AQMP) appended to/as part of the CEMP. This includes the following general measures to be put in place to minimise emissions and avoid nuisance: 	Construction	<p>Sections 4.4 (CEMP), 3 (Community & Stakeholder Engagement), 7.7 (Noise and vibration) and 7.8 (Air quality) of CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)</p> <p>Outline Construction Worker Travel Plan (5.4.19.9)</p>	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> — the engines of all vehicles and plant onsite will be turned off when not in use; — low emission vehicles and plant will be used as far as possible; and — movement of construction traffic around the working area will be minimised as far as possible ● the management of noise impacts as set out within the CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP. <ul style="list-style-type: none"> — Restriction of working hours to avoid sensitive time periods for works at Shaft 4 and the Outfall. — Use of solid site hoarding/temporary acoustic barriers at Shaft 4, Waterbeach construction compound and around HDD pit locations/HDD plant during continuous working periods ● management of construction vehicle movements described within the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) to minimise disruption on the public highway in particular: <ul style="list-style-type: none"> — Section 6.3 Adherence to Designated Routes — Section 6.9 requirement for speed restrictions to Burgess's Drove, Bannold Drove and Bannold Road as well as Clayhithe Road will be put in place in accordance with the Temporary Traffic Regulation Order set out within an article in the DCO — Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods. ● the management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill). ● Removal of residual sludge via suction pump and taken offsite for treatment or treated onsite such as in a quick lime dosing plant. Implementation of Section 6, Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3) 		<p>Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p>	

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Use of odour suppression equipment, such as fogging/misting systems. Section 7.8, Construction odours of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1). Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion 			
H-4	Chapter 12: Health Table 5.2—Securing Mitigation	Changes to health and wellbeing due to noise, air quality, dust, odour, traffic and visual effects	<p>Code of Construction Practice</p> <p>Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport (Application Document Ref 5.2.19) and Chapter 17: Noise and vibration (Application Document Ref 5.2.17).</p>	Construction	<p>4.4 (CEMP), 7.7 (Noise and vibration) and 7.9 (Waste Management and Resource Use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, Appendix 19.7 App Doc Ref 5.4.19.7),</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p>
H-5	Chapter 12: Health Table 5.2—Securing Mitigation	Changes to health and wellbeing due to noise, air quality, dust, odour, traffic and visual effects—Fen Ditton	<p>Code of Construction Practice</p> <p>Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport (Application Document Ref 5.2.19) and Chapter 17: Noise and vibration (Application Document Ref 5.2.17).</p>	Construction	<p>4.4 (CEMP), 7.7 (Noise and vibration) and 7.9 (Waste Management and Resource Use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p>
	Chapter 12: Health Table 5.2—Securing Mitigation	Changes to health and wellbeing due to a combination of an increase in noise, air quality, dust, odour, traffic and visual effects due to the use of Fen Road and works to construct the Waterbeach pipeline	<p>Code of Construction Practice</p> <p>Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport (Application Document Ref 5.2.19) and Chapter 17: Noise and vibration (Application Document Ref 5.2.17).</p>	Construction	<p>Sections 4.4 (CEMP), 7.7 (Noise and vibration) and 7.9 (Waste Management and Resource Use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),</p>	<p>DCO Schedule 2, Requirement 8 CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP</p>
H-6	Chapter 12: Health Table 5.2—Securing Mitigation	Changes to social cohesion due to the presence of new infrastructure changing established accesses and connectivity either side of the area of land required for the proposed WWTP	<p>Landscape Masterplan</p> <p>Management of potential community impacts through the inclusion of pedestrian and leisure cycling connections within the landscape masterplan to provide formalised access and retain connectivity</p>	Operation	Figure 4-1 within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
H-7	Chapter 12: Health Table 5.2—Securing Mitigation	Potential risk to human health from due to potential sources of contamination during construction that may generate hazardous waste and substances (e.g., from hazardous landfill sites in the county or pollution incidents such as spills and leaks)	As detailed Chapter 16: Material resources and waste (Application Document Ref 5.2.16). Code of Construction Practice Management of human health risks from the creation of hazardous waste and use of hazardous substances through the application of measures within Section 7.9 (Waste Management and Resource Use) of the CoCP Part A in relation to minimising and appropriately managing waste in accordance with environmental regulations through preparation of CEMP, and SWMP	Construction	Sections 4.4 (CEMP), and 7.7 (Noise and vibration), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP
H-8	Chapter 12: Health Table 5.2—Securing Mitigation	Potential risk to human health from hazardous waste and substances	Environmental Management System Preparation of operational management plan associated with the EMS procedures as required by the permitting process.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit
H-9	Chapter 12: Health Table 5.2—Securing Mitigation	Potential risk to human health from hazardous waste and substances	Code of Construction Practice Management of human health risks from the creation of hazardous waste and use of hazardous substances through the application of measures within Section 7.9 (Waste Management and Resource Use) of the CoCP Part A in relation to minimising and appropriately managing waste in accordance with environmental regulations through preparation of CEMP, and SWMP	Construction	Sections 4.4 (CEMP), and 7.7 (Noise and vibration), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP
H-10	Chapter 12: Health Table 5.2—Securing Mitigation	Potential risk to human health from water pollution.	Code of Construction Practice Management of construction activities as described within the CoCP Part A, in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974) including: <ul style="list-style-type: none"> measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 	Construction	Sections 4.4 (Construction Environment Management), and 7.5 (Water Resources and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)	DCO Schedule 2, Requirement—8 CoCP DCO Schedule 2, Requirement 9—CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. 			
H-11	Chapter 12: Health Table 5.2—Securing Mitigation	Temporary concern for local communities in close proximity to the Proposed Development due to the presence of a construction workforce affecting social cohesion.	<p>Community Liaison Plan</p> <p>A draft CLP has been prepared by the Applicant which contains measures for how communication of construction activity will be undertaken. This includes the frequency of such liaison, the status of the construction works, construction programme and a complaints procedure.</p> <p>The CoCP Part A (section 3 Community and Stakeholder Engagement, section 4.3 Considerate Constructors Scheme, section 5.2 Training and Site Induction, section 4.2 Environmental and Health and Safety Management Systems) requires all construction workers to receive appropriate training, which includes expectations regarding respecting and showing courtesy to the local community.</p>	Construction	<p>Sections 3 (Community and Stakeholder Engagement), section 4.2 (Environmental and Health and Safety Management Systems) (4.3 (Considerate Constructors Scheme), and 5.2 (Training and Site Induction) 6, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) s</p> <p>Community Liaison Plan (App Doc Ref 7.8)</p>	<p>DCO Schedule 2, Requirement 8—CoCP</p> <p>DCO Schedule 2, Requirement 9—CEMP including a detailed community liaison plan which must accord with the measures set out in the community liaison plan</p>
HE-1	Chapter 13: Historic Environment Table 5.2—Securing Mitigation	Change in character of HLCA22 and other HLCAs.	<p>Code of Construction Practice</p> <p>Where possible the land required for the construction of the treated effluent transfer pipelines, following the works, will be returned to its current character.</p>	Construction	<p>Section 4.4 (Construction Environment Management) and 7.4 (Land quality, soil management), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 5.4, Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)</p>	<p>DCO Schedule 2 Requirement 8—CoCP, Requirement 9—CEMP</p>
HE-2	Chapter 13: Historic Environment Table 5.2—Securing Mitigation	Operational change within the setting of heritage (HE011, HE040, HE095 and HE096) and historic landscape (HLCA69) assets.	<p>Lighting Design</p> <p>The lighting will be designed to reduce the upward spread of light and to minimise glare, reducing the impact on the surrounding heritage assets. It will also only be switched on when activated by a sensor, or where required for a specific task.</p>	Operation	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2 Part 1 Requirement 7—Detailed design
HE-3	Chapter 13: Historic Environment Table 5.2—Securing Mitigation	Operational change within the setting of heritage (HE011, HE040, HE095 and HE096) and historic landscape (HLCA69) assets.	<p>Landscape Masterplan</p> <p>The landscape master plan will be designed to reduce the visual impact on historic landscape assets and character area.</p>	Operation	ES Chapter 3 Alternatives Section 7 Landscape Evolution, Building Heights, and Finishes (App Doc Ref 5.2.3)	DCO Schedule 2 Part 1 Requirement 11—LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
					Figure 4-1 within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	
HE-4	Chapter 13: Historic Environment Table 5.2—Securing Mitigation	Permanent construction impacts from change within the setting or to the character of heritage assets (HE011, HE040, HE095, HE096).	Archaeological Mitigation Strategy Archaeological remains which will be impacted by the proposed development will be subject to an additional programme of archaeological investigation and recording to be agreed with CHET.	Construction	CoCP Part A 7.3 (Historic Environment, para 7.3.1—7.3.7, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Part 1 Requirement 13—AIMS
HE-5	Chapter 13: Historic Environment Table 5.2—Securing Mitigation	Permanent construction impacts from change within the setting or to the character of heritage assets (HE011, HE040, HE095, HE096).	Landscape Masterplan The landscape master plan will be designed to reduce the visual impact on historic landscape assets and character area	Construction	ES Chapter 3 Alternatives Section 7 Landscape Evolution, Building Heights and Finishes (App Doc Ref 5.2.3) Landscape, Ecological and Recreational Management Plan para 1.2.2 bullet 3 (Appendix 8.14, App Doc Ref 5.4.8.14)	SCO Schedule 3 DCO Schedule 2 Part 1 Requirement 11—LERMP
HE-6	Chapter 13: Historic Environment Table 5.2—Securing Mitigation	Removal of archaeological remains (HE1303, HE1304, HE1306, HE1307, HE1308, HE1310, HE1328 and HE1329).	Archaeological Mitigation Strategy Archaeological remains which will be impacted by the proposed development will be subject to an additional programme of archaeological investigation and recording to be agreed with CHET.	Construction	Sections 4.4 (Construction Environment Management) and 7.3 (Historic Environment, para 7.3.1—7.3.7) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Part 1 Requirement 13—AIMS
HE-7	Chapter 13: Historic Environment Table 5.2—Securing Mitigation	Temporary change within the setting and/or character of assets (HE011, HE095, HE040, HE096) during construction.	Construction Traffic Management Plan Construction traffic will be routed around rather than through Horningsea Conservation Area. As set out within CoCP Part A Section 7.6 (Traffic and Transport, Construction traffic management plan (CTMP)) a CTMP will be implemented to reduce and manage the effects of construction vehicle movements associated with the Proposed Development.	Construction	Section 4 (Access and route strategy, Table 4-1) CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) Sections 4.4 (Construction Environment Management) and 7.6 (Traffic and transport) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8—COCP, Requirement 9—CEMP
HE-9	Chapter 13: Historic Environment Table 5.2—Securing Mitigation	Temporary change within the setting and/or character of assets (HE011, HE095, HE040, HE096) during construction.	Code of Construction Practice—Construction lighting design The lighting proposed will be mounted to minimise the spread of light in the surrounding area	Construction	Sections 4.4 (CEMP) 5.9 (Lighting) para 5.9.4 CoCP Part A, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8—COCP, Requirement 9—CEMP DCO Schedule 2 Requirement 14—Construction lighting

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
LQ-1	Chapter 14: Land Quality Table 5.2—Securing Mitigation	Damage from aggressive ground conditions on buried structures and infrastructure: water supply pipe infrastructure, concrete structures (e.g., foundations) and tunnels.	Design of proposed WWTP and transfers Design of structures and materials for the ground conditions present	Operation	ES Chapter 2, Section 2.8 Waterbeach pipelines para 2.8.17, 3.4 Construction techniques and methodology para 3.4.29 (App-Doc Ref 5.2.2) ES Chapter 14, Table 2-14 (App-Doc Ref 5.2.14)	
LQ-2	Chapter 14: Land Quality Table 5.2—Securing Mitigation	Damage from aggressive ground conditions on buried structures and infrastructure: water supply pipe infrastructure, concrete structures (e.g., foundations) and tunnels.	Asset Management Plan Operational monitoring structural conditions and asset inspections (secondary)	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App-Doc Ref 5.2.2) Asset Management Plan (Appendix 9.1, App-Doc Ref 5.4.9.1)	
LQ-3	Chapter 14: Land Quality Table 5.2—Securing Mitigation	Exposure of on-site and off-site land users to contamination through direct contact, ingestion or inhalation of dusts from contaminated soils which are reused on-site as part of the landscaping.	Code of Construction Practice Application of CL:AIRE Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) for the reuse of excavated waste materials (if required).	Construction	Section 7.9 (Land quality, waste minimisation) para 7.9.16 Code of Construction Practice (CoCP) Part A, (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8—COCP
LQ-4	Chapter 14: Land Quality Table 5.2—Securing Mitigation	Exposure to contaminated soils through inhalation—off site land users.	Code of Construction Practice—Dust control Dust control measures will be mitigated proportionally using the measures using the IAQM 'Guidance on the assessment of dust from demolition and construction' implemented through an Air Quality/Dust Management Plan as set out in CoCP Part A Section 4.4 (CEMP)	Construction	Sections 4.4 (CEMP) Para 4.4.4. and 7.8 (Air quality, Dust control), COCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8—COCP, Requirement 9—CEMP
LQ-5	Chapter 14: Land Quality Table 5.2—Securing Mitigation	Partial loss of river terrace deposits during construction	Code of Construction Practice—Excavated Material Management Reuse of materials within the Proposed Development through application of CoCP Part A, Section 7.9 (Waste management and resource use, Waste minimisation) implemented through an approved Materials Management Plan	Construction	Sections 4.4 (CEMP) Para 4.4.4. and 7.9 (Waste management and resource use, Waste minimisation) COCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8—COCP, Requirement 9—CEMP
LV-1	Chapter 15: Landscape and Visual	Damage to retained vegetation within the area	Code of Construction Practice—Minimisation of working area	Construction	Proposed WWTP Arboricultural Impact	DCO Schedule 2 Requirement 8—COCP, Requirement 9—CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2—Securing Mitigation	of land required for the proposed WWTP	Minimise road and junction widening for work areas including temporary construction access as indicated in section 7.2 of the CoCP Part A.		Assessment (Appendix 8.17, App Doc Ref 5.4.8.17) Waterbeach Pipeline Arboricultural Impact Assessment (Appendix 8.19, App Doc Ref 5.4.8.19) CoCP Part A Section 7.2 (Ecology and Nature Conservation, Tree/hedgerow removal) Para 7.2.62	
LV-2	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to operation of the proposed WWTP due to presence of new infrastructure in the rural landscape increases urbanising influence on the features in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	Landscape Masterplan Design of landscape masterplan within the LERMP to derive a multifunctional masterplan that integrates design measures (earth bank and planting) to integrate the development into the landscape and screen tall structures to minimise prominence of the infrastructure in the landscape and views. Landscape design and maintenance within the landscape masterplan in the LERMP. Initial planting during construction: trees along Horningsea Road, trees and hedgerows along Low Fen Drove way and planting in gaps in the existing shelter belt between Horningsea and the Proposed WWTP.	Operation	Section 8.6, Mitigation through Green infrastructure in the Design and Access Statement (Application Document Ref 7.6). Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14)	SCO Schedule 3 DCO Schedule 2 Part 1 Requirement 11—LERMP
LV-3	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to operation of the proposed WWTP due to presence of new infrastructure in the rural landscape increases urbanising influence on the features in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	Design of proposed WWTP Design of structures in the proposed WWTP to minimise prominence of the infrastructure in the landscape and views. Selection of materials and finishes to the structures of the proposed WWTP as described in the Design and Access Statement (Application Document Ref 7.6).	Operation	ES Chapter 3 Alternatives Section 7 Landscape Evolution, Building Heights and Finishes (App Doc Ref 5.2.3) Section 8.6, Mitigation through Green infrastructure in the Design and Access Statement (Application Document Ref 7.6). ES Chapter 2 Project Description Section 2.13 Further associated development and site wide provisions, Para 2.13.1 (App Doc Ref 5.2.2.)	SCO Schedule 3 DCO Schedule 2 Part 1 Requirement 11—LERMP
LV-4	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to operation of the proposed WWTP due to presence of new infrastructure in the	Landscape Masterplan Landscape design and maintenance within the landscape masterplan in the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14). Initial planting during construction: trees along Horningsea Road, trees and hedgerows along	Operation	Landscape Evolution, Building Heights and Finishes (App Doc Ref 5.2.3) Section 8.6, Mitigation through Green	SCO Schedule 3 DCO Schedule 2 Part 1 Requirement 11—LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		rural landscape increases urbanising influence on the features in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	Low Fen Drove way and planting in gaps in the existing shelter belt between Horningsea and the Proposed WWTP.		infrastructure in the Design and Access Statement (Application Document Ref 7.6). ES Chapter 2 Project Description Section 2.13 Further associated development and site wide provisions, Para 2.13.1 (App Doc Ref 5.2.2.) Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14	
LV-5	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to operation of the proposed WWTP due to presence of new infrastructure in the rural landscape increases urbanising influence on the features in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	Outfall and Riverbank Design Design measures to avoid or minimise loss of river habitat within the River Cam are: <ul style="list-style-type: none"> designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river; minimising extent of river bank protection works; and design that includes embedded ‘Green’ engineering features within river bank protection works that seeks to maintain hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation. 	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2) Design Plans—Outfall (App Doc Ref 4.13	
LV-6	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to operation of the proposed WWTP due to presence of new infrastructure in the rural landscape increases urbanising influence on the features in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	Outfall and Riverbank Design Design measures to avoid or minimise loss of river habitat within the River Cam are: <ul style="list-style-type: none"> designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river; minimising extent of river bank protection works; and design that includes embedded ‘Green’ engineering features within river bank protection works that seeks to maintain hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation. 	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2) Design Plans—Outfall (App Doc Ref 4.13	
LV-7	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to operation of the proposed WWTP due to presence of	Direct and indirect impacts related to operation of the outfall will be minimised through rectifying erosion as determined through operational monitoring	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 10—Outfall management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		new infrastructure in the rural landscape increases urbanising influence on the features in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.			Design Plans—Outfall (App Doc Ref 4.13)	
LV-8	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to operation of the proposed WWTP due to presence of new infrastructure in the rural landscape increases urbanising influence on the features in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	<p>Lighting Design Strategy</p> <p>Design of structures to reduce visual impact, design of lighting to minimise lighting impacts on the night-time landscape and views.</p> <p>Design measures to prevent or minimise artificial light are:</p> <ul style="list-style-type: none"> ● exclusion of lighting provision on the access road ● the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP ● habitat creation within the landscape masterplan that serves a screening function once mature 		Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5))	DCO Schedule 2 Requirement 14—Construction lighting
LV-9	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual amenity due to construction of the WWTP and the presence of construction equipment and activity in in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	<p>Code of Construction Practice—Site Set Up and General Arrangements</p> <p>Provision of solid hoardings between Shaft 4 construction compound and Red House Close, near Poplar Hall Farm House and at the outfall compound to partially screen the construction of the proposed WWTP.</p>	Construction	<p>Section 3.1 (3.1 Treated effluent and storm pipelines and outfall to the River Cam) and Section 3.2 (Transfer Tunnel) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p> <p>Section 4.4 (Construction environment management plan CoCP Part A) (Appendix 2.2, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 8—CoCP</p> <p>DCO Schedule 2 Requirement 9—CEMP</p>
LV-10	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual amenity due to construction of the WWTP and the presence of construction equipment and activity in in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	<p>Code of Construction Practice—Replanting and reinstatement of habitats</p> <p>Management of impacts to land temporarily required for construction will be managed through measures as described within the CoCP Part A and B:</p> <ul style="list-style-type: none"> ● requirement within Section 5.14 (Watercourses/drainage channels) for the reinstatement of ditches temporarily disturbed during construction ● minimising severance of hedgerows and reinstatement of hedgerows (Section 7.2 Ecology and Nature Conservation). ● replanting and maintenance of replanted trees, hedgerow and vegetation removed during construction 	Construction	<p>Sections 5.14 Watercourses /drainage channels, and 7.2 (Ecology and Nature Conservation, Tree/Hedgerow removal CoCP Part A (Appendix 2.2, App Doc Ref 5.4.2.3)</p> <p>Section 3.3 CoCP Part B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2)</p>	DCO Schedule 2 Requirement 8—CoCP, Requirement 9—CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
LV-11	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual amenity due to construction of the WWTP and the presence of construction equipment and activity in in the Eastern Fen-Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	Code of Construction Practice Implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows.	Construction	Sections 4.4 (CEMP) Para 4.4.4., Section 7.2 (Ecology and Nature Conservation, Tree/Hedgerow removal and and 7.4 (Land Quality, soil management) COCP Part A (Appendix 2.2, App Doc Ref 5.4.2.1) Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 8 CoCP Requirement 9 CEMP
LV-12	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual amenity due to construction of the WWTP and the presence of construction equipment and activity in in the Eastern Fen-Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.	Lighting Design Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of lighting with no upward orientation or light spill	Construction	Section 5.9 Site Lighting CoCP Part A and Section 3.3 of Part B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP DCO Schedule 2 Requirement 14— Construction lighting
LV-13	Chapter 15: Landscape and Visual Table 5.2—Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to construction of Waterbeach Pipeline	Code of Construction Practice Management of impacts to land temporarily required managed through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2.2): <ul style="list-style-type: none">● requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction● use of solid site hoarding/temporary acoustic barriers at Waterbeach construction compound and around HDD pit locations/HDD plant during continuous working periods.● implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows. Management of impacts to land temporarily required managed through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2.2): <ul style="list-style-type: none">● use of solid site hoarding/temporary acoustic barriers at Waterbeach construction compound and around HDD pit locations/HDD plant during continuous working periods.	Construction	Sections 4.4 (CEMP), 7.2 (Ecology and Nature Conservation) Tree/Hedgerow removal, CoCP Part A and Section 3.3 of Part B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2) Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP DCO Schedule 2 Requirement 14— Construction lighting
LV-14	Chapter 15: Landscape and Visual	Direct and indirect impacts on landscape character and	Lighting Design	Construction	Sections 4.4 (CEMP), and 7.2 (Ecology and Nature	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2—Securing Mitigation	visual receptors due to construction of Waterbeach Pipeline	Management of lighting through the Lighting Design Strategy (App-Doc Ref 5.4.2.5)] and the CoCP Part A, Section 5.9 (Lighting) (App-Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of lighting with no upward orientation or light spill.		Conservation, Tree/Hedgerow removal) CoCP Part A and Section 3.3 of Part B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1 and 5.4.2.2) Outline SMP (Appendix 6.3, App-Doc Ref 5.4.6.3) Lighting Design Strategy (Appendix 2.5, App-Doc Ref 5.4.2.5)	DCO-Schedule 2 Requirement 9-CEMP DCO-Schedule 2 Requirement 14—Construction lighting
MW-1	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Depletion of material resources due to the construction of the Proposed Development	Code of Construction Practice—Material reuse 100% reuse of the excavated material within trench reinstatement or landscape masterplan for Waterbeach Pipeline through implementation of an approved Site Waste Management Plan.	Construction	Sections 4.4 CEMP para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO-Schedule 2 Requirement 8 CoCP Requirement 9-CEMP
MW-2	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Depletion of material resources due to the construction of the Proposed Development	Code of Construction Practice—Material reuse Reuse of 90% of excavated material within landscape masterplan limiting the required imported fill material to 4,373m ³ for Proposed WWTP through implementation of an approved Site Waste Management Plan.	Construction	Sections 4.4 CEMP para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO-Schedule 2 Requirement 8 CoCP DCO-Schedule 2 Requirement 9-CEMP DCO-Schedule 2 Requirement 9-CEMP a site waste management plan
MW-3	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Depletion of material resources due to the construction of the Proposed Development	Code of Construction Practice—Material reuse Use of precast structures (produce less waste) for treated effluent pipework	Construction	Sections 4.4 (CEMP) and 5.13 River works para 5.13.1 CoCP Part A (App-Doc Ref 2.1)	DCO-Schedule 2 Requirement 7 Detailed design
MW-4	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Impact on the availability of material resources due to the construction of the Proposed Development	Code of Construction Practice—Material reuse 100% reuse of the excavated material within trench reinstatement or landscape masterplan for Waterbeach Pipeline through implementation of an approved Site Waste Management Plan.	Construction	Sections 4.4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO-Schedule 2 Requirement 8 CoCP DCO-Schedule 2 Requirement 9-CEMP including a materials management plan, and a site waste management plan
MW-5	Chapter 16: Material Resources and Waste	Impact on the availability of material resources due to	Code of Construction Practice—Material reuse	Construction	Sections 4.4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource	

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2—Securing Mitigation	the construction of the Proposed Development	Reuse of 90% of excavated material within landscape masterplan limiting required imported fill material to 4,373m ³ for Proposed WWTP through implementation of an approved Site Waste Management Plan.		use) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	
MW-6	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Production of hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the construction phase of the Proposed Development.	<p>Code of Construction Practice Site waste management plan</p> <ul style="list-style-type: none"> Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a SWMP, Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including emergency response measures including stopping works, training of staff, use of spill response equipment Approval and implementation of a Site Waste Management Plan 	Construction	Sections 4.4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)
MW-7	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Production of hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the construction phase of the Proposed Development.	<p>Code of Construction Practice Hazardous materials handling</p> <p>The management of impacts relating to the handling of potentially hazardous waste as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, sets out a framework for the control of flood risk during construction, identifying a number of ‘standard’ mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an appended plan to/as part of the CEMP.</p> <p>Approval and implementation of a Site Waste Management Plan</p>	Construction	Sections 4.4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)
MW-7	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Production of inert waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the operation of the Proposed WWTP.	<p>Environmental Management System</p> <p>Implementation of the waste hierarchy</p> <p>Compliance with the Environmental Permit including the associated EMS procedures.</p>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) ES Chapter 17 Table 2.8 and 5-1	Waste (England and Wales) Regulations 2011 (as amended) Environmental Permit
MW-8	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Production of inert, non-hazardous and hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the	<p>Existing Environmental Controls — existing Cambridge WWTP</p> <p>The existing Cambridge WWTP will have existing obligation in relation to the operational management of activities within the site as specified within a site specific Environmental Permit</p>	Construction	- ES Chapter 17 Table 2.8 and 5-1	Compliance with the Waste (England and Wales) Regulations 2011 (as amended) Environmental Permit

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		decommissioning of the Existing Cambridge WWTP				
MW-9	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Production of inert, non-hazardous and hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the decommissioning of the Existing Cambridge WWTP	Decommissioning Management Plan Management of decommissioning activities through application of measures within the outline Decommissioning Plan and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) which requires that the contractors to prepare a Decommissioning Plan (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of the decommissioning activities.	Construction	Decommissioning Management Plan (Appendix 2.3, App-Doc-Ref 5.4.2.3). CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App-Doc-Ref 5.4.2.1)	Dco-Schedule 2— Requirement 8—CoCP DCO-Schedule 2 Requirement 9 CEMP—a detailed decommissioning plan where the relevant phase includes decommissioning which must accord with the outline decommissioning plan.
MW-9	Chapter 16: Material Resources and Waste Table 5.2—Securing Mitigation	Production of non-hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the operation of the Proposed WWTP.	Design—Resource Recovery Sludge produced by the Proposed WWTP is recycled and will be used as bio-fertilizer and spread on land.	Operation	ES-Chapter 2-Project Description-Para 1.8.6, Section 5.1-Operation, Resource Recovery (App-Doc-Ref 5.2.2)	Environmental permit
NV-1	Chapter 17: Noise and Vibration Table 5.2—Securing Mitigation	Construction noise impacts from the works at Shaft 4 and the Outfall.	Code of Construction Practice Application of BPM in accordance with BS 5228 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within the CoCP, Part A and B (Appendix 2.1 & 2.2, App-Doc-Ref 5.4.2.1 & 5.4.2.2). <ul style="list-style-type: none"> ● Restriction of working hours to avoid sensitive time periods for works at Shaft 4 and the Outfall. ● Use of solid site hoarding/temporary acoustic barriers at Shaft 4, Waterbeach construction compound and around HDD pit locations/HDD plant during continuous working periods. 	Construction	Sections 4.4 (Construction environment management plan), and 7.7 (Noise and vibration), CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1) CoCP Part B Section 3.1 (Appendix 2.1, App-Doc-Ref 5.4.2.2)	DCO-Schedule 2 Requirement 8 CoCP DCO-Schedule 2 Requirement 9 CEMP—a noise and vibration management plan
NV-2	Chapter 17: Noise and Vibration Table 5.2—Securing Mitigation	Noise from heavy vehicles on construction traffic routes	Code of Construction Practice Noise management Application of BPM in accordance with BS 5228 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within the CoCP, Part A and B (App-Doc-Ref 5.4.2.1 & 5.4.2.2). Approval and implementation of a Noise & Vibration Management Plan Construction Traffic Management Plan Restriction of working hours to avoid sensitive time periods and the use of solid site hoarding/temporary acoustic barriers when required.	Construction	Sections 4.4 CEMP para 4.4.4 and 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1) CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1) Construction Traffic Management Plan (Appendix 19.7, App-Doc-Ref 5.4.19.7),	DCO-Schedule 2 Requirement 8 CoCP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan,

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
NV-3	Chapter 17: Noise and Vibration Table 5.2—Securing Mitigation	Construction vibration during works at the Waterbeach pipeline, Transfer tunnel and Final effluent pipeline	Code of Construction Practice Noise management Application of BPM in accordance with BS 5228 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within the CoCP, Part A and B (Appendix 2.1 & 2.2 App Doc Ref 5.4.2.1 & 5.4.2.2). Use of low vibration sources of equipment.	Construction	Sections 4.4 (CEMP) para 4.4.4, and 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP
0-1	Chapter 18: Odour Table 5.2—Securing Mitigation	Odour emission from biogas release to air (if required)	Design—Flaring controls To minimise emissions to air during use and flare usage will be limited under IED permit controls including detailed OMP (Appendix 18.4, App Doc Ref 5.4.18.4) outlining operational odour management, monitoring and reporting measures.	Operation	ES Chapter 18 Odour Section 2.8 (App Doc Ref 5.2.2) Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4)	Legal requirement for IED permit from the Environment Agency
0-2	Chapter 18: Odour Table 5.2—Securing Mitigation	Odour emission from draining and cleaning of the waste water storage tanks and equipment	Operational controls Transfer of the existing permit controls and odour management plan at the existing Cambridge WWTP to the proposed WWTP. Odour Control Equipment Use of odour suppression equipment, such as fogging/misting systems. Section 7.8, Construction odours of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1).	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2) Section 3.5, Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4).	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
0-3	Chapter 18: Odour Table 5.2—Securing Mitigation	Odour emission from draining and cleaning of the waste water storage tanks and equipment	Odour Management Removal of residual sludge via suction pump and taken offsite for treatment or treated onsite such as in a quick lime dosing plant. Implementation of Section 6, Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3)	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2) Section 6, Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
0-4	Chapter 18: Odour Table 5.2—Securing Mitigation	Odour emission from normal operation of the proposed WWTP	Odour Management Controls required by the IED permit such as operating in accordance with approved OMP, and having an established emergency response procedure.	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2) OMP (Appendix 18.4, App Doc Ref 5.4.18.4)	Legal requirement for IED permit from the Environment Agency DCO Schedule 2 Requirement 7 Detailed design
0-5	Chapter 18: Odour	Odour emission from normal operation of the proposed WWTP	Design—Odour Control Design measures to manage odour release: <ul style="list-style-type: none"> ● Covered reception areas at the terminal pumping station, inlet works and sludge tanks ● Low turbulence processes ● Venting of air from TPS, inlet and sludge tanks through the odour control plant 	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Odour control facilities will be critical equipment to operate continuously in all conditions and supplied with a UPS 			
O-6	Chapter 18: Odour Table 5.2—Securing Mitigation	Odour emission from short-term tie-in works	<p>Code of Construction Practice—Odour control</p> <p>Measures within CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2) setting out how potential odour impacts arising from activities associated with connecting into and diverting existing sewers will be managed.</p> <p>Section 7.8, Construction odours of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular the requirement for the use of air extraction system and a mobile odour filtration unit adjacent to the sewer shafts.</p>	Construction	Sections 4,4 CEMP para 4.4.4 and 7.8 (Air quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Sections 3, CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
O-7	Chapter 18: Odour Table 5.2—Securing Mitigation	Odour emission from sludge tanker spill within the WWTP	<p>Code of Construction Practice</p> <p>Controls required by the IED permit such as operating in accordance with approved OMP, and having an established emergency response procedure.</p>		Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4)	Legal requirement for IED permit
O-8	Chapter 18: Odour Table 5.2—Securing Mitigation	Odour emission from transportation of seed sludge and commencement of biological processes with the proposed WWTP	<p>Commissioning Management</p> <p>Impacts managed through the following design measures:</p> <ul style="list-style-type: none"> Covered reception areas at the terminal pumping station, inlet works and sludge tanks Low turbulence processes Venting of air from TPS, inlet and sludge tanks through the odour control plant <p>Odour control facilities will be critical equipment to operate continuously in all conditions and supplied with an uninterruptible power supply UPS. Transport seed sludge in sealed tankers and pumped into the tanks through a closed process</p>		ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2) ES Volume 4 Chapter 2 Appendix 2.4 Outline Commissioning Plan (App Doc Ref 5.4.2.4)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
O-9	Chapter 18: Odour Table 5.2—Securing Mitigation	Odour emission from transportation of seed sludge and commencement of biological processes with the proposed WWTP	<p>Design Measures—Odour Control</p> <p>Impacts managed through the following design measures:</p> <ul style="list-style-type: none"> Covered reception areas at the terminal pumping station, inlet works and sludge tanks Low turbulence processes Venting of air from TPS, inlet and sludge tanks through the odour control plant Odour control facilities will be critical equipment to operate continuously in all conditions and supplied with an uninterruptible power supply UPS. Transport seed sludge in sealed tankers and pumped into the tanks through a closed process 	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 Detailed design
O-10	Chapter 18: Odour	Odour—operation of vent	<p>Design Measures—Vent</p>	Operation	ES Chapter 18 Odour Table 2-11: Maximum design envelope parameters	DCO Schedule 2 Requirement 7 Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2—Securing Mitigation		Tunnel vent located at the interception shaft at the start of the transfer tunnel within the existing Cambridge WWTP. The structure will include a permanent vent stack inclusive of a carbon filter, extending to a height of up to 10m above ground level and an adjacent filter installation at ground level for odour control.		(Rochdale) for odour quality assessment	
O-11	Chapter 18: Odour Table 5.2—Securing Mitigation	Short term odour release from deliveries of wastewater and sludge	Design Measures—Odour Control Managed through the following measures: <ul style="list-style-type: none"> • Covered reception areas receiving waste water and sludge deliveries • Use of sealed vehicles for the delivery of waste water and sludge 	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 Detailed design
T-1	Chapter 19: Traffic and Transport Table 5.2—Securing Mitigation	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of abnormal loads	Code of Construction Practice—Abnormal Loads Ensure that entities responsible for transporting the load follow the regulations for notifying authorities.	Operation	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-2	Chapter 19: Traffic and Transport Table 5.2—Securing Mitigation	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of abnormal loads	Construction Traffic Management Plan—Abnormal loads Implementation of the CTMP in particular Section 4.2 (Local routeing and site plant vehicle routeing) which requires abnormal loads to have specific measures including appropriate vehicle escort and marshalling where required and timing of movement to be outside peak hours (i.e., school start and finishing times). All deliveries will be made outside of peak hours (8am-9am and 3-4pm) unless it is determined to be essential that the delivery is to be completed during peak hours.	Operation	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP
T-3	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of hazardous loads	Construction Traffic Management Plan—Hazardous loads management Implementation of the CTMP in particular: <ul style="list-style-type: none"> • Section 7.2 (Monitoring Strategy) which requires the Principal Contractor(s) to manage and operate a 'near miss' reporting system to ensure any accidents or near misses are recorded and investigated appropriately. Where relevant, accidents and near misses will be reported to relevant highways stakeholders by the CLO. • section 4.2 (Access route strategy) requires all deliveries to be made outside of peak hours (08:00-09:00, 15:00-16:00, 17:00-18:00); • section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads; and 	Construction	ES Chapter 29 Traffic and Transport Table 5-1 Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7,	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> section 6.3 (Adherence to Designated Routes) and section 6.9 (Facilitate safe movement of users of the highway (including NMUs) requirement to provide connectivity/access to community facilities and residential properties during works. <p>Entities responsible for transporting the abnormal load follow the regulations for notifying authorities</p>			
T-4	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of hazardous loads	<p>Construction Traffic Management Plan—Temporary traffic control</p> <p>Temporary traffic control, design of temporary connections to the road network, sequencing the proposed WWTP access road construction.</p>	Construction	<p>ES Chapter 2 Sections 2 para 2.9.3 and 3.1 3.1 Construction phasing and sequence of assembly (App Doc Ref 5.2.2)</p> <p>Design Plans—Highways and Site Access (App Doc Ref 4.11)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p>	DCO Schedule 2 Requirement 8 CoCP
T-5	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular:</p> <ul style="list-style-type: none"> Section 4.2 which recognises the potential conflict of site access point CA2/CA3 which will cross the existing footway / cycleway on the west side of Horningsea Road which may require marshalling during peak hours and/or traffic management measures to provide a safe crossing point for site traffic and pedestrians and cyclists Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which refers to site access point COA3, CA6, CA2/CA3 which indicates the majority of the highway works can be carried out under TM that maintains vehicular access on Horningsea Road, under temporary signal control. And requires that the existing footway / cycleway to the west of the Horningsea Road carriageway will be maintained at all times with suitable barriers separating the footway from the works. Section 6.9 (Facilitate safe movement of users of the highway (including NMUs))which requires that speed restrictions to Horningsea Road will be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in Article ## of the DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders) Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: 	Construction	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> ● Documented pre-commencement meetings with the site management team as a contractual requirement; — Active traffic management; and — FORS and CLOCS accreditation 			
T-6	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>Code of Construction Practice</p> <p>Requirement within section 3 of the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) Part A (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion</p>	Construction	Sections 3, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
T-7	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>Construction Traffic Management Plan—minimising traffic movements Horningsea Road</p> <p>Sequencing the proposed WWTP access road construction at the start of the programme so that it can be used in construction to minimise use of Horningsea Road to access Low Fen Drove Way</p>	Construction	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP
T-8	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse effect on pedestrians travelling along / crossing roads that are part of the construction route (that do not meet the criteria in IEMA rule 2)	<p>Design Measures</p> <p>Sequencing the proposed WWTP access road construction at the start of the programme so that it can be used in construction to minimise use of Horningsea Road to access Low Fen Drove Way</p> <p>Requirement for construction of a temporary access within land required for the proposed WWTP to construct the permanent access so that it can be used to facility the remainder of the construction.</p> <p>Design of temporary connections from works areas to the road network to standards</p>	Construction	ES Chapter 2 Sections 2 para 2.9.3 and 3.1 3.1 Construction phasing and sequence of assembly (App Doc Ref 5.2.2) Design Plans—Highways and Site Access (App Doc Ref 4.11)	DCO Schedule 2 Requirement 7 Detailed design
T-9	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse effect on pedestrians travelling along / crossing roads that are part of the construction route (that do not meet the criteria in IEMA rule 2)	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 of the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) Part A (Traffic and Transport) which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.</p>	Construction	Sections 7.7, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Section 3 of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) Construction Traffic Management Plan (Appendix 19.7 App Doc Ref 5.4.19.7),	DCO Schedule 2 Requirement 8 CoCP
T-10	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse effect on pedestrians travelling along / crossing roads that are part of the construction route (that do not meet the criteria in IEMA rule 2)	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular:</p> <ul style="list-style-type: none"> ● section 3 (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion 	Construction	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian crossing points and distances to destinations. Section 6.3 Adherence to Designated Routes Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation 			
T-11	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse effect on pedestrians travelling along / crossing roads that are part of the construction route (that do not meet the criteria in IEMA rule 2)	<p>Construction Traffic Management Plan—control of impacts to road users</p> <p>Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements.</p>	Construction	Section 3, CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1) Community Liaison Plan (App-Doc-Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP a detailed community liaison plan which must accord with the measures set out in the community liaison plan,
T-12	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	<p>Impacts to users of A14 at junction 34</p> <p>Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.</p>	<p>Construction Worker Travel Plan</p> <p>Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods.</p>	Construction	Construction Workers Travel Plan (Appendix 19.9, App-Doc-Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 CoCP
T-13	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	<p>Construction Traffic Management Plan</p> <p>Implementation of Section 4.2 of the CTMP (Access route strategy) which identifies the off and on slip of the A14 as a potential conflict area which may require traffic marshalling during peak hours</p>	Construction	Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP
T-14	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	<p>Construction Traffic Management Plan</p> <p>Implementation of Section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours</p>	Construction	Section 6.4 (Vehicle scheduling) Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP
T-15	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	<p>Construction Traffic Management Plan</p> <p>Implementation of Section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks</p>	Construction	Section 6.5 (Deliveries) Construction Traffic Management Plan	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
T-16	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Code of Construction Practice Implementation of section 7.7 of the CoCP Part A and B (Application Doc Ref: 5.4.2.1) Part A (Traffic and Transport) which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.	Construction	(Appendix 19.7, App Doc Ref 5.4.19.7) Sections 7.7 (Traffic and transport) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Section 3 CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP
T-17	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Code of Construction Practice Requirement of Section 4.2 that all deliveries will be made outside of peak hours (8am-9am and 3-4pm) unless it is determined to be essential that the delivery is to be completed during peak hours.	Construction	Section 4.2 (Local routeing and site plant vehicle routeing) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7);	DCO Schedule 2 Requirement 8 CoCP
T-18	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Construction Traffic Management Plan Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation	Construction	Section 7.2 (Monitoring Strategy) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP
T-19	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Construction Traffic Management Plan Sequencing the proposed WWTP access road construction at the start of the programme so that it can be used in construction to minimise use of Horningsea Road to access Low Fen Drove Way	Construction	ES Chapter 2 Sections 2 para 2.9.3 and 3.1.3.1 Construction phasing and sequence of assembly (App Doc Ref 5.2.2) Design Plans—Highways and Site Access (App Doc Ref 4.11)	DCO-3 DCO Schedule 2 Requirement 7 Detailed design
T-20	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10 approach of the Milton Interchange in the PM peak	Construction Traffic Management Plan Implementation of Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> ● Documented pre-commencement meetings with the site management team as a contractual requirement; ● Active traffic management; and ● FORS and CLOCS accreditation 	Construction	Sections 6.4 (Vehicle scheduling), 6.5 (Delivery scheduling), and Section 7.2 (Monitoring Strategy) of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>Section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours</p> <p>Section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM-PM peaks</p>			
T-21	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak.	<p>Construction Worker Travel Plan</p> <p>Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods.</p>	Construction	Construction Workers Travel Plan (Appendix 19.9, App-Doc-Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 CoCP
T-22	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak.	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 of the CoCP Part A which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.</p>	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport), CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) and CoCP Part B (Appendix 2.2, App-Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
T-23	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak.	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> ● Section 6.3 Adherence to Designated Routes ● Section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM-PM peaks Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> — Documented pre-commencement meetings with the site management team as a contractual requirement; — Active traffic management; and — FORS and CLOCS accreditation — Section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours 	Construction	Sections 6.3 (Adherence to dedicated routes), 6.4 (Vehicle scheduling), 6.5 (Delivery scheduling), 6.9 (Facilitate safe movement of users of the highway (including non-motorised users), and Section 7.2 (Monitoring Strategy) Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP
T-24	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak.	<p>Code of Construction Practice</p> <p>Requirement within the CoCP Part A section 3 (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including: communication of construction activity, construction vehicle movements.</p>	Construction	Section 3 of COCP Part A (App-Doc Ref 5.4.2.2) Community Liaison Plan (App-Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP -a detailed community liaison plan which must accord with the measures set out in the community liaison plan
T-25	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing certain locations for pedestrians and cyclists travelling along Long Drive,	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 of the CoCP Part A and B (Appendix 2.1 & 2.2, App Document Ref 5.4.2.1, 5.4.2.2) Part A (Traffic and Transport) which includes measures for temporary traffic control</p>	Construction	Sections 4.4 (CEMP) para 4.4.4 and 3 (Community and Stakeholder Engagement) of COCP Part A (App-Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		Bannold Drive, Burgess's Drive, Fen Road.				
T-26	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing certain locations for pedestrians and cyclists travelling along Long Drive, Bannold Drive, Burgess's Drive, Fen Road.	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works Section 6.9 avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works Section 6.9 requirement for speed restrictions to Burgess's Drive, Bannold Drive and Bannold Road as well as Clayhithe Road will be put in place in accordance with the Temporary Traffic Regulation Order set out in Article 16 of the DCO. 	Construction	Sections 6.3 (Adherence to designated routes) and 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) of the Construction Traffic Management Plan (App-Doc Ref 5.4.19.7),	DCO Schedule 2 Requirement 8 CoCP
T-27	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing certain locations for pedestrians and cyclists travelling along Long Drive, Bannold Drive, Burgess's Drive, Fen Road.	<p>Construction Worker Travel Plan</p> <p>Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods.</p>	Construction	Construction Workers Travel Plan (Appendix 19.9, App-Doc Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 CoCP
T-28	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing certain locations for pedestrians and cyclists travelling along Long Drive, Bannold Drive, Burgess's Drive, Fen Road.	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 (Traffic and Transport) of the CoCP Part A which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.</p>	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and) of CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP
T-29	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing certain locations for pedestrians and cyclists travelling along Long Drive,	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works 	Construction	Sections 6.3 (Adherence to dedicated routes), 6.4 (Vehicle scheduling), 6.5 (Delivery scheduling), 6.9 (Facilitate safe movement of users of the highway (including non-motorised users), and Section 7.2 (Monitoring Strategy) of the	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism	
		Bannold Drove, Burgess's Drove, Fen Road.	<ul style="list-style-type: none"> Section 6.9 avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time <p>Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which requires junction widening at:</p> <ul style="list-style-type: none"> Bannold Road / Bannold Drove Bannold Road / Burgess's Drove Burgess's Drove <p>Section 6.9 requirement for speed restrictions to Burgess's Drove, Bannold Drove and Bannold Road as well as Clayhithe Road will be put in place in accordance with the Temporary Traffic Regulation Order set out in the draft DCO</p> <p>Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following:</p> <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and <p>FORS and CLOCS accreditation</p>			Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	
T-30	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing certain locations for pedestrians and cyclists travelling along Long Drove, Bannold Drove, Burgess's Drove, Fen Road.	<p>Construction Traffic Management Plan and Community Liaison Plan</p> <p>Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including: communication of construction activity, construction vehicle movements..</p>	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and) of CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) Community Liaison Plan (App-Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP	
T-31	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing locations along all roads used as the construction route (that do not meet the criteria in IEMA rule 2)	<p>Design—Accesses</p> <p>Appropriate design of temporary connections from works areas to the road network in accordance with local highways standards</p>	Construction	ES Chapter 2 Sections 2 para 2.9.3 and 3.1 3.1 Construction phasing and sequence of assembly (App Doc Ref 5.2.2) Design Plans—Highways and Site Access (App-Doc Ref 4.11) Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 7—Detailed design	
T-32	Chapter 19: Traffic and Transport	Construction traffic leads to temporary adverse impacts	Construction Worker Travel Plan	Construction	Construction Workers	DCO Schedule 2 Requirement 8 CoCP	

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.3—Securing Mitigation	to users of cycling routes, public rights of way, footways, and roads accessing locations along all roads used as the construction route (that do not meet the criteria in IEMA rule 2)	Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods.		Travel Plan (Appendix 19.9, App-Doc-Ref 5.4.19.9)	DCO Schedule 2 Requirement 9 CEMP
T-33	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing locations along all roads used as the construction route (that do not meet the criteria in IEMA rule 2)	Code of Construction Practice Implementation of section 7.7 (Traffic and Transport) of the CoCP Part A which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
T-34	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing locations along all roads used as the construction route (that do not meet the criteria in IEMA rule 2)	Construction Traffic Management Plan Implementation of the CTMP in particular: <ul style="list-style-type: none"> Section 6.3 (Adherence to Designated Routes) which specified that temporary Automatic Number Plate Recognition (ANPR) cameras will be installed at the following locations (subject to approval by Cambridgeshire County Council as the Local Highways Authority and any other relevant stakeholders): <ul style="list-style-type: none"> On Horningsea Road, located immediately north and south of the A14 signalised junctions; and North of Low Fen Drove Way to capture construction vehicles associated with temporary site access points COA3 Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works 	Construction	Sections 4.4 (CEMP), 6.3 (Adherence to Designated Routes) and 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) of CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1) Construction Traffic Management Plan (Appendix 19.7, App-Doc-Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP
T-35	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing locations along all roads used as the construction route (that do not meet the criteria in IEMA rule 2)	Code of Construction Practice and Community Plan Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1) Community Liaison Plan (App-Doc-Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP a detailed community liaison plan which must accord with the measures set out in the community liaison plan,
T-36	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary delay to users of PRoW due to gated controlled access on PRoW intersected by works	Code of Construction Practice Implementation of section 7.7 (Traffic and Transport) of the CoCP Part A which includes measures PRoW in particular;	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		corridor and construction activities	<ul style="list-style-type: none"> the requirement to maintain access through the use of safety gates to allow safely cross the construction working area. the requirement to divert PRoW where no safe option exists to continue its use the requirement to restore PRoW to the same condition as before the works took place 			
T-37	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary delay to users of PRoW due to gated controlled access on PRoW intersected by works corridor and construction activities	<p>Code of Construction Practice</p> <p>Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including:</p> <ul style="list-style-type: none"> communication of changes to access because of PRoW realignment or diversion communication of construction activity, construction vehicle movements. Requirement to appoint CLO Requirement to implement approved CLP 	Construction	Section 3, CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) Community Liaison Plan (App-Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP (2)(a)(i) a detailed community liaison plan which must accord with the measures set out in the community liaison plan,
T-38	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary delay to users of PRoW due to gated controlled access on PRoW intersected by works corridor and construction activities	<p>Code of Construction Practice</p> <p>Temporary diversion of the PRoW 85/6 at the outfall works area using 85/8 and a temporary path to re-join the PRoW 85/6 upstream of the outfall works area. The CoCP Part A includes</p> <ul style="list-style-type: none"> a requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area which would allow users diverted on to the 85/8 to cross over the works to construct the treated effluent pipeline and join the temporary diversion back to the 85/6; and a requirement for all PRoW to be restored to the same condition as before the works took place or to a standard which is acceptable to the Local Highway Authority which returns the paths to the same or better condition, so journey quality is unaffected once the works have been completed. 	Construction	Sections 4.4 (CEMP) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Rights of Way Plans (App Doc Ref 4.6) Sections 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) and 7.2 (Monitoring and scheduling) of Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 10—Outfall management plan
T-39	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists travelling along Long Drove, Bannold Road, Burgess's Road, Fen Road	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which <ul style="list-style-type: none"> requires connectivity/access to community facilities and residential properties to be maintained during works. At the level crossings on Bannold Road and Station Road in Waterbeach, construction traffic, where necessary, should have restricted working hours, speed restrictions and the use of banks persons 	Construction	Sections 4.4 (CEMP) CoCP Part A and 3.1 CoCP Part B (Appendix 2.1, App-Doc Ref 5.4.2.1 & 5.4.2.2) Sections 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) and 7.2	

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> — requires connectivity/access to community facilities and residential properties to be maintained during works. At the level crossings on Bannold Road and Station Road in Waterbeach, construction traffic, where necessary, should have restricted working hours, speed restrictions and the use of banks persons — Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which includes a commitment to avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time and to adequately reinstate any areas of footpath affected by the works and to maintain the existing alignment/gradient as much as is practicable — Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which requires that speed restrictions Speed restrictions to Burgess's Drove, Bannold Drove and Bannold Road as well as Clayhithe Road to be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in the draft DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders) <p>Section 7.2 which requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following:</p> <ul style="list-style-type: none"> ● Documented pre-commencement meetings with the site management team as a contractual requirement; ● Active traffic management; and ● FORS and CLOCS accreditation 		<p>(Monitoring and scheduling) of Construction Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7</p> <p>Rights of Way Plans (App Doc Ref 4.6)</p>	
T-40	Chapter 19: Traffic and Transport Table 5.3 – Securing Mitigation	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists travelling along Long Drove, Bannold Road, Burgess's Road, Fen Road	<p>Code of Construction Practice and Community Liaison Plan</p> <p>Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PProW realignment or diversion</p>	Construction	Section 3, CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) Community Liaison Plan (App-Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP a detailed community liaison plan which must accord with the measures set out in the community liaison plan;
T-41	Chapter 19: Traffic and Transport Table 5.3 – Securing Mitigation	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists travelling along roads that are part of the construction route (that do not meet Rule 2)	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 of the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref: 5.4.2.1, 5.4.2.2) Part A (Traffic and Transport) which includes measures for temporary traffic control and measures manage the impact upon users of the PProW during the construction period.</p>	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
T-42	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists travelling along roads that are part of the construction route (that do not meet Rule 2)	Code of Construction Practice Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRow realignment or diversion	Construction	Sections 3, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP
T-43	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists travelling along roads that are part of the construction route (that do not meet Rule 2)	Construction Traffic Management Plan Section 4.2 of the CTMP which recognises the footpath/cycleway along Cowley Road is a potential conflict area which may require diversion and traffic management measures (subject to agreement with the LHA) for pedestrians and other NMUs. Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none">Documented pre-commencement meetings with the site management team as a contractual requirement;Active traffic management; andFORS and CLOCS accreditation	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Sections 4.2 (Local routeing and site plant vehicle routeing) and 7.2 (Monitoring strategy) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP (2)(a)(vii) a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan,
T-44	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists travelling along roads that are part of the construction route (that don't meet Rule 2)	Code of Construction Practice Implementation of section 7.7 (Traffic and Transport) which of the CoCP Part A (includes measures for temporary traffic control.	Construction	Sections 3 (Community & Stakeholder Engagement), 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP a detailed community liaison plan which must accord with the measures set out in the community liaison plan,
T-45	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Construction traffic leads to temporary increase in accidents and road safety / worsening of road user safety on Long Drove, Bannold Drove, Burgess's Drove, Fen Road	Construction Traffic Management Plan Implementation of the CTMP in particular <ul style="list-style-type: none">Section 4.2 of the CTMP which recognises the footpath/cycleway along Cowley Road is a potential conflict area which may require diversion and traffic management measures (subject to agreement with the LHA) for pedestrians and other NMUs.Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which includes a commitment to avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time and to adequately reinstate any areas of footpath affected by the works and to maintain the existing alignment/gradient as much as is practicable	Construction	Sections 4.2 (Local routeing and site plant vehicle routeing), 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) and 7.2 (Monitoring and scheduling) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP (2)(a)(vii) a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan,

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> ● Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which; <ul style="list-style-type: none"> — requires connectivity/access to community facilities and residential properties to be maintained during works. At the level crossings on Bannold Road and Station Road in Waterbeach, construction traffic, where necessary, should have restricted working hours, speed restrictions and the use of banks persons — requires that speed restrictions to Burgess’s Drive, Bannold Drive and Bannold Road as well as Clayhithe Road to be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in the draft DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders) — requires temporary parking restrictions on Bannold Road junction with Denny End Road / Car Dyke Lane for the duration of the Waterbeach pipeline construction ● Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> — Documented pre-commencement meetings with the site management team as a contractual requirement; — Active traffic management; and — FORS and CLOCS accreditation 			
T-46	Chapter 19: Traffic and Transport Table 5.2—Securing Mitigation	Construction traffic leads to temporary increase in accidents and road safety / worsening of road user safety on Long Drive, Bannold Drive, Burgess’s Drive, Fen Road	Code of Construction Practice <ul style="list-style-type: none"> ● Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including: <ul style="list-style-type: none"> — communication of traffic management activities and management of safety concerns raised by the community, residents and businesses — communication of changes to access because of PRoW realignment or diversion 	Construction	Sections 3 (Community & Stakeholder Engagement), 4.4 (CEMP), and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP a detailed community liaison plan which must accord with the measures set out in the community liaison plan,
T-47	Chapter 19: Traffic and Transport Table 5.2—Securing Mitigation	Construction traffic leads to temporary increase in accidents and road safety / worsening of road user safety on the local road network (that do not meet rule 2)	Construction Traffic Management Plan Implementation of the CTMP in particular <ul style="list-style-type: none"> ● Section 4.2 which recognises the footpath/cycleway along Cowley Road is a potential conflict area which may require diversion and traffic management measures (subject to agreement with the LHA) for pedestrians and other NMUs. ● Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all 	Construction	Sections 4.2 (Local routing and site plant vehicle routing), 5.2 (Temporary access points and construction road signage), (6.3 (Adherence to Designated Routes) and 7.2 (Monitoring and scheduling) Construction	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP (2)(a)(vii) a detailed construction traffic management plan which must accord with the measures set out in the

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 7.2 (Monitoring Strategy) which requires the Principal Contractor(s) to manage and operate a 'near miss' reporting system to ensure any accidents or near misses are recorded and investigated appropriately. Where relevant, accidents and near misses will be reported to relevant highways stakeholders by the CLO. Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation 		Traffic Management Plan (Appendix 19.7, App-Doc Ref 5.4.19.7)	construction traffic management plan;
T-48	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Operational traffic contributes to overall traffic and contributes to future delay	<p>Operational Worker Travel Plan</p> <p>Implementation of Operational Worker Travel Plan to reduce vehicle movements to and from the proposed WWTP</p> <p>Monitoring of the Operational Workers Travel Plan (OWTP) will be a requirement of CCC for a 5-year period</p>	Operation	Operational Workers Travel Plan (Appendix 19.8, App Doc Ref 5.4.19.8)	DCO Schedule 2 Requirement 19 Operational Logistics Transport Plan
T-49	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Operational traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of abnormal or hazardous loads	<p>Operational Transport Logistics Plan</p> <p>Controlled through the Operational Transport Logistics Plan and requirements in relation coordination of vehicle movements in line with the regulations for notifying authorities of abnormal loads</p> <p>Approval and implementation of an Operation Transport Logistics Plan</p>	Operation	ES Chapter 19 Traffic and Transport Table 5-3 (App Doc Reg 5.2.19)	DCO Schedule 2 Requirement 19 Operational Logistics Transport Plan
T-50	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Operational vehicle movements and the presence of the new connection to the Horningsea Road junction leads to adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>ANPR Camera</p> <p>Permanent Automatic Number Plate Recognition (ANPR) cameras will be installed at the proposed Cambridge WWTP site access on Horningsea Road once the proposed Cambridge WWTP site access is operational (subject to approval by Cambridgeshire County Council as the Local Highways Authority and any other relevant stakeholders).</p>	Operation	Section 7.2 (Monitoring Strategy) CTMP (Appendix 19.4, App-Doc Ref 5.4.19.7)	
T-51	Chapter 19: Traffic and Transport Table 5.3—Securing Mitigation	Operational vehicle movements and the presence of the new connection to the Horningsea Road junction leads to adverse effect on	<p>Operational Transport Logistics Plan</p> <p>Management of vehicle movements through application of measures within operational transport logistics plan including scheduling of deliveries and monitoring of vehicle movements including through use of ANPR data.</p>	Operation	ES Chapter 19 Traffic and Transport Table 5-3 (App Doc Reg 5.2.19)	DCO Schedule 2 Requirement 19 Operational Logistics Transport Plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		fear and intimidation for pedestrians and cyclists travelling along Horningsea Road				
W-1	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of accidental spills to groundwater quality while relocating rising mains and gravity sewers at the existing Cambridge WWTP	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in particular Part A section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery used for the works to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14, (Watercourses/drainage channels), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)</p> <p>Sections 3 CoCP Part B (Appendix 2.1, App-Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p>
W-2	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of below ground structures and areas of hardstanding, on drainage in the WWTP, and recharge and groundwater in the aquifer.	<p>Surface Water Drainage Design</p> <p>Incidences of emergent groundwater will be managed by surface water drainage design.</p> <p>Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App-Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2 or whatever guidance is current at the time of design) as well as the specific requirements for the detailed drainage design to:</p> <ul style="list-style-type: none"> provide a segregated drainage system for the proposed WWTP in areas of potential contamination. determine the area of permeable surfaces within the land required for the landscape masterplan, access road and proposed WWTP through which infiltration could occur. incorporate incidences of emergent groundwater which would then become surface water and managed within the integrated drainage solution to incorporate a storage and attenuation feature within the landscape masterplan 	Operation	Drainage strategy (Appendix 20.12, App-Doc Ref 5.4.20.12)	DCO Schedule 2 Requirement 15—Drainage
W-3	Chapter 20: Water Resources	Impact of cofferdam, used to maintain dry conditions during outfall construction,	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4, Section 5.13 (River work), 7.5 (Water resources	DCO Schedule 2 Requirement 7—Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2—Securing Mitigation	on water quality of the River Cam	<p>particular Part A section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> • Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. • Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2), in particular Part A section 4.4 which required the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into CEMP(s). These plans will include the requirement to implement best practise measures in relation to management of dewatering activities including: • Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour • The application of measures to prevent run-off from construction to the landside draining to the cofferdam such as the use of cut off drains, avoiding vegetation removal right up to the bank, minimising the areas at the bank that are disturbed/cleared, avoiding stockpiling of material close to the banks, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. <p>Approval of the detailed design, construction risk assessment and method statement in relation to outfall construction and dewatering</p>		<p>and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.3 CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p> <p>ES Chapter 2 Project description para 2.12.9 (App Doc Ref 5.2.2)</p>	<p>DCO Schedule 2 Requirement 9 (2)(a)(vi) CEMP to include detailed WQMP, Requirement 9 (2)(b)(vi) CEMP to include detailed WQMP</p> <p>Environmental permit</p>
W-4	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of construction sites increasing surface water flood risk by increasing surface water runoff during periods of heavy rainfall	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> • The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes 	Construction	<p>Sections 4.4 CEMP, 7.5 (Water resources and flood risk, dewatering) and 5.7 (Pollution Incident Control Plan) (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.1, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p> <p>ES Chapter 2 Project description para 2.12.9 (App Doc Ref 5.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>and a detailed PICP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>installed at levelled contours to control runoff.</p> <p>The management of water resources and flood risk as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, sets out a framework for the control of flood risk during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an appended plan to/as part of the CEMP. This will include the following:</p> <ul style="list-style-type: none"> ● requirement to minimise construction period for sections identified within the flood zone ● the timing of river crossing works in summer months if possible ● requirement for a flood management plan for construction works within areas at risk of flooding ● Inclusion of dry access/egress routes for pedestrians from compounds ● requirement for any soil temporarily stored within the flood zone, to include gaps to allow flood water to run through 			
W-5	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of dewatering during construction of the TPS shaft on groundwater levels at nature conservation sites.	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 of Part A which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to management of groundwater including:</p> <ul style="list-style-type: none"> ● management of dewatering activities in accordance with Environment Agency specifications including rates and durations ● measures to control dewatering (such as ceasing, changing of pump rates) to be put in place if monitoring of water levels in Black Ditch indicates adverse changes as result of dewatering during the TPS construction leads to significant effects to surface water bodies 	Construction	<p>Sections 4.4 (CEMP), Section 7.5 (Water resources and flood risk (dewatering)), and 5.7 (Pollution Incident Control Plan) CoCP Part A (Appendix 2.2, App-Doc-Ref 5.4.2.1)</p> <p>Section 3.1 of CoCP Part B (Appendix 2.2, App-Doc-Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p>
W-6	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of dewatering during outfall construction on groundwater and surface water flows and levels	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1 5.4.2.2) in particular section 4.4 of Part A which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to management of dewatering effects on groundwater including:</p>	Construction	<p>Sections 4.4 (CEMP), 7.5 (Water resources and flood risk), dewatering, management of silt during construction), and 5.7 (Pollution Incident Control Plan) CoCP Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> management of dewatering activities in accordance with Environment Agency specifications including rates and durations measures to control dewatering (such as ceasing, changing of pump rates) to be put in place if impacts on water flows/ levels are identified Approval of the detailed design, construction risk assessment and method statement in relation to outfall construction and dewatering 			Statement issued by the Environment Agency
W-7	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of dewatering of the West Melbury Marly Chalk Formation on groundwater levels during construction of the TPS shaft	<p>Groundwater monitoring</p> <p>Management of dewatering on the availability of groundwater through the monitoring of water levels in available monitoring boreholes within the land required for proposed WWTP and landscape masterplan, for a period prior to, during and following all dewatering activities during construction at the proposed WWTP in order to inform management response should monitoring indicate a change in groundwater flows as a result of dewatering. Management responses may include but not be limited to reducing or ceasing dewatering, or amending dewatering points and would be agreed through consultation with the Environment Agency.</p>	Construction	Sections 4.4 (CEMP), 7.5 (Water resources and flood risk), dewatering, management of silt during construction), and 5.7 (Pollution Incident Control Plan) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
W-8	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of dewatering of the West Melbury Marly Chalk Formation on watercourses including the River Cam, Black Ditch and Quy Water, during construction of the TPS shaft.	<p>Groundwater monitoring</p> <p>Management of dewatering on the changes to groundwater through the monitoring of water levels in available monitoring boreholes within the land required for proposed WWTP and landscape masterplan, would be undertaken for a period prior to, during and following all dewatering activities during construction at the proposed WWTP in order to inform management response should monitoring indicate a change in groundwater flows as a result of dewatering. Management responses may include but not be limited to reducing or ceasing dewatering, or amending dewatering points and would be agreed through consultation with the Environment Agency.</p>	Pre-Construction Construction Operation		DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of dewatering of West Melbury Marly Chalk Formation on a surface water abstraction for agriculture (spray irrigation) in Black Ditch	<p>Groundwater management</p> <p>Management of dewatering on the changes to groundwater through:</p> <ul style="list-style-type: none"> maintaining regular contact with the owner of a nearby private borehole during construction and putting in place measures to maintain supply to the property if required. These will be outlined in the CEMP. there will not be any dewatering to the Black Ditch itself. 	Construction	Sections 3.3, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) Community Liaison Plan (CLP) (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
W-9	Chapter 20: Water Resources Table 5.2—Securing Mitigation		<p>Groundwater monitoring</p> <p>Monitoring of water levels in available monitoring boreholes within the land required for proposed WWTP and landscape masterplan, would be undertaken for a period prior to, during and following all dewatering activities during construction at the proposed WWTP in order to inform management response should monitoring indicate a change in</p>	Pre-construction Construction Operation		DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>groundwater flows as a result of dewatering. Management responses may include but not be limited to reducing or ceasing dewatering or amending dewatering points and would be agreed through consultation with the Environment Agency.</p> <p>The scope of the monitoring including its duration will be agreed with all relevant stakeholders before commencement of works which could potentially impact the ditch.</p>			
W-10	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of excavation and backfill of stormwater and final effluent pipeline trenches on land drains and groundwater flow	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Application Document Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement the following measures in relation to groundwater flow:</p> <ul style="list-style-type: none"> • a requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner. • a requirement within the CoCP Part B, section 3.4 which requires the backfilling of trenches with suitable materials, including the use of clay plugs or partitions if necessary to prevent preferential groundwater flow in backfilled trenches. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1)</p> <p>Sections 3.4 CoCP Part B (Appendix 2.2, App-Doc-Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>-include detailed PICP,</p>
W-11	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of excavation and backfill of Waterbeach pipeline trench on land drains and groundwater flow	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement the following measures in relation to groundwater flow:</p> <ul style="list-style-type: none"> • a requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner. • a requirement within the CoCP Part B, section 3.4 which requires the backfilling of trenches with suitable materials, including the use of clay plugs or partitions if necessary to prevent preferential groundwater flow in backfilled trenches. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc-Ref 5.4.2.1)</p> <p>Sections 3.4 CoCP Part B (Appendix 2.2, App-Doc-Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>-detailed PICP,</p>
W-12	Chapter 20: Water Resources	Impact of leakage from Waterbeach pipeline to groundwater quality	Design Features and Construction Methods	Construction	ES-Chapter 2:Project Description section 3.4, Construction techniques	

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2—Securing Mitigation		Management of excavation and backfill on drainage and groundwater through robust design, construction and pressure testing of the Waterbeach pipeline which will mitigate against pipeline leakage during operation		and methodology para 3.4.49 (App Doc Ref 5.2.2) Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
W-13	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of leakage from Waterbeach pipeline to groundwater quality	Code of Construction Practice Requirement within the CoCP Part B in relation to a borehole approximately 210 metres from the pipeline, to maintain regular contact with the owner during construction and a requirement to maintain supply to the property if required. These will be outlined in the CEMP. A non-derogation agreement will be entered into with the owners at their request.	Construction	Sections 3.4, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) Sections 3.4, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP Requirement 9 CEMP to include detailed PICP,
W-14	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of minor inflows of groundwater to shafts or outflow of wastewater from the TPS shaft	Groundwater monitoring Management of potential changes to groundwater through monitoring of groundwater to detect change in water quality to trigger further control measures in the unlikely event that there are incidences of contamination from leaks from operation of the proposed WWTP.	Operation	ES Chapter 20 Water Resources Section 4.1 para 4.1.105 (App Doc Ref 5.2.20)	
W-15	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of spills or leaks migrating in groundwater through the West Melbury Marly Chalk Formation to surface drains connected to the Black Ditch watercourse	Environmental management system Operation in accordance with environmental permit for the proposed WWTP including implementation of EMS which will include materials storage controls, spill control measures, emergency response procedures. The Operational Management Plan will include regular inspection and repair regime of all tanks and areas with potential for hydrocarbon contamination such as bunds around fuel tanks and hard standing. Measures for continuous control of site activities during the operation and maintenance of the proposed WWTP through operational procedures in relation to inspections and repair, asset condition assessment (such as checking the integrity of tanks, bunds and hard standing), materials storage controls, spill control measures, and emergency responses. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit
W-16	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of spills or leaks migrating in groundwater through the West Melbury Marly Chalk Formation to surface drains connected to the Black Ditch watercourse	Surface Water Drainage Design Measures to minimise contamination through detailed surface water drainage design complying with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2 or whatever guidance is current at the time of design) as well as the specific requirements for the detailed drainage design to	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 7—Detailed design DCO Schedule 2 Requirement 15—Drainage

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>provide a segregated drainage system for the proposed WWTP in areas of potential contamination within the proposed WWTP.</p> <p>Detailed drainage design will determine the area of permeable surfaces within the land required for the landscape masterplan, access road and proposed WWTP through which infiltration could occur.</p>			
W-17	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of spills or leaks migrating in groundwater through the West Melbury Marly Chalk Formation to surface drains connected to the Black Ditch watercourse	<p>Environmental monitoring—water</p> <p>Monitoring of water quality at Black Ditch, the northernmost land drain connecting to Black Ditch, the attenuate pond receiving discharge from the drainage network and at available monitoring boreholes within the land required for the landscape masterplan post construction in order to amend operational management activities in the event water quality decline is attributed to operational surface water drainage arrangements.</p>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	
W-18	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of the Waterbeach transfer pipeline river crossings to the River Cam water quality and flow	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular Part A section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement the following measures in relation to river crossings:</p> <ul style="list-style-type: none"> Management of river crossings through the siting of launch and recovery pits associated with trenchless construction methods are located a minimum of 8m from top of bank or existing defence whichever is applicable. the use of trenchless techniques to install structures below the river bed 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 3.4, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP detailed PICP,</p>
W-19	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact of wet testing of tanks and pipes within proposed WWTP on groundwater quality.	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular Part A section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to pollution prevention and the protection of groundwater including:</p> <ul style="list-style-type: none"> following industry standards in relation to testing activities /completion of visual inspections of equipment under test to check for signs of structural deficiency prior to commencement of testing activities 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 3.3, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> requirement for refuelling of machinery used in testing to be completed within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained measures applied for the management of leaks and spillages such as use of drip trays under construction plant and equipment, provision of spill kits requirement for emergency response measures to be in place including stopping works, training of staff, use of spill response equipment 			
W-20	Chapter 20: Water Resources Table 5.2 – Securing Mitigation	Impact of wet testing of tanks and pipes within proposed WWTP on groundwater quality.	<p>Commissioning Management Plan</p> <p>Management of commissioning activities through application of measures within the outline Commissioning Plan (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors to prepare a Commissioning Plan (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of the wet commissioning activities.</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).</p>	DCO Schedule 2 Requirement 8 – CoCP
W-21	Chapter 20: Water Resources Table 5.2 – Securing Mitigation	Impact to fluvial flood risk due to construction of the outfall	<p>Code of Construction Practice</p> <p>The management of water resources and flood risk as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, which sets out a framework for the control of flood risk during construction, identifying a number of ‘standard’ mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an appended plan to/as part of the CEMP. This will include the following:</p> <ul style="list-style-type: none"> requirement to minimise construction period (for river works) requirement for the cofferdam to be designed to maintain the flood protection levels currently provided by the riverbank. the timing of river works in summer months requirement for a flood management plan for construction works within areas at risk of flooding requirement to secure or relocation loose items within compounds, laydown or storage areas within flood zone 2 and 3 to prevent them becoming a debris hazard in a flood event or where practical removed from the flood zone if high rainfall within the catchment is predicted requirement for the Principal Contractor(s) to consult with the Environment Agency, IDB, Lead Local Flood Authority and any other relevant risk management authorities in respect of the flood risks in the preparation of the Emergency Preparedness Plan and Pollution Incident Control Plan. This will include use of the Environment Agency’s Floodline flood warning service for works within areas at risk of flooding. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.13 (River work), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>ES Chapter 2 Project description para 2.12.9 (App Doc Ref 5.2.2)</p> <p>Section 3 COCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position Statement issued by the Environment Agency

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			Phasing of construction activities Section 3.1 of the CoCP Part B in relation to completion of in river works in summer months when water levels are expected to be lower			
W-22	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact to groundwater abstractions due to dewatering of open-cut trenches during Waterbeach pipeline installation	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> • The application of measures to prevent run-off from construction on the landslide draining to the cofferdam such as the use of cut-off drains, avoiding vegetation removal right up to the bank, minimising the areas at the bank that are disturbed/cleared, avoiding stockpiling of material close to the banks, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff • Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. • Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits • Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. • Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained • Management of excavation and backfill on drainage and groundwater through: • Robust design, construction and pressure testing of the Waterbeach pipeline which will mitigate against pipeline leakage during operation 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)</p> <p>Sections 3.4 CoCP Part B (Appendix 2.2 App-Doc Ref 5.4.2.2)</p> <p>ES Chapter 2 Project description para 2.12.9 (App-Doc Ref 5.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p>
W-23	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact to groundwater abstractions due to dewatering of open-cut trenches during Waterbeach pipeline installation	<p>Code of Construction Practice</p> <p>A requirement within the CoCP Part B in relation to a borehole approximately 210 metres from the pipeline, to maintain regular contact with the owner during construction and a requirement to maintain supply to the property if required. These will be outlined in the CEMP. A non-derogation agreement will be entered into with the owners at their request</p>	Construction	Sections 3.4 CoCP Part B (Appendix 2.2, App-Doc Ref 5.4.2.2)	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Chapter 20: Water Resources	Impact to groundwater quality due to construction of interception Shaft 1 and intermediate Shafts 2 and 3.	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> management of dewatering activities associated with shaft construction in accordance with Environment Agency specifications including control of dewatering rates. Best practice measures applied for management of dewatering including control on rates agreed through regulator. <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters as (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974) including:</p> <ul style="list-style-type: none"> measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained emergency response measures including stopping works, training of staff, use of spill response equipment management of dewatering to meet requirements of the Environmental Permit required for dewatering including setting the rates and duration of dewatering activity to be informed by the detailed construction methods. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)</p> <p>Sections 3.4 CoCP Part B (Appendix 2.2 App-Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position Statement issued by the Environment Agency</p> <p>Environmental Permit (Abstraction)</p>
	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact to groundwater quality in the event of accidental wastewater spills during connection of the transfer tunnel to the existing Riverside tunnel.	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters as (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974) including emergency response measures including stopping works, training of staff, use of spill response equipment		(Appendix 2.1, App Doc Ref 5.4.2.1)	
W-24	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact to residential receptors and surface drains which discharge to Black Ditch, due to surface water runoff from hard surfaces within the proposed WWTP	<p>Environmental Management System</p> <p>Management of impacts from leaks and spills in operation through the operational procedures in relation to materials storage controls, spill control measures, and emergency response procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.</p> <p>Measures for continuous control of site activities during the operation and maintenance of the proposed WWTP through operational procedures in relation to inspections and repair, asset condition assessment (such as checking the integrity of tanks, bunds and hard standing), materials storage controls, spill control measures, and emergency responses.</p>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit
W-25	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact to groundwater abstractions due to dewatering of open cut trenches during Waterbeach pipeline installation	<p>Surface Water Drainage Design</p> <p>Management of impacts to surface water through application of design measures within the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12) (secured through requirements in the DCO), which sets out design requirements for surface water drainage including measures to avoid or minimise impacts to surface water run-off from the proposed WWTP:</p> <ul style="list-style-type: none"> ● Design of access road drainage to incorporate sustainable drainage features ● Inclusion of segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy 	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 7—Detailed design DCO Schedule 2 Requirement 15—Drainage
W-26	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impact to superficial and bedrock groundwater flows and levels, due to dewatering of open cut trenches during the FE and Storm Pipeline installation	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, Application Document Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> ● Minimising run-off and the risk of runoff reaching ditches and watercourses such as through the siting of launch and recovery pits associated with trenchless construction methods to be located a minimum of 8m from top of bank 	Construction	Sections 4.4 Construction Environment Management Plan, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> • The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. • Management of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit, whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour • Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits • Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. • Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 			
W-27	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impacts of spillages of potentially contaminating materials used in construction, and the potential for construction-related turbidity, giving rise to contamination of groundwater.	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App-Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974) including:</p> <ul style="list-style-type: none"> • The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. • Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. • Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits 	Construction	Sections 4.4 (CEMP) para 4.4.4, , 7.5 (Water resources and flood risk, dewatering, management of silt during construction), and 5.7 (Pollution Incident Control Plan) CoCP Part A (Appendix 2.1, App-Doc Ref 5.4.2.1)	DCO-Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 			
W-28	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impacts of spillages of potentially contaminating materials used in construction, and the potential for construction-related turbidity, giving rise to contamination of groundwater.	<p>Groundwater monitoring</p> <p>Monitoring of water quality at available monitoring boreholes within the land required for the landscape masterplan post-construction in order to amend operational management activities in the event water quality decline is attributed to operational surface water drainage arrangements</p> <p>Requirement for operational management and monitoring plans to include specific provision for water quality monitoring at the specified locations through a requirement of the draft DCO (App Doc Ref 2.1).</p>	Pre-Construction Construction Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	
W-29	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impacts to surface water quality from spillages of contaminants and from discharges of silt-laden water from dewatering activities.	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2 App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974) including:</p> <ul style="list-style-type: none"> Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits The application of measures to prevent run-off from construction such as the use of cut-off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 	Construction	Sections 4.4 (CEMP) para 4.4.4, 7.5 (Water resources and flood risk, dewatering, management of silt during construction), and 5.7 (Pollution Incident Control Plan) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment <p>The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff.</p>			
W-30	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Impacts to water quality in watercourses close to the Waterbeach pipelines due to discharge of fluids used for pipeline testing	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, Application Document Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. The management of potential impacts associated with the disposal of pipeline testing fluids will be through: A requirement within the CoCP Part B for the use of clean water will be used for pressure testing. Chlorine will be removed prior to discharge according to associated Environmental Permit conditions Disposal to watercourse at controlled rates and locations as agreed with the Environment Agency and set out within conditions of the required Environmental Permit <p>Clean water will be used for pressure testing. Chlorine will be removed prior to discharge according to Environment Agency permit conditions.</p>	Construction	Sections 4.4 (CEMP) para 4.4.4, 7.4 (Land Quality (Drilling Fluid Breakout)), 7.5 (Water resources and flood risk, dewatering, management of silt during construction), and 5.7 (Pollution Incident Control Plan) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
W-31	Chapter 20: Water Resources Table 5.2—Securing Mitigation	Reduction in groundwater and surface water flows and levels due to dewatering in the West Melbury Marly Chalk Formation during dewatering associated with the construction of below-ground structures and foundations, plus associated groundwater	<p>Provision of Water Supply</p> <p>Impacts to groundwater levels and surface water flows will be managed through the implementation of measures to maintain supply as required by agreement to be made with the owner of the private groundwater source.</p> <p>Construction Code of Practice—Environmental monitoring</p> <p>Monitoring of water levels in available monitoring boreholes within the land required for the landscape masterplan and at Black Ditch, Allicky Farm Pond CSW, and The Cut water body within Quy Fen SSSI pre, during and post construction in order to inform management response should monitoring indicate a reduction in water levels as a result of dewatering.</p>	Pre-construction Construction	Sections 4.4 (CEMP) para 4.4.4, 7.5 (Water resources and flood risk (dewatering, management of silt during construction)), and 5.7, Pollution Incident Control Plan, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Section 3 of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	No derogation agreement DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		impact on nature conservation sites.	Management responses may include but not be limited to reducing or ceasing dewatering or amending dewatering points and would be agreed through consultation with the Environment Agency.			
W-32	Chapter 20: Water Resources Table 5.2—Securing Mitigation	The impact of treated effluent discharge (comprising final effluent and stormwater flows) from the proposed outfall on River Cam hydromorphology	Outfall Design Design measures to prevent or minimise scour and impacts from operation of the outfall are: <ul style="list-style-type: none"> ● design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall; ● flow rates controlled to be similar to existing outfall; ● design of storm storage volumes and flow rates to meet regulatory requirements; ● inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2) Design Plans—Outfall (App Doc Ref 4.13)	Environmental Permit (flood risk activities)
W-33	Chapter 20: Water Resources Table 5.2—Securing Mitigation	The impact of treated effluent discharge (comprising final effluent and stormwater flows) from the proposed outfall on River Cam hydromorphology	Outfall Design Design measures to prevent or minimise scour and impacts from operation of the outfall are: <ul style="list-style-type: none"> ● design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall; ● flow rates controlled to be similar to existing outfall; ● design of storm storage volumes and flow rates to meet regulatory requirements; ● inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2) Design Plans—Outfall (App Doc Ref 4.13)	DCO Schedule 2 Requirement 7 Detailed Design DCO Schedule 2 Requirement 10 Outfall Management Plan
W-34	Chapter 20: Water Resources Table 5.2—Securing Mitigation	The impact of treated effluent discharge (comprising final effluent and stormwater flows) from the proposed outfall on River Cam hydromorphology	A requirement to prepare and implement an outfall management and monitoring plan covering the operation of the outfall to include a programme of routine visual inspection of both riverbanks downstream of the proposed outfall following a stormwater discharge event to inform the need for maintenance or repair measures as agreed with the Environment Agency.	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2)	
CE-1	Chapter 21: Cumulative Effects Assessment Table 4.3: Potential cumulative effects during construction	Cumulative effect to habitats and protected species as a result of construction of the Proposed Development and relocation of the Waterbeach station	Code of Construction Practice Interface plan between the Proposed Development and the Waterbeach Station relocation project to ensure each project is managed so that neither project results in new or exacerbated impacts to habitats and that mitigation measures (habitat creation) remain effective	Construction	ES Chapter 21 Table 4.2 and Table 4.3 (App Doc Ref 5.2.21)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
CE-2	Chapter 21: Cumulative Effects Assessment Table 4.3: Potential cumulative	Cumulative effect on landscape and visual amenity, including lighting, as a result of construction	Code of Construction Practice Interface plan to ensure that temporary construction works activities including compounds in close proximity do not result in new or worse	Construction	ES Chapter 21 Table 4.2 and Table 4.3 (App Doc Ref 5.2.21)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	effects during construction	of the Proposed Development and relocation of the Waterbeach station occurring concurrently	temporary impacts to visual amenity including controls on lighting and the positioning / heights of temporary structures.			
CE-3	Chapter 21: Cumulative Effects Assessment Table 4-3: Potential cumulative effects during construction	Cumulative traffic effects as a result of construction of the Proposed Development and relocation of the Waterbeach station occurring either concurrently or sequentially	Code of Construction Practice Interface plan between the Proposed Development and the Waterbeach Station relocation project to ensure each project is managed so that neither project results in new or exacerbated traffic and transport impacts and that mitigation measures remain effective and to align traffic control measures	Construction	ES Chapter 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
CE-4	Chapter 21: Cumulative Effects Assessment Table 4-3: Potential cumulative effects during construction	Flood risk	Code of Construction Practice Requirement for interface plan between the Proposed Development and the Station relocation project to ensure temporary works areas, including compounds, do not result in an overall increase in flood risk	Construction	ES Chapter 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
	Chapter 22 Major accidents	Event risk of land slip or earth bank failure	Design The earth bank will be designed and constructed according to industry best practice earthworks standards. Drainage Strategy The earth bank would be designed to have effective drainage. Landscape Masterplan Earth bank is subject to ongoing monitoring as part of the Landscape Ecology and Recreation Management Plan (LERMP) which would be applied for 30 years as a minimum as part of the biodiversity net gain (BNG) obligation (Application Doc Ref 5.4.8.14).	Operation	Design Parameters of the draft DCO (App Doc Ref 2.1) LERMP (App Doc Ref 5.4.8.14) Drainage Strategy (App Doc Ref 5.4.20.12)	DCO Schedule 2 Requirement 4 – Parameters DCO Schedule 7 Detailed design
MA-1		Event risk of land slip or earth bank failure		Operation		
MA-2				Operation		
MA-3				Construction	Design Parameters of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 4 – Parameters DCO Schedule 2 Requirement 7 – Detailed design
MA-4	Chapter 22 Major accidents	Event risk – fire or explosion: storage of Liquefied Natural Gas (LNG)	Design The design and installation of the storage facility would be in line with industry standards. Design features reducing the risk of damage to the LNG storage facility include: ● Siting controls and provision of adequate buffers to other infrastructure	Operation	ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed	DCO Schedule 2 Requirement 4 – Parameters

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> The inclusion of lightning protection in accordance with industry standards The inclusion of impact protection barriers around the storage facility The inclusion and use of the correct level of intrinsically safe equipment and protective systems would minimise the available ignition sources in a flammable atmosphere if there were to be a loss of LNG in the Proposed Development and reduce the risk of a major accident 		<p>Development (App Doc Ref 5.2.22)</p> <p>Design Parameters of the draft DCO (App Doc Ref 2.1)</p>	DCO Schedule 2 Requirement 7—Detailed design
MA-5	Chapter 22 Major accidents	Event risk—fire or explosion: anaerobic digester	<p>Design</p> <p>The design of the anaerobic digesters includes measures to manage the risk of a major accident and will be compliant with DSEAR.</p> <p>Specific design measures in relation to fire safety include:</p> <ul style="list-style-type: none"> Gas and fire and leak detection systems to be installed into boiler house. Inclusion of valves to allow controlled emergency release of gas. Inclusion of emergency flare in design 	Operation	<p>ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22)</p> <p>Design Parameters of the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 4—Parameters</p> <p>DCO Schedule 2 Requirement 7—Detailed design</p>
MA-6	Chapter 22 Major accidents	Event risk—fire or explosion: anaerobic digester	<p>Design</p> <p>Area Classification will be completed for Hazardous Area Classification for Flammable Gases and Vapours in accordance with industry standards to comply DSEAR. Area classification is a method of analysing and classifying the environment where explosive gas atmospheres may occur. The main purpose is to facilitate the proper selection and installation of apparatus to be used safely in that environment, taking into account the properties of the flammable materials that will be present. Outputs will be used to define hazard zones within the facility and subsequently define the types of equipment permitted in specific zones as well as informing the development of operational control plans.</p>	Operation	<p>ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22)</p> <p>Design Parameters of the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 4—Parameters</p> <p>DCO Schedule 2 Requirement 7—Detailed design</p>
MA-7	Chapter 22 Major accidents	Event risk—fire or explosion: anaerobic digester	<p>Biogas Holder Design</p> <p>The biogas holder is to be shielded from areas of frequent access of the general public by the earth bank. The gas holder is located over 300m from the A14 and approximately 800m from the nearest public dwelling.</p>	Operation	<p>ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22)</p> <p>Design Parameters of the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 4—Parameters</p> <p>DCO Schedule 2 Requirement 7—Detailed design</p>
MA-8	Chapter 22 Major accidents	Event risk—fire or explosion: anaerobic digester	<p>Operational Management Systems</p> <p>To mitigation against an on-site incident, under the EMS and operation procedures development for the proposed WWTP, the operator will prepare and test emergency procedures for dealing with the consequences of a major accident. The management system is required</p>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental	DCO Schedule 2 Requirement 4—Parameters

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			to include the risk management measures specified in the HAZOP and DSEAR plans and cover planned maintenance (Environment Agency, 2022)		management (App Doc Ref 5.2.2) Design Parameters of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7—Detailed design
MA-9	Chapter 22 Major accidents	Event risk—fire or explosion: battery storage	Design A cooling system which is designed to regulate temperatures within safe conditions to minimize risk of fire. The Proposed Development will have a monitoring system, fire and smoke detection. These will be linked to the site wide control system, which will be locally and remotely monitored.	Operation	ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22) Design Parameters of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 4—Parameters DCO Schedule 2 Requirement 7—Detailed design
MA-10	Chapter 22 Major accidents	Event risk—fire or explosion: battery storage	Operational Management Systems The EMS and operation procedures development for the proposed WWTP, the operator will prepare and test emergency procedures for dealing with the consequences of a major accident.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental permit
	Chapter 22 Major accidents				Drainage Strategy (App Doc Ref 5.4.20.12)	
						Environmental permit
	Chapter 22 Major accidents	Event risk—Compromised cyber security		Operation		Environmental permit
	Chapter 22 Major accidents	Event risk—Compromised cyber security		Operation		
	Chapter 22 Major accidents	Event risk—extreme events (storms and heat events)		Operation		

2.2 Mitigation tracker tables

Agricultural land and soils

Table 2.2: Agricultural and soils

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-01	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Permanent loss of up to 80ha -(30ha Grade 2 and 50ha Grade 3a) BMV land due to land required for the proposed WWTP, access road and landscaping proposals.	Impact reduced through the minimisation of land required.	Pre Construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-02	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Permanent acquisition of land from farm businesses due to proposed WWTP impacts access to adjoining agricultural land parcels	Impact minimised through the minimisation of land required and orientation of Scheme Order Limits to avoid severance and creation of land slivers.	Pre Construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-03	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Provision of land access to avoid severed land. Access for R037 and Y039 will be provided through discussion and agreement with the landowner, their tenants and or land agents. The return of land temporarily required during construction to previous use through reinstatement to original land use after construction would be in line with landowner/tenant requirements.	Construction	Section 7.4 (Land quality) of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved design and work plan and agreement with landowner prior to the start of construction Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction
AS-04	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Access for R037 and Y039 will be provided through discussion and agreement with the landowner, their tenants and or land agents. The return of land temporarily required during construction to previous use through reinstatement to original land use after construction would be in line with landowner/tenant requirements.	Construction	Section 7.4 (Land quality) of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved design and work plan and agreement with landowner prior to the start of construction Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-05	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>To reduce impacts to farm businesses the Construction Traffic Management Plan includes the details of traffic management measures such as reduced speeds, signage and haul route and access points.</p> <p>Minimising access disruption and disturbance through implementation of Section 7.6 of the CoCP Part A (Traffic and Transport) and the CTMP requirement to agree temporary access through coordination with landowners, tenants and/or land agents.</p> <p>Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of temporary changes to access.</p>	Pre Construction Construction	<p>Sections 4.4 (CEMP) and 5.14 (Watercourses/drainage channels) of the CoCP Part A (App Doc Ref 5.4.2.1)</p> <p>Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Construction Traffic Management Plan (App Doc Ref 5.4.19.7), secured through a requirement of the draft DCO (App Doc Ref 2.1)</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7).	Approved design and work plan and agreement with landowner prior to the start of construction Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction
AS-06	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Reduction in the quality of soil resources within the land required for the proposed WWTP due to soil compaction, run-off, water logging and contamination from leaks and spills.	Minimisation of land required by limiting construction widths and micro-siting	Pre construction	Intrinsic to design Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-07	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>Manged through soil quality and management mitigation measures within the CoCP Part A Section 7.4, Land quality (Soil management) (App Doc Ref 5.4.4.1) during construction including, but not limited to:</p> <ul style="list-style-type: none"> — Handling of site soils should always be conducted in accordance with the Construction Code of Practice for Sustainable Use of Soils on Construction Sites; — Soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic; 	Pre construction	<p>Sections 4.4 (CEMP) and 5.14 (Watercourses/drainage channels) of the CoCP Part A (App Doc Ref 5.4.2.1)</p> <p>Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1). Outline SMP</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved CEMP Approved SMP required prior to the commencement of soil excavation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement	
				<ul style="list-style-type: none"> —Tracked/low ground pressure vehicles are used throughout stripping and haulage to reduce structural damage through compaction; —Soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and —Stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows. —A detailed Soil Management Plan building on the outline SMP will be submitted to and approved by the LPA and will form part of a Construction Environmental Management Plan. The detailed SMP will include provision for management and monitoring for a period of at least 5 years following construction for areas not covered by the LERMP. 			(App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1))		
AS-08	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Management of excavation impact on drainage and groundwater through the requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner.	Pre construction	Sections 4.4 (CEMP) and 5.14 (Watercourses/drainage channels) of the CoCP Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved design and work plan and agreement with landowner Approved CEMP	
AS-09	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Reuse soils for planting and landscaping within the land required for the landscape masterplan, and management of these soils as part of the LERMP (App Doc Ref 5.4.8.14). Measures delivered during operation will be implemented through the long term application of the LERMP (App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders.	Pre construction	Section 1.2 (Our approach to landscape design) of the LERMP (App Doc Ref 5.4.8.14).	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	-Approved LERMP prior to start of construction	

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-10	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Soil management measures through the implementation of management and monitoring plan as a requirement of the LERMP	Pre construction	Section 4 (Indicative Creation, Management, and Maintenance Plan) of the LERMP (App Doc Ref 5.4.8.14).	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP prior to start of construction
AS-11	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.	Temporary loss of up to 18ha of agricultural land (all predicted to be grade 1 and 2) from the land required for the waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.	Minimisation of land required and orientation of Scheme Order Limits to avoid severance and creation of land slivers.	Construction	Intrinsic to design Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-12	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.		Return land temporarily required during construction to previous use through reinstatement and implementation of section 7.5 4, Land quality (Soil management), of the CoCP Part A (App Doc Ref 5.4.4.1) and application of measures within an approved a SMP based on the outline SMP (App Doc Ref 5.4.6.3): <ul style="list-style-type: none"> ● Handling of site soils should always be conducted in accordance with the Construction Code of Practice for Sustainable Use of Soils on Construction Sites (Defra 2018); ● Soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic; ● Tracked/low ground pressure vehicles are used where possible throughout stripping and haulage to reduce structural damage through compaction; ● Soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and ● Stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows 	Construction	Sections 4.4 (CEMP) and 5.14 (Watercourses/drainage channels) of the CoCP Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1). Section 5 Soil management measures within the Outline SMP (App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1))	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved CEMP Approved SMP required prior to the commencement of soil excavation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-13	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	<u>Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.</u>	Temporary requirement of land from farm businesses for construction of the waste water transfer tunnel and treated effluent transfer pipelines results in temporary disturbance from construction traffic and short-term land severance.	Creation of a temporary access from the B1047 Horningsea Road to land required for the construction of the transfer tunnel and avoidance of existing farm access to Poplar Hall. Impacts to farm holding Y844 are avoided through the use of trenchless technology for installation of the Waterbeach pipeline.	<u>Construction</u>	Intrinsic to design Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan and agreement with landowner <u>prior to the start of construction</u>
AS-14	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	<u>Land required for the construction of the Waste water transfer tunnel</u>		<u>Creation of a temporary access (CA2 on sheet 3 Access and traffic regulation order plans (App Doc Ref 4.7.3)) from the B1047 Horningsea Road to land required for the construction of the transfer tunnel and avoidance of existing farm access to Poplar Hall.</u>	<u>Construction</u>	<u>Sheet 3 Access and traffic regulation order plans (App Doc Ref 4.7.3)</u>	<u>DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)</u>	<u>Approved design and work plan and agreement with landowner prior to the start of construction</u>
AS-15	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	<u>Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.</u>		Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A (Application Doc Ref: 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of temporary changes to access. Minimising access disruption and disturbance through implementation of Section 7.6 of the CoCP Part A (Traffic and Transport) and the CTMP requirement to agree temporary access through coordination with landowners, tenants and/or land agents. Minimising temporary short-term impacts to farm businesses through application of the measures required by the CTMP in particular: <ul style="list-style-type: none"> Section 6.3 (Adherence to Designated Routes) Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian. 	Construction	Section 3 (Community & Stakeholder Engagement), section 4.4 (CEMP) and section 7.6 (Traffic and transport transport) of the CoCP Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1). Sections 5.2 and 6.3 of the CTMP (App Doc Ref 5.4.19.7) secured through a requirement of the draft DCO (App Doc Ref 2.1)	<u>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase.</u> <u>Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u> <u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</u> <u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</u>	Approved design and work plan <u>prior to the start of construction</u> Approved CEMP <u>prior to the start of construction</u> Approved CTMP <u>prior to the start of construction</u> Approved CLP <u>prior to the start of construction</u>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-16	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	<u>Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.</u>	Temporary requirement of agricultural land results in effect on soil resources due to soil compaction, poor soil storage, run-off, water logging and contamination from leaks and spills during construction of the final effluent pipeline and the waste water transfer tunnel	Impact minimised through the minimisation of construction widths of the Waterbeach pipeline corridor. Minimisation of land required. Impact minimised through the minimisation of construction widths of the Waterbeach pipeline corridor.	Construction	Intrinsic to design Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-17	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	<u>Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.</u>		Soil quality and management mitigation measures include, but are not limited to the following: <ul style="list-style-type: none"> • Handling of site soils should always be conducted in accordance with the Construction Code of Practice for Sustainable Use of Soils on Construction Sites; • Soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic; • Tracked/low ground pressure vehicles are used throughout stripping and haulage to reduce structural damage through compaction; • Soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and • Stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows. • Where possible land drains will be avoided (Section 5.14 of CoCP Part A). • A detailed Soil Management Plan building on the outline SMP will be submitted to and approved by the LPA and will form part of a Construction Environmental Management Plan. 	Construction	Section 4.4 (CEMP) and 5.14 (Watercourses/drainage channels), Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1). Section 5 Soil management measures within the Outline SMP (App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1))	<u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)</u>	Approved CEMP Approved SMP required prior to the commencement of soil excavation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-18	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	<u>Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.</u>		Management of excavation impact on drainage and groundwater through the requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner	Construction	Section 4.4 (CEMP) and Section 5.14 (Watercourses/drainage channels), Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP <u>prior to the start of construction</u> Approved design and work plan and agreement with landowner <u>prior to the start of construction</u>
AS-19	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	<u>Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.</u>	<u>Effect on quality of soil resources due to temporary requirement of land for waste water transfer tunnel and treated effluent transfer pipelines</u>	<ul style="list-style-type: none"> As for AS-17 	Construction	Sections 4.4 (CEMP), 5.14 (Watercourses/drainage channels), and 7.4 (Land quality (Soil management)) Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1). Outline SMP (App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved CEMP Approved SMP required <u>prior to the commencement of soil excavation</u>
AS-20	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	<u>Waterbeach pipeline</u>	Temporary loss of up to 50 ha of agricultural land (42ha predicted to be Grades 1 and 2, deemed BMV land, with 8ha of Grade 3 land which may be BMV land depending on sub-grade)	Minimising construction widths of the Waterbeach pipeline corridor.	Construction	Intrinsic to design Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan <u>prior to the start of construction</u>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
			during construction of the Waterbeach pipeline					
AS-21	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline		<ul style="list-style-type: none"> As for AS-17 	Construction	Sections 4.4 (CEMP), 5.14 (Watercourses/drainage channels), and 7.4 (Land quality (Soil management)) Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1). Section 5 Soil management measures within the Outline SMP (App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1))	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP Approved SMP required prior to the commencement of soil excavation
AS-22	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Temporary requirement of land from farm businesses for construction of the Waterbeach pipeline.	Design measure which creates a temporary haul route section parallel to Hatridges' Lane	Construction	Intrinsic to design Sheet 9, Access and traffic regulation order plans (App Doc Ref 4.7.3).	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan <u>prior to the start of construction</u>
AS-23	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline		Use of trenchless techniques for the construction of the Waterbeach pipeline to avoid a land parcel between the River Cam and Fen Road in the southern extent of the Scheme Order Limits.	Construction	Intrinsic to design Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan <u>prior to the start of construction</u>
AS-24	ES Chapter 06: Agriculture and	Waterbeach pipeline		Minimising temporary short-term impacts to farm businesses through application of the measures required by the CTMP in particular:	Construction	Section 3 (Community & Stakeholder	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a	Approved CEMP <u>prior to the start of construction</u>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary			<ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian. <p>Minimising access disruption and disturbance through implementation of Section 7.6 of the CoCP Part A (Traffic and Transport) and CTMP including the requirement to agree temporary access through coordination with landowners, tenants and/or land agents.</p> <p>Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A (App Doc Ref: 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of temporary changes to access.</p> <p>CoCP Part B section 3.4 - Final access arrangements for the following fFarm-farm holdings will be agreed with the landowner as per the Land Plans (App Doc Ref 4.4), parcel numbers: 012a-012m, 021a-021o, 036a-036d, 037a-037c, 039a-039c, 042a-042f, 044a-044d, 046a-046d and 055a.</p>		Engagement), 4.4 (CEMP), 7.6 (Traffic and transport) and 5.14 (Watercourses/drainage channels) of the Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1). Section 3.4 (Waterbeach pipeline) CoCP Part B (App Doc Ref 5.4.2.2) Section 5.2 (Temporary access points and construction road signage) and 6.3 (Adherence to Designated Routes) of the CTMP (App Doc Ref 5.4.19.7)	<p><u>CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u></p> <p><u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</u></p> <p><u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</u></p>	<p>Approved CTMP <u>prior to the start of construction</u></p> <p>Approved CLP <u>prior to the start of construction</u></p> <p>Approved design and work plan and agreement with landowner <u>prior to the start of construction</u></p>
AS-25	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	<u>Waterbeach pipeline</u>	Temporary reduction in the quality of soil resources during the construction of the Waterbeach pipeline due to soil compaction, poor soil storage, run-off, water logging and contamination from leaks and spills.	<ul style="list-style-type: none"> Use of trenchless techniques for the construction of the Waterbeach pipeline to avoid a land parcel between the River Cam and Fen Road in the southern extent of the Scheme Order Limits. As for AS-23 	Construction	Intrinsic to design Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan <u>prior to the start of construction</u>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-26				<ul style="list-style-type: none"> As for AS-17 <p>Soil quality and management mitigation measures include, but are not limited to the following:</p> <p>handling of site soils should always be conducted in accordance with the Construction Code of Practice for Sustainable Use of Soils on Construction Sites (Defra 2018);</p> <p>soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic;</p> <p>tracked/low ground pressure vehicles are used throughout stripping and haulage to reduce structural damage through compaction;</p> <p>soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and</p> <p>stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows.</p> <p>where possible land drains will be avoided (Section 5.14 of CoCP Part A);</p> <p>a detailed Soil Management Plan building on the outline SMP will be submitted to and approved by the LPA and will form part of a Construction Environmental Management Plan.</p>	Construction	<p>Sections 4.4 (CEMP), 5.14 (Watercourses/drainage channels), and 7.4 (Land quality (Soil management)) Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1);</p> <p>Section 5, Soil management measures, within the Outline SMP (App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1))</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)</p>	<p>Approved CEMP prior to the start of construction</p> <p>Approved SMP required prior to the commencement of soil excavation</p>
AS-27	<p>ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6)</p> <p>Table 5-2 Securing mitigation summary</p>	<p>Waterbeach pipeline</p>		<p>Management of excavation impact on drainage and groundwater through the requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner</p>	Construction	<p>Section 4.4 (CEMP) and 5.14 (Watercourses/drainage channels), Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p>	<p>Approved CEMP prior to the start of construction</p> <p>Approved design and work plan and agreement with landowner prior to the start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						draft DCO (App Doc Ref 2.1).		
AS-28	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Land required for the proposed WWTP	Effect on soil resources reused within the landscape masterplan	Measures delivered during operation will be implemented through the long term application of the LERMP (App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP	Operation	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with Table 5.1 of the Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Detailed management and monitoring plan prepared prior to year 1 of operation
AS-29	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Land required for the Waterbeach pipeline	Permanent acquisition of land from farm businesses resulting in small areas of severance.	Management of potential impact from the location of permanent valves as set out within the CoCP Part B, Section 4.4 which requires the coordination with landowners for the final position of air valves.	Prior to start of Construction	Section 3 (Site specific measures) of the CoCP Part B (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved CEMP prior to the start of construction Approved SMP required prior to the commencement of soil excavation
AS-30	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Land required for the Waterbeach pipeline	Permanent acquisition of land from farm businesses due to proposed WWTP impacts access to adjoining agricultural land parcels	Management of potential impact from the location of permanent valves as set out within the CoCP Part B, Section 4 3.4 which requires the coordination with the land owners for the final position of air valves.	Prior to start of Construction	Section 4.4 (CEMP) of the CoCP Part B (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan and agreement with landowner prior to the start of construction Approved CEMP prior to the start of construction

Air quality

Table 2.3: Air quality

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
A-01	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Land required for the proposed WWTP, and the Waterbeach pipeline, and the Existing Cambridge WWTP	Temporary instances of dust creation from construction activities (such as land clearance, earthworks, materials handling) leading to impacts from construction dust	<p>Management of construction activities to control dust risk have been determined using the recommendations set out in IAQM guidance and are described within the CoCP Part A (App Doc Ref 5.4.2.1). These measures include:</p> <ul style="list-style-type: none"> ● Section 4.4 (CEMP) of CoCP Part A (App Doc Ref 5.4.2.1)- which requires the Principal Contractor(s) to produce an Air Quality Management Plan(s) before works commence on site. The Plan will be appended to or incorporated into the CEMP(s). ● Section 7.8 (Air Quality) of CoCP Part A (App Doc Ref 5.4.2.1) which requires the following general measures will be put in place to minimise dust including but not limited to: <ul style="list-style-type: none"> – minimising the movement of construction traffic around the working area as far as possible. – provision of adequate water supplies for effective dust/particulate matter suppression – sweeping and damping down of surfaces at regular intervals – use of enclosed chutes and conveyors and covered skips – where necessary the use of solid screens or barriers when activities will a high potential for dust generation are carried out – removal of materials which have the potential to produce dust will from site as soon as possible, unless being re-used on site. If they are being re-used on-site, they will be covered or stored in locations where there is less potential for impact – positioning of stockpiles as far as practicable from residential areas and at least 10 metres from watercourses where practical; – sealing of stockpiles by means of back blading the stockpile to help reduce 	Construction	Sections 4.4 (CEMP) and 7.8 (Air quality) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	Approved phasing plan Approved CEMP with AQMP sub plan required prior to construction commencement (land clearance and earthworks)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				dust and to not promote areas for wildlife habitat				
A-02				Section 3.2 (Transfer tunnel) of the CoCP Part B specifies that stockpiles associated with Shaft 5 will be back bladed with the back of the excavator bucket, to shape and compact the surface of the stockpile to control dust.	Construction	Sections 4.4 (CEMP) and 7.8 (Air quality) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.2 (Transfer Tunnel) CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	DCO Schedule 2, Requirement 8 CoCP Requirement 9—CEMP to include detailed AQMP Approved CEMP with AQMP sub plan required prior to construction commencement
A-03	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Land required for the proposed WWTP, and the Waterbeach pipeline, and the Existing Cambridge WWTP	Short term emissions from the use of construction plant results in short term reduction in local air quality	The CoCP Part A Section 7.8. (Air Quality) includes the following general measures to be in place to minimise emissions and avoid nuisance: <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; low emission vehicles and plant will be used as far as possible; and movement of construction traffic around the working area will be minimised as far as possible 	Construction	Approval and implementation of a Construction Environmental Management Plan (Section 4.4 CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (Application Document Reference 2.1). Sections 4.4 (CEMP) Para 4.4.4., and 7.8 (Air quality) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP with AQMP sub plan required prior to construction commencement
A-04	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Local and strategic road network routes used for construction access to the proposed WWTP	Short term emissions from construction traffic using the public highway results in short term reduction in local air quality	Management of construction vehicle movements described within the CTMP (Application Document Reference 5.4.19.7) to minimise disruption on the public highway in particular: <ul style="list-style-type: none"> Section 6.3 (Adherence to Designated Routes) of the CTMP (App Doc Ref 5.4.19.7) 	Construction	Section 6.3 (Adherence to Designated Routes) of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7)- secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approved CTMP required prior to construction commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
A-05	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Proposed WWTP	Operation of Whessoe Valves resulting in short term very infrequent emissions to air	Operation of the energy facility so that there is flaring of biogas prior to emergency operation of Whessoe Valves	Operation	Intrinsic to design Design Parameters of the draft DCO (App Doc Ref 2.1)	Integrated Environmental Permit	Environmental permit granted prior to commission. Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (and subsequent variations).
A-06	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Proposed WWTP	Operation of energy plant requiring continuous emissions of nitrogen oxides and sulphur dioxide to air resulting in reduced local air quality	Energy plant will have suitable exhaust stack height and operate in accordance with the relevant MCPD emission limit values for energy plant which will be specified within a site-specific Environmental Permit.	Operation	ES Chapter 2 (Project Description), Section 2.4 (Sludge Treatment Centre), para 2.4.3 (App Doc Ref 5.2.2). ES Chapter 7 (Air quality), Table 2-19 (App Doc Ref 5.2.7) Design Parameters of the draft DCO (App Doc Ref 2.1)	Integrated Environmental Permit	Environmental permit granted prior to commission. Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (and subsequent variations).

Biodiversity

Table 2.4: Biodiversity

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-01	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Temporary water quality impacts on Stow-cum-Quy Fen SSSI during construction due to, run-off, water logging and contamination from leaks and spills.	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be	Construction	Sections 7.4 (Land quality) 7.5 (Water resource and flood risk), 7.9 (Waste management and resource use), 7-11, 7-12 CoCP Part A	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in	Approved CEMP required prior to the commencement of construction of the proposed WWTP to include appended plans including those

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
			Dewatering during the construction of the outfall temporarily reduces water quality within the River Cam CWS	<p>appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 		(Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Air Quality Management Plan (AQMP), and Water Quality Management Plan (WQMP), and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1)	so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	governing water quality, emergency preparedness and response plans
BY-02	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Outfall construction extent	River Cam County Wildlife Site- Dewatering during the construction of the outfall temporarily reduces water quality within the River Cam CWS	<p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge 	Construction	Sections 4.4 (CEMP) 7.5 (Water resource and flood risk), CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)) Section 3.1 CoCP Part B (App Doc Ref 5.4.4.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP required prior to the commencement of construction of the proposed WWTP to including appended plans including those governing water quality, emergency preparedness and response plans

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p><u>and control of dewatering discharge rates to prevent scour</u></p> <p><u>CoCP Part B section 3.1. and requirements for site specific measures to be picked up in the OMMP including fish rescue, maintaining buffers along water bodies and pollution prevention to meet relevant permit and licence conditions.</u></p>				
BY-03	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary			<p>Temporary works design measure:</p> <ul style="list-style-type: none"> • <u>use of cofferdam to create dry working area within the River Cam</u> 	Construction	<p>Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2)</p> <p>Section 3 (Site specific measures) CoCP Part B (App Doc Ref 5.4.4.2)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	<p>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approval and implementation of a Outfall Management and Monitoring Plan</p>
BY-04	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Dewatering during the construction of the outfall temporarily reduces water quality within the River Cam CWS	<p>Best practice measures as detailed within CoCP parts A and B applied during construction to minimise the risk of runoff reaching ditches and watercourses</p> <p>Best practice measures as detailed within CoCP parts A and B applied for management of dewatering activities including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> • measures to minimise run-off and the risk of runoff reaching ditches and watercourses • management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, 7.2 (Nature conservation and ecology), and 7.5 (Water resource and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1).</p> <p>ES Chapter 2 (Project Description), para 2.12.9 (App Doc Ref 5.2.2)</p> <p>Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p> <p>Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approval of an Outfall Management and Monitoring Plan prior to the start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p><u>and control of dewatering discharge rates to prevent scour.</u></p> <p><u>Dewatering impacts within the River Cam CWS managed through the temporary works design which specifies the use of cofferdam to create dry working area within the River Cam.</u></p> <p><u>Phasing of construction activities, Section 3.1 of the CoCP Part B, in relation to completion of in river works in summer months when water levels are expected to be lower.</u></p>				
BY-05	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Proposed WWTP (including permanent access and land required for landscape masterplan)</u>	Temporary works within the river bed during the construction of the treated effluent discharge outfall to the River Cam reduce water quality in the River Cam CWS	<p>Same as Management measures as for the management of dewatering impacts within the River Cam CWS</p> <p>● Use of cofferdam to create dry working area within the River Cam</p> <p>● <u>As for BY-04</u></p>	Construction	<p>Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the outfall as secured through applicable Environmental Permit (Flood Risk Activities).</p> <p>ES Chapter 2 (Project Description), para 2.12.9 (App Doc Ref 5.2.2)</p> <p>Sections 4.4 (CEMP) Para 4.4.4, 7.4 (Land quality), and 7.5 (Water resource and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.1 (Treated effluent and storm</p>	<p><u>Environmental Permit (Flood Risk Activities)</u></p> <p><u>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u></p> <p><u>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</u></p>	<p><u>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities).</u></p> <p><u>Approved CEMP prior to the start of construction.</u></p> <p><u>Approved Outfall Management and Monitoring Plan prior to start of construction</u></p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)		
BY-06	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Proposed WWTP (including permanent access and land required for landscape masterplan)</u>	Construction within the land required for the proposed WWTP and landscape masterplan results in temporary impacts to the non-statutory designated site: Low Fen Drove Way Grassland and Hedges CWS due to a combination of noise, emissions to air, use of temporary lighting, land clearance and presence of people.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to ecological features, surface water, and impacts from the generation of noise. The best practice measures applied during construction in relation to these aspects are <u>within</u> ÷</p> <p>CoCP Part A, Section 7.2, Ecology and nature conservation, and Part B, section 3.3 <u>which</u></p> <ul style="list-style-type: none"> <u>require the</u> prohibition of vegetation removal from the CWS <u>requires the</u> routing of works access through existing pathways that cross the CWS <u>requires</u> the provision of a buffer of a minimum of 10m between works areas and extent of CWS. <p>CoCP Part A, Section 7.5, Water resources and flood risk which includes a number of measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to:</p> <ul style="list-style-type: none"> <u>minimising</u> the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidents; and <u>management</u> of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit – whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour <p><u>CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental</u></p>	Construction	<p>Sections 4.4 (CEMP), 7.4 (Land quality <u>quality</u>) and 7.5 (Water resources and flood risk) 7.7 (Noise and vibration) 7.9, 7.11, 7.12 CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>AQMP, and WQMP, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>QMMP, (secured through Section 3 of the CoCP Part B) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Section 3.3. CoCP Part B (App Doc Ref 5.4.4.2)</p>	<p><u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u></p> <p>outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p> <p>Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water'</p> <p>Environmental Permit (Flood Risk Activities)</p>	<p>Approved CEMP required prior to the commencement of construction of the proposed WWTP and landscape planting</p> <p>Approved and implementation of a Outfall Management and Monitoring Plan prior to start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP.				
BY-07	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>Management of construction activities impacting air quality, ecology, and or resulting in increase in artificial lighting will be through further measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1):</p> <ul style="list-style-type: none"> ● the management of air quality as set out within Section 7.8 of the CoCP Part A, Air quality, sets out a framework for the control of air quality during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an Air Quality/Dust Management Plan (AQMP) appended to/as part of the CEMP. the following general measures will be put in place to minimise emissions and avoid nuisance: <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; low emission vehicles and plant will be used as far as possible; and movement of construction traffic around the working area will be minimised as far as possible ● the management of impacts to ecology as set out within Section 7.2 of the CoCP Part A, Ecology and Nature Conservation, sets out a framework for the controls to be implemented during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in the CEMP(s) and other relevant sub-plans appended to/as part of the CEMP(s). This covers general measures including pre-works checks and tool-box talks and measures in relation to each of the following: <ul style="list-style-type: none"> Nesting birds Bats 	Construction	<p>Sections 4.4 (CEMP), 7.4 (Land quality quality) and 7.5 (Water resources and flood risk) and 7.7 (Noise and vibration) 7.9 of the , 7.11, 7.12 CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>OMMP, (secured through Section 3 of the CoCP Part B) (App Doc Ref 5.4.4.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Approved/Approval and implementation of a of a detailed construction lighting design secured through a requirement of the draft DCO (App Doc Ref 2.1). equied prior to the commencement of construction</p> <p>Approved CEMP required prior to the commencement of construction of the proposed WWTP and landscape planting</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> - Badger - Otter - Reptiles - Riparian and aquatic habitat - Other protected species - Invasive species - Biosecurity - Tree/hedgerow removal 				
BY-08	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Proposed WWTP (including permanent access and land required for landscape masterplan)		The management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure and deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).	Construction	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) CoCP Part A Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved lighting design prior to the start of construction
BY-09	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Removal of habitats in relation to temporary and permanent use of the land (such as for laydown areas, open cut trenching, HDD drilling, construction compounds, proposed WWTP and associated access) resulting in habitat loss, fragmentation and severance of wildlife corridors	<p>Habitats removed to be replaced by planting of habitats of higher ecological value in line with landscape masterplan within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14).</p> <p>Management of construction activities will be through measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to terrestrial habitats are:</p> <ul style="list-style-type: none"> ● the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible ● the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats. ● The implementation of tree/hedgerow protection measures which are shown on the Tree Protection Plans within the Arboricultural Report (Appendix 17 App Doc Ref 5.4.8.17). ● the implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the 	Construction	Section 4.4 (CEMP), 7.2 (Ecology and Nature Conservation), CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). WQMP, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1) Soil Management Plan (App Doc Ref 5.4.6.3) Section 3 of the CoCP Part B) (App Doc Ref 5.4.2.2)	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Approved CEMP and associated WQMP, SMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> ● the proposed WWTP and landscape planting ● the Waterbeach pipelines ● the transfer tunnel ● the treated effluent pipelines and outfall <p>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities).</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>Outline Soil Management Plan (Appendix 6.3 App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows</p> <ul style="list-style-type: none"> the requirement to reinstate hedgerows 				<p>Approved <u>Approved and implementation of a</u> Outfall Management and Monitoring Plan prior to commencement of works</p> <p>Approved <u>and implementation of a</u> SMP prior to commencement of works construction</p>
BY-10	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	<u>Proposed WWTP (including permanent access and land required for landscape masterplan)</u>		<p>Management of construction impacts to terrestrial habitats will be through further measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. in locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist. <p>Requirement within the CoCP Part B for the translocation of plants of botanical interest if and when identified by ECoW; and inclusion within the relevant CEMP safeguarding measures for trees and hedgerows.</p>	Construction	<p>Section 4.4 (CEMP), 7.2 (Ecology and Nature Conservation) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)</p> <p>Section 3 CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2) <u>secured through a requirement of the draft DCO (App Doc Ref 2.1)</u></p>	<p><u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u></p>	<p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines the transfer tunnel the treated effluent pipelines and outfall
BY-11	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Proposed WWTP (including permanent access and land required for landscape masterplan)</u>	Temporary and permanent removal of ditch habitat during construction due to the temporary open cut ditch crossings; and permanent loss due to the landscaping and structural proposals	<p>Management of construction activities will be through measures as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to ditch habitats are:</p> <ul style="list-style-type: none"> limiting any permanent crossing of ditches to a maximum width of 6m 	Construction	<p>Sections 4.4 (CEMP), 7.2 (Ecology and Nature Conservation) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) <u>secured through a requirement of the draft DCO (App Doc Ref 2.1)</u></p>	<p><u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by</u></p>	<p>Approved CEMP and associated WQMP, SMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement	
				<ul style="list-style-type: none"> ● the implementation of measures set out under section 7.2 of the CoCP Part A in respect Riparian and Aquatic Habitats specifically: <ul style="list-style-type: none"> — leaving bank and any aquatic vegetation in place for as long as practicable — removing the channel bed material prior to the excavation of the trench, storing the material separately and replacing it once construction works are complete to promote rapid colonisation of the area by aquatic invertebrates and aquatic plants — maintaining the flow downstream of the crossing point — restoration of original bank profile on completion of the pipeline crossings — where possible completing works between August and October and or during low flow conditions to protect potential fish spawning or nursery sites 			<p>Approval and implementation of a CEMP-secured requirement of the draft DCO (App Doc Ref 2.1); WQMP, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1) Detailed Soil Management Plan, secured through a requirement of the draft DCO (App Doc Ref 2.1)</p>	<p>Requirement 8 (CoCP App Doc Ref 2.1)</p>	<ul style="list-style-type: none"> ● the Waterbeach pipelines <p>Approved and implementation of a SMP prior to commencement of works construction</p>
BY-12	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Design measures to avoid or minimise loss of habitat are retaining existing ditch with hedgerow within the land required for the landscape masterplan contained with the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	Construction	Figure 3.1 of the Landscape Masterplan and Section 4.2 (Objectives) of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved Landscape Masterplan prior to the start of construction	
BY-13	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing	Works no 32		Designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile	Construction	Approval of the detailed design, construction risk assessment and method statement	<p>Environmental Permit (Flood Risk Activities)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which</p>	Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the	

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary					<p>for the outfall as secured through applicable Environmental Permit (Flood Risk Activities). OMMP, (secured through</p> <p>Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2)</p> <p>Section 3 (Site specific measures) CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2)</p>	<p>requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Environmental Permit (Flood Risk Activities).</p> <p>Approval and implementation of a Outfall Management and Monitoring Plan</p>
BY-14	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 39 Works No 39		Creation of up to 365m of new ditch habitat as described in Appendix C of the BNG Report (App Doc Ref 5.4.8.13)	Construction	<p>Approval of the detailed design, construction risk assessment and method statement for the created habitat as secured through the Natural England Licence OMMP, (secured through Section 3 of the CoCP Part B) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>BNG Report (Appendix C, App Doc Ref 5.4.8.13)</p>	<p>Natural England Mitigation Licence</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Approved ditch design and construction method and monitoring statement</p> <p>Approval and implementation of a Outfall Management and Monitoring Plan</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-15	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Project wide</u>		<p>Management of impacts to ditch habitats will also be managed through further measures as described within the CoCP Part A (App Doc Ref 5.4.2.1) and Part B (App Doc Ref 5.4.2.1):</p> <ul style="list-style-type: none"> • requirement within the CoCP Part B to prepare an outfall management and monitoring plan including control measures and monitoring requirements in relation to the outfall construction • requirement within the CoCP Part B for the translocation of reedbed and any species of botanical interest affected by the works to construct the outfall and the river bank protection. Any relocation activities to be included in outfall management and monitoring plan. • requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction • requirements within CoCP Part B Section 3.1 in relation to the ditch parallel to the river Cam to re-established banks by planting native locally sourced vegetation • requirements within CoCP Part B Section 3.3 in relation to the ditch with hedgerow running to the eastern side of the proposed WWTP: <ul style="list-style-type: none"> – crossings to be minimised to 2 crossings each up to 6m width. – the final crossing locations will target existing gaps in the hedge. – the crossing of the ditch (incorporating a temporary culvert not exceeding an 8m length of the ditch) will be in accordance with a permit from the Swaffham Internal Drainage Board • Design of outfall (orientation and sizing) to minimise land required; • Minimising extent of river bank protection works; • Inclusion of embedded 'Green' engineering features within river bank protection works. 	Construction	<p>Section 7.2 (Ecology and Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval of the detailed design, construction risk assessment and method statement for the created habitat as secured through the IDB permit</p> <p>Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) and 3.3 (Proposed WWTP) of the CoCP Part B (App Doc Ref 5.4.2.2)</p>	<p><u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</u></p> <p><u>Land Drainage Consent from IDB (where relevant)</u></p>	<p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> • the proposed WWTP and landscape planting • the Waterbeach pipelines <p>Preparation of a method statement to cover works to IDB waterbodies to accord with the requirements of IDB Permit</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-16	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Works no 32</u>	Loss of river habitats due to the construction of the outfall and associated river bank protection works (river bank and river bed)	<ul style="list-style-type: none"> ● Design of outfall (orientation and sizing) to minimise land required; ● Minimising extent of river bank protection works; ● Inclusion of embedded 'Green' engineering features within river bank protection works. <p>Design measures to avoid or minimise loss of river habitat within the River Cam are:</p> <ul style="list-style-type: none"> ● designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile ● design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river; ● minimising extent of river bank protection works; and ● design that includes embedded 'Green' engineering features within river bank protection works that seeks to maintain hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation. 	Construction	<p>Section 7.2, CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>ES Chapter 2 (Project Description), Section 2.12 (The Outfall) (App Doc Ref 5.2.2)</p> <p>4.13 Design Plans - Outfall</p>	<p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)</p> <p>Environmental Permit (Flood Risk Activities)</p>	<p>Approved design with permit in place prior to start of construction</p> <p>Approved outfall management plan required prior to the commencement of construction activities affecting the River Cam incorporating any conditions within</p> <ul style="list-style-type: none"> ● Environmental Permit (Flood Risk Activities) ● Environmental Permit (Discharge to surface water)
BY-17	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Works no 32</u>		<p><u>Implementation of final design for outfall and river protection works to include measures required by the Environment Agency secured by the Environmental Permit (flood risk activities).</u></p>	Construction	<p>Section 3 (Site specific measures) of the CoCP Part B (App Doc Ref 5.4.4.2)</p> <p>Outline Outfall Management & Monitoring Plan (App Doc Ref 5.4.8.14)</p>	<p><u>Environmental Permit (Flood Risk Activities) Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river.</u></p> <p><u>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</u></p>	<p>Approved outfall management plan required prior to the commencement of construction activities affecting the River Cam incorporating any conditions within</p> <ul style="list-style-type: none"> ● Environmental Permit (Flood Risk Activities) ● Environmental Permit (Discharge to surface water)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-18BY-17 BY-17	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works no 32 Works no 32	Direct and indirect impacts on water vole due to construction of the outfall and chamber, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam	Implementation of final design for outfall and river protection works to include measures required by the Environment Agency secured by the Environmental Permit (flood risk activities).	Construction	Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22) ES Chapter 2 (Project Description), Section 2.12 (The Outfall) (App Doc Ref 5.2.2) 4.13 Design Plans - Outfall Sections 4.4 (CEMP), & 7.2, CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). WQMP, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1)	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Environmental Permit (Flood Risk Activities)	Approval and implementation of a OMMP incorporating requirements within Conservation Licence (Water Vole) and Environmental Permit (flood risk activities) Approved CEMP and associated sub-plans required prior to the commencement of construction of <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines outfall
BY-19BY-18 BY-18	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39 Works No 32 & 39		Direct impacts to water vole minimised by the following design measures: <ul style="list-style-type: none"> inclusion of embedded 'green' engineering features within river bank protection works that seeks to maintain hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation; and minimising loss of habitat through design of ditch crossing so that ditch profile can 	Construction	Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22) ES Chapter 2 (Project Description), Section 2.12 (The Outfall) (App Doc Ref 5.2.2)	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Mitigation Licence	Licence in place prior to start of works Prior to start of construction (Compensaoy Compensa tory habitat to be complete completed 12 month prior to start of construction)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				be reinstated once outfall construction has been completed.		4.13 Design Plans - Outfall		Approval and implementation of a OMMP incorporating requirements within Conservation Licence (Water Vole) and Environmental Permit (flood risk activities) Approved CEMP and associated sub-plans required prior to the commencement of construction of <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines outfall
BY-20BY-19 BY-19	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Works No 32 & 39</u>	Direct and indirect impacts on otter due to the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the River Cam	<p>As for water vole (BY-18 – BY-19); plus Management of construction activities as described within the CoCP Part A (App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> adopt sensitive construction methodologies to include securing of areas to prevent access by otter; and complete pre works checks for protected species by a suitably qualified ecologist; implement measures in relation to the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. 	Construction	<p>Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Water Quality Management Plan, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Approval and implementation of a OMMP incorporating requirements within Conservation Licence (Water Vole) and Environmental Permit (flood risk activities)</p> <p>Approved phasing plan</p> <p>Approved CEMP and associated sub-plans required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting outfall

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-21 20	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39				draft DCO (App Doc Ref 2.1)		
BY-22	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	<u>Works No 32 & 39</u>	Direct and indirect impacts on bats (roosts) due to the combination of noise, use of temporary lighting, land clearance and presence of people in close proximity to known utilised habitats	<p>Management of lighting through the Lighting Design Strategy (App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill (thereby providing a night time safe transit route for otter).</p> <p>Direct and indirect impacts related to works to affecting bat roosts will be through application of the mitigation measures in line with agreed Natural England licence conditions (Draft Licence included App Doc Ref 5.4.8.20) which requires the following:</p> <ul style="list-style-type: none"> provision of a tool-box talk by the licenced bat ecologist; completion of pre-works checks for works areas prior to the start of the works timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); 	Construction	<p>Section 7.2, CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Section 5.9 (Lighting) CoCP Part A (App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (App Doc Ref 5.4.2.5)</p> <p>Section 7 Secondary Mitigation, Lighting Impact Assessment (App Doc Ref 5.4.15.3)</p>	DCO Schedule 2 Requirement 9 (CEMP) which requires the <u>preparation</u> of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved construction lighting design prior to start of construction <u>construction</u>
					Construction	<p>Draft Natural England Mitigation Licence (Appendix 8.20, App Doc Ref 5.4.8.20)</p> <p>Sections 4.4 (CEMP) & 7.2 (Ecology & Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p>	<p><u>Conservation of Habitats and Species Regulations 2017 (as amended)</u></p> <p><u>Wildlife and Countryside Act 1981 (as amended)</u></p> <p><u>Natural England Mitigation Licence</u></p> <p><u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase.</u></p>	<p>Licence in place prior to start of works</p> <p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> installation of suitable bat boxes for use by crevice dwelling species on appropriate retained trees prior to disturbing works commencing, to facilitate continued opportunities for bats to roost. use of wildlife sensitive lighting design as outlined in the Natural England licence; and minimising severance of hedgerows and reinstatement of hedgerows to provide commuting habitat and foraging opportunities. 		Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).	Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	<ul style="list-style-type: none"> the transfer tunnel the treated effluent pipelines and outfall
BY-23	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Works No 32 & 39		<p>Management of construction impacts to terrestrial habitats that may affect bat population will be through further measures as described within the CoCP Part A (App Doc Ref 5.4.2.1). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> Any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. In locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist. 	Construction	Sections 4.4 (CEMP) & 7.2 (Ecology & Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP required prior to the commencement of construction of <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines the transfer tunnel the treated effluent pipelines and outfall
BY-24	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Works No 32 & 39	Direct and indirect impacts on bats (lighting and habitat related) due to the combination of temporary construction noise, use of temporary lighting, land clearance and presence of people in close proximity	<p>Direct and indirect impacts related to works to affecting bat habitat will be through application of the mitigation measures in line with agreed Natural England licence conditions (Draft Licence included App Doc Ref 5.4.8.20) which requires the following:</p> <ul style="list-style-type: none"> the use of wildlife sensitive lighting design as outlined in the draft Licence (App Doc Ref 5.4.8.20 such as <2700K, directional only with no upward orientation or light spill); and 	Construction	Draft Natural England Mitigation Licence (Appendix 8.20, App Doc Ref 5.4.8.20) Sections 4.4. (CEMP) & 7.2 (Ecology & Nature Conservation), CoCP Part A (App Doc Ref	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Natural England Mitigation Licence DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the	Licence in place prior to start of works Approved CEMP required prior to the commencement of construction of <ul style="list-style-type: none"> the proposed WWTP and

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> minimising severance of hedgerows and use of translocation of hedgerows to provide commuting habitat and foraging opportunities 		<p>5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p>	<ul style="list-style-type: none"> landscape planting the Waterbeach pipelines the transfer tunnel the treated effluent pipelines and outfall
BY-25	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary			<p>Management of construction impacts to terrestrial habitats that may affect bat population will be through further measures as described within the CoCP Part A (App Doc Ref 5.4.2.1 & 2). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> Any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. In locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist 	Construction	<p>Sections 4.4 (CEMP) & 7.2 (Ecology & Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Section 3.3 (Waterbeach pipeline) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p>	<p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting the transfer tunnel the treated effluent pipelines and outfall
BY-26	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Landscape masterplan extent		<p>Enhancement roost feature installation by mounting woodcrete type bat boxes suitable for a range of bat species to use, upon appropriate trees within the landscape masterplan; early planting of larger specimen trees and hedgerow plants within the landscape masterplan to provide vegetative features for commuting linkages and foraging resources as soon as possible; and thickening of hedgerows along the boundaries of the landscape masterplan area as appropriate, with native species plantings to enhance commuting linkages for bats to use.</p>	Construction	<p>Section 3.4 (Biodiversity) of the the Landscape, Ecological and Recreational Management Plan (LERMP) (App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)</p>	<p>Approval and implementation of a detailed management and monitoring plan in line with Table 5.1 in the LERMP</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						Approval and implementation of a detailed management and monitoring plan secured through a requirement of the draft DCO (App Doc Ref 2.1).		
BY-27	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).	Construction	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) Section 7 (Secondary Mitigation) of the Lighting Impact Report (App Doc Ref 5.4.15.3)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved construction lighting design prior to start of construction
BY-28	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan	Direct and indirect impacts on badgers due to direct interface with habitat (including closure of outlier sett) and the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in close proximity to setts	Direct and indirect impacts related to works to affecting badger will be through application of the mitigation measures in line with agreed Natural England licence conditions will be carried out (Draft Licence included App Doc Ref 5.4.8.21) which requires the following: <ul style="list-style-type: none"> provision of a tool-box talk by the suitably experienced ecologist; completion of pre-works checks; checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals securing of areas to prevent access by badger 	Construction	Appendix 8.21 Confidential Badger Ghost Licence Method Statement (App Doc Ref 5.4.8.21) Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation) within the CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Natural England Mitigation Licence DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction of <ul style="list-style-type: none"> the proposed WWTP and landscape planting the transfer tunnel the treated effluent pipelines and outfall

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-29	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		In addition to licence requirement the management of construction activities as described within the CoCP Part A(App Doc Ref 5.4.2.1) in section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts including to ecological features. The CEMP will include requirements to apply best practice measures (including to locations not covered by the licence) during construction to prevent impacts to badger including: <ul style="list-style-type: none"> • completion of pre-works checks (including areas not covered by licence); • checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals • securing of areas to prevent access by badger 	Construction	<p>Sections 4.4 (CEMP), 5.9 (Lighting), and 7.2 (Ecology and Nature Conservation) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.3 (Waterbeach pipeline) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p> <p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	Approved CEMP required prior to the commencement of construction of <ul style="list-style-type: none"> • the proposed WWTP and landscape planting • the transfer tunnel • the treated effluent pipelines and outfall
BY-30	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)] and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).	Construction	<p>Sections 4.4 (CEMP), 5.9, (Lighting), and 7.2 (Ecology and Nature Conservation) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p> <p>Section 7 (Secondary Mitigation), Lighting Impact Report (App Doc Ref 5.4.15.3)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p> <p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	Approved CEMP required prior to the commencement of construction of <ul style="list-style-type: none"> • the proposed WWTP and landscape planting • the transfer tunnel • the treated effluent pipelines and outfall

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-31	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan	Direct and indirect impacts on terrestrial invertebrates due to direct interface with habitat and the combination of noise, use of temporary lighting, land clearance, excavation, and presence of people in proximity	Design measures to minimise loss of terrestrial habitat that may support invertebrate populations includes retaining the existing ditch with hedgerow within the land required for the landscape masterplan contained with the LERMP (App Doc Ref 5.4.8.14). The landscape masterplan includes a topographical and habitat variability to support some invertebrate species (e.g. mining bees) within “bee bank” bare earth patches. Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP.	Construction	Sections 4.4 (CEMP) Para 4.4.4., and 7.2, (Ecology and Nature Conservation) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Figure 3.1 and section 3.4 (Biodiversity) within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved Landscape Masterplan prior to the start of construction
BY-32	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		Same further measures as related to the impact of removal of habitats as a result of the temporary and permanent use of the land (BY-10), plus the requirement to implement the LERMP in operation for a period of up to 30 years to ensure effective delivery of BNG through the landscape masterplan.	Construction	Figure 3.1 and section 3.4 (Biodiversity) within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with Table 5.1 of the LERMP prior etto the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-33	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		<p><u>Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to terrestrial habitats are:</u></p> <ul style="list-style-type: none"> <u>the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible</u> <u>the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats.</u> <u>the implementation of tree/hedgerow protection measures which are shown on the Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17).</u> <u>the implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows</u> <p><u>Further measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2.2). These will be set out in the CEMP related to the specific works activity:</u></p> <ul style="list-style-type: none"> <u>any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority.</u> <u>in locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow</u> 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p> <p>Section 7 (Secondary Mitigation), Lighting Impact Report (App Doc Ref 5.4.15.3)</p> <p>Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3)</p> <p>Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17).</p>	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)</p> <p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	Approved CEMP required prior to the commencement of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<u>would be under the supervision of a suitably experienced ecologist.</u>				
BY-34	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39	Direct and indirect impacts on fish due to the combination of noise, the use of temporary lighting and works directly within and adjacent to the river and the potential short-term change in water quality from dewatering, run-off and from testing and commissioning activities	<p>Direct impacts minimised by the following design measures:</p> <ul style="list-style-type: none"> ● <u>design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river and along the banks</u> ● <u>inclusion of embedded 'green' engineering features within river bank protection works that seeks to maintain hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation;</u> ● <u>minimising loss of habitat through design of ditch crossing so that ditch profile can be reinstated once outfall construction has been completed.</u> 	Construction	<p>ES Chapter 2 Project Description, Section 2.12 The Outfall (App Doc Ref 5.2.2)</p> <p>Design Plans – Outfall (App Doc Ref 4.13)</p>	<p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p> <p>Conditions set out within a Environmental Permit that may be required in relation to outfall design and construction.</p>	<p>Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the outfall as secured through applicable Environmental Permit (flood risk activities).</p> <ul style="list-style-type: none"> ● Approval and implementation of a OMMP incorporating requirements within and Environmental Permit (flood risk activities) including fish rescue and dewatering controls associated with Environmental Permit (Discharge to surface water) secured through a requirement of the draft DCO (App Doc Ref 2.1).
BY-35	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39		<p>Management of construction activities will be through measures as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to ecological features, surface water, and impacts from the generation of noise. The best practice measures applied during construction in relation to fish are:</p> <ul style="list-style-type: none"> ● <u>CoCP Part A, Section 7.2, Ecology and nature conservation, in respect Riparian and Aquatic Habitats specifically:</u> <ul style="list-style-type: none"> — <u>leaving bank and any aquatic vegetation in place for as long as practicable</u> — <u>removing the channel bed material prior to the excavation of the trench, storing the material separately and replacing it once construction works are</u> 	Construction	<p>Sections 4.4, CEMP, 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation, and 7.5 Water Resources and Flood Risk, Dewatering CoCP Part A, (App Doc Ref 5.4.2.1)</p> <p>Section 7.2, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	<p>Approved CEMP including WQMP and NVMP required prior to the commencement of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>complete to promote rapid colonisation of the area by aquatic invertebrates and aquatic plants</p> <ul style="list-style-type: none"> - maintaining the flow downstream of the crossing point <p>-where possible completing works between August and October and/or during low flow conditions to protect potential fish spawning or nursery sites</p> <ul style="list-style-type: none"> • CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to: <ul style="list-style-type: none"> - the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. - manage dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit – whichever applies to the activity Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour • CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP. 		<p>CEMP-secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>CoCP Part A sections 4.4 Construction Environment Management Plan, Section 7.5 Water resources and flood risk (dewatering) and (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Approval and implementation of a WQMP and NVMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>		

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-36	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39		CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).	Construction	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 7 (Secondary Mitigation) Lighting Impact Report (App Doc Ref 5.4.15.3) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved CEMP required prior to the commencement of construction
BY-37	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39		Management of commissioning activities through application of management plans, Section 8 (Appendix 2.5, App Doc Ref 5.4.2.5), and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors to prepare a Commissioning Plan	Construction	Sections 4.4 (CEMP) Para 4.4.4., and 7.2. (Ecology and Nature Conservation), and 7.5, (Water resources and flood risk) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline commissioning plan (App Doc Ref 5.4.2.4)	Approved CEMP required prior to the commencement of construction including commissioning management plan
BY-38	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan	Direct and indirect impacts on ditch macrophytes due to open cut works to cross ditches and the potential short-term change in water quality from dewatering, and run-off from nearby construction works	Direct impacts minimised by the following design measures: ● —● minimising loss of habitat through design of ditch crossing so that ditch profile can be reinstated once outfall construction has been completed.	Construction	Design Plans – Outfall (App Doc Ref 4.13). CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are	Approved CEMP and associated sub-plans Approved outfall management and monitoring plan required prior to the commencement of construction activities

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> Design to incorporate bank and bed protection will be provided as part of the design. This will be in the form of rip rap bed protection and steel sheet piling to protect the banks as shown in the Design Plans – Outfall (App Doc Ref 4.13). <p>CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of best practice measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to:</p> <ul style="list-style-type: none"> the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. manage dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit – whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour 		<p>draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Sections 4.4 CEMP, 5.7, Pollution Incident Control Plan Section. 7.2, Ecology and Nature Conservation, and 7.5 Water resources and flood risk (dewatering) off the of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p>	<p>affecting the River Cam incorporating requirements within</p> <ul style="list-style-type: none"> Environmental Permit (flood risk activities) Environmental Permit (Discharge to surface water)
BY-39	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		<p>Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s) and Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These will incorporate measures in the CoCP:</p> <ul style="list-style-type: none"> Section 7.5. (Water Resources and Flood Risk) which requires a series of general measures to be put in place to avoid and minimise impacts to surface water including but not limited to: <ul style="list-style-type: none"> best practice measures applied for management of leaks and spillages to 	Construction	Sections 4.4 (CEMP) Para 4.4.4., 5.13 (River works), 7.2, (Ecology and Nature Conservation), and 7.5, (Water resources and flood risk) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP required prior to the commencement of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>prevent runoff reaching controlled waters</p> <ul style="list-style-type: none"> - limiting works to within 8 m of any watercourse or waterbody - identification of watercourses and land drains before construction works in that area commence and regularly checked for signs of silt. - checking of excavation plant prior to use at open cut watercourse crossings to ensure it is in a sound condition and free of potentially contaminating materials; - where possible, concrete lorries will return to their supplier or batching plant for wash out. Concrete wash out skips if required on site will be lined and located at least than 50 metres from a borehole or 10 metres from a watercourse or surface water drain. They will be placed on -hardstanding or on the ground with plastic and membrane containment and clearly marked to avoid cross contamination. Any wash out areas within the working areas will be inspected weekly by the Site Manager to ensure there are no leaks or overflows. The pH of the wash out water will also be monitored; - where needed the use of suitable concrete mixes in watercourses; - surface water drainage around any batching plants will be controlled. - where required adequate dewatering will be undertaken during excavation activities or construction of subsurface features and foundations (see the section on Dewatering below). Construction techniques may also be reviewed to determine whether an alternative approach is more appropriate. Following completion of in channel works, the channel will be cleared of debris/materials, the natural bed reinstated. - m-Management of silt during construction including meeting requirements of regulatory position statement (RPS) 				

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>— completion of works affecting watercourses and flood defences in accordance with the requirements of the relevant regulatory authority (Lead Local Flood Authority/Environment Agency/Internal Drainage Board).</p> <p>— requirement for all necessary consents and licences will be applied for and obtained from the relevant regulatory authority prior to the relevant works commencing on site.</p>				
BY-40	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32	Direct and indirect impacts on macroinvertebrates due to works directly within the river and the potential short-term change in water quality from dewatering, run-off and from testing and commissioning activities	As for fish (BY for the further measures to manage impacts to fish-35) The OMMP will include specific measures on translocation and management of macrophyte species in the vicinity of the outfall.	Construction	As for 'direct and indirect impacts to fish'	As for 'direct and indirect impacts to fish'	As for 'direct and indirect impacts to fish'
BY-41	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan	Direct and indirect impacts on reptiles	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> complete pre works checks by suitably experienced ecologist complete clearance activities in accordance with approved methods to translocate reptiles potentially affected by the works to reinstatement of land temporarily used for construction 	Construction	Sections 4.4, CEMP and 7.2, Ecology and Natures Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	<p>Approved phasing plan</p> <p>Approved CEMP and associated sub-plans required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting the transfer tunnel the treated effluent pipelines and outfall <p>Approval and implementation of a Reptile Management Strategy</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-42	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		<p>Management of construction activities as described within the CoCP Part A (AppendixAppendix 2.1 App Doc Ref 5.4.2.1) in particular section 7.2 (Ecology and Nature Conservation) which requires the Principal Contractor(s) to produce a Reptile Mitigation Strategy before works commence on site. It is proposed that the impact upon reptiles be mitigated through a combination of:</p> <ul style="list-style-type: none"> the use of reptile fencing (around the proposed WWTP), the practice of sensitive vegetation clearance and management including hard searches as appropriate local translocation. the provision of reptile specific 'tool-box talk' to site staff prior to any work being carried out. the use of staged cuts in a directional manner, as guided by the ECoW or other suitably experienced ecologist identified by the ECoW 	Construction	<p>Sections 4.4, CEMP and 7.2, Ecology and Natures Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1 secured through a requirement of the draft DCO (App Doc Ref 2.1))</p> <p>Section 3 (Site specific measures) CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Reptile Management Strategy secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP required prior to the commencement of construction
BY-43	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		Design measures to include a mosaic of suitable habitats (bare areas, grassland, scrub, seasonal ponds) along with reptile hibernacula within the land required for the landscape masterplan contained with the LERMP (App Doc Ref 5.4.8.14) to provide suitable habitat for reptiles	Construction	<p>Figure 3.1, Section 3.4 (Biodiversity), and Table 5-1 within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a detailed management</p>	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	<p>Approval of a detailed landscape masterplan prior to start of construction</p> <p>Implementation of approved detailed management and monitoring plan in line with Table 5.1 of the LERMP at operation</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						and monitoring plan secured to comply with LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)		
BY-44	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Final effluent and storm pipelines & outfall	Direct and indirect impacts on breeding birds (final effluent pipeline and transfer tunnel)	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP which will include setting out best practice measures for the prevention of impacts to birds including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> ● complete pre works check by suitably experienced ecologist; ● avoid the nesting bird season as appropriate to any species found; and ● complete clearance activities completed in accordance with approved methods 	Construction	Sections 4.4, CEMP, and 7.2, Ecology and Nature Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP required prior to the commencement of construction of: <ul style="list-style-type: none"> ● the transfer tunnel ● the treated effluent pipelines and outfall
BY-45	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Final effluent and storm pipelines & outfall	Final effluent and storm pipelines & outfall	Same further measures as related to the impact of removal of habitats as a result of the temporary and permanent use of the land, plus the requirement to implement the LERMP in operation for a period of up to 30 years to ensure effective delivery of BNG through the landscape masterplan.	Construction	<p>LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)</p> <p>DCO Schedule 2 Requirement 25 which required a biodiversity net gain report has been submitted to and approved by the relevant planning authority.</p>	Implementation of approved detailed management and monitoring plan in line with Table 5.1 of the LERMP
BY-46	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Final effluent and storm pipelines & outfall		<p>Best practice measures in section 7.2 to operate in compliance with the 1981 Act:</p> <ul style="list-style-type: none"> ● pre works check by suitably experienced ecologist; ● avoidance of nesting bird season as appropriate to species found; and 	Construction	Sections 4.4, CEMP and 7.2, Ecology and Nature Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the	Approved CEMP required prior to the commencement of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> <u>clearance activities completed in accordance with approved methods</u> 			<u>works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</u>	
BY-47	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan	Direct and indirect impacts on breeding birds (proposed WWTP access road and landscape masterplan area)	Design measures to include trees and woodland, scrub, grassland and seasonal ponds within the land required for the landscape masterplan contained within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) to provide suitable habitat for a variety of bird species. Grassland seed mixes will incorporate grass and forb species to support a range of birds, including turtle doves. A range of bird nest boxes will be installed on suitable retained trees.	Construction	<p>LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Implementation of approved detailed management and monitoring plan in line with Table 5.1 of the LERMP
BY-48	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to birds including best practice measures in section 7.2 applied during construction to:</p> <ul style="list-style-type: none"> <u>complete pre works check by suitably experienced ecologist;</u> <u>avoid the nesting bird season as appropriate to any species found; and</u> <u>complete clearance activities completed in accordance with approved methods</u> 	Construction	<p>Sections 4.4, CEMP and 7.2, Ecology and Nature Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)</p> <p>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Outline</p>	<u>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</u>	Approved CEMP required prior to the commencement of construction of the proposed WWTP and landscape planting

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-49	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce Birdstrike Hazard Management Plan before works commence on site. The plan will be appended to or incorporated into the CEMP(s). It will incorporate measures that <ul style="list-style-type: none"> • set out the required monitoring for changes to bird assemblages • measures to prevent increase risk of attracting species of birdstrike concern 	Construction	Wildlife Hazard Management Plan (App Doc Ref 5.4.8.18). Section 4.4 (CEMP) Para 4.4.4., 5.15 (Cambridge Airport), and 7.2 (Ecology and Nature Conservation) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed wildlife hazard management plan which must accord with the measures set out in the wildlife hazard management (App Doc Ref 5.4.8.18) plan relating to construction	Approved CEMP required prior to the commencement of construction of the proposed WWTP and landscape planting Approved birdstrike hazard management plan for construction
BY-50	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts on Stow-cum-Quy Fen SSSI during construction due to, run-off, water logging, contamination from leaks and spills and air emissions.	As for impacts to Stow-cum-Quy Fen SSSI related to the construction of the proposed WWTP plus the implementation of of measures to manage drilling fluid break out as defined within the CoCP Part A section 7 (Management of the environmental effects).	Construction	Sections 4.4, CEMP, 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation, and Section 7.5 Water resources and flood risk (dewatering) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP and associated sub plans required prior to the commencement of construction of the Waterbeach pipelines
BY-51	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including: <ul style="list-style-type: none"> • measures to minimise run-off and the risk of runoff reaching ditches and watercourses • management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. • measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits 	Construction	Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), 7.5 (Water resources and flood risk), 7.7 (Noise and vibration, 7.8 (Air quality) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP and associated sub plans required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained Application of measures to manage drilling fluid break out as defined within the CoCP Part A section 7.4. <p>The management of air quality as set out within Section 7.8 of the CoCP Part A, Air quality, sets out a framework for the control of air quality during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an Air Quality Management Plan (AQMP) appended to/as part of the CEMP. This includes the following general measures to be put in place to minimise emissions and avoid nuisance:</p> <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; the use of low emission vehicles and plant as far as possible; and the movement of construction traffic around the working area will be minimised as far as possible 				
BY-52	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts on water quality within the River Cam CWS during construction due to, run-off, water logging and contamination from leaks and spills.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include best practice measures requirements including:</p> <ul style="list-style-type: none"> minimising run-off and the risk of runoff reaching ditches and watercourses such as through the siting of launch and 	Construction	Sections 4.4, CEMP, 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation, and Section 7.5 Water resources and flood risk (dewatering) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the</p>	Approved phasing plan Approved CEMP and associated sub-plans required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>recovery pits associated with trenchless construction methods to be located a minimum of 8m from top of bank</p> <ul style="list-style-type: none"> management dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour. measures applied for management of leaks and spillages requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs which will be prepared) where spillage can be more easily contained 			CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	
BY-53	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Removal of habitats during the temporary use of land for the construction of the Waterbeach pipeline	As for the removal of terrestrial habitats associated with the construction of the proposed WWTP with the inclusion of a section of trenchless construction between Ch+475.0m to +972.0m (refer to App Doc Ref 4.14.11).	Construction	Sections 4.4, CEMP, 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation, and Section 7.5 Water resources and flood risk (dewatering) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines
BY-54	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Best practice measures to operate in compliance with the 1981 Act as appropriate:</p> <ul style="list-style-type: none"> pre works check by suitably experienced ecologist best practice vegetation clearance methods 	Construction	Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-55	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to terrestrial habitats are:</p> <ul style="list-style-type: none"> the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats. Minimising construction working width Reinstatement of areas temporarily disturbed during construction the implementation of tree/hedgerow protection measures which are shown on the Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17). the implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17).</p> <p>Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3)</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines
BY-56	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to water vole due to construction within and adjacent to ditches, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the River Cam	<p>Direct and indirect impacts related to works to ditches will be through water vole displacement measures in line with agreed Natural England licence conditions (Draft Licence included Appendix 8.22 App Doc Ref 5.4.8.22). These measures also include the:</p> <ul style="list-style-type: none"> provision of a tool-box talk by the licenced water vole ecologist completion of pre-works checks for works within 5m of watercourse / works crossing ditches prior to the start of the works application for licence amendments if deemed appropriate 	Construction	<p>Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22)</p> <p>Sections 4.4, CEMP and 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation of 7.5 Water resources and flood risk (dewatering) the CoCP Part A</p>	<p>Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Natural England Mitigation Licence</p> <p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified</p>	<p>Approved phasing plan</p> <p>Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline</p> <p>The CEMP will incorporate the requirements of the Conservation Licence (Water Vole).</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> • <u>habitat creation (ditches)</u> • <u>the inclusion of a section of trenchless construction between Ch+475.0m to +972.0m (refer to App Doc Ref 4.14.11)</u> • <u>Timing of works between 15 February and 15 April or as otherwise agreed by licence condition</u> • <u>Application for licence amendments if deemed appropriate and inclusion of additional measures within the application</u> • <u>Restricting temporary works to cross ditches to a 6m working width and habitat (ditch) reinstatement</u> 		(Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Sections 4.4 CEMP, (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). WQMP, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1) Detailed Soil Management Plan, secured through a requirement of the draft DCO (App Doc Ref 2.1)	<u>in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u>	
BY-57	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> • <u>minimise the risk of runoff reaching ditches and watercourses; and</u> • <u>manage dewatering to meet requirements of Environment Agency RPS including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour</u> 	Construction	Sections 4.4, CEMP and 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation of 7.5 Water resources and flood risk (dewatering) the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	<u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u> <u>Environment Agency RPS</u>	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-58	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of impacts to air quality through implementation of the CoCP Part A Section 7.8. (Air Quality) which includes the following general measures to be put in place to minimise emissions and avoid nuisance:</p> <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; low emission vehicles and plant will be used as far as possible; and movement of construction traffic around the working area will be minimised as far as possible 	Construction	<p>Air Quality Management Plan (secured through Section 4.4 (CEMP), and 7.6 (Air Quality) of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Construction lighting design to comply with the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) secured through a requirement in the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p>	<p>Approved phasing plan Approved AQMP required prior to the commencement of construction of the Waterbeach pipeline</p> <p>Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline Approved lighting design</p>
BY-59	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of lighting through the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).</p>	Construction	Section 7 (Secondary Mitigation), Lighting Impact Assessment (App Doc Ref 5.4.15.3)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved construction lighting design prior to start of construction
BY-60	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to otter due to construction within and adjacent to ditches, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam which could affect normal behaviour patterns resulting in diminished population	<p>As for water vole plus additional measures below. Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> adopt sensitive construction methodologies to include securingsecuring of areas to prevent access by otter; pre works check by a suitably qualified ecologist; 	Construction	Sections 4.4 (CEMP), 5.7, Pollution Incident Control Plan, 7.2, (Ecology and Nature Conservation), 7.5 Water resources and flood risk (dewatering) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)	<p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p> <p>Schedule 2 Requirement 14 (Construction lighting) (App Doc</p>	<p>Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline The CEMP will incorporate the requirements of the Conservation Licence (Water Vole)</p> <p>Approved WQMP required prior to the commencement of</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> best practice measures in relation to the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002; and Provision of continued availability of otter access to suitable foraging and commuting habitats. 		<p>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Sections 4.4 CEMP, Section 2.1 App Doc Ref 5.4.2.1 secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Construction lighting design to comply with the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) secured through a requirement in the draft DCO (App Doc Ref 2.1)</p>	<p>Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	<p>construction of the Waterbeach pipeline</p> <p>Approved lighting design</p>
BY-61	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Area of land for the Waterbeach pipeline</u>		<p><u>Direct and indirect impacts related to works to ditches will be through water vole displacement measures in line with agreed Natural England licence conditions (Draft Licence included Appendix 8.22 App Doc Ref 5.4.8.22). These measures also include the:</u></p> <ul style="list-style-type: none"> <u>provision of a tool-box talk by the licenced water vole ecologist</u> <u>completion of pre-works checks for works within 5m of watercourse / works crossing ditches prior to the start of the works</u> <u>application for licence amendments if deemed appropriate</u> <u>habitat creation (ditches)</u> 	Construction	Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22)	<p><u>Natural England Licence</u></p> <p><u>Conservation of Habitats and Species Regulations 2017 (as amended)</u></p> <p><u>Wildlife and Countryside Act 1981 (as amended)</u></p> <p>Natural England Licence</p> <p>Conservation of Habitats and Species Regulations 2017 (as amended)</p> <p>Wildlife and Countryside Act 1981 (as amended)</p>	Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline The CEMP will incorporate the requirements of the Conservation Licence (Water Vole)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> the inclusion of a section of trenchless construction between Ch+475.0m to +972.0m (refer to App Doc Ref 4.14.11)) Timing of works between 15 February and 15 April or as otherwise agreed by licence condition Application for licence amendments if deemed appropriate and inclusion of additional measures within the application Restricting temporary works to cross ditches to a 6m working width and habitat (ditch) reinstatement 				
BY-62	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of impacts to air quality through implementation of the CoCP Part A Section 7.8. (Air Quality) which includes the following general measures to be put in place to minimise emissions and avoid nuisance:</p> <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; low emission vehicles and plant will be used as far as possible; and movement of construction traffic around the working area will be minimised as far as possible 	Construction	Sections 4.4, CEMP, 7.2, Ecology and Nature Conservation and 7.8 (Air Quality) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline The CEMP will incorporate the requirements of the Conservation Licence (Water Vole)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-63	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		Management of lighting through the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill (thereby providing a night time safe transit route for otter).	Construction	Section 6 (Lighting Design Strategy During Construction), Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) Section 7 Secondary Mitigation, Lighting Impact Report (App Doc Ref 5.4.15.3) CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1) Section 6 (Lighting Design Strategy During Construction), Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) Section 7 Secondary Mitigation, Lighting Impact Report (App Doc Ref 5.4.15.3) CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5). Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved construction lighting design prior to start of construction
BY-64	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to bats due to the combination of temporary construction noise, use of temporary lighting, land clearance and presence of people in close proximity which could affect normal behaviour patterns resulting in reduced fitness and potential for population decline.	Direct and indirect impacts related to works to affecting bat habitat will be through application of the mitigation measures in line with agreed Natural England licence conditions (Appendix 8.20 Draft Licence included App Doc Ref 5.4.8.20) which requires the following: <ul style="list-style-type: none"> ● Provision of a tool-box talk by the licenced bat ecologist; ● provision of a tool-box talk by the licenced bat ecologist; ● completion of standard pre-works checks for works areas prior to the start of the works ● timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); and 	Construction	Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22) Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1) Section 7.2, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Natural England Mitigation Licence DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase.	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline The CEMP will incorporate the requirements of the Natural England bat licence.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> installation of suitable bat boxes for use by crevice dwelling species on appropriate retained trees prior to disturbing works commencing, to facilitate continued opportunities for bats to roost. timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); use of wildlife sensitive lighting design as outlined in the Natural England licence; and minimising severance of hedgerows and reinstatement of hedgerows to provide commuting habitat and foraging opportunities 		<p>draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Natural England Mitigation Licence</p> <p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	
BY-65	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to badger due to direct interface with habitat (including closure of outlier sett), temporary stopping up of setts and the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in proximity which could affect normal behaviour patterns resulting in diminished population	<p>Direct and indirect impacts related to works to affecting badger will be through application of the mitigation measures in line with agreed Natural England licence conditions will be carried out (Draft Licence included App Doc Ref 5.4.8.21) which requires the following:</p> <ul style="list-style-type: none"> Provision of a tool-box talk by the suitably experienced ecologist; Completion of pre-works checks; Checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals Securing of areas to prevent access by badger trenchless techniques applied to avoid damage to sett for a short section of the pipeline (+475.0m to +972.0m (refer to Figure 4.14.11) Avoidance of loss of setts by refining works areas extents Pre works checks to verify that the baseline is unchanged 	Construction	<p>Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22)</p> <p>Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Natural England Mitigation Licence</p> <p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Natural England Mitigation Licence</p>	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines The CEMP will incorporate the requirements of the Natural England badger licence.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> to prevent disturbance of a badger sett whilst occupied, a buffer zone of at least 30m will be adopted where possible between the construction working area and the known extent of the active sett. 			<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	
BY-66	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to reptiles due to the combination of land clearance and excavations which could result in direct killing or harm to individuals and the potential for population decline	As for impacts to reptiles associated with construction of the proposed WWTP	Construction	As for impacts to reptiles associated with construction of the proposed WWTP	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines
BY-67	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to breeding birds due to direct interface with habitat, clearance resulting in loss of roosts and foraging areas and the combination of noise, use of temporary lighting, land clearance, excavation, and presence of people in proximity	As for impacts to birds associated with construction of the proposed WWTP	Construction	<p>Sections 4.4, CEMP, 7.2, Ecology and Nature Conservation and 7.8 (Air Quality) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP secured through a requirement of the draft DCO (Appendix 2.1 App Doc Ref 2.1). AQMP, and (secured through Section 4.4 of the CoCP Part A)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting</p>	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						<p>secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Construction lighting design to comply with to comply with the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) secured through a requirement in the draft DCO (App Doc Ref 2.1)</p> <p>As for impacts to birds associated with construction of the proposed WWTP</p>	<p>must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	
BY-68	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of construction activities impacting air quality, ecology, and or resulting in increase in artificial lighting will be through further measures as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1):</p> <ul style="list-style-type: none"> the management of air quality as set out within Section 6.9 of the CoCP Part A, Air quality, sets out a framework for the control of air quality during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an Air Quality/Dust Management Plan (AQMP) appended to/as part of the CEMP. This includes the following general measures to be will put in place to minimise emissions and avoid nuisance: the management of impacts to ecology as set out within Section 7.2 of the CoCP Part A, Ecology and Nature Conservation, sets out a framework for the controls to be implemented during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in the CEMP and other relevant sub-plans 	Construction	Sections 4.4, CEMP, 5.9, Lighting, 7.2, Ecology and Nature Conservation and 7.8 (Air Quality Quality) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>appended to/as part of the CEMP. This covers general measures including pre works checks and tool-box talks and measures in relation to each of the following:</p> <ul style="list-style-type: none"> - Nesting birds - Bats - Badger - Otter - Reptiles 				
BY-69	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		The management of lighting through the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).		Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) Section 7 (Secondary Mitigation), Lighting Impact Assessment (App Doc Ref 5.4.15.3)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved construction lighting design prior to start of construction
BY-70	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Existing Cambridge WWTP	Removal of habitats - Milton Road Hedgerows City Wildlife Site (CiWS)	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> • complete pre works checks for protected species by suitably experienced ecologist; • avoid the nesting bird season as appropriate to any species found; and • complete clearance activities completed in accordance with approved methods. • complete pre works checks to avoid habitats such as the existing species-rich hedgerow • maintaining a buffer between the works and the CiWS 	Construction	<p>Sections 4.4 CEMP, and 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Construction lighting design to comply with to comply with the Lighting Design Strategy (App Doc Ref 5.4.2.5) secured through a requirement in the</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	Approved phasing plan Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP with potential to impact CiWS

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						draft DCO (App Doc Ref 2.1)		
BY-71	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Existing Cambridge WWTP	Temporary disturbance of badger sett and associated habitat due to the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in proximity	<p>Management of impacts to badger as a result of construction activities are through measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts including to ecological features. The CEMP will include requirements to apply best practice measures during construction to prevent impacts to badger including:</p> <ul style="list-style-type: none"> • <u>completion of pre-works checks across the Existing Cambridge WWTP (due to badgers being considered a mobile species);</u> • <u>checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals</u> • <u>securing of areas to prevent access by badger</u> 	Construction	<p>DCO (App Doc Ref 2.1) Draft Confidential Badger Ghost Natural England Mitigation Licence Method Statement (App Doc Ref 5.4.8.21)</p> <p>Sections 4.4 CEMP, and 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Construction lighting design to comply with to comply with the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) secured through a requirement in the draft</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	<p>Approved licence in place prior to the start of construction</p> <p>Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP</p>
BY-72	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Air quality impacts on Stow-cum-Quy Fen SSSI due to emissions to air from the operation of the energy plant	The energy plant will have suitable exhaust stack height and operate in accordance with the relevant MCPD emission limit values for energy plant which will be specified within a site-specific Environmental Permit.	Operation	The Environmental Permit will include medium combustion plant directive emission limits and conditions for monitoring and reporting. Schedule 2 (Design Parameters) of the draft DCO (App Doc Ref 2.1)	Integrated Environmental Permit	Operational management and final process management plans and procedures as approved by the Integrated Environmental Permit in place prior to the start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						Chapter 2 Project Description, Section 2.4 Sludge Treatment Centre, Steam rising boiler		
BY-73	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Visitor impact on Stow-cum-Quy Fen SSSI due to the potential for an increase in visitors to the area	Management of visitor behaviours through design the landscape masterplan within the LERMP (App Doc Ref 5.4.8.14) to include: <ul style="list-style-type: none"> the provision of pedestrian and leisure cycling pathways within the landscape masterplan to formalise existing access within a location away from the SSSI exclusion of additional parking provision for users of Low Fen Drove Way or users accessing the landscape masterplan area to discourage additional visits to the local area by car users 	Operation	Table 5.1 within the LERMP secured through a requirement of the draft DCO (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP and final planting and management plans and procedures prior to start of construction
BY-74	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Long-term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to users this includes the requirement to complete user survey at least twice a year to understand how people are interacting with the recreational space and accessing the wider network of PRoW and permissive paths.	Operation	Table 5.1 within the LERMP secured through a requirement of the draft DCO (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan including details of user monitoring of the landscpae masterplan area and bridleway prior to start of operation
BY-75	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	CWS as a result of scour of the river bank from operation of the outfall	Direct and indirect impacts related to operation of the outfall will be minimised through the inclusion of scour protection within the design of the outfall.	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) Environmental Permit (Flood Risk Activities)	Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)
BY-76	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		In addition to design measures the Applicant will be required to implement controls to emissions through operational phase requirements in compliance with the relevant Environmental Permits (flood risk activities and water discharge) for the outfall.	Operation	Outline Outfall Management and Monitoring Plan secured through a requirement of the draft DCO (App Doc Ref 5.4.8.24). The Environmental Permit will include conditions requiring	Environmental Permit (Flood Risk Activities) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply	Approval and implementation of a OMMP Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						management systems to cover emergency responses and pollution prevention.	<u>with OMMP (Application Document Reference 5.4.8.24)</u>	Environmental Permit (Flood Risk Activities).
BY-77	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Direct and indirect water quality impacts to River Cam CWS through normal operation of the outfall	The management of effluent quality through: <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes 	Operation	Environmental Permit Environmental Management System ES Chapter 2 Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13)	Integrated Environmental Permit	Detailed design of proposed WWTP, as approved by the Environmental Permit prior to construction construction . Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)
BY-78	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		In addition to design measures emissions to the River Cam will be controlled through operational procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention. Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Approval and implementation of a EMS secured through the Environmental Permit
BY-79	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Operation of the outfall during short term infrequent storm flows direct impacts the River Cam as a result of scour of the bank and reduce water quality and indirect impacts to River Cam CWS as a result of scour releasing further particles into the water column	The management of effluent quality and storm spill impacts through: <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes 	Operation	ES Chapter 8 (Biodiversity), Table 2.10 (App Doc Ref 5.2.28) Approval and implementation of a OMMP secured through a requirement of the draft DCO (App Doc Ref 2.1). App Doc Ref 4.13 Design Plans - Outfall	Integrated Environmental Permit	Detailed design of proposed WWTP, as approved by the Environmental Permit prior to construction Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> design of storm storage volumes and flow rates to meet regulatory requirements; inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 				Approval and implementation of a OMMP
BY-80	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Light spill into retained habitats from operation of lighting within the proposed WWTP impacts Low Fen Drove Way Grasslands and Hedgerows CWS which will not benefit from the screening effect of established vegetation until year 15 of operation	Design measures to prevent or minimise artificial light impacts are: <ul style="list-style-type: none"> wildlife sensitive lighting design incorporated into detailed design exclusion of lighting provision on the access road the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP habitat creation within the landscape masterplan that serves a screening function once mature 	Operation	Section 5 Lighting Design Strategy During Operation and Maintenance, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) Section 7 Secondary Mitigation, Lighting Impact Assessment (App Doc Ref 5.4.15.3) Figure 3.1, 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5). Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14).	<p>Approved construction lighting design prior to start of construction</p> <p>Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of construction</p>
BY-81	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Detailed lighting design will comply with the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5). This includes the requirement for lighting to accord with The Institute of Lighting Professionals Advice Note- Guidance Note 1 for the Reduction of Obtrusive Light (GN01/21) (2021) or any later revisions of this document published by the Institute and Guidance Note 08/18 - Bats and Artificial Lighting.	Operation	Sections 4 Lighting Design Principles & Section 5 Lighting Design Strategy During Operation and Maintenance, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) secured through a requirement in the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14).	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing	Proposed WWTP (including permanent access and land required	Light spill into retained habitats from operation of lighting within the proposed WWTP such as Low Fen Drove Way Grasslands and	Design measures to prevent or minimise artificial light are: <ul style="list-style-type: none"> wildlife sensitive lighting design incorporated into detailed design 	Operation	Detailed lighting design to comply with the Lighting Design Strategy (Appendix	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord	<p>Approved lighting design</p> <p>Approved detailed management and monitoring plan in line</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary	for landscape masterplan)	Hedgerows CWS—once vegetation established	<ul style="list-style-type: none"> exclusion of lighting provision on the access road the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP habitat creation within the landscape masterplan that serves a screening function once mature 		2.5 App Doc Ref 5.4.2.5) secured through a requirement in the draft DCO (App Doc Ref 2.1) LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)	with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5). Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	with requirements of the LERMP Table 5.1
BY-82	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>Direct benefit to be realised through the habitat provisions and within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14):</p> <ul style="list-style-type: none"> inclusion of a new mosaic of habitats within in the landscape masterplan intended to link to existing habitat features of value (such as existing hedgerows and habitats as part of the CWS); implementation of appropriate management measures to meet the BNG commitment which will enable replacement habitat if initial planting is not successful. 	Operation	Figure 3.1, 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14) Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	<p>Approved landscape masterplan prior to the start of construction</p> <p>Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation</p>
BY-83	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Potential surface water impacts at Allicky Farm Pond CWS due to spills and leaks within the proposed WWTP migrating beyond the site	<p>Design measures to avoid or minimise impacts to groundwater / to prevent surface water run-off from the proposed WWTP:</p> <ul style="list-style-type: none"> design of surface water drainage network to include segregated drainage system in areas of potential contamination with the proposed WWTP design of access road drainage to incorporate sustainable drainage features <p>Operation in accordance with environmental permit for the proposed WWTP including</p>	Operation	Sections 4 Proposed Drainage System Philosophy for The Proposed WWTP, Section 5 Proposed Drainage Philosophy (Excluding the Proposed WWTP) & Section 6 Management and Maintenance of Drainage, Drainage Strategy (Appendix	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). Integrated Environmental Permit	Implementation of approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				implementation of EMS which will include materials storage controls, spill control measures, emergency response procedures		20.12 App Doc Ref 5.4.20.12). Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)		
BY-84	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Management of impacts from leaks and spills in operation through the operational procedures in relation to materials storage controls, spill control measures, and emergency response procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Approval and implementation of a EMS secured through the Environmental Permit Environmental permit secured prior to start of operation
BY-85	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Direct and indirect beneficial impact to water vole due to the creation of new ditch habitat and improved treated effluent quality returned to the River Cam	Direct benefit to be realised through the continued management of the created ditch as required by application of the mitigation and monitoring measures in line with agreed Natural England licence conditions.	Operation	Draft measures set out within Draft Licence -Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22). Appendix C BNG Report (Appendix 8.13 App Doc Ref 5.4.8.13)	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24) DCO Schedule 2 Requirement 25 which required a biodiversity net gain report has been submitted to and approved by the relevant planning authority.	Approved ditch design through Natural England Licence Approved operational OMMP prior to start of construction
BY-86	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		The management of effluent quality discharge to the river Cam through: ● <u> </u> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam	Operation	WRC and STC will have suitable treatment technology and processes and operate in accordance with the relevant emission limit values for the plant which will be specified within a	Integrated Environmental Permit	Environmental permit approved prior to start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes 		<p>site-specific Environmental Permit.</p> <p>Chapter 2 Project Description, Section 1.8 Waste water treatment overview & Section 2.15 Phasing of construction (App Doc Ref 5.2.2)</p>		
BY-87	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP		Measures for continuous control of emissions to the River Cam through operational procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	<p>The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.</p> <p>Chapter 2 Project Description, Section 5 Operation and Maintenance (App Doc Ref 5.2.2.)</p>	Integrated Environmental Permit	Environmental permit approved prior to start of operation
BY-88	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP	Direct and indirect beneficial impact to otter due to the creation of new ditch habitat and improved treated effluent quality returned to the River Cam	Direct benefit to be realised through the continued management of the created ditch as required by application of the mitigation and monitoring measures in line with agreed Natural England licence conditions.	Operation	<p>Draft measures set out within Draft Licence-Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22).</p> <p>Appendix C BNG Report (Appendix 8.13 App Doc Ref 5.4.8.13) Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22).</p> <p>Appendix C BNG Report (Appendix 8.13 App Doc Ref 5.4.8.13)</p>	<p>Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24) DCO Schedule 2 Requirement 25 which required a biodiversity net gain report has been submitted to and approved by the relevant planning authority.</p>	<p>Approved ditch design through Natural England Licence</p> <p>Approved operational OMMP prior to start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-89	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>The management of effluent quality discharge to the river Cam through:</p> <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes 	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) WRC and STC will have suitable treatment technology and processes and operate in accordance with the relevant emission limit values for the plant which will be specified within a site-specific Environmental Permit.	Integrated Environmental Permit	Environmental Permit in place prior to start of operation
BY-90	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP		Measures for continuous control of emissions to the River Cam through operational procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Environmental Permit in place prior to start of operation
BY-91	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Direct and indirect impacts to bats due to creation of new mixed habitats that will provide better foraging and commuting habitats	<p>Design measures to prevent or minimise artificial light are:</p> <ul style="list-style-type: none"> wildlife sensitive lighting design incorporated into detailed design exclusion of lighting provision on the access road the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP habitat creation within the landscape masterplan that serves a screening function once mature 	Operation	Detailed lighting design to comply with to comply with the Sections 5 Lighting Design Strategy During Operation and Maintenance & Section 6 Lighting Design Strategy During Construction, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) secured through a requirement in the draft DCO (App Doc Ref 2.1)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved lighting design prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-92	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		Detailed lighting design will comply with the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5). This includes the requirement for lighting to accord with The Institute of Lighting Professionals Advice Note- Guidance Note 1 for the Reduction of Obtrusive Light (GN01/21) (2021) or any later revisions of this document published by the Institute and Guidance Note 08/18 - Bats and Artificial Lighting	Operation	Detailed lighting design to comply with to comply with the Sections 5 Lighting Design Strategy During Operation and Maintenance & 6 Lighting Design Strategy During Construction, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) secured through a requirement in the draft DCO (App Doc Ref 2.1)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved lighting design prior to start of construction
BY-93	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanetn access ad land required for landscape masterplan)	Direct and indirect impacts to badger due to creation of new mixed habitats that will provide better foraging and commuting habitats.	Design measures within the landscape masterplan within the LERMP (App Doc Ref 5.4.8.14) include the following to provide direct and indirect benefits to badger: <ul style="list-style-type: none"> Provision of a variety of habitats (woodland and tree stands, scrub and seasonal ponds) will help to support foraging and commuting badger 	Operation	LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Table 5.1 within the LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP and final planting and management plans and procedures
BY-94	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32		Direct benefit to be realised through the mitigation and monitoring measures in line with agreed Natural England licence conditions.	Operation	Draft Licence Water Vole Natural England Ghost Licence Method Statement (App Doc Ref 5.4.8.22).	Natural England Licence Conservation of Habitats and Species Regulations 2017 (as amended) Willife and Countryside Act 1981 (as amended)	Approved licence in place prior to start of construction Preparation of OMMP that integrates licence requirements
BY-95	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		Further measures delivered during operation will be implemented through the long term application of the LERMP (App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders.	Operation	LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Table 5.1 with the LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-96	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Direct and indirect impacts to terrestrial invertebrates due to creation of preferred habitat and creation of conditions that may provide new and or better foraging areas	Design measures to avoid or minimise impacts to terrestrial invertebrates: <ul style="list-style-type: none"> measures within the landscape masterplan within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) include including inclusion of elm, bare earth areas and seasonal ponds to provide direct and indirect benefits to terrestrial invertebrates; and the use of wildlife sensitive lighting design incorporated into detailed design for the proposed WWTP. 	Operation	LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Table 5.1 within the LERMP (App Doc Ref 5.4.8.14) Detailed lighting design to comply with to comply with the Sections 5 Lighting Design Strategy During Operation and Maintenance & Section 6 Lighting Design Strategy During Construction, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) secured through a requirement in the draft DCO (App Doc Ref 2.1)) .	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation
BY-97	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		Further measures delivered during operation will be implemented through the long term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to invertebrate habitat this includes the specific requirement to: <ul style="list-style-type: none"> install approximately 41 discrete deadwood and brash piles across the areas outside the earth bank within woodland planting areas using locally sourced material (preferably as arises from the proposed vegetation removal works). monitor use of bee banks monitoring stability of brash piles monitoring of seasonal pond 	Operation	LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Table 5.1 within the LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation
BY-98	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Works No 32	Direct and indirect impact on fish from operational of the outfall due to scour	Design measures to prevent or minimise impacts to fish are:	Operation	Approval of the construction risk assessment and	Environmental Permit (Flood Risk Activities)	Design of outfall and scour protection measures as per final

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary		from higher flow events and from operational improvements so that effluent quality is improved	<ul style="list-style-type: none"> inclusion of a non-return valve within the outfall chamber for storm flows to prevent ingress of fish to the chamber design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall 		<p>method statement associated with the detailed design and construction approach for the outfall as secured through applicable Environmental Permit (Flood Risk Activities).</p> <p>ES Chapter 2 Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2)</p> <p>Design Plans – Outfall (App Doc Ref 4.13)</p>		design specified as part of the environmental permit (flood risk activities)
BY-99	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>The management of effluent quality and storm spill impacts through:</p> <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes design of storm storage volumes and flow rates to meet regulatory requirements; inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	<p>Operational limits and monitoring obligations secured through Environmental Permit</p> <p>Chapter 2 Project Description , Section 5 Operation and Maintenance (App Doc Ref 5.2.2)</p> <p>App Doc Ref 4.13 Design Plans - Outfall</p>	Integrated Environmental Permit	Environmental permit secured / process technology approved prior to start of operation Permit in place prior to start of operation
BY-100	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32		Management of impacts during operation will be through implementation of an Outfall Management and Monitoring Plan to include ongoing monitoring measures to identify erosion/scour of the river bank. This may trigger the need for remediation including the application of further physical interventions.	Operation	<p>Approval and implementation of a OMMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational</p>	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	Approval and implementation of a updated Outfall Management and Monitoring Plan incorporating requirements within Environmental Permit (flood risk activities and measures for ongoing outfall monitoring prior to start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						environmental magement, The Outfall (App Doc Ref 5.2.2)		
BY-101	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32	Impact of the operational of the outfall on macroinvertebrates due to operation of the outfall which may result in local scour to the river bank and indirectly through water quality improvements	Design measures to prevent or minimise scour and impacts to macroinvertebrate are: <ul style="list-style-type: none"> design of the outfall to operate within the maximum volume limits which are to be similar to those from the existing outfall; design of the outfall to include energy dissipation features 	Operation	Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the outfall as secured through applicable Environmental Permit (Flood Risk Activities). Design Plans - Outfall (App Doc Ref 4.13)	Environmental Permit (Flood Risk Activities)	Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)
BY-102	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32		The management of effluent quality and storm spill impacts through: <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent (including nutrients) and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes design of storm storage volumes and flow rates to meet regulatory requirements; inclusion of capacity within the Proposed Development to adapt to future changes in relation to storm storage provision 	Operation	Operational limits and monitoring obligations secured through Environmental Permit The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention. Chapter 2 Project Description , Sections 2.15 Phasing of construction & Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Environmental permit secured / process technology approved
BY-103	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Works No 32	Direct and indirect impact to macrophytes due to operation of the outfall which may result in local	Design measures to prevent or minimise scour and impacts to macroinvertebrate are:	Operation	Approval of the construction risk assessment and method statement	Environmental Permit (Flood Risk Activities)	Design of outfall and scour protection measures as per final design specified as part

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary		scour to the river bank and indirectly through water quality improvements	<ul style="list-style-type: none"> design of the outfall to operate within the maximum volume limits which are to be similar to those from the existing outfall; <u>Design to incorporate bank and bed protection will be provided as part of the design. This will be in the form of rip rap bed protection and steel sheet piling to protect the banks as shown in the Design Plans – Outfall (App Doc Ref 4.13), design of the outfall to include energy dissipation features</u> 		<p>associated with the detailed design and construction approach for the outfall as secured through applicable Environmental Permit (Flood Risk Activities).</p> <p><u>ES Chapter 2 Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2)</u></p> <p><u>Design Plans – Outfall (App Doc Ref 4.13)</u></p>		<p><u>of the environmental permit (flood risk activities)</u></p> <p><u>Approval and implementation of a updated Outfall Management and Monitoring Plan incorporating requirements within Environmental Permit (flood risk activities and measures for ongoing outfall monitoring)</u></p>
BY-104	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Proposed WWTP (including permanent access ad land required for landscape masterplan)</u>		<p>The management of effluent quality and storm spill impacts through:</p> <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent (including nutrients) and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes design of storm storage volumes and flow rates to meet regulatory requirements; inclusion of capacity within the Proposed Development to adapt to future changes in relation to storm storage provision 	Operation	<p>Operational limits and monitoring obligations secured through Environmental Permit</p> <p><u>Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.</u></p>	Integrated Environmental Permit	<u>Environmental permit secured / process technology approved prior to start of operation</u>
BY-105	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	<u>Proposed WWTP (including permanent access ad land required for landscape masterplan)</u>		<p>CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of best practice measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to:</p> <ul style="list-style-type: none"> the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of 	Operation	<p>Section 7.2, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) CoCP Part A sections 4.4 Construction Environment Management Plan, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan,</p>	<u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u>	<u>Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP</u>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. manage dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit – whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour		(Appendix 2.1 App Doc Ref 5.4.2.1) Design Plans – Outfall (App Doc Ref 4.13)		
BY-106	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p><u>Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s) and Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These will incorporate measures in the CoCP:</u></p> <ul style="list-style-type: none"> ● <u>Section 7.5. (Water Resources and Flood Risk) which requires a series of general measures to be put in place to avoid and minimise impacts to surface water including but not limited to:</u> <ul style="list-style-type: none"> - <u>best practice measures applied for management of leaks and spillages to prevent runoff reaching controlled waters</u> - <u>limiting works to within 8 m of any watercourse or waterbody</u> - <u>identification of watercourses and land drains before construction works in that area commence and regularly checked for signs of silt.</u> - <u>checking of excavation plant prior to use at open cut watercourse crossings to ensure it is in a sound condition and free of potentially contaminating materials;</u> - <u>where possible, concrete lorries will return to their supplier or batching plant for wash out. Concrete wash out skips if required on site will be lined and located at least than 50 metres from a borehole or 10 metres from a watercourse or surface water drain. They will be placed on - hardstanding or on the ground with plastic and membrane containment and clearly marked to avoid cross contamination. Any wash out areas within the working areas will be inspected weekly by the Site Manager to ensure there are no leaks or overflows. The pH of the wash out water will also be monitored;</u> - <u>where needed the use of suitable concrete mixes in watercourses;</u> 	Operation	Sections 4.4 (CEMP) Para 4.4.4., 5.13 (River works), 7.2, (Ecology and Nature Conservation), and 7.5, (Water resources and flood risk) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>- surface water drainage around any batching plants will be controlled.</p> <p>- where required adequate dewatering will be undertaken during excavation activities or construction of subsurface features and foundations (see the section on Dewatering below). Construction techniques may also be reviewed to determine whether an alternative approach is more appropriate. Following completion of in channel works, the channel will be cleared of debris/materials, the natural bed reinstated.</p> <p>- Management of silt during construction including meeting requirements of regulatory position statement (RPS)</p> <p>- completion of works affecting watercourses and flood defences in accordance with the requirements of the relevant regulatory authority (Lead Local Flood Authority/Environment Agency/Internal Drainage Board).</p> <p>- requirement for all necessary consents and licences will be applied for and obtained from the relevant regulatory authority prior to the relevant works commencing on site.</p>				
BY-107	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP.	Construction	Section 7.7 (Noise and Vibration) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP
BY-108	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Beneficial impacts to common reptiles and their habitats due to habitat creation within the landscape masterplan and its ongoing management through the LERMP	<p>Provision and maintenance of new habitats within the landscape masterplan for reptile species to use.</p> <p>Sensitive vegetation management strategy within the LERMP in place in line with the 1981 Act.</p> <p>Direct benefit to reptiles to be realised through measures within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14):</p>	Construction	LERMP-secured through a requirement of the draft DCO (App Doc Ref 2.1) Figure 3.9, 3.10 and Table 5.1 Landscape Ecological and Recreational Management Plan	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> • <u>implementation</u> of sensitive vegetation management strategy that avoids direct injury or killing of reptiles; • <u>inclusion</u> of bare soil scrapes within the landscape masterplan, on south-facing slopes of earth banks suitable for reptiles to use to bask (insolate), and • <u>maintenance</u> measures to ensure habitats are sustained 		(LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)		
BY-109	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		<p>Further measures delivered during operation will be implemented through the long term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to reptiles this includes the specific requirement to:</p> <ul style="list-style-type: none"> • create a total of 8 hibernacula measuring approximately 2m x 4m with 1m height • install approximately 41 discrete deadwood and brash piles across the areas outside the earth bank within woodland planting areas using locally sourced material (preferably as arises from the proposed vegetation removal works). • monitor hibernacula • monitor the stability of brash piles 	Construction	Table 5.1 Landscape Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
BY-110	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Operational noise impacts on breeding birds due to operation of the mechanical-electrical elements (such as pumps and compressors) of the proposed WWTP and during activities to implement the LERMP	Design measures to minimise operational noise impacts by design including consideration of location, layout and plant/equipment selections and acoustic screening from the earth bank and enclosures to reduce noise emissions. Noise at the proposed WWTP will be controlled under the terms of an Environmental Permit, which requires the adoption of best available techniques (BAT) to control noise at source.	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Operational limits and monitoring obligations secured through Environmental Permit	Integrated Environmental Permit DCO Schedule 2 Requirement 7 Detailed Design (App Doc Ref 2.1)	Approved design prior to start of operation Environmental permit in place prior to start of operation
BY-111	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Proposed WWTP (including permanent access		The long term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and	Operation	Approval and implementation of a detailed management	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and	Approved detailed management and monitoring plan in line

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary	ad land required for landscape masterplan		<p>maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to birds this includes the specific requirement to:</p> <ul style="list-style-type: none"> provision and maintenance of seasonal ponds (intended to provide habitat needs for turtle dove) installation of bird boxes under direction of ecologist complete nest checks 		<p>and monitoring plan secured to comply with LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Table 5.1 Landscape Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	<p>implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)</p>	with requirements of the LERMP Table 5.1
BY-112	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>Control of intermittent noise impacts associated with implementation of the LERMP through avoidance of vegetation management within the landscape masterplan area during bird breeding season</p>	Operation	<p>Table 2-10 in ES Chapter 8: Biodiversity (App Doc Ref 5.2.8)</p>	<p>DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)</p>	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.2
BY-113	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Creation and management of habitats as part of the landscape masterplan results in beneficial impacts associated with more varied and quality habitat when compared to existing baseline habitats.	<p>Direct benefit to be realised through the habitat provisions and within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14):</p> <ul style="list-style-type: none"> inclusion of a new mosaic of habitats within in the landscape masterplan intended to link to existing habitat features of value (such as existing hedgerows and habitats as part of the CWS) implementation of appropriate management measures to meet the BNG commitment which will enable replacement habitat if initial planting is not successful. 	Prior to start of construction (approved detailed masterplan) Prior to start of operation (Approve management and monitoring plan)	<p>Section 4 (Indicative creation, management and maintenance plan) LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	<p>DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)</p>	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-114	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		Further measures delivered during operation will be implemented through the long term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to the overall success of the LERMP there is a specific requirement to review the objectives and maintenance and management regimes every five years for 30 years.	Operation	Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Table 5.1 Landscape Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-115	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Decommissioning within the existing Cambridge WWTP	Whilst decommissioning there is the potential for accidental leaks and spills during the draining and cleaning of existing tanks and or works to stop up the existing outfall which could result in short term temporary impact to surface water including the river Cam	<p>Management of decommissioning activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> • — measures to minimise run-off and the risk of runoff reaching ditches and watercourses • — management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. • — measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits • — requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. • — requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained. 	Construction (Decommissioning)	Requirement to comply with the Decommissioning Management Plan (Appendix 2.3 App Doc Ref 5.4.2.3). Secured through a requirement in the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Approved Phasing plan Approved Decommissioning Plan prior to start of works
BY-116	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Decommissioning within the existing Cambridge WWTP		Section 5.7 specifies the content of Pollution Incident Control Plan which will detail procedures to deal with any pollution incident that may occur, including notification procedures including as relevant notification of the Applicant and where applicable local authorities, along with response procedures (including appropriate materials, equipment and resources, timescales and to minimise the effects). The plan will complement	Construction	Sections 4.4 (CEMP) Para 4.4.4. Code of Construction Practice (CoCP) Part A which requires a Water Quality Management Plan (WQMP), Pollution Incident Control Plan (PICP) and Decommissioning	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the	Approved Phasing plan Approved Decommissioning Plan prior to start of works

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				and be consistent with the Emergency Preparedness Plan(s).		Plan (Appendix 2.1, App Doc Ref 5.4.2.1)	CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	
BY-117	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Decommissioning within the existing Cambridge WWTP		Management of decommissioning activities through application of measures within the outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan) which requires that the contractors to prepare a Decommissioning Plan	Construction (Decommissioning)	Decommissioning Plan (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Approved Phasing plan Approved Decommissioning Plan prior to start of works

Climate resilience

Table 2.5: Climate resilience

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-01	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Higher summer temperatures: structural damage	Material specifications and the detailed design of assets, such as pipework, M&E equipment, foundations and road surfacing, will include operating tolerances taking into account future climate change	Operation	Design Code (App Doc Ref 7.17) A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 relating to the works proposed in that phase have been submitted to and approved in writing by the relevant planning authority (App Doc Ref 2.1).	Approved detailed design prior to construction commencement
CR-02	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Thermal protection such as painting, shading or inclusion of natural ventilation / air conditioning options within buildings will be included within the detailed design	Operation	Design Code (App Doc Ref 7.17) A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 relating to the works proposed in that phase have been submitted to and approved in writing by the relevant planning authority (App Doc Ref 2.1), DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-03	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Buildings and structures will be designed to the climate conditions projected at the end of their design life	Operation	Design Code (App Doc Ref 7.17) A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 relating to the works proposed in that phase have been submitted to and approved in writing by the relevant planning authority (App Doc Ref 2.1). DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement
CR-04	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Addition of extra cooling features as necessary	Operation	Design Code (App Doc Ref 7.17) A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 relating to the works proposed in that phase have been submitted to and approved in writing by the relevant planning authority (App Doc Ref 2.1).	Approved detailed design prior to construction commencement
CR-05	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Periodic inspection and repairs or replacement of damaged assets	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) A requirement within DCO Schedule 2 special requirements as outlined within (Application Document Reference 7.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1)	Approved Asset management prior to operation phase commencement
CR-06	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Higher maximum summer temperatures and in-combination weather events: mechanical and electrical equipment failure	Material specifications and the detailed design of assets will include operating tolerances taking into account future climate change (design basis temperature range is -10 to 40°C, in line with the 90 th percentile maximum temperature range)	Operation	Design Code (App Doc Ref 7.17) A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement
CR-07	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Design to include remote and automatic shut-off of systems. Lightning protection.	Operation	Chapter 2 Section 2.10 (App Doc Ref 5.2.2) Design Code (App Doc Ref 7.17) A requirement within	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary					Schedule 1 and as set out in Works Plans		
CR-08	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Monitoring of condition during temperature extremes	Operation	Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)A requirement to prepare an Asset Management Plan (AMP) in accordance with the outline AMP (App Doc Ref 5.4.9.2) secured through a requirement in the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset management prior to operation phase commencement
CR-09	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Higher maximum summer temperatures: efficiency of boilers and CHP unit	Design basis temperature range is -10 to 40°C, in line with the 90th percentile maximum temperature range	Operation	Design Code (App Doc Ref 7.17)A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement
CR-10	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Ability for boiler temperature to be managed via the heating unit.	Operation	Design Code (App Doc Ref 7.17)A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement
CR-11	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Applicant's Asset Management Plan to include scheduling of maintenance and renewal works to improve efficiency of units	Operation	Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)A requirement to prepare an AMP in accordance with the outline AMP (App Doc Ref 5.2.9.2) secured through a requirement in the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset management prior to operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-12	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Increased winter rainfall and heavy rainfall events: structural damage and flooding	Surface water drainage design avoids damage to or water ingress into buildings and structures	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved drainage design <u>prior to the start of construction</u>
CR-13	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Inspection, maintenance and repair	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) Operational limits, management and monitoring obligations secured through Environmental Permit	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1) DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset management prior to operation phase commencement
CR-14	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP including access road		Keeping drainage infrastructure clear	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) A requirement within Schedule 2 special requirements as outlined within Appendix 9.1, App Doc Ref 5.4.9.1	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1) DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset management prior to operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-15	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Management plans and business continuity plans for extreme weather conditions	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) The Environmental Permit will include conditions requiring a written EMS which will include management systems to cover pollution prevention and emergency responses.	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1) Integrated Environmental Permit Integrated Environmental Permit	Preparation of a written EMS to cover emergency preparedness to accord with the requirements of the Environmental Permit prior to operation phase commencement
CR-16	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP including access road		Upgrade of the surface water drainage with larger pipe diameters and storage towards the end of the century.	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved drainage design
CR-17	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Periodic monitoring of structure conditions	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1) DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc	Approved Asset Management Plan prior to operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						5.4.9.1)A requirement within Schedule 2 requirements as outlined within Appendix 9.1, App Doc Ref 5.4.9.1.	Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	
CR-18	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Monitoring the response of the Proposed WWTP surface water drainage system to intense rainfall events and recording occurrences of surface water flooding	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)A requirement within Schedule 2 requirements as outlined within Appendix 9.1, App Doc Ref 5.4.9.1.	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Prior to operation phase commencement
CR-19	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines Outfall	Increased winter rainfall and higher fluvial flows: damage to the outfall structure	Design of the outfall has reduced the risk of scour in modelled fluvial flows	Operation	Design Plans – Outfall (App Doc Ref 4.13). Conditions set out within a Environmental Permit that may be required in relation to outfall design and construction.	Environmental Permit (Flood Risk Activities)Integrated Environmental Permit	Approved detailed design prior to construction commencement
CR-20	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Outfall Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Outfall inspection, maintenance and repair	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) OMMP (Application Document Reference 5.4.8.24)Approval and implementation of a OMMP incorporating requirements within and Environmental Permit (flood risk activities) including fish rescue and	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	Approved OMMP for operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						dewatering controls associated with Environmental Permit (Discharge to surface water) secured through a requirement of the draft DCO (App Doc Ref 2.1)		
CR-21	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Outfall		Periodic monitoring of structure conditions	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	
CR-22	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Greater seasonal range between wetter winters and drier summers: ground movement	Buried infrastructure at depth.	Operation	A requirement within Schedule 1 and as set out in Works Plans Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9) Design Plans - Buildings (App Doc Ref 4.10) Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12) 4.13 Design Plans - Outfall (App Doc Ref 4.13) Design Plans - Waterbeach pipeline long sections (App Doc Ref 4.14) Design Parameters of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement
CR-23	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Waterbeach pipeline		Use of flexible HDPE pipe to provide resilience .	Operation	A requirement within Schedule 1 and as set out in Works Plans ES Chapter 2 Project Description section 3.4 Construction techniques and methodology (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Detailed design prior to construction commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-24	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Inspection, maintenance and repair	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)Operational limits, management and monitoring obligations secured through Environmental Permit	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset management prior to operation phase commencement
CR+25	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Periodic monitoring of structure conditions	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)Operational limits, management and monitoring obligations secured through Environmental Permit	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset management prior to operation phase commencement
CR-26	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	Increased seasonal winter rainfall and heavy rainfall events	Screening and grit handling at the terminal pumping station	Operation	A requirement within Schedule 1 and as set out in Works PlansES Chapter 2 Project Description Section 2.3 Waste water treatment plan, Inlet works (App Doc Ref 5.2.2.)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement Detailed design prior to construction commencement
CR-27	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Inspection and maintenance regime to keep pipes clear and operating effectively.	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)Operational limits, management and monitoring obligations secured through Environmental Permit	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset management prior to operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, tunnel and Waterbeach pipelines	Higher maximum summer temperatures and lower summer rainfall: septicity in process plant and tunnels	Increased septicity at higher maximum temperatures within Proposed WWT process plant, tunnels/pipelines and shaft	Operation	A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement
CR-29	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	Higher maximum summer temperatures and lower summer rainfall: septicity in process plant and tunnels	Additional capacity and the ability for the final effluent flow to be recycled and rerouted back to the inlet works in order to introduce cooling	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1) DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement
CR-30	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Inspection and maintenance regime to keep pipes clear and operating effectively.	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) Operational limits, management and monitoring obligations secured through Environmental Permit	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1) DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset management prior to operation phase commencement
CR-31	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of process plant activity and of temperatures to inform process changes to prevent septicity	Operation	Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) Operational limits and monitoring obligations secured through Environmental Permit Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-32	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	Higher summer temperatures: anaerobic digestion efficiency	Size of digesters, thermal insulation and additional cooling available provided by digester design.	Operation	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9) Design Parameters of the draft DCO (App Doc Ref 2.1)A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement
CR-33	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Addition of extra cooling units around digesters and reduction of insulation	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.)A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement Approved detailed design prior to construction commencement
CR-34	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of temperatures to trigger addition of extra cooling if needed	Operation	Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Operational limits and monitoring obligations secured through Environmental Permit	Integrated Environmental Permit DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Preparation of a an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.
CR-35	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP and access road	Increased winter rainfall and heavy rainfall events: stormwater	Storm water management designed to include allowances for future climate change Surface water drainage design to include allowances for future climate change	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved drainage design prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)		
CR-36	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Design is such that it can support the addition of additional pumping capacity	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement Detailed design prior to construction commencement
CR-37	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Storm response within the Applicant's asset management plan	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Asset Management Plan (App Doc Ref 5.4.9.1) Operational limits and monitoring obligations secured through Environmental Permit	Integrated Environmental Permit DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.
CR-38	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of response of storm water system in extreme rainfall to inform the installation of additional storm water tanks within the capacity allowed for in the design.	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Operational limits and monitoring obligations secured through Environmental Permit Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental	Integrated Environmental Permit	Preparation of a an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						management (App Doc Ref 5.2.2)		
CR-39	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	In-combination effects during operation phase - Changes in air dispersal of the emissions from the energy plant	Capacity within the design for equipment upgrades during the operation phase	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Compliance with varied environmental permit such as through changes in technology and or operational process	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement Detailed design prior to construction commencement
CR-40	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Design that has capacity to permits enables upgrade as necessary of the energy plant during operational phase in response to environmental permitting regulations	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Compliance with regulations	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Prior to operation phase commencement
CR-41	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP and access road	In-combination effects during operation phase - Increased winter rainfall and heavy rainfall events: biodiversity mitigation habitats	Surface water run-off design Surface water drainage design in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2)	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved drainage design prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-42	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP / landscape masterplan extent		Maintenance, repair and replanting of seasonal ponds	Operation	Approval and implementation of a detailed management and monitoring plan secured to comply with Section 5 LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 Prior to operation phase commencement
CR-43	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent / Works No 32 & 39 Proposed WWTP – In-combination effects during operation phase	In-combination effects during operation phase - Reduced summer rainfall and increased drought conditions: biodiversity mitigation habitats	Diversity of species in final planting specifications	Operation	Section 5 Table 5.1 LERMP (App Doc Ref 5.4.8.14) LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Detailed design approved prior to construction commencement
CR-44	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent Proposed WWTP – In-combination effects during operation phase		Creation of the seasonal ponds to retain rainwater in the summer	Operation	Section 3 LERMP (App Doc Ref 5.4.8.14) LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
CR-45	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing	Works No 32 & 39 Proposed WWTP – In-combination effects during operation phase		Design of new ditches to allow installation of weir boards in the water vole ditches	Operation	Agreed design through Natural England Licence, draft licence-Water Vole Natural England Ghost Licence Method Statement	Natural England Licence DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) Natural England Licence DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Licence in place prior to start of construction Approved detailed ditch design prior to construction commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary					(Appendix 8.22, App Doc Ref 5.4.8.22)		
CR-46	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Works No 32 & 39 Proposed WWTP - In-combination effects during operation phase		Installation of weir boards to manage water levels in ditches that are created as part of biodiversity mitigation	Operation	Agreed design through Natural England Licence, draft licence - Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22, App Doc Ref 5.4.8.22)	Natural England Licence DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) Natural England Licence DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Licence in place prior to start of construction Approved detailed ditch design prior to construction commencement
CR+47	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent Proposed WWTP - In-combination effects during operation phase	In-combination effects during operation phase - Reduced summer and rainfall and increased winter rainfall: tree planting	Drought tolerant species selection	Operation	LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan secured to comply with Section 5 LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to the start of operation
CR-48	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent		Watering regime to be devised through adaptive management to consider how future wooded areas and new planting will be watered.	Operation	Section 5 LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to the start of operation
CR-49	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase	In-combination effects during operation phase - Workforce health and safety due to extreme weather conditions (safe access during storms and flood events, health and safe working conditions during high temperatures)	Remote access and monitoring systems. Proximity to the strategic highways network.	Operation	Chapter 2 Project Description, section 2.10 (App Doc Ref 5.2.2) Design Plans - Highways and Site Access (App Doc Ref 4.11) A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to commencement of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-50	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP in-combination effects during operation phase	Proposed WWTP – In-combination effects during operation phase	Operational phase management and business continuity plans for extreme weather events to consider staff safety and welfare and safe travel to site	Operation	Chapter 2 Project Description-, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)Operational management and monitoring obligations secured through Environmental Permit	Integrated Environmental Permit	Preparation of a an operational monitoring programme as part of the written EMS to cover periodic emergency preparedness and response to accord with the requirements of the Environmental Permit.
CR-51	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Provision of shaded areas and/or cooled buildings/refuges. Ease of replacement of equipment. Remote access and monitoring systems.	Operation	Design Code (App Doc Ref 7.17) A requirement within Schedule 1 and as set out in Works Plans	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved d Detailed design prior to construction commencement
CR-52	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extentProposed WWTP –In-combination effects during operation phase and reinstated planting within order limits	In-combination effects during operation phase - Reduced summer rainfall and increased drought conditions: landscaping and tree planting	Species diversity and choice of drought resilient tree species.	Operation	LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan secured to comply with Table 5.1 LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-56	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP –in-combination effects during operation phase		Transfer of rainwater collected within the earth bank to the drainage network in the landscaped area	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Detailed drainage design approved prior to construction commencement
CR-57	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent Proposed WWTP –in-combination effects during operation phase		Landscape Management Plan to replace dieback of wooded area with tree species that thrive in future climates locally	Operation	LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan secured to comply with Table 5.1 LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation
CR-58	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent Proposed WWTP –in-combination effects during operation phase		Approval and implementation of a detailed management and monitoring plan	Operation	Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14).	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-59	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP and access road-		Detailed surface water drainage design will comply with the Drainage Strategy. Drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2).	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved detailed drainage design prior to construction commencement
CR-60	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent Proposed WWTP -In combination effects during operation phase	In-combination effects during operation phase - Warmer, wetter winters leading to increases in pest and disease outbreaks	Diversity in planting species	Operation	Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14). Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
CR-61	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent Proposed WWTP -In combination effects during operation phase		Landscape management - approval and implementation of a detailed management and monitoring plan	Operation	Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14). Figure 3.9 and Figure 3.10 LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) Section 4 (Indicative creation,	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14). Figure 3.9 and Figure 3.10 LERMP (Appendix 8.14, App Doc Ref 5.4.8.14)		
CR-62	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase	Increased winter heavy rainfall events and summer drought conditions: erosion of soils	Surface water runoff design avoids erosion and scour. Drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2)	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Detailed design prior to construction commencement
CR-63	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase		Landscape management design avoids exposed desiccated soils	Operation	Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14). LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Detailed design prior to construction commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						secured to comply with LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)		
CR-64	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase		Landscape management to identify soil erosion and vegetation management	Operation	Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14).	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
CR-65	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase	In-combination effects during operation phase - Higher average and maximum summer temperatures: odour	Capacity within the design to allow for the installation of additional odour mitigation in the Odour Management Unit	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9) A requirement within Schedule 1 and as set out in Works Plans	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Detailed design prior to construction commencement
CR-66	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase		Monitoring odour emissions and upgrade plant and equipment if necessary, in response to nuisance	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Operational limits and monitoring obligations secured through Environmental Permit	Integrated Environmental Permit	Approved OMP prior to operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-67	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP – In-combination effects during operation phase	In-combination effects during operation phase - Increased winter rainfall and heavy rainfall events: water quality Reduced summer rainfall: River Cam water quality	Storm water management designed to include allowances for future climate change.	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement
CR-68	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP – In-combination effects during operation phase		Regulatory compliance monitoring and Environment Agency ongoing assessment of permit conditions to avoid deterioration of water quality due to discharge consents.	Operation	WRC and STC will have suitable treatment technology and processes and operate in accordance with the relevant emission limit values for the plant which will be specified within a site specific Environmental Permit. ES Chapter 2 Project Description Section 2.3 Waste water treatment plant (App Doc Ref 5.2.2.)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement
CR-69	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing	Proposed WWTP – In-combination effects during operation phase <u>Outfall</u>	In-combination effects during operation phase - Increased winter rainfall and heavy rainfall events: river scour	River bank and river bed protection is included within the outfall design. CFD modelling of discharge at the outfall includes consideration of scour impacts and includes a 20% climate change uplift	Operation	Design Plans – Outfall (App Doc Ref 4.13). Conditions set out within an Environmental Permit that may be required	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary					in relation to outfall design and construction. Appendix 20.7 - Outfall CFD Report (App Doc Ref 5.4.20.7)		
CR-70	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Outfall		Monitoring and remedy of scour	Operation	OMMP (Application Document Reference 5.4.8.24) Approval and implementation of a OMMP incorporating requirements within and Environmental Permit (flood risk activities) including fish rescue and dewatering controls associated with Environmental Permit (Discharge to surface water) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	Approved OMMP for operation phase commencement

Carbon

Table 2.6: Carbon

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CA-01	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach transfer pipeline	Capital carbon as a result of materials and activity to construct the Proposed Development	Through the design process, reduction in tunnel length and diameters reduced embodied carbon Reduction in tunnel length and diameters	Construction	Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1) DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of construction Update to model be completed alongside detailed design and final model issued with detailed design
CA-02	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Tertiary treatment: Choice of sand filter provider to reduce the capital carbon intensity of this treatment process	Construction	ES Chapter 2 Project Description Section 2.3 (App Doc Ref 5.2.2) Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of construction
CA-03	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Transfer tunnel, FE and storm pipelines, outfall		Treated effluent pipelines and outfall (material specification for outfall pipelines)	Construction	Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12) Design Plans – Outfall (App Doc Ref 4.13) Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of construction
CA-04	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Through the design process, optimisation of major process-tank volumes from original DMO baseline sizes to reduce embodied carbon	Construction	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of construction
CA-05	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP and permanent access		Optimisation of site road layouts and design specification to reduce embodied carbon	Construction	Design Plans - Highways and Site Access (App Doc Ref 4.11)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CA-06	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach transfer pipeline		<p>Further measures as required within the Design Code (App Doc Ref 7.17) that will continue to be optimise the detailed design and construction to reduce construction emissions, these include:</p> <ul style="list-style-type: none"> Continued innovation review taking a balanced view of whole life carbon impact, balancing capital and operational carbon impact; Material specification; Efficient construction and temporary works. 	Construction	Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	<p>The Design Code (App Doc Ref 7.17) secures monitoring of construction emissions through reporting of an updated carbon at the following stages:</p> <ul style="list-style-type: none"> 6 weeks prior to enabling works commencing Before commencement of main construction works Finalisation of the Detailed Design At any stage where decisions are made which impact Capital Carbon emissions of the Proposed Development by more than 5%
CA-07	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Extent of landscape masterplan	Land use change	Land use change acting to reduce emissions over the whole life of the assessment as achieved via the Landscape masterplan with the LERMP	Construction	Preparation of detailed Section 3 LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed plans
CA-07	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP	Emissions from the operation of the proposed WWTP	<p>Inclusion of energy recovery within proposed WWTP (either CHP or G2G), gas to grid option adopts the following measures: Using renewable biomethane (gas to grid);</p>	Operation	ES Chapter 2 Project Description Section 2.4 Sludge treatment centre, Heat generation, gas utilisation and storage (App Doc Ref 5.2.2) Design Code (App Doc Ref 7.17) Requirement to update Carbon model to account for detailed design of the Proposed	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) written scheme setting out phasing must confirm whether the Applicant intends to construct either a CHP or gas to grid facility as part of Work No. 9.	Decision made prior to start of construction supported by updated Carbon model to account for type of energy recovery facility taken forward

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						Development to monitor further carbon savings through detailed design when compared to the baseline DMO de Requirement to develop detailed design to meet BREEAM target secured through a requirement of the draft DCO (App Doc Ref 2.1).		
CA-08	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Solar panels to be included in the inner slope of the earth bank (for the preferred option of G2G).	Operation	ES Chapter 2 Project Description Section 2.10 Renewables infrastructure (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) written scheme setting out phasing must confirm whether the Applicant intends to construct either a CHP or gas to grid facility as part of Work No. 9.	Decision made regarding inclusion of solar and extent prior to start of construction supported by updated Carbon model to account for solar design
CA-09	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Gateway building to be designed to achieve BREEAM "Excellent" standard	Operation	Design Code (App Doc Ref 7.17) Requirement to develop detailed design to meet BREEAM target secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	BREEAM assessment completed alongside detailed design and final report issued with detailed design
CA-10	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Pumping power demand: Optimisation pumping power demand of Terminal Pumping Station (TPS) through design development	Operation	Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design supported by update to carbon model with final model issued with detailed design
CA-11	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Reduction in chemicals and power demand for sludge dewatering through choice of dewatering technology and design development	Operation	Design Code (App Doc Ref 7.17) Intrinsic to design	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to start of construction
CA-11	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing	Proposed WWTP		Vacuum degassing post-digestion to recover more biogas to be upgraded to biomethane will be included in design	Operation	ES Chapter 2 Project Description Section 2.3 Waste water treatment plant (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary							
CA-12	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Commitment to secure sufficient scale of offsets to cover forecast residual operational emissions prior to operation commencing, as stated in the Outline Carbon Management Plan Commitment through the Operational Carbon Management Plan (CMP) to secure sufficient long term offsets to cover the expected residual net annual emissions based on its detailed design stage carbon model to ensure the Proposed Development continues to meet the Applicants operational net zero commitment. It also requires the Applicant to report operational emissions from the Proposed Development annually, and if required to secure additional offsets if residual operational emissions increase to ensure the Proposed Development continues to operate within the Applicants operational net zero commitment. This requirement applies regardless of whether the gas to grid or CHP option are chosen.	Operation	Carbon management Plan (Application Document Reference 5.4.10.2) Requirement to secure an operational Carbon Management Plan (CMP) (Appendix 10.2, App Doc Ref 5.4.10.2) through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 21 (Carbon management plan) (App Doc Ref 2.1) which requires the approval of a detailed carbon management plan secured to comply with Carbon management Plan (Application Document Reference 5.4.10.2) DCO Schedule 2 Requirement 21 (Carbon management plan) (App Doc Ref 2.1) which requires the approval of a detailed carbon management plan secured to comply with Carbon management Plan (Application Document Reference 5.4.10.2)	Plan to be submitted with approval of gas management phase
CA-13-	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP and landscape masterplan	Whole life carbon	Application of the landscape masterplan with the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14): Land use change acting to reduce emissions over the whole life of the assessment	Operation	Detailed LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14) DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved landscape masterplan prior to the start of construction Detailed management and monitoring plan prior to start of construction
CA-14	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing	Proposed WWTP		Measures adopted in operation act to reduce emissions over the whole life of the assessment: ● Follow the Net Zero to 2030 Strategy (Applicant's commitment to operational net zero emissions)	Operation	Carbon management Plan (Application Document Reference 5.4.10.2) Schedule 2 requirement to apply 2030 strategy and	DCO Schedule 2 Requirement 21 (Carbon management plan) (App Doc Ref 2.1) which requires the approval of a detailed carbon management plan secured to comply with Carbon management	Once first year of operation completed

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary			<ul style="list-style-type: none"> Implement the Operational worker travel plan to encourage mode shift in transport 		include CWWTPR in annual reporting secured through a requirement of the draft DCO (App Doc Ref 2.1)	Plan (Application Document Reference 5.4.10.2) DCO Schedule 2 Requirement 12 (Operational workers travel plan) (App Doc Ref 5.4.19.8) which requires a detailed operational workers travel plan must accord with the measures set out in the operational worker travel plan	
CA-16	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		<ul style="list-style-type: none"> As for CA-12 Operational Carbon Management Plan 	Operation	Carbon management Plan (Application Document Reference 5.4.10.2) Requirement to secure an operational Carbon Management Plan (CMP) through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 12 (Operational workers travel plan) (App Doc Ref 5.4.19.8) which requires a detailed operational workers travel plan must accord with the measures set out in the operational worker travel plan DCO Schedule 2 Requirement 21 (Carbon management plan) (App Doc Ref 2.1) which requires the approval of a detailed carbon management plan secured to comply with Carbon management Plan (Application Document Reference 5.4.10.2)	Plan to be submitted with approval of gas management phase

Community

Table 2.7: Community

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CO-01	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP	Temporary changes to access affecting residents on Low Fen Drove Way due to use during construction for access	<ul style="list-style-type: none"> ● Sequencing construction of the permanent access at the start to minimise disruption to Low Fen Drove Way. As for TT02 <p>Implementation access controls as set out in Section 6.3 of the CTMP and Traffic and Transport measures of the CoCP in particular:</p> <ul style="list-style-type: none"> ● Section 6.3 Adherence to Designated Routes ● Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works ● Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works). ● Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements, diversions etc 	Construction Construction	<p>ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)</p> <p>A requirement within Section 7.6 (Traffic and transport) of the CoCP Part A (App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) Construction Traffic Management Plan (App Doc Ref 5.4.19.7)</p>	<p>DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1 preparation DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP (App Doc Ref 2.1)</p>	<p>Approval of temporary highways connections design by the relevant planning authority prior to the start of construction</p> <p>Approval of the permanent access design by the relevant planning authority prior to the start of construction</p> <p>Approved CEMP required prior to the commencement of construction activities on Low Fen Drove Way</p> <p>Approved CTMP including traffic management measures required prior to the commencement of construction activities on Low Fen Drove Way</p> <p>Approved CLP</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CO-02	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Implementation access controls as set out in the CTMP and Traffic and Transport measures of the CoCP in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works). Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements, diversions etc 	Construction	Section 7.6 (Traffic and transport) of the CoCP Part A (App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8) Construction Traffic Management Plan (App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction activities on Low Fen Drove Way including traffic management measures required prior to the commencement of construction activities on Low Fen Drove Way Approved CLP
CO-04	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Waterbeach transfer pipeline	Temporary changes to recreational resources and open spaces - River Cam	Maintained navigation of River Cam throughout construction period through use of temporary river works that maintain minimum navigable width	Construction	Section 3 CoCP Part B (App Doc Ref 5.4.2.2) OMMP (Application Document Reference 5.4.8.24) Approval and implementation of a OMMP secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the outfall as secured through applicable Environmental Permit (Flood Risk Activities) prior to the start of construction. Approved outfall management plan required prior to the commencement of construction activities affecting the river cam and its users.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
								Notice of navigational changes provided to river users prior to the commencement of the works. Approved CLP.
CO-05	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Waterbeach transfer pipeline		Measures to manage the minimum width that must be retained and provide advance warning to users of the river are outlined in section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) in particular requirement within section 3 of the CoCP Part A (Appendix 2.1, App Doc Ref: 5.4.2.1) (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion	Construction	Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) Community Liaison Plan (App Doc Ref 7.8) OMMP (Application Document Reference 5.4.8.24)	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	
CO-06	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Waterbeach transfer pipeline	Temporary changes to recreational resources and open spaces - Fen Ditton (PRoW 85/6 and PRoW 85/8) due to the temporary in-river construction works to construct the outfall	Temporary diversion of the PRoW 85/6 at the outfall works area using 85/8 and a temporary path to re-join the PRoW 85/6 upstream of the outfall works area Provision of diversions and appropriate signage to communicate temporary diversions as detailed in section 7.6 (Traffic and transport) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular: <ul style="list-style-type: none"> ● Implementation of section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period. ● Implementation of section 7.6 which includes a requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area ● Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to 	Construction	Section 7.6 (Traffic and transport) and 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Phasing plan Approved diversion route Approved CMTMP Approved outfall management plan required prior to the commencement of construction activities affecting the river cam and its users Approved CLP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>access because of PRoW realignment or diversion</p> <ul style="list-style-type: none"> • a requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area 				
CO-07	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Waterbeach transfer pipeline	Temporary changes to recreational resources and open spaces – due to the temporary use of Low Fen Drove Way for construction access	<p>Sequencing construction of the permanent access at the start to minimise disruption to Low Fen Drove Way</p> <p>Management of construction impacts to Horningsea Road through the implementation of the CTMP (App Doc Ref 5.4.19.7) in particular:</p> <ul style="list-style-type: none"> • Section 6.3 Adherence to Designated Routes • Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works • Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works) including retaining access for pedestrian / cyclists to Low Fen Drove Way. • Requirement within section 3 of the CoCP Part A (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements, diversions etc 	Construction	Sections 6.3 (Adherence to Designated Routes) and section 6.9 (Facilitate safe movement of users of the highway) of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7), secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Phasing plan Approved CEMP required prior to the commencement of construction activities on Low Fen Drove Way Approved CTMP including traffic management measures required prior to the commencement of construction activities on Low Fen Drove Way Approved CLP
CO-08	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Waterbeach transfer pipeline	Temporary changes to recreational resources and open spaces – Horningsea Road	<p>Management of construction impacts to Horningsea Road through the implementation of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) in particular:</p> <ul style="list-style-type: none"> • Section 6.3 Adherence to Designated Routes • Section 6.9 Facilitate safe movement of users of the highway which 	Construction	A requirement within Section 7.6 of the CoCP Part A and Section 6.3 (Adherence to Designated Routes) and section 6.9 (Facilitate safe movement of users of	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	CTMP approved prior to the commencement of construction Approved CEMP Approved CLP Traffic management measures approved by local highways prior to implementation of

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works</p> <ul style="list-style-type: none"> • □ Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works). 		<p>the highway) of the CTMP. Section 7.2 (Ecology and nature conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7) Community Liaison Plan (App Doc Ref 7.8)</p>	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p>	<p>traffic management measures</p>
CO-09	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	<u>Waterbeach transfer pipeline</u>	Temporary requirement for land to construct the pipeline — CBS Automotive	<p>The extent of land required temporarily has been minimised as much as practicable. Management of impacts to land temporarily required managed through measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and CTMP:</p> <ul style="list-style-type: none"> • requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction • requirements to maintain access • Implementation of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7), in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which: <ul style="list-style-type: none"> • requires connectivity/access to community facilities and residential properties to be maintained during works. • ● requires connectivity/access to community facilities and residential 	Construction	<p>Intrinsic to design Wording to be confirmed Section 7.2 (Ecology and nature conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP (Appendix 19.7, App Doc Ref 5.4.19.7) secured through a requirement of the draft DCO (App Doc Ref 2.1). Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7);</p>	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p>	<p>Approved CEMP required prior to the commencement of construction activities with access measures through consultation with CBS Automotive</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>properties to be maintained during works.</p> <ul style="list-style-type: none"> section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which requires adequate reinstatement of any areas of footpath affected by the works and to maintain the existing alignment/gradient as much as is practicable 		secured through a requirement of the draft DCO (App Doc Ref 2.1)		
CO-10	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Waterbeach transfer pipeline	Temporary changes to recreational resources and open space – Waterbeach ProW (130/16, 130/10, 130/6 and 130/8) due to the temporary crossings by the pipeline construction	Provision of gated crossings and appropriate signage to communicate temporary diversions as detailed in section 7.6 (Traffic and transport) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Implementation of section 7.6 of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) (Traffic and Transport) which includes measures for temporary traffic control and measures manage the impact upon users of the ProW during the construction period.	Construction	<p>Sections 4.4 CEMP (Appendix 19.7, App Doc Ref 5.4.19.7) & 7.2 Ecology and Nature Conservation, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 2.7, App Doc Ref 5.4.2.7)</p>	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p>	<p>Phasing plan Approved CEMP required prior to the commencement of construction activities for Waterbeach pipeline north of Low Fen Drove Way</p> <p>Approved CTMP required prior to the commencement of construction activities for Waterbeach pipeline north of Low Fen Drove Way</p>
CO-11	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP	Provision of new community resources through new Discovery Centre provides benefit	The opportunity for enhanced provision of community resource through the Inclusion of Discovery Centre and continued operation throughout the operational lifetime of the proposed WWTP (by appointment)	Operation	<p>Requirement implement and monitor usage of the Discovery Centre ES Chapter 2 Project Description, Section 2.13 Further associated development and site-wide provisions, gateway building (App Doc Ref 5.2.2)</p> <p>Section 3.3 Anglian Water Community Education Programme within the Community Liaison Plan (App Doc Ref 7.8) which is secured through a</p>	<p>DCO Schedule 2 Requirement 23 (Discovery Centre) (App Doc Ref 2.1).</p>	<p>Approved operational plan</p> <p>Discovery Centres scheme, within the gateway building prior to commencement of operation to include monitoring of use of the Discovery Centre</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						requirement in the draft DCO (App Doc Ref 2.1)		
CO-12	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP	The presence of permanent infrastructure creates a permanent change to access in the provision of recreational resources and informal open spaces	Design measures to prevent or minimise impacts to recreational users: <ul style="list-style-type: none"> Design of outfall so as not to affect width and gradient of footpath (PRoW 85/6) Design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river and along the banks Design of the outfall so that it integrates into the existing bank and allows for the reinstatement to existing levels 	Operation	Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2) Approved outfall design secured through conditions with the Environmental Permit (Flood Risk Activities) Approval and implementation of an Outfall Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1)	Environmental Permit (Flood Risk Activities) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities) Approved OMMP as part of the Environmental Permit
CO-13	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP		Direct benefits to recreation to be realised through measures within the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14): <ul style="list-style-type: none"> Opportunity for access to the area in proximity to the land required for the proposed WWTP will include formalising access through the provision of permissive paths and leisure cycling access within the LERMP Change of status for up to 1.03km of existing farm track to provide a new Public Right of Way (bridleway) 	Operation	Approval and implementation of a detailed management and monitoring plan secured to comply with Section 3 within the LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	approved Approved LERMP prior to the start of construction Approved detailed management and monitoring plan prior to the start of operation
CO-14	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP		Long-term application of the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to users this includes the requirement requirement to complete user survey at least twice a year to understand how people are interacting with the recreational space and accessing the wider network of PRoW and permissive paths. Opportunity for access to the area in proximity to the land required for the proposed WWTP will include formalising access through the provision of permissive paths and leisure cycling access within the LERMP.	Operation	Approval and implementation of a detailed management and monitoring plan secured to comply with Section 5 within the LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan prior to the start of operation Approved detailed management and monitoring plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CO-15	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	<u>Proposed WWTP</u>		Enhancements for recreational users through: <ul style="list-style-type: none"> Improvements to the footway on the east and west of Horningsea Road New pedestrian crossing to access the landscape masterplan area 	Construction	<u>Approved design secured through a requirement of the draft DCO (App Doc Ref 2.1) Design Plans – Highways and Site Access (App Doc Ref 4.11)</u>	<u>DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1).</u>	Approved detailed design and construction method statements prior to start of construction

Health

Table 2.8: Health

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-01	ES Chapter 12: Health (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	<u>Project wide</u>	Temporary concern for local communities in close proximity to the Proposed Development with regard to the presence of a construction workforce affecting social cohesion.	The CoCP Part A (section 3 Community and Stakeholder Engagement, section 4.3 Considerate Constructors Scheme, section 5.2 Training and Site Induction, section 4.2 Environmental and Health and Safety Management Systems) requires all construction workers to receive appropriate training, which includes expectations regarding respecting and showing courtesy to the local community. A draft CLP has been prepared by the Applicant which contains measures for how communication of construction activity will be undertaken. This includes the frequency of such liaison, the status of the construction works, construction programme and a complaints procedure.	Construction	Section 7.2 (Ecology and nature conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) <u>secured through a requirement of the draft DCO (App Doc Ref 2.1)</u> Approval and implementation of a CEMP (App Doc Ref 5.4.2.7) <u>secured through a requirement of the draft DCO (App Doc Ref 2.1).</u> Sections 4.4 CEMP (Site lighting), Section 7.5 (Water resources and flood risk (dewatering)) and 5.7, (Pollution Incident Control Plan), (Appendix 2.1, App Doc Ref 5.4.2.1) <u>secured through a requirement of the</u>	<u>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</u> <u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u> <u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</u>	Approved phasing plan Approved CEMP required prior to the commencement of construction activities for separate works packages / phases Detailed CLP relevant to different works areas

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						draft DCO (App Doc Ref 2.1). WQMP Water Quality Management Plan (secured through Section 4.4 [CEMP] of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1) Requirement for a Client Liaison Plan (CLP) in accordance with the outline CLP (App Doc Ref 7.8) secured through a requirement of the draft DCO (App Doc Ref 2.1).		
H-02	ES Chapter 12: Health (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	<u>Project wide</u>	Potential risk to human health from water pollution.	As detailed in Chapter 20: Water resources. Application of groundwater protection measures in CoCP Part A section 7.5 (Water Resources and Flood Risk). Monitoring of water quality in available monitoring boreholes within the land required for the landscape masterplan, undertaken prior to, during and following all dewatering activities during construction at the proposed WWTP.	Construction	Sections 4.4 CEMP, 7.2, Ecology and Nature Conservation <u>Conservation</u> , Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) Monitoring obligations secured through Environmental Permit. Chapter 20: Water resources (App Doc Ref 5.2.20)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the <u>preparation</u> of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24) DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed	Approved CEMP required prior to the commencement of construction activities for separate works packages / phases Approved Outfall Management Plan required prior to the commencement of construction activities affecting the River Cam and its users Implement approved borehole monitoring plan. <u>Approved Water Quality Monitoring Plan prior to the start of construction</u>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	
H-03	ES Chapter 12: Health (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Existing Cambridge WWTP		<p><u>Management of construction activities as described within the CoCP Part A. in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974') including:</u></p> <ul style="list-style-type: none"> • <u>measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits</u> • <u>requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002.</u> • <u>requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained</u> • <u>requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment</u> • <u>the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks</u> 	Construction	<p>Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)</p> <p>Sections 4.4 (CEMP) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.</p>	<p>Approved Decommissioning Plan prior to the start of construction (decommissioning)</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<u>of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff.</u>				
H-04	ES Chapter 12: Health (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	<u>Project wide</u>	Potential risk to human health from hazardous waste and substances	As detailed Chapter 16: Material resources and waste. Section 7.9 (Waste Management and Resource Use) CoCP Part A to be followed for minimising and managing wastes through preparation of CEMP, and SWMP	Construction	Sections 4.4 CEMP, 7.2 Ecology and Nature Conservation, 7.9, Waste Management and Resource Use (Appendix 2.1, App Doc Ref 5.4.2.1) Commissioning management plan Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4). SWMP (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1). Chapter 16: Material resources and waste (App Doc Ref 5.2.16)	<u>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</u> <u>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u> <u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline commissioning plan (App Doc Ref 5.4.2.4)</u>	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases Approved Commissioning Management Plan
H-05	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	<u>Proposed WWTP, transfer tunnel, works within existing Cambridge WWTP for decommissioning</u>	Changes to health and wellbeing due to noise, air quality, dust, odour, traffic and visual effects – Fen Ditton	Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and Transport and Chapter 17: Noise and vibration. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and Transport.	Construction	Sections 4.4, CEMP & 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).	<u>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</u> <u>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u>	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						Section 7.6 (Traffic and Transport) and Section 7.7 (Noise and vibration) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)		
H-06	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP, transfer tunnel, works within existing Cambridge WWTP for decommissioning	Changes to health and wellbeing due to noise, air quality, dust, odour, traffic and visual effects – Fen Road	Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and Transport and Chapter 17: Noise and vibration. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and Transport.	Construction	Sections 4.4., CEMP, & 7.2, Ecology & Nature Conservation, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CTMP secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) Section 7.6 (Traffic and Transport) and Section 7.7 (Noise and vibration) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases Approved CTMP
H-07	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP, transfer tunnel, works within existing Cambridge WWTP for decommissioning	Changes in access to areas of open space and recreation, including PRoW and the ability for local communities to undertake physical activity and live active lifestyles - Chesterton, properties on the eastern end of Fen Road and Milton	Diversions and appropriate signage to communicate temporary diversions as detailed in the CoCP. Implementation of section 7.7 of the CoCP Part A (Traffic and Transport) includes measures for temporary traffic control and measures to manage the impact upon users of the PRoW during the construction period. Implementation of the CTMP in particular: <ul style="list-style-type: none"> section 6.3 Adherence to Designated Routes section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours. section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks. 	Construction	Section 7.2 (Ecology and nature conservation), and 7.7 (Noise and vibration) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). CTMP secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases associated with the proposed WWTP and Waterbeach Approved CTMP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works 		<p>with the Sections 6.3 (Site lighting), 6.4 (Cambridge airport), 6.5 (Fire prevention and control) & 6.9 (Historic environment) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)</p>	<p><u>the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</u></p>	
H-08	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	<u>Proposed WWTP including land required for landscape masterplan and access</u>	Changes in access to areas of open space and recreation, including PRow and the ability for local communities to undertake physical activity and live active lifestyles – Horningsea and users of Low Fen Drove Way	Diversions and appropriate signage to communicate temporary diversions as detailed in the CoCP Part A and within the CTMP section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works	Construction	<p>Sections 4.4, CEMP CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). CTMP secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the</p> <p>Section 6.9 (Facilitate safe movement of users of the highway) CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)</p>	<p><u>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</u></p> <p><u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</u></p> <p><u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</u></p>	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases associated with the proposed WWTP and Waterbeach Approved CTMP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-09	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan and access	Changes in access to local services as a result of construction activities and changes to travel routes and delays	The CTMP states that there will be no construction traffic through Horningsea village. Section 4.2.3 (Local routeing and site plant vehicle routeing) of the CTMP states that hours of construction traffic operation will avoid the AM and PM peak periods as well as school pick-up and drop-off hours. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and transport including a requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements, diversions etc	Construction	CTMP secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Section 4.2 (Local routeing and site plant vehicle routeing) of the CTMP (Appendix 2.1, App Doc Ref 5.4.19.7) Community Liaison Plan (CLP) (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App DoC Ref 7.8)</p>	Approved CTMP required prior to the commencement of construction activities for separate works packages / phases. Approved CLP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-10	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Changes to health and wellbeing due to an increase in noise, air quality, dust, odour, traffic and visual effects – Waterbeach and Clayhithe	Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport and Chapter 17: Noise and vibration (Application Document Reference 5.2.17).	Construction	Section 7.2, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7).	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases associated with the proposed WWTP and Waterbeach Approved CTMP
H-11	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Changes in access to areas of open space and recreation, including PROW and the ability for local communities to undertake physical activity and live active lifestyles.	Measures to manage the minimum navigable width that must be retained and provide advance warning to users of the river are outlined in section 3.1 of CoCP Part B.	Construction	Section 7.2 (Ecology and nature conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam), CoCP Part B (App Doc Ref 5.4.2.2) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) secured through a	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved CEMP and CTMP required prior to the commencement of construction activities for Waterbeach works package(s) Approved OMMP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						requirement in the draft DCO (App Doc Ref 2.1) to comply with the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)		
H-12	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Waterbeach pipeline		<p>Relevant noise and traffic measures outlined in the CoCP part A as detailed in Chapter 19: Traffic and transport and Chapter 17: Noise and vibration. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and transport. Including the provision of diversions and appropriate signage to communicate temporary diversions as detailed in section 7.6 (Traffic and transport) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular:</p> <ul style="list-style-type: none"> Implementation of section 7.7 of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Part A (Traffic and Transport) which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period. r Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion A requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area 	Construction	<p>Section 7.2 (Ecology and nature conservation), Section 7.6 (Traffic and transport) and Section 7.7 (Noise and vibrations) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). CTMP secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)</p> <p>Community Liaison Plan (CLP) (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p>	Approved phasing plan Approved CEMP and CTMP required prior to the commencement of construction activities for separate works packages / phases associated with the proposed WWTP
H-13	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP	Potential risk to human health from water pollution.	Regulatory compliance monitoring (UK Government, 2021) and Environment Agency ongoing assessment of permit conditions will prevent deterioration of water quality within the River Cam (extending from phase 1 and phase 2 of operation and beyond).	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Operational limits and monitoring	Integrated Environmental Permit	Approved water and treated effluent quality monitoring and reporting plans as part of the operational requirements stipulated by the Environmental Permit required prior to operation and

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						obligations secured through Environmental Permit. The Environmental Permit will include conditions requiring management systems to cover operational monitoring, emergency responses and pollution prevention.		throughout asset lifecycle
H-14	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	<u>Proposed WWTP</u>		Surface water runoff from hard surfaces segregated within the drainage design.	Construction	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved surface water drainage design agreed with the LLFA prior to start of construction
H-15	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	<u>Proposed WWTP</u>		<p><u>Management of construction activities as described within the CoCP Part A, in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974') including:</u></p> <ul style="list-style-type: none"> <u>measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits</u> 	Construction (Decommissioning) Construction + (Decommissioning)	<p>Section 4 (CEMP) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) Section 4 (CEMP) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Outline Decommissioning</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Prior to start of decommissioning works at the existing Cambridge WWTP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> ● <u>requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002.</u> ● <u>requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained</u> ● <u>requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment</u> <p>— the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. Management of construction activities as described within the CoCP Part A. in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974) including:</p> <ul style="list-style-type: none"> ● measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits 		<p>Plan (Appendix 2.3, App Doc Ref 5.4.2.3)</p>		

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> — requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. — requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained — requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment • the application of measures to prevent run-off from construction such as the use of cut-off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. 				
H-16	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	<u>Proposed WWTP</u>	Potential risk to human health from hazardous waste and substances	Process design to convert the sludge produced by the proposed WWTP to a bio fertiliser for re-use elsewhere.	Operation	<u>Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)Operational limits and monitoring obligations secured through Environmental Permit</u>	Integrated Environmental Permit	Detailed process design as presented within permit application
H-17	<u>ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary</u>	<u>Proposed WWTP</u>		Design of proposed WWTP to operate in accordance with the Environmental Permit	Operation	<u>Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)Operational</u>	Integrated Environmental Permit	Detailed process design as presented within permit application

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						limits and monitoring obligations secured through Environmental Permit		
H-18	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP		Preparation of operational management plan associated with the EMS procedures as required by the permitting process.	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.	Integrated Environmental Permit	Approved operational management plans as part of the operational EMS required prior to operation and throughout asset lifecycle
H-19	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP		Operational waste management plan Management of human health risks from the creation of hazardous waste and use of hazardous substances through the application of measures within Section 7.9 (Waste Management and Resource Use) of the CoCP Part A in relation to minimising and appropriately managing waste in accordance with environmental regulations through preparation of CEMP, and SWMP	Operation	Sections 4.4 (CEMP), 7.7 (Noise and vibration), and Section 7.9 (Waste Management and Resource Use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) Sections 4.4 (CEMP), 7.7 (Noise and vibration), and Section 7.9 (Waste Management and Resource Use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)	Integrated Environmental Permit Integrated Environmental Permit	Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation. Detailed process design as presented within permit application

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-20	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP	Potential risk to human health from pests	As part of operational procedures there will be regular inspections, controls on waste storage and waste removal, use of design features that deter pest infestation and guidelines for the employment of professional pest control if required.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.	Integrated Environmental Permit	Approved waste management plans as part of the operational EMS required prior to operation and throughout asset lifecycle
H-21	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP	Changes to social cohesion due to the presence of new infrastructure	Inclusion of pedestrian and leisure cycling connections within the landscape masterplan Management of potential community impacts through the inclusion of pedestrian and leisure cycling connections within the landscape masterplan to provide formalised access and retain connectivity	Operation	Table 5.1 LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP and final design of pathways prior to construction of pathways and cycleways
H-22	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP	Changes in access to areas of open space and recreation, including PRoW and the ability for local communities to undertake physical activity and live active lifestyles	Inclusion of pedestrian and leisure cycling connections within the landscape masterplan Management of potential community impacts through the inclusion of pedestrian and leisure cycling connections within the landscape masterplan to provide formalised access and retain connectivity	Operation	LERMP (App Doc Ref 5.4.8.14) secured through a requirement of the draft DCO (App Doc Ref 2.1)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP and final design of pathways prior to construction of pathways and cycleways
H-23	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Decommissioning activities at the existing Cambridge WWTP	Changes to health and wellbeing due to an increase in noise, air quality, dust, odour, traffic and visual effects	Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport and Chapter 17: Noise and vibration. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and transport.	Construction	Section 4.4 CEMP, 5.7, Pollution Incident Control Plan, 7.2 (Ecology and nature conservation), 7.5 Water resources and flood risk (dewatering) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the	Approved CTMP, CEMP and Decommissioning Plan required prior to the commencement of decommissioning works

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						<p>draft DCO (App Doc Ref 2.1). Sections 4.4 CEMP, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). WQMP (Appendix 20.13, App Doc Ref 5.4.20.13) (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p>	
H-24	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	<u>Decommissioning activities at the existing Cambridge WWTP</u>	Potential risk to human health from water pollution	<p>Management of construction activities as described within the CoCP Part A, in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974) including:</p> <ul style="list-style-type: none"> ● measures applied for the management of leaks and spillages such 	Construction	<p>Sections 4.4, CEMP, 7.2, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Sections 4.4 CEMP, Section 7.5 Water</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP/App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed</p>	Approved CTMP, CEMP and Decommissioning Plan required prior to the commencement of decommissioning works

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>as use of drip trays and provision of spill kits</p> <ul style="list-style-type: none"> ● requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. ● requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained ● requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment ● the application of measures to prevent run-off from construction such as the use of cut-off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. As for WR-03 		<p>resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). WQMP, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p>	
H-25	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Decommissioning activities at the existing Cambridge WWTP	Potential risk to human health from hazardous waste and substances	Management of decommissioning activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). Management of decommissioning activities through application of measures within the outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan) which requires that the contractors to prepare a Decommissioning Plan (secured through requirements in the DCO), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which sets out measures to control activities related to decommissioning. These requirements will collectively secure deliver	Construction (Decommissioning)	Section 4.4 (CEMP) and section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Requirement to comply with the Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3). Secured through a requirement in the draft DCO (App Doc Ref 2.1)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.</p>	Approved Phasing plan Approved Decommissioning Plan prior to start of decommissioning works

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				appropriate mitigation of the decommissioning activities.				

Historic environment

Table 2.9: Historic environment

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
HE-01	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Temporary change within the setting and/or character of assets (HE011, HE095, HE040, HE096) during construction.	<p>The temporary lighting proposed will be mounted to minimise the spread of light in the surrounding area.</p> <p>Measures are set out within Section 7.3, Historic environment, and section 7.6, Traffic and transport, of the CoCP, Part A.</p> <p>CoCP Part B section 3 requiring the construction compounds within Baits Bite Lock (HE095) Conservation Area to be screened by a solid site hoarding to reduce noise, light and visual intrusion.</p>	Construction	<p>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Sections 4.4 (CEMP), 7.3 (HistoricHistoric environment) & 7.6 (Traffic and transport), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Section 3 (Site specific measures) of</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7).</p>	<p>An approved Phasing Plan.</p> <p>An approved CEMP</p> <p>An approved CTMP</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						CoCP Part B (App Doc Ref 5.4.2.2)		
HE-02	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Construction traffic will be routed around rather than through Horningsea Conservation Area.</p> <p>Measures are set out within Section 7.3 Historic environment, and 7.6 Traffic and transport, of the CoCP, Part A.</p>	Construction	Approval and implementation of a Construction Environmental Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7), Section 7.3 (Historic environment) & 7.6 (Traffic and transport), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	<p>An approved Phasing Plan.</p> <p>An approved CEMP</p> <p>An approved CTMP.</p>
HE-03	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Permanent construction impacts from change within the setting or to the character of heritage assets (HE011, HE040, HE095, HE096).	<p>As described in Chapter 15: Landscape and Visual Amenity (App Doc Ref: 5.2.15).</p> <p>The landscape master plan within the LERMP (App Doc Ref 5.4.8.14) is designed to reduce the visual impact on historic landscape assets and character area</p>	Construction	<p>Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)</p> <p>Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)</p>	<p>An approved Phasing Plan.</p> <p>An approved CEMP</p> <p>An approved Soil Management Plan</p> <p>An approved LERMP</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
HE-04	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Removal of archaeological remains (HE1303, HE1304, HE1306, HE1307, HE1308, HE1310, HE1328 and HE1329).	Archaeological remains which will be impacted by the Proposed Development will be subject to an additional programme of archaeological investigation and recording to be agreed with CHET.	Construction	ES Chapter 13 Appendix 13.8 Framework Archaeological Investigations Mitigation Strategy Archaeological Investigation Method Strategy secured through a requirement of the draft DCO (App Doc Ref 2.1) (App Doc Ref 5.4.13.8)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) DCO Schedule 2 Requirement 13 (Archaeological investigation mitigation strategy) (App Doc Ref 2.1) which requires that no phase shall start until a detailed archaeological investigation mitigation strategy and where required by the framework archaeological investigation mitigation strategy (App Doc Ref 5.4.13.8) a written scheme of investigation.	An approved Phasing Plan. An approved Archaeological Investigation Method Strategy
HE-05	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP	Permanent construction effects on built heritage and historic landscape assets - change in character of HLCA22 and other HLCAs.	Where possible the land required for the construction of the treated effluent transfer pipelines, following the works, will be returned to its current character.	Operation	Section 7.4 (Land Quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (Appendix 2.1, App Doc Ref 2.1). Section 5.4 (Soil reinstatement and reuse), Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through requirements of the	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must	An approved Phasing Plan. An approved CEMP prior to the start of construction An approved Lighting Design Strategy prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						draft DCO (App Doc Ref 2.1)	incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	
HE-06	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP	Operational change within the setting of heritage (HE011, HE040, HE095 and HE096) and historic landscape (HLCA69) assets.	The lighting will be designed to reduce the upward spread of light and to minimise glare, reducing the impact on the surrounding heritage assets. It will also only be switched on when activated by a sensor, or where required for a specific task. The landscape master plan is within section 3 o the LERMP (App Doc Ref 5.4.8.14) will be designed to reduce the visual impact on historic landscape assets and character area.	Operation	Approval of the Design Plans (App Doc Ref 4.9) and Landscape Master Plan in the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)) Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	An approved Phasing Plan. An approved CEMP prior to the start of construction An approved Lighting Design Strategy prior to the start of construction

Land quality

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LQ-01	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Loss of, or restricted access to, sand and gravel MSA	Measures outlined in Section 7.9 (Waste management and resource use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) to ensure, where possible, minerals which are extracted as part of the construction will be reused within the Proposed Development, which will reduce the impact on the resource.	Construction	Section 7.9 (Waste management and resource use), COCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the	An approved CEMP prior to the start of construction Approval of CoCP prior to start of development construction

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
							CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	
LQ-02	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Loss of, or restricted access to, Chalk MSA	Measures outlined in Section 7.9 (Waste management and resource use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) to ensure, where possible, minerals which are extracted as part of the construction will be reused within the Proposed Development, which will reduce the impact on the resource. Furthermore, the land required for the proposed development will be minimise land required as much as possible. Measures outlined in Section 7.9 (Waste management and resource use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) to ensure, where possible, minerals which are extracted as part of the construction will be reused within the Proposed Development, which will reduce the impact on the resource. Furthermore, the land required for the proposed development will be minimise land required as much as possible.	Construction	Schedule 1- Section 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	An approved CEMP prior to the start of construction Approval of CoCP prior to start of development construction
LQ-04	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Mineral safeguarding areas – loss of, or restricted access to, sand and gravel MSA	Where possib possible, minerals which are extracted as part of the construction will be reused Ensure maximum reuse of materials within the Proposed Development to reduce the impact of the resource. Furthermore, the land required for the p Proposed D development will be minimise land required as much as possible.	Construction	Schedule 1- Appendix 14.5: Chalk MSA calculation (App Doc Ref 5.4.14.5) includes calculations to determine the area of the MSA (Paragraphs 4.2.13 to 4.2.21 of ES Chapter 14: Land Quality (App Doc Ref 5.2.14)) Section 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	An approved CEMP prior to the start of construction Approval of CoCP prior to start of development construction
LQ-05	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Exposure to contaminated soils through inhalation – off-site land users	Dust control measures will be mitigated proportionally using the measures using the IAQM ‘Guidance on the assessment of dust from demolition and construction’ implemented through an Air Quality/Dust Management Plan as set out in CoCP Part A Section 4.4 (CEMP)	Construction	Section 7.8 (Air quality), and Section 4.4 (CEMP) CoCP CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 4.4 (CEMP), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	An approved CEMP prior to the start of construction Approval of CoCP prior to start of development construction

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
LQ-06	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Migration of existing contamination through preferential pathways to controlled waters (by piling, pipelines, tunnelling and construction of shafts)	Any pre-existing contamination would be adequately managed through the contaminated land regime (LCRM) to ensure that the operational area is suitable for use.	Construction	Standard planning requirement (LCRM document (Environment Agency, 2021)) Section 7.4 (Land quality) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	LCRM Regime	Approval of LCRM documents prior to commencement of construction (as required).
LQ-07	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Exposure of on-site and off-site land users to contamination through direct contact, ingestion or inhalation of dusts from contaminated soils which are reused on-site as part of the landscaping	A Materials Management Plan (MMP) will be developed if required to allow the <u>application</u> of CL:AIRE Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) for the reuse of excavated waste materials (if required), as detailed in Section 7.9 (Waste management and resource use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1).	Operation	Section 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approval of CL:AIRE Materials Management Plan (if required), prior to construction.
LQ-08	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Migration of contamination or leachate from inappropriate reuse of soils on the proposed WWTP site	A Materials Management Plan (MMP) will be developed if required to allow the <u>application</u> of CL:AIRE Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) for the reuse of excavated waste materials (if required), as detailed in Section 7.9 (Waste management and resource use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1).	Operation	Section 7.9 (Waste management and resource use), Code of Construction Practice CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1), if required.	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	An approved CEMP prior to the start of construction Approval of CoCP prior to start of development construction
LQ-09	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Damage from aggressive ground conditions on buried structures and infrastructure: water supply pipe infrastructure, concrete structures (e.g., foundations) and tunnels.	Design of structures and materials for the ground conditions present Operational monitoring of structural conditions and asset inspections	Operation	Schedule 1 Requirements within Schedule 2 Detail design approval Geoenvironmental Results - proposed WWTP (App Doc Ref 5.4.14.3) APP-125 Anglian 5.4.14.4 ES Volume 4 Chapter 14 Appendix 14.4 Geoenvironmental	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1) DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approval of designs prior to start of construction. Approval of asset management plan prior to operation.

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
						Results – Waterbeach (App Doc Ref 5.4.14.4) Asset Management Plan (App Doc Ref 5.4.9.1)		

Landscape and visual amenity

Table 2.10: Landscape and visual amenity

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
<u>LV-01</u>	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	<u>Proposed WWTP</u>	Direct and indirect impacts on landscape character and visual amenity due to construction, loss of vegetation, of the WWTP and the presence of construction equipment and activity in in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and outfall.	<u>Early planting as specified within the LERMP. This will comprise: a hedge with standard trees along the southern side of a section of Low Fen Drove Way, a woodland belt approximately 7.5m wide along the southern and western boundaries and part of the eastern boundary of the proposed WWTP site and trees planted in gaps between existing trees along the eastern side of Horningsea Road between Low Fen Drove Way and Horningsea. In addition, an existing shelter belt between the WWTP site and Horningsea will be rejuvenated with trees and shrubs to replace failed planting and ongoing landscape maintenance to promote establishment and improve growth rates.</u>	<u>Construction</u>	<u>Section 3.2, Landscape Masterplan phasing, LERMP (Appendix 8.14, App Doc Ref 5.4.8.14).</u>	<u>Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14).</u>	<u>Approved LERMP prior to start of construction</u>
<u>LV-02</u>	<u>ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary</u>	<u>Proposed WWTP</u>		Provision of solid hoardings between Shaft 4 construction compound and Red House Close, near Poplar Hall Farm House and at the outfall compound to partially screen the construction of the proposed WWTP.	<u>Construction</u>	<u>Requirement for solid hoarding at shaft 4 and screening at the compound secured through a requirement of the draft DCO (App Doc Ref 2.1).</u> Section 3.2 (Transfer tunnel) of the CoCP Part B (App Do Ref 5.4.2.2.)	<u>DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)</u> <u>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</u>	<u>Approved phasing plan</u> <u>Approved CEMP including layout and screening details</u>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LV-03	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Management of impacts to land temporarily required managed through measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Part B (Appendix 2.2, App Doc Ref 5.4.2.2):</p> <ul style="list-style-type: none"> • requirement requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction • minimising severance of hedgerows and reinstatement of hedgerows. minimising severance of hedgerows and reinstatement of hedgerows. • Replanting and maintenance of replanted trees, hedgerow and vegetation removed during construction. Replanting and maintenance of replanted trees, hedgerow and vegetation removed during construction. <p>The implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows.</p>	Construction	<p>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Section 7.2 (Ecology and nature conservation - Tree/Hedgerow removal), and 7.4 (Soil Management, of the CoCP Part A (App Doc Ref 5.4.4.1)</p> <p>Section 3.3 (Proposed Waste Water Treatment Plant) of Part B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 & 2) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Construction lighting design to comply with to comply with the secured through a requirement in the draft DCO (App Doc Ref 2.1)</p> <p>Outline Soil Management Plan (App Doc Ref 5.4.6.3)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)</p>	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline
LV-04		Proposed WWTP		Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of lighting with no upward orientation or light spill.	Construction	<p>Section 6 of the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p> <p>CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	Approved lighting design prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LV-05	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP	Damage to retained vegetation within the area of land required for the landscape masterplan	Use of protective fencing around the perimeter of the root protection zones as set out in the arboricultural report (App Doc Ref 5.4.8.17), minimise road and junction widening for temporary construction access.	Construction	Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Section 7.2 (Ecology and nature conservation - Tree/Hedgerow removal), CoCP Part A and Section 3.3 (Proposed Waste Water Treatment Plant) of Part B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 & 2) Arboricultural report (App Doc Ref 5.4.8.17)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Phasing plan Preparation and implementation of CEMP incorporating measures to protect trees
LV-06	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Direct and indirect impacts on landscape character and visual receptors due to construction of Waterbeach Pipeline	Management of impacts to land temporarily required managed through measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Part B (Appendix 2.2, App Doc Ref 5.4.2.2): <ul style="list-style-type: none"> ● Requirement requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction ● Use of solid site Use of solid site hoarding/temporary acoustic barriers at Waterbeach construction compound and around HDD pit locations/HDD plant during continuous working periods. 	Construction	Section 7.2, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Section 7.2 Tree/Hedgerow removal, CoCP Part A and Section 3.3 of Part B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 & 2) secured through a requirement of the	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	For areas outside of the landscape masterplan monitoring as set out within approved CEMP including continued management and monitoring in relation to reinstated habitat, vegetations and hedgerow

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						draft DCO (App Doc Ref 2.1). Construction lighting design to comply with to comply with the secured through a requirement in the draft DCO (App Doc Ref 2.1)		
LV-07	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Waterbeach pipeline		The implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3 App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows.	Construction	Section 7.4, Land quality, of the CoCP Part A (App Doc Ref 5.4.4.1) Outline Soil Management Plan (App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	
LV-07	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Waterbeach pipeline		Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of lighting with no upward orientation or light spill.	Construction	Section 6 of the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approval of lighting design prior to commencement of construction.
<u>LV-08</u>	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP	Direct and indirect impacts on landscape character and visual receptors due to operation of the proposed WWTP due to presence of new infrastructure in the rural landscape increases urbanising influence on the features in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and outfall.	Design of structures to reduce visual impact, design of lighting to minimise lighting impacts on the night-time landscape and views. Design measures to prevent or minimise artificial light are: <ul style="list-style-type: none">● — exclusion of lighting provision on the access road● — the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP● — habitat creation within the landscape masterplan that serves a screening function once mature	Operation	Lighting design to comply with to comply with the Section 5 of the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)-secured through a requirement in the draft DCO (App Doc Ref 2.1)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approval of lighting design prior to commencement of construction. For areas outside of the landscape masterplan monitoring as set out within approved CEMP including continued management and monitoring in relation to reinstated habitat, vegetations and hedgerow

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LV-09	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		Landscape masterplan and initial planting during construction included in the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14).	Operation	Section 3.2, Landscape Masterplan phasing, LERMP (Appendix 8.14, App Doc Ref 5.4.8.14).	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14).	Approved LERMP prior to start of construction Approved detailed management and monitoring plan as set out within the LERMP Table 5.1 (Appendix 8.14 App Doc Ref 5.4.8..14) prior to start of operation
LV-11	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		Direct and indirect impacts related to operation of the outfall will be minimised through rectifying erosion as determined through operational monitoring	Operation	Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24) Conditions set out within an Environmental Permit that may be required in relation to outfall design and construction. DCO Schedule 2 Requirement 7 relating to the works proposed in that phase have been submitted to and approved in writing by the relevant planning authority.	Approval and implementation of a OMMP secured through a requirement of the draft DCO (App Doc Ref 2.1)- Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)
LV-12	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		Design of landscape masterplan within the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) to derive a multifunctional masterplan that integrates design measures (earth bank and planting) to integrate the development into the landscape and screen tall structures to minimise prominence of the infrastructure in the landscape and views. Design of structures in the proposed WWTP to minimise prominence of the infrastructure in the landscape and views.	Operation	Section 3 Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)- Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP secured through a	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved phasing plan Approved detailed plan and planting schedule in line with Table 5.1 of the LERMP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LV-13	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		Selection of materials and finishes to the structures of the proposed WWTP as described in the Design and Access Statement (App Doc Ref 7.6).	Operation	requirement of the draft DCO (App Doc Ref 2.1) Section 7 (Masterplan proposals) and 9 (Engineering and architectural proposals) Design and Access Statement (App Doc Ref 7.6). which is secured through a requirement in the draft DCO (App Doc Ref 2.1). Design Code (App Doc Ref (7.17))	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1) DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design, materials and finishes are approved by the local planning authority
LV-14	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		CoCP Parts A and B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 & 2). These will be set out in the CEMP related to the specific works activity: <ul style="list-style-type: none"> Any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. In locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist. 	Operation	Section 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved phasing plan For areas outside of the landscape masterplan monitoring as set out within approved CEMP including continued management and monitoring in relation to reinstated habitat, vegetations and hedgerow

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LV-15	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) setting out the maintenance measures required to ensure the establishment and long-term healthy development of the planting shown on the landscape masterplan and outside the landscape masterplan area	Table 5.1 of the Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14).	Table 5.1 of the LERMP.	Approved detailed plan and planting schedule prior to the start of the construction
LV-16	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Direct and indirect impacts on landscape character and visual receptors due to Operation of the Waterbeach Pipeline	Replanting vegetation removed during construction. Restoring the land to its former levels and condition	Operation	Section 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	For areas outside of the landscape masterplan monitoring as set out within approved CEMP including continued management and monitoring in relation to reinstated habitat, vegetations and hedgerow Approved detailed plan and planting schedule in line with Table 5.1 of the LERMP

Material resources and waste

Table 2.112-12: [Material resources and waste](#)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MW-01	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Depletion of material resources due to the construction of the Proposed Development	Reuse of 90% of excavated material within landscape masterplan limiting required imported fill material to 4,373m ³ for proposed WWTP through implementation of an approved Site Waste Management Plan.	Construction	Sections 4.4, CEMP, & 7.9, Waste management and resource use, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved CEMP Approved materials management plan
MW-02	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		100% reuse of the excavated material within trench reinstatement or landscape masterplan for Waterbeach Pipeline through implementation of an approved Site Waste Management Plan.	Construction	Sections 4.4, CEMP, & 7.9, Waste management and resource use, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)) preparation	Approved phasing plan Approved CEMP Approved materials management plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MW-03	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	<u>Proposed WWTP and Waterbeach Pipeline</u>		<u>Use of precast structures (produce less waste) for treated effluent pipework</u>	Construction	Chapter 2 Project Description, Sections 3.1 Construction phasing and sequence of assembly, & 3.4 Construction techniques and methodology (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)) preparation	Approved detailed design and construction methods prior to start of construction for the phase
MW-04	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	<u>Proposed WWTP and Waterbeach Pipeline</u>	Impact on the availability of material resources due to the construction of the Proposed Development	Reuse of 90% of excavated material within landscape masterplan limiting required imported fill material to 4,373m ³ for proposed WWTP through implementation of an approved Site Waste Management Plan.	Construction	Sections 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved CEMP <u>prior to start of construction</u> Approved materials management plan <u>prior to start of construction</u>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MW-05	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		100% reuse of the excavated material within trench reinstatement or landscape masterplan for Waterbeach Pipeline through implementation of an approved Site Waste Management Plan.	Construction	Sections 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved phasing plan Approved CEMP Approved materials prior to start of construction management plan prior to start of construction
MW-06	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of inert waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the construction phase of the Proposed Development.	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Construction	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)	Waste (England and Wales) Regulations 2011 (as amended)	Approved phasing plan Approved of CEMP prior to start of construction Approved SWMP prior to start of construction Approved materials management plan prior to start of construction
MW-07	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		The application of measures within section 7.9 of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP to be followed for minimising and managing waste during construction through preparation of CEMP, SWMP.	Construction	Sections 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan Approval and implementation of a Site Waste Management Plan	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved of CEMP prior to start of construction Approved SWMP prior to start of construction Approved materials management plan prior to start of construction
MW-08	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of non-hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the construction phase of the Proposed Development.	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Construction	Sections 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the	Waste (England and Wales) Regulations 2011 (as amended)	Approved phasing plan Approved of CEMP prior to start of construction Approved SWMP prior to start of construction Approved materials management plan prior to start of construction Approved of CEMP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						draft DCO (App Doc Ref 2.1). Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).		
MW-09	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		<p>Section 7.9 Waste management and resource use of the CoCP Part A to be followed for minimising and managing waste through preparation of CEMP, SWMP.</p> <p>The SWMP will as a minimum identify the following:</p> <ul style="list-style-type: none"> Responsibilities within the construction team for waste management; The types of waste and the quantities likely to be generated; Measures to be adopted during construction to minimise waste generated; Opportunities for recycling and/or reuse; Proposed treatment and disposal sites together with details of their Environmental Permit; and Provisions for staff training and use of the SWMP(s). 	Construction		DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)) preparation	Approved phasing plan Approved of CEMP prior to start of construction Approved SWMP prior to start of construction
MW-10	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the construction phase of the Proposed Development.	<p>Section 7.9 Waste management and resource use of the CoCP Part A to be followed for minimising and managing waste through preparation of CEMP, SWMP</p> <p>Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.</p>	Construction	Sections 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved of CEMP prior to start of construction Approved SWMP prior to start of construction Approved phasing plan Approved of CEMP Approved SWMP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).		
MW-11	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a SWMP, Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including emergency response measures including stopping works, training of staff, use of spill response equipment.</p> <p>Approval and implementation of a Site Waste Management Plan</p>	Construction	Sections 4,4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved of CEMP prior to start of construction Approved SWMP prior to start of construction
	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		The management of impacts relating to the handling of potentially hazardous waste as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, sets out a framework for the control of flood risk during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an appended plan to/as part of the CEMP.	Construction	Sections 4,4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved of CEMP prior to start of construction
MW-12	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of inert waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the operation of the proposed WWTP.	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Operation	Sections 4,4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Waste (England and Wales) Regulations 2011 (as amended)	Waste (England and Wales) Regulations 2011 (as amended)	Approved phasing plan Approved of CEMP prior to start of construction Approved SWMP prior to start of construction Approved phasing plan Approved of CEMP
MW-13	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		Operating in accordance with the environmental permit, including the associated EMS procedures, to appropriately manage wastes generated during the treatment process within the proposed WWTP.	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Approved management plans and procedures as part of environmental permitting process EMS including operational procedures for waste management, spill response, emergency

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
								response and pest control in place prior to start of operation.
MW-14	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of non-hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the operation of the proposed WWTP.	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Operation	Waste (England and Wales) Regulations 2011 (as amended) Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Waste (England and Wales) Regulations 2011 (as amended)	Duty of care requirements under the Waste (England and Wales) Regulations 2011 (as amended). Approved management plans and procedures as part of environmental permitting process EMS including operational procedures for waste management, spill response, emergency response and pest control in place prior to start of operation.
MW-15	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		Operating in accordance with the environmental permit, including the associated EMS procedures, to appropriately manage wastes generated during the treatment process within the proposed WWTP.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Approved management plans and procedures as part of environmental permitting process EMS including operational procedures for waste management, spill response, emergency response and pest control in place prior to start of operation.
MW-16	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		Sludge will produce an 'Enhanced Treated Biosolids' product produced by the Proposed WWTP will be used as bio-fertilizer and spread on land.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Approved management plans and procedures as part of environmental permitting process EMS including operational procedures for waste management, spill response, emergency response and pest control in place prior to start of operation.
MW-17	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16)	Proposed WWTP and Waterbeach Pipeline	Production of hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Operation	Compliance with the Waste (England and Wales) Regulations 2011 (as amended) Chapter 2 Project Description , Section 5 Operation and	Waste (England and Wales) Regulations 2011 (as amended)	Duty of care requirements under the Waste (England and Wales) Regulations 2011 (as amended).

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary		operation of the proposed WWTP.			Maintenance, Operational environmental management (App Doc Ref 5.2.2)		
MW-18	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		Operating in accordance with the environmental permit, including the associated EMS procedures, to appropriately manage wastes generated during the treatment process within the proposed WWTP.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Approved management plans and procedures as part of environmental permitting process EMS including operational procedures for waste management, spill response, emergency response and pest control in place prior to start of operation.
MW-19	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Decommissioning with the existing Cambridge WWTP	Production of inert, non-hazardous and hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the decommissioning of the existing Cambridge WWTP	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Construction (Decommissioning)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)	Waste (England and Wales) Regulations 2011 (as amended).	Approved Phasing Plan Existing environmental permits and approval of Decommissioning Management Plan prior to the commencement of the works. Approved CEMP
MW-20	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Decommissioning with the existing Cambridge WWTP		Controls required by the existing environmental permit waste management, pest control, emergency response)	Construction (Decommissioning)	Integrated Environmental Permit Waste (England and Wales) Regulations 2011 (as amended)). Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	Integrated Environmental Permit Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	Approved Phasing Plan Existing environmental permits and approval of Decommissioning Management Plan prior to the commencement of the works. Approved CEMP
MW-21	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Decommissioning with the existing Cambridge WWTP		Implementation of the Decommissioning Management Plan. Management of decommissioning activities through application of measures within the outline Decommissioning Plan and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) which requires that the contractors to prepare a Decommissioning Plan (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of the decommissioning activities. All sludge would be removed from the tanks and sent to the Sludge Treatment Centre (STC) Recovery and appropriate disposal/recovery of unused process chemicals such as ferric chloride	Construction (Decommissioning)	Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3). Waste (England and Wales) Regulations 2011 (as amended)).	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning. Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	Approved Phasing Plan Decommissioning Management Plan prior to the commencement of the works. Approved CEMP

Noise and vibration

Table 2.12: Noise and vibration

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
NV-01	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed development, proposed WWTP and waterbeach transfer pipeline	Construction noise impacts from works at Shaft 4	Relocation of Shaft 4 to increase distance to work site from the nearest noise sensitive receptors.	Construction	Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12)Schedule 1	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and construction method statement
NV-02	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed development, proposed WWTP and waterbeach transfer pipeline	Construction noise impacts including works at Shaft 4 and the Outfall.	Measures to minimise noise impacts during construction are specified in section 7.7 (Noise and vibration) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and include the application of BPM in accordance within BS 5228-1 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. These measures include: <ul style="list-style-type: none"> • Restriction of working hours to avoid sensitive time periods for works at Shaft 4 and the Outfall. • Use of solid site hoarding/temporary acoustic barriers at Shaft 4, Waterbeach construction compound and around HDD pit locations/HDD plant during continuous working periods. 	Construction	Sections 7.7 (Noise and vibration), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Noise & Vibration Management Plan (NVMP) secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	An approved Phasing Plan. An approved CEMP prior to the commencement of the enabling phase. An approved Noise and Vibration Management Plan prior to the commencement of the enabling phase.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
NV-03	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed development, proposed WWTP and waterbeach transfer pipeline	Noise from heavy vehicles on construction traffic routes	<p>Application of BPM in accordance within BS 5228 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within Section 7.7 (Noise and Vibration) of the CoCP, Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2.2) and include:</p> <ul style="list-style-type: none"> Implementation of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7). Restriction of working hours to avoid sensitive time periods and the use of solid sit hoarding/temporary acoustic barriers when required. <p>Approval and implementation of a Noise & Vibration Management Plan.</p>	Construction	<p>Sections 7.7 (Noise and vibration), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7), secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a NVMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	<p>An approved Phasing Plan.</p> <p>An approved CEMP prior to the commencement of the enabling phase.</p> <p>An approved CTMP prior to commencement of the enabling phase.</p> <p>An approved Noise and Vibration Management Plan prior to the commencement of the enabling phase.</p>
NV-04	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed development, proposed WWTP and waterbeach transfer pipeline	Construction vibration during works	<p>Application of BPM in accordance with BS 5228-2 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within section 7.7 (Noise and vibration) of the CoCP, Part A (Appendix 2.1, App Doc Ref 5.4.2.1). Measures to minimise vibration impacts include:</p> <ul style="list-style-type: none"> use of low vibration sources of equipment. building condition surveys are undertaken prior to construction works at any sensitive buildings, including historic or listed buildings 	Construction	<p>Requirement within Schedule 2 to implement the CoCP and develop a detailed Noise and Vibration Management Plan as outlined in Section 7.7, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Construction</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	<p>An approved Phasing Plan.</p> <p>An approved CEMP prior to the commencement of the enabling phase.</p> <p>An approved Noise and Vibration Management Plan prior to the commencement of the enabling phase.</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a NVMP secured through a requirement of the draft DCO (App Doc Ref 2.1).		
NV-054	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed WWTP	Operational noise	Mitigation through design (location, layout, landscaping and e Earth b Bank, plant and equipment selections, enclosures and additional attenuation).	Operation	Operational limits and monitoring obligations secured through Environmental Permit Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of construction
NV-065	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed WWTP	Operational noise	Operational noise management plan/noise management procedures within Environmental Management System (EMS)	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.	Integrated Environmental Permit	Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.

Odour

Table 2.13: Odour

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
O0-1	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Odour emission from transportation of seed sludge and commencement of biological processes with the proposed WWTP during testing and commissioning	<p>During this period the existing Cambridge WWTP and the proposed WWTP will have active treatment processes as part of the design:</p> <ul style="list-style-type: none"> Covered reception areas at the terminal pumping station, inlet works and sludge tanks Low turbulence processes Venting of air from TPS, inlet and sludge tanks through the odour control plant Odour control facilities will be critical equipment to operate continuously in all conditions and supplied with an uninterruptible power supply UPS Transport seed sludge in sealed tankers and pumped into the tanks through a closed process <p>Management of impacts will be managed through the following design measures as described in Section 7.8 (Air quality) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) which requires site inspections by the person accountable for odour issues on site to minimise the risk of causing nuisance and/or loss of amenity, and Part B (App Doc Ref 5.4.2.2) relating to testing and commissioning which states that the frequency of site inspections should be increased when activities with a high potential to produce odour are being carried out, e.g., works during high temperature days. An inspection log should be kept and made available to the overseeing authority on request.</p>	Construction	<p>ES Chapter 2 Project Description, Sections 2.5 Odour control, and 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</p> <p>Section 7.8 CoCP Part A (App Doc Ref 5.4.2.1) Section 3 CoCP Part B (App Doc Ref 5.4.2.2)</p> <p>A requirement within Schedule 2 to implement Section 7.8 (Air quality) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (Application Document Ref 2.1).</p>	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Detailed design approved prior to the start of construction pre-construction Approved CEMP prior to start of testing and commissioning
O0-2	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Cumulative impact - Connection of the Waterbeach pipeline to the pumping station - Odour emissions from short-term tie-in works	<ul style="list-style-type: none"> Section 67.8, Air quality, of the CoCP Part A Measures within CoCP Part B setting out how potential odour impacts arising from activities associated with connecting into and diverting existing sewers will be managed. 	Construction	<p>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</p> <p>Sections 7.8 (Air quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the</p>	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						draft DCO (App Doc Ref 2.1). <u>CoCP Part B Section 3.4 (Appendix 2.1, App Doc Ref 5.4.2.2)</u>		
OO-3	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	<u>Existing Cambridge WWTP</u>	Odour release from breaking open existing sewer during connections - Odour emissions from short-term tie-in works	Management of impacts will be managed through the following design measures as described in Section 7.8 (Air quality) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and the CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2): <ul style="list-style-type: none"> Use of air extraction system and a mobile odour filtration unit adjacent to the sewer shafts. Regular site inspections by the person accountable for odour issues on site to minimise the risk of causing nuisance and/or loss of amenity. 	Construction	A requirement within Schedule 2 to implement Section 7.8 (Air quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and secured through a requirement of the draft DCO (App Doc Ref 2.1). <u>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</u>	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)) <u>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</u>	Approved CEMP prior to start of construction
OO-4	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	<u>Existing Cambridge WWTP</u>	Connection of the Waterbeach pipeline to the existing sewer - Odour emission from short-term tie-in works	<ul style="list-style-type: none"> Use of air extraction system and a mobile odour filtration unit adjacent to the sewer shafts. Section 7.8 (Air quality - Construction odours) of the CoCP Part A (Application Document Ref 5.4.2.1). Measures within CoCP Part B (Appendix 2.2, Application Document Ref 5.4.2.2) setting out how potential odour impacts arising from activities associated with connecting into and diverting existing sewers will be managed. 	Construction	<u>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</u> <u>Sections 7.8 (Air quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</u> <u>CoCP Part B Section 3.4 (Appendix 2.1, App Doc Ref 5.4.2.2)</u> A requirement within Schedule 2 to implement Section	<u>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</u>	Approved CEMP prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						7.8 (Air quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and secured through a requirement of the draft DCO (App Doc Ref 2.1).		
<u>00-5</u>	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	<u>Decommissioning within the existing Cambridge WWTP</u>	Odour emission from draining and cleaning of the existing Cambridge WWTP waste water storage tanks and equipment	<ul style="list-style-type: none"> Transfer of the existing permit controls and odour management plan at the existing Cambridge WWTP to the proposed WWTP. Section 3.5 (Operational controls) OMP (Appendix 18.4, Application Document Ref 5.4.18.4). Removal of residual sludge via suction pump and taken offsite for treatment or treated onsite such as in a quick lime dosing plant. Implementation of Section 6 (Plant to be decommissioned), Decommissioning Management Plan (Application Document Ref 5.4.2.3). Use of odour suppression equipment, such as fogging/misting systems. Section 7.8 (Air quality), Construction odours of the CoCP Part A (Appendix 2.1, Application Document Ref 5.4.2.1). 	Construction	<p>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</p> <p>Requirement to comply with existing Cambridge WWTP environment permit</p> <p>Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Section 3.5 (Operational controls) of the OMP (Appendix 18.4, Application Document Ref 5.4.18.4).</p> <p>Section 7.8 (Air quality), Construction odours of the CoCP Part A (Appendix 2.1, Application Document Ref 5.4.2.1).</p>	<p><u>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.</u></p>	Approved CEMP prior to start of <u>construction</u> . Approved Decommissioning Management Plan prior to decommissioning start

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
O0-6	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Odour emission from normal operation of the proposed WWTP	Control measures will be in place as required by the IED permit and include operating in accordance with approved OMP, and having established emergency response procedures. The preliminary OMP (App Doc Ref 5.4.18.4) will outline operational odour management, monitoring and reporting measures, and controls to be in place in the event of an incident, record odour events and respond to complaints.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities and emergency response activities to accord with the requirements of the Environmental Permit. Section 7.8 (Air quality) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and the CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 19 (Odour management plan) which requires a detailed odour management plan that must be in accordance with the measures in the preliminary odour management plan and the principles and assessments set out in the relevant part of the environmental statement.	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.
O0-7	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP		Management of impacts will be managed through the following design measures as described in Section 7.8 (Air quality) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and the CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2): <ul style="list-style-type: none"> ● Covered reception areas at the terminal pumping station, inlet works and sludge tanks ● Low turbulence processes ● Venting of air from TPS, inlet and sludge tanks through the odour control plant ● Odour control facilities will be critical equipment to operate continuously in all conditions and supplied with a UPS 	Operation	ES Chapter 2 Project Description, Sections 2.3 Waste water treatment plant, 2.4 Sludge treatment centre, and 2.5 Odour control (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of pre-construction Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
O0-8	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	<u>Proposed WWTP</u>	Odour emission from biogas release to air (if required)	<p>Controls required by the IED permit such as operating in accordance with approved OMP, and having established emergency response procedures</p> <p>To minimise emissions to air during use and flare usage will be monitored under IED permit controls including detailed OMP (Appendix 18.4, App Doc Ref 5.4.18.4) outlining operational odour management, monitoring and reporting measures.</p>	Operation	<p>ES Chapter 2 Project Description, Section 2.4 Sludge treatment centre (App Doc Ref 5.2.2)</p> <p>Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4) Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities and emergency response activities to accord with the requirements of the Environmental Permit. Requirement to prepare detailed OMP based on preliminary OMP (Appendix 18.4, App Doc Ref 5.4.18.4)</p>	<u>DCO Schedule 2 Requirement 19 (Odour management plan) which requires a detailed odour management plan that must be in accordance with the measures in the preliminary odour management plan and the principles and assessments set out in the relevant part of the environmental statement.</u>	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.
O-9	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	<u>Proposed WWTP</u>	Short term odour release from deliveries	<p><u>Management of impacts will be managed through the following measures, as outlined in the preliminary OMP (App Doc Ref 5.4.18.4):</u></p> <ul style="list-style-type: none"> ● <u>Use of sealed vehicles for the delivery of waste water and sludge</u> <p><u>Covered reception areas receiving waste water and sludge deliveries</u> Management of impacts will be managed through the following measures, as outlined in the preliminary OMP (App Doc Ref 5.4.18.4):</p> <ul style="list-style-type: none"> ● <u>Use of sealed vehicles for the delivery of waste water and sludge</u> ● <u>Covered reception areas receiving waste water and sludge deliveries</u> 	Operation	<p>Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities and emergency response activities to accord with the requirements of the Environmental Permit. Requirement to prepare detailed OMP based on Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4)</p>	<u>DCO Schedule 2 Requirement 19 (Odour management plan) which requires a detailed odour management plan that must be in accordance with the measures in the preliminary odour management plan and the principles and assessments set out in the relevant part of the environmental statement.</u>	Approved Odour Management Plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
O0-10	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Odour emission from sludge tanker spill within the WWTP	Controls required by the IED permit such as operating in accordance with approved OMP (Application Document Ref 5.4.18.4), and having an established emergency response procedure. Management of impacts will be managed through the following measures, as outlined in the preliminary OMP (App Doc Ref 5.4.18.4): <ul style="list-style-type: none"> ● — Use of sealed vehicles for the delivery of waste water and sludge ● — Covered reception areas receiving waste water and sludge deliveries 	Operation	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities and emergency response activities to accord with the requirements of the Environmental Permit. Requirement to prepare detailed OMP based on Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4)	DCO Schedule 2 Requirement 19 (Odour management plan) which requires a detailed odour management plan that must be in accordance with the measures in the preliminary odour management plan and the principles and assessments set out in the relevant part of the environmental statement.	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.
O0-11	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Odour emission from release of cleaned effluent into water cycle	Design for aeration and effective mixing at outfall	Operation	ES Chapter 2 Project Description, Section 2.12 The Outfall (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to the start of construction
O0-12	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP		Controls required by the IED permit such as operating in accordance with approved preliminary OMP (App Doc Ref 5.4.18.4), and having established emergency response procedures. The preliminary OMP will outline operational odour management, monitoring and reporting measures, and controls to be in place in the event of an incident, record odour events and respond to complaints.	Operation	OMP (Application Document Ref 5.4.18.4) Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.
O0-13	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Short-term odour release from sewer air valves	To manage the release of air from the sewer air valves and reduce localized impacts, standard design will include valves to be installed below ground within the manhole chambers allowing intermittent small odour release below ground.	Operation	ES Chapter 2 Project Description, Section 2.8 Waterbeach pipelines (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design prior to the start of construction

Traffic and transport

Table 2.14: Traffic and transport

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-01	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing locations along all roads used as the construction route (that do not meet the criteria in IEMA rule 2)	Implementation of section 7.6, Traffic and transport , of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.	Construction	Schedule 2- Requirement to implement sSection 7.7 (Noise and vibration) CoCP Part A and B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2) Part A	<p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 26 which requires that no phase of the authorised development which includes a temporary closure to a public right of way is to commence until the undertaker has provided the relevant highway authority with a programme of closures for those public rights of way to be temporarily closed in that phase.</p> <p>Schedule 3 (Streets) of the draft DCO (App Doc Ref 2.1).</p>	<p>Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase</p> <p>Approval by the relevant street authority closures relevant to the phase</p>
TT-02	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Land required for the Proposed WWTP and part of the Waterbeach pipeline		Sequencing the proposed WWTP access road construction at the start of the programme so that it can be used in construction.	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2) Schedule 1- Requirement	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	<p>Approval of temporary highways connections design by the relevant planning authority prior to the start of construction Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase</p> <p>Approval of the permanent access design by the relevant planning authority prior to the start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-03	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Land required for the Proposed WWTP and part of the Waterbeach pipeline		Appropriate design of temporary connections from works areas to the road network in accordance with local highways standards	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2) Schedule 2 – Requirement to implement approved CTMP	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of temporary highways connections design by the relevant planning authority prior to the start of construction Approval of temporary highways connections design by CCC
TT-04	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Implementation of the CTMP in particular:</p> <ul style="list-style-type: none"> ● Section 6.3 (Adherence to Designated Routes) which specified that temporary Automatic Number Plate Recognition (ANPR) cameras will be installed at the following locations (subject to approval by Cambridgeshire County Council as the Local Highways Authority and any other relevant stakeholders): <ul style="list-style-type: none"> – On Horningsea Road, located immediately north and south of the A14 signalised junctions; and – North of Low Fen Drove Way to capture construction vehicles associated with temporary site access points COA3 ● Section 6.9 (Facilitate safe movement of users of the highway) which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works 	Construction	<p>Schedule 2 – Requirement to implement approved CTMP</p> <p>Section 6.3 (Adherence to Designated Routes) and Section 6.9 (Facilitate safe movement of users of the highway) of the CoCP Part A CTMP (Appendix 2.1, (App Doc Ref 5.4.19.7) App Doc Ref 5.4.2.1)</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase
TT-05	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods.	Construction	Construction Workers Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the detailed construction environment management plan to be accompanied by a detailed construction worker transport plan which must accord with the measures set out in the construction worker travel plan (App Doc Ref 5.4.19.9)	Approved CEMP and accompanying CWTP prior to commencement of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-06	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing certain locations for pedestrians and cyclists travelling along Long Drive, Bannold Drive, Burgess's Drive, Fen Road.	<ul style="list-style-type: none"> Implementation of section 7.7 of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic controlAs for TT-01 	Construction	Schedule 2 – Requirement to implement section 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase
TT-07	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> Appropriate design of temporary connections from works areas to the road network in accordance with local highways standardsAs for -TT-03 	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2) Access and Traffic Regulation Order Plans (App Doc Ref 4.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7) DCO Schedule 2 Article 16 (Temporary Speed Limits)	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase Approval of temporary closure or alterations from the relevant street authority prior to the start of works
TT-08	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Implementation of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) in particular: <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 6.9 (Facilitate safe movement of users of the highway) which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works Section 6.9 avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works Section 7.2 (Monitoring strategy) of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the 	Construction	Section 6.3 (Adherence to Designated Routes), and Section 6.9 (Facilitate safe movement of users of the highway), of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section and 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CEMP and accompanying CTMP and CoCP Part A and Part B prior to the commencement of the construction phase of the Waterbeach pipeline including specific arrangements made with the developer of the Waterbeach Station relocation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>Proposed Development, this will include the following:</p> <ul style="list-style-type: none"> - Documented pre-commencement meetings with the site management team as a contractual requirement; - Active traffic management; and - <u> </u> FORS and CLOCS accreditation 				
TT-09	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Waterbeach pipeline - Burgess's Drive, Bannold Drive and Bannold Road as well as Clayhithe Road		Implementation of the CTMP Section 6.9 (Facilitate safe movement of users of the highway) (Appendix 19.7, App Doc Ref 5.4.19.7) requirement for speed restrictions to Burgess's Drive, Bannold Drive and Bannold Road as well as Clayhithe Road will be put in place in accordance with the Temporary Traffic Regulation Order set out in Article 16 of the DCO	Construction	Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	<p>Approval of the CEMP and accompanying CTMP and CoCP Part A and Part B prior to the commencement of the construction of the Waterbeach pipeline including specific arrangements made with the developer of the Waterbeach Station relocation</p> <p>Approval of temporary closure or alterations from the relevant street authority prior to the start of works</p>
TT-10	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	- Waterbeach pipeline - Burgess's Drive, Bannold Drive and Bannold Road, Denny End Road, Clayhithe Bridge, Long Drive, Cambridge Road, Chapel Street, Station Road		<p>Section 6.9 of the CTMP (Facilitate safe movement of users of the highway (including NMUs)) (Appendix 19.7, App Doc Ref 5.4.19.7) which requires junction widening at:</p> <ul style="list-style-type: none"> • Bannold Road / Bannold Drive • Bannold Road / Burgess's Drive • Burgess's Drive <p>Section 6.9 of the CTMP (Facilitate safe movement of users of the highway (including NMUs)) which requires temporary widening measures for vehicle passing at:</p> <ul style="list-style-type: none"> - <u> </u> Denny End Road - <u> </u> Bannold Road - <u> </u> Bannold Drive - <u> </u> Clayhithe Bridge - <u> </u> Long Drive - <u> </u> Cambridge Road - <u> </u> Chapel Street - <u> </u> Station Road 	Construction	Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p>	<p>Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline</p> <p>Approval of temporary closure or alterations from the relevant street authority prior to the start of works</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-11	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods. As for TT-05 	Construction	Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the detailed construction environment management plan to be accompanied by a detailed construction worker transport plan which must accord with the measures set out in the construction worker travel plan (App Doc Ref 5.4.19.9)	Approval of the CTMP and accompanying CWTP and CoCP Part A and Part B prior to the commencement of the construction phase
TT-12	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion	Construction	Section 3 (Community & Stakeholder Engagement) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.2 Community Liaison Officer, Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline Appointment of CLO prior to the start of construction
TT-13	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following:</p> <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation 	Construction	Section 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase including specific arrangements made with the developer of the Waterbeach Station relocation
TT-14	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Implementation of section 7.6, Traffic and transport, of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control	Construction	Schedule 2— Requirement to implement ss Section 7.7-6, Traffic and transport (Noise and vibration) of the CoCP Part A and B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1) and 5.4.2.2) Part A	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7) Schedule 3 (Streets) of the draft DCO (App Doc Ref 2.1).	Approval of the CTMP prior to the commencement of the construction of the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-15	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p><u>Implementation the Construction Traffic Management Plan, including:</u></p> <ul style="list-style-type: none"> Section 4.2 (Local routeing and site plant vehicle routeing) of the CTMP (Access route strategy) which identifies the off and on slip of the A14 as a potential conflict area which may require traffic marshalling during peak hours. Furthermore, requirement of Section 4.2 that all deliveries will be made outside of peak hours (8am-9am and 3-4pm) unless it is determined to be essential that the delivery is to be completed during peak hours. Requirement of Section 4.2 that all deliveries will be made outside of peak hours (8:00-9:00, 15:00-16:00, and 17:00-18:00) unless it is determined to be essential that the delivery is to be completed during peak hours. Section 6.5 (Delivery scheduling) of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks Section 6.4 (VehicleVehicle scheduling) of the CTMP (Vehicle Scheduling) which requires adherence to works hours Section 7.2 (Monitoring strategy) of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> - Documented pre-commencement meetings with the site management team as a contractual requirement; - Active traffic management; and - FORS and CLOCS accreditation section 7.7 of the CoCP Part A and B (Application Doc Ref: 5.4.2.1) Part A (Traffic and Transport) which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period. 	Construction	Schedule 2 – Requirement to implement approved Sections 4.2, 6.4, 6.5, 7.2 and 7.7 of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	<u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</u>	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction of the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-16	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-02 Sequencing the proposed WWTP access road construction at the start of the programme so that it can be used in construction. 	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2) Schedule 1/Requirement	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Phasing plan approved prior to start of construction Road design approved prior to start of construction
TT-17	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-03 Appropriate design of temporary connections from works areas to the road network 	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2) Schedule 2— Requirement to implement approved CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Road connection design approved by CCC prior to the start of construction
TT-18	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods. As for TT-05 	Construction	Schedule 2— Requirement to implement approved CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) Construction Worker Travel Plan (CWTP) (App Doc Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the detailed construction environment management plan to be accompanied by a detailed construction worker transport plan which must accord with the measures set out in the construction worker travel plan (App Doc Ref 5.4.19.9)	Approval of the CEMP and CWTP prior to the commencement of the construction of the Waterbeach pipeline Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction of the Waterbeach pipeline
TT-19	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak.	<p>Implementation of Measures within:</p> <ul style="list-style-type: none"> Section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control. Implementation of the CTMP in particular <ul style="list-style-type: none"> Section 6.3 (Adherence to Designated Routes) section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks 	Construction	Schedule 2— Requirement to implement CoCP Part A and B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2) Part A and the Section 7.7 of the CoCP Part A (App Doc Ref 5.4.2.1) Sections 6.3, 6.4 & 7.7 of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction of the Waterbeach pipeline Approval of temporary alterations from the relevant street authority prior to the start of works

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours 				
TT-20	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation As for TT-13 	Construction	Schedule 2— Requirement to implement approved CTMP based on the Section 7.2 of the CTMP (Appendix 19.7, App Doc Ref: 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction of the Waterbeach pipeline
TT-21	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods. As for TT-05 	Construction	Schedule 2— Requirement to implement approved CWTP based on outline CWTP (Appendix 19.9, App Doc Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the detailed construction environment management plan to be accompanied by a detailed construction worker transport plan which must accord with the measures set out in the construction worker travel plan (App Doc Ref 5.4.19.9)	Approval of the detailed CEMP and associated CWTP prior to the start of construction
TT-22	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts on driver delay at the A10 approach of the Milton Interchange in the PM peak	<p><u>Implementation of the CTMP, including:</u></p> <ul style="list-style-type: none"> section 6.5 (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation 	Construction	Schedule 2— Requirement to implement approved Sections 6.4, 6.5, and 7.2 of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase
TT-23	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary delay to users of PRow due to gated controlled access on PRow intersected by works	Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are	Construction	Section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out	Approval of the CTMP and CoCP Part A and Part B and CLP prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary		corridor and construction activities	<p>maintained throughout the construction period including:</p> <ul style="list-style-type: none"> • communication of changes to access because of PRoW realignment or diversion • communication of construction activity, construction vehicle movements. • Requirement to appoint CLO • Requirement to implement approved CLP 		Through application of CLP and ongoing community liaison Community Liaison Plan (App Doc Ref 7.8)	in the community liaison plan (App Doc Ref 7.8)	
TT-24	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Implementation of section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures PRoW in particular:</p> <ul style="list-style-type: none"> • the requirement to maintain access through the use of safety gates to allow safely cross the construction working area. • the requirement to divert PRoW where no safe option exists to continue its use • the requirement to restore PRoW to the same condition as before the works took place 	Construction	Section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p> <p>DCO Schedule 2 Requirement 26 which requires that no phase of the authorised development which includes a temporary closure to a public right of way is to commence until the undertaker has provided the relevant highway authority with a programme of closures for those public rights of way to be temporarily closed in that phase.</p>	<p>Approval of the CEMP, CTMP and CLP prior to the commencement of the diversions</p> <p>Approved closures according to the phase from the relevant highways authority</p>
TT-25	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Land required for the final effluent and storm pipes and outfall		<p>Temporary diversion of the PRoW 85/6 at the outfall works area using 85/8 and a temporary path to re-join the PRoW 85/6 upstream of the outfall works area. The CoCP Part A includes:</p> <ul style="list-style-type: none"> • a requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area which would allow users diverted on to the 85/8 to cross over the works to construct the treated effluent pipeline and join the temporary diversion back to the 85/6; and • a requirement for all PRoW to be restored to the same condition as before the works took place or to a standard which is acceptable to the Local Highway Authority which returns the paths to the same or better condition, so journey 	Construction	<p>Schedule 1/Requirement</p> <p>ES Chapter 2 Project Description, Section 3.4 Construction techniques and methodology, Connecting Infrastructure, and Waterbeach pipeline (App Doc Ref 5.2.2)</p> <p>Rights of Way Plans (App Doc Ref 4.6)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 26 which requires that no phase of the authorised development which includes a temporary closure to a public right of way is to commence until the undertaker</p>	<p>Detailed CEMP approved prior to the start of construction</p> <p>Approved diversion with the local PROW officer</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				quality is unaffected once the works have been completed.			has provided the relevant highway authority with a programme of closures for those public rights of way to be temporarily closed in that phase.	
TT-26	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse effect on pedestrians travelling along / crossing roads that are part of the construction route (that do not meet the criteria in IEMA rule 2)	Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access. As for TT-12	Construction	Section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approval to the CTMP prior to the commencement of the construction phase Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase
TT-27	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Implementation of section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.	Construction	Section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approval of temporary alterations from the relevant street authority prior to the start of works Approved CTMP prior to the start of construction
TT-28	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Sequencing the proposed WWTP access road construction at the start of the programme so that it can be used in construction. As for TT-02	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to the start of construction
TT-29	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Appropriate design of temporary connections from works areas to the road network As for TT-03	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Road connection design approved- by CCC prior to the start of construction
TT-30	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Implementation of the CTMP in particular: <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a 	Construction	Schedule 2 – Requirement to implement approved CTMP based on the Sections 5.2, 3.3 and 7.2 of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian crossing points and distances to destinations.</p> <ul style="list-style-type: none"> Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation 			construction traffic management plan (App Doc Ref 5.4.19.7)	
TT-31	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> Section 4.2 which recognises the potential conflict of site access point CA2/CA3 which will cross the existing footway / cycleway on the west side of Horningsea Road which may require marshalling during peak hours and/or traffic management measures to provide a safe crossing point for site traffic and pedestrians and cyclists Section 6.9 (Facilitate safe movement of users of the highway (including NMUs))which refers to site access point COA3, CA6, CA2/CA3 which indicates the majority of the highway works can be carried out under TM that maintains vehicular access on Horningsea Road, under temporary signal control. And requires that the existing footway / cycleway to the west of the Horningsea Road carriageway will be maintained at all times with suitable barriers separating the footway from the works. Section 6.9 (Facilitate safe movement of users of the highway (including NMUs))which requires that speed restrictions to Horningsea Road will be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in Article 16 of the DCO (the detail of which will be subject to agreement with Cambridgeshire County 	Construction	Section 4.2 (Local routeing and site plant vehicle routeing) and section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>Council and any other relevant stakeholders)</p> <ul style="list-style-type: none"> Section 4.2 which recognises the potential conflict of site access point CA2/CA3 which will cross the existing footway / cycleway on the west side of Horningsea Road which may require marshalling during peak hours and/or traffic management measures to provide a safe crossing point for site traffic and pedestrians and cyclists. 				
TT-32	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Sequencing the proposed WWTP access road construction at the start of the programme so that it can be used in construction to minimise use of Horningsea Road to access Low Fen Drove Way	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to the start of construction
TT-33	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following:</p> <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; ANPR cameras along Horningsea Road; Active traffic management; and FORS and CLOCS accreditationAs for TT-13 	Construction	Section 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	<p>Approval of temporary alterations from the relevant street authority prior to the start of works</p> <p>Approved CTMP prior to the start of construction</p>
TT-34	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of traffic management activities and management of safety concerns raised by the community, residents and businessesAs for TT-12. 	Construction	Section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	<p>Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline</p> <p>Appointment of CLO prior to the start of construction</p>
TT-35	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19)	Waterbeach pipeline - level crossings on Bannold Road and	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists	Implementation of the CTMP in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which	Construction	Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-3 Securing mitigation summary	Station Road in Waterbeach	travelling along Long Drove, Bannold Road, Burgess's Road, Fen Road	<ul style="list-style-type: none"> requires connectivity/access to community facilities and residential properties to be maintained during works. At the level crossings on Bannold Road and Station Road in Waterbeach, construction traffic, where necessary, should have restricted working hours, speed restrictions and the use of banks persons requires connectivity/access to community facilities and residential properties to be maintained during works. At the level crossings on Bannold Road and Station Road in Waterbeach, construction traffic, where necessary, should have restricted working hours, speed restrictions and the use of banks persons Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which includes a commitment to avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time and to adequately reinstate any areas of footpath affected by the works and to maintain the existing alignment/gradient as much as is practicable 		(Appendix 19.7, App Doc Ref 5.4.19.7)	construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	construction phase for the Waterbeach pipeline
TT-36	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Waterbeach pipeline - Burgess's Drove, Bannold Drove and Bannold Road and Clayhithe Road		Implementation of the CTMP in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which requires that speed restrictions Speed restrictions to Burgess's Drove, Bannold Drove and Bannold Road as well as Clayhithe Road to be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in Article 16 of the DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders)	Construction	Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7) Temporary Traffic Regulation Order set out in Article 16 of the DCO	Approved CTMP prior to the start of construction of the Waterbeach pipeline Approval of temporary alterations from the relevant street authority prior to the start of works
TT-37	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following:	Construction	Section 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the	Approved CTMP prior to the start of construction of the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditationAs for TT-13 			construction traffic management plan (App Doc Ref 5.4.19.7)	
TT-38	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of traffic managementAs for TT-12 activities and management of safety concerns raised by the community, residents and businesses. 	Construction	Section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline Appointment of CLO prior to the start of construction Appointment of CLO
TT-39	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists travelling along roads that are part of the construction route (that don't meet Rule 2)	<ul style="list-style-type: none"> Implementation of section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control and measures manage the impact upon users of the PRow during the construction period.As for TT-01 	Construction	Section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase Approval of temporary closure or alterations from the relevant street authority prior to the start of works
TT-40	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following:</p> <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditationAs for TT-13 	Construction	Section 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Approval of the CTMP prior to the commencement of the construction phase Approval of temporary closure or alterations from the relevant street authority prior to the start of works
TT-41	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing	Proposed WWTP and Waterbeach pipelineCoely Road		Section 4.2 of the CTMP which recognises the footpath/cycleway along Cowley Road is a potential conflict area which may require diversion and traffic management measures (subject to agreement with the LHA) for pedestrians and other NMUs.	Construction	Section 4.2 (Local routeing and site plant vehicle routeing) of the CTMP (Appendix	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the	Approval of the CTMP prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary					19.7, App Doc Ref 5.4.19.7	measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of temporary closure or alterations from the relevant street authority prior to the start of works
TT-42	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of traffic management activities and management of safety concerns raised by the community, residents and businesses. changes to access because of PRoW realignment or diversionAs for TT-12 	Construction	Schedule 2 – Requirement to implement CoCP Part A and B (Appendix 2.1 and 2.2 , App Doc Ref 5.4.2.1 and 5.4.2.2) Part A	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline Appointment of CLO prior to the start of construction
TT-43	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline, Cowley Road	Construction traffic leads to temporary increase in accidents and road safety / worsening of road user safety on Long Drove, Bannold Drove, Burgess's Drove, Fen Road	<p>Implementation of the CTMP in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which includes a commitment to avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time and to adequately reinstate any areas of footpath affected by the works and to maintain the existing alignment/gradient as much as is practicable. Section 6.9 -requires:</p> <ul style="list-style-type: none"> requires connectivity/access to community facilities and residential properties to be maintained during works. At the level crossings on Bannold Road and Station Road in Waterbeach, construction traffic, where necessary, should have restricted working hours, speed restrictions and the use of banks persons requires that speed restrictions to Burgess's Drove, Bannold Drove and Bannold Road as well as Clayhithe Road to be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in Article 16 of the DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders) 	Construction	<p>Schedule 2 – Requirement to implement approved CTMP based on the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)</p> <p>Sections 6.3 (Adherence to designated routes), 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) and 7.2 (Monitoring strategy) of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7)</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> requires temporary parking restrictions on Bannold Road junction with Denny End Road / Car Dyke Lane for the duration of the Waterbeach pipeline construction As for TT-13 As for TT-41 				
TT-44	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including:</p> <ul style="list-style-type: none"> communication of traffic management activities and management of safety concerns raised by the community, residents and businesses. communication of changes to access because of PROW realignment or diversion As for TT12 	Construction	Sections 3 (Community & Stakeholder Engagement), 4.4 (CEMP), and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline Appointment of CLO prior to the start of construction
TT-45	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Requirement within the CTMP for Principal Contractor(s) and sub-contractor vehicles arriving at the Proposed Development to comply with sufficient safety measures and requirements relating to the following schemes:</p> <ul style="list-style-type: none"> Fleet Operator Recognition Scheme (FORS) – Requires fleet operators to demonstrate that they are achieving exemplary levels of best practice in safety, efficiency, and environmental protection; and Construction Logistics & Community Safety (CLOCS) – Is a set of road safety requirements to be adopted during the construction period by the supply chain As for TT-13 	Construction	Schedule 2 – Requirement to implement approved CTMP based on the CTMP (Appendix Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase
TT-46	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> AS for TT-01 	Construction	Sections 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-47	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary increase in accidents and road safety / worsening of road user safety on the local road network (that do not meet rule 2)	<p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian Section 4.2 which recognises the footpath/cycleway along Cowley Road is a potential conflict area which may require diversion and traffic management measures (subject to agreement with the LHA) for pedestrians and other NMUs. Section 7.2 (Monitoring Strategy) which requires the Principal Contractor(s) to manage and operate a 'near miss' reporting system to ensure any accidents or near misses are recorded and investigated appropriately. Where relevant, accidents and near misses will be reported to relevant highways stakeholders by the CLO. 	Construction	Sections 4.2 (Local routeing and site plant vehicle routeing), 5.2 (Temporary access points and construction road signage), 6.3 (Adherence to designated routes), 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) and 7.2 (Monitoring strategy) of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase Approval of the CTMP and CoCP Part A and Part B prior to the commencement of the construction phase
TT-48	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Requirement within the CTMP for Principal Contractor(s) and sub-contractor vehicles arriving at the Proposed Development to comply with sufficient safety measures and requirements relating to the following schemes:</p> <ul style="list-style-type: none"> Fleet Operator Recognition Scheme (FORS) — Requires fleet operators to demonstrate that they are achieving exemplary levels of best practice in safety, efficiency and environmental protection; and Construction Logistics & Community Safety (CLOCS) — Is a set of road safety requirements to be adopted during the construction period by the supply chain. As for TT-13 	Construction	Schedule 2— Requirement to implement approved CTMP based on the CTMP (Appendix Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase
TT-49	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19)	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the	Temporary traffic control, design of temporary connections to the road network, sequencing the proposed WWTP access road construction. Implementation of the CTMP in particular Section 7.2 (Monitoring Strategy) which requires the	Construction	Schedule 2— Requirement to implement approved CTMP based on the CTMP	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management	Approval of the CEMP and accompanying CTMP prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-3 Securing mitigation summary		transportation of hazardous loads	Principal Contractor(s) to manage and operate a 'near miss' reporting system to ensure any accidents or near misses are recorded and investigated appropriately. Where relevant, accidents and near misses will be reported to relevant highways stakeholders by the CLO.		(Appendix 19.7, App Doc Ref 5.4.19.7)	plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP and CEMP
TT-50	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of abnormal loads	<p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> Section 7.2 (Monitoring Strategy) which requires the Principal Contractor(s) to manage and operate a 'near miss' reporting system to ensure any accidents or near misses are recorded and investigated appropriately. Where relevant, accidents and near misses will be reported to relevant highways stakeholders by the CLO. As for TT-49 Section 4.2 (Local routeing and site plant vehicle routeing) which requires <ul style="list-style-type: none"> abnormal loads to have specific measures including appropriate vehicle escort and marshalling where required and timing of movement to be outside peak hours (i.e., school start and finishing times). all deliveries will be made outside of peak hours (8:00-9:00, 15:00-16:00, and 17:00-18:00) unless it is determined to be essential that the delivery is to be completed during peak hours. section 6.3 (Adherence to Designated Routes) and section 6.9 (Facilitate safe movement of users of the highway (including NMUs) requirement to provide connectivity/access to community facilities and residential properties during works. 	Construction	Sections 4.2 (Local routeing and site plant vehicle routeing), 6.3 (Adherence to designated routes), and 7.2 (Monitoring strategy) of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approval of the CEMP and accompanying CTMP prior to the commencement of the construction phase
	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary		Operational vehicle movements and the presence of the new connection to the Horningssea Road junction leads to adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningssea Road	Permanent Automatic Number Plate Recognition (ANPR) cameras will be installed at the proposed Cambridge WWTP site access on Horningssea Road once the proposed Cambridge WWTP site access is operational (subject to approval by Cambridgeshire County Council as the Local Highways Authority and any other relevant stakeholders).	Operation	Schedule 1/ Requirement to install ANPR Schedule 2— requirement to monitor vehicle movements through use of ANPR	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Implement ANPR as approved by LPA

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-52	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP	Operational vehicle movements and the presence of the new connection to the Horningsea Road junction leads to adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	Inclusion within the design a pedestrian and cycle route and access to the proposed WWTP to be further developed by the Principal Contractor that includes <ul style="list-style-type: none"> Aa segregated pedestrian and cyclist access to the proposed WWTP Pp pedestrian island crossing on Horningsea Road and lighting extending from the junction to the crossing Aa new footway section on the east side of Horningsea Road south of the junction with Low Fen Drove Way. 	Operation	Schedule 1- Requirement to complete highway improvements related to Works Plan Schedule 2- Requirement to complete detailed design related to Works Plans 01 and 02 Requirement to obtain approval from LHA regarding highway WORKS Design Plans – Highways and Site Access (App Doc Ref 4.11) ES Chapter 2 Project Description, Section 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1 Preparation of approved operational plans a procedure prior to commencement of operation	Approval of detailed design prior to the start of construction
TT-53	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP		Management of vehicle movements through application of measures within operational traffic logistics plan including scheduling of deliveries and monitoring of vehicle movements such as through use of ANPR data or a geofence system.	Operation	ES Chapter 19 Traffic and Transport Table 5-3 (App Doc Ref 5.2.19) Outline Operation Logistics Traffic Plan (App Doc Ref 5.4.19.10)	DCO Schedule 2 Requirement 19 (Operational logistics traffic plan) which requires a detailed operational logistics traffic plan to be submitted for approval must accord with the measures set out in the outline operational logistics traffic plan. (App Doc Ref 5.4.19.10)	Approval of the Operational Logistics Traffic Plan prior to the start of operation
TT-54	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP	Operational traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of abnormal or hazardous loads	Controlled through the Operational Traffic Logistics Plan and requirements in relation coordination of vehicle movements in line with the regulations for notifying authorities of abnormal loads	Operation	Schedule 2- requirement to monitor imports/ exports Requirement to prepare detailed OLTP in alignment with the Outline Operation Logistics Traffic Plan (App Doc Ref 5.4.19.10)	DCO Schedule 2 Requirement 19 (Operational logistics traffic plan) which requires a detailed operational logistics traffic plan to be submitted for approval must accord with the measures set out in the outline operational logistics traffic plan. (App Doc Ref 5.4.19.10)	Approval of the Operational Logistics Traffic Plan prior to the start of operation Preparation of approved operational plans a procedure prior to commencement of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-55	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP	Operational traffic contributes to overall traffic and contributes to future delay	Implementation of Operational Worker Travel Plan to reduce vehicle movements to and from the proposed WWTP	Operation	<p>Schedule 2 – Requirement to appoint Travel Plan Coordinator as specified in outline OWTP (Appendix 19.8, App Doc Ref 5.4.19.8)</p> <p>Operational Workers Travel Plan (Appendix 19.8, App Doc Ref 5.4.19.8)</p>	<p>DCO Schedule 2 Requirement 12 (Operational workers travel plan) (App Doc Ref 2.1) which requires that no phase shall start a detailed operational works travel plan has been submitted to and approved in writing by the relevant planning authority. The detailed plan must accord with the outline operational worker travel plan (App Doc Ref 5.4.19.8).</p>	<p>Approval of the Operational Logistics Traffic Plan prior to the start of operation</p> <p>Approval of Operational Workers Travel Plan</p>

Water resources

Table 2.15: Water resources

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-01	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of deep excavations for the tunnel and associated shafts on groundwater flows, groundwater levels and groundwater quality within the Lower Greensand (Woburn Sands Formation) aquifer	Impacts from deep excavations will be avoided through the design which places the deepest elements of below ground structures so that will not penetrate the Lower Greensand.	Construction	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9) Design Plans - Buildings (App Doc Ref 4.10) Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)	Approved phasing plan Approved design prior to construction Preparation of a construction method statement to accord with the requirements of any related Environmental Permit (Abstraction).
WR-02	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to River Cam levels and flows close to and downstream of the crossing of the proposed waste water transfer tunnel from the existing WWTP to the proposed WWTP, and associated access shafts.	Impacts to river levels will be managed by: <ul style="list-style-type: none"> The use of trenchless techniques to install structures below the river-bed The setting of equipment launch and recovery equipment outside of the main river byelaw margin. 	Construction	Flood Risk Activities Permit Section 7.5 (Water resources and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP (App Doc Ref 5.4.2.7) secured through a requirement of the draft DCO (App Doc Ref 2.1). Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) of the CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved CEMP Preparation of a construction method statement to accord with the requirements of related Environmental Permit (Flood Risk Activities).

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-03	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to superficial and bedrock groundwater flows and levels, due to dewatering of open-cut trenches during the FE and stormwater pipeline installation	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1), in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> Minimising run-off and the risk of runoff reaching ditches and watercourses such as through the siting of launch and recovery pits associated with trenchless construction methods to be located a minimum of 8m from top of bank The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. Management of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit, whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refuelling of machinery to be undertaken within designated areas 	Construction	Section 7.5 (Water resources and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a CEMP (App Doc Ref 5.4.2.7) secured through a requirement of the draft DCO (App Doc Ref 2.1). Sections 4.4 CEMP, 5.7, Pollution Incident Control Plan, and 7.5 Water resources and flood risk (dewatering) (Appendix 2.1, App Doc Ref 5.4.2.1) Sections 4.4 CEMP, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval of the detailed design, construction risk assessment and method statement in relation to dewatering as secured through applicable Environmental Permit or working within a Regulatory Position Statement issued by	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Implementation of approved construction method statement to accord with the requirements of related Environmental Permit or working under Regulatory Position Statement (RPS) 261 issued by the Environment Agency Approved CEMP and associated sub-plans

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				(unless expressly stated within the CEMPs) where spillage can be more easily contained		the Environment Agency		
WR-04	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to groundwater abstractions due to dewatering of open-cut trenches during the FE and stormwater pipeline installation	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> — Minimising run-off and the risk of runoff reaching ditches and watercourses such as through the siting of launch and recovery pits associated with trenchless construction methods to be located a minimum of 8m from top of bank — The application of measures to prevent run-off from construction such as the use of cut-off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. — Management of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit, whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour — Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits — Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 	Construction	As above and Sections 4.4 CEMP, 5.7, Pollution Incident Control Plan, and 7.5 Water resources and flood risk (dewatering) (Appendix 2.1, App Doc Ref 5.4.2.1) Approval of the detailed design, construction risk assessment and method statement in relation to dewatering as secured through applicable Environmental Permit or working within a Regulatory Position Statement issued by the Environment Agency	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Implementation of approved construction method statement to accord with the requirements of related Environmental Permit or working under RPS 261 issued by the Environment Agency Approved CEMP and associated accompanying sub-plans relevant to the phase prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>and Dangerous Substances and Explosive Atmospheres Regulations 2002.</p> <ul style="list-style-type: none"> As for WR-03 Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 				
WR-05	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of excavation and backfill of final effluent and storm pipeline trenches on land drains and groundwater flow	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement the following measures in relation to groundwater flow:</p> <ul style="list-style-type: none"> a requirement within the CoCP Part B, section 3.4 which requires the backfilling of trenches with suitable materials, including the use of clay plugs or partitions if necessary to prevent preferential groundwater flow in backfilled trenches. 	Construction	<p>Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP (App Doc Ref 5.4.2.7) secured through a requirement of the draft DCO (App Doc Ref 2.1). Sections 4.4 CEMP, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p>	Approved phasing plan Implementation of approved construction method statement to accord with the requirements of related Environmental Permit or working under RPS 261 issued by the Environment Agency Approved CEMP and associated sub-plans
WR-06	ES Chapter 20: Water Resources	Proposed WWTP (including land required for		A requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected	Construction	<p>Sections 5.14 (Watercourses/drainage channels), and 7.5</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each</p>	<p>Approved phasing plan Approved CEMP and associated sub-plans</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	(App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	permanent access and landscape masterplan)		by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner.		(Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	prior to the start of construction
WR-07	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of dewatering during outfall construction on groundwater and surface water flows and levels	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) of Part A which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practise measures in relation to management of dewatering effects on groundwater including:</p> <ul style="list-style-type: none"> • Management of dewatering activities in accordance with Environment Agency specifications including rates and durations • Measures to control dewatering (such as ceasing, changing of pump rates) to be put in place if impacts on water flows/levels are identified 	Construction	<p>Approval of the detailed design, construction risk assessment and method statement in relation to outfall construction and dewatering as secured through applicable Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position Statement issued by the Environment Agency</p> <p>Section 5.13 (River work), and 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)</p> <p>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities).</p> <p>Approved CEMP prior to the start of construction</p> <p>Approval and implementation of an Outfall Management and Monitoring Plan</p> <p>Approved outfall management and monitoring plan required prior to the commencement of construction activities affecting the River Cam incorporating requirements within</p> <ul style="list-style-type: none"> • Environmental Permit (Flood Risk Activities) • Environmental Permit

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						requirement of the draft DCO (App Doc Ref 2.1); Outline OMMP (App Doc Ref 5.4.8.24)		(Discharge to surface water)
WR-08	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of cofferdam, used to maintain dry conditions during outfall construction, on water quality of the River Cam	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 and 2.2 App Doc Ref 5.4.2.1 and 5.4.2.2) in particular Part A section 4.4 which required the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into CEMP(s). These plans will include the requirement to implement best practise measures in relation to management of dewatering activities including: Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour The application of measures to prevent run-off from construction to the landside draining to the cofferdam such as the use of cut off drains, avoiding vegetation removal right up to the bank, minimising the areas at the bank that are disturbed/cleared, avoiding stockpiling of 	Construction	<p>Approval of the detailed design, construction risk assessment and method statement in relation to outfall construction and dewatering as secured through applicable Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position Statement issued by the Environment Agency</p> <p>Section 5.13 (River work), and 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring -management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities) Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approved CEMP Approval and implementation of an Outfall Management and Monitoring Plan Approved outfall management and monitoring plan required prior to the commencement of construction activities affecting the River Cam incorporating requirements within</p> <p> </p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				material close to the banks, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff.		Outline OMMP (App Doc Ref 5.4.8.24)		
WR-09	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to fluvial flood risk due to construction of the outfall and requirement for temporary in river works and works activities in the floodplain	<p>The management of water resources and flood risk as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, which sets out a framework for the control of flood risk during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an appended plan to/as part of the CEMP. This will include the following:</p> <ul style="list-style-type: none"> • Rrequirement to minimise construction period (for river works) • Rrequirement for the cofferdam to be designed to maintain the flood protection levels currently provided by the riverbank. • The timing of river works in summer months • Rrequirement for a flood management plan for construction works within areas at risk of flooding • Rrequirement to secure or relocation loose items within compounds, laydown or storage areas within flood zone 2 and 3 to prevent them becoming a debris hazard in a flood event or where practical removed from the flood zone if high rainfall within the catchment is predicted • Rrequirement for the Principal Contractor(s) to consult with the Environment Agency, IDB, Lead Local Flood Authority and any other relevant risk management authorities in respect of the flood risks in the preparation of the Emergency Preparedness Plan and Pollution Incident Control Plan. This will include use of the Environment Agency's Floodline flood warning service for works within areas at risk of flooding 	Construction	As above plus Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) of the CoCP Part B (App Doc Ref 5.4.2.2) in relation to completion of river works in summer months when water levels are expected to be lower, secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP and associated flood risk management plan Implementation of works to accord with the requirements of the Environmental Permit (Flood Risk Activities).
WR-10	ES Chapter 20: Water Resources (App Doc Ref 5.3.20)	Proposed WWTP (including land required for permanent access		Phasing of construction activities Section 3.1 of the CoCP Part B in relation to completion of in river works in summer months when water levels are expected to be lower	Construction	Section 3 (Site specific measures) CoCP Part B (Appendix 2.1, App	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)	Approved CEMP prior to start of construction Approved construction Outfall Management

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary	and landscape masterplan				Doc Ref 5.4.2.2)Section 3 (Site specific measures) CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2) OMMP (Application Document Reference 5.4.8.24)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring -management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24) Environmental permit	and Monitoring Plan prior to the start of construction Environmental permit in place prior to the start of temporary river works
WR-11	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of dewatering of the West Melbury Marly Chalk Formation to watercourses including the River Cam, Black Ditch and Quy Water, during construction of the TPS shaft	Management of dewatering on the availability of groundwater through the monitoring of water levels in available monitoring boreholes within the land required for proposed WWTP and landscape masterplan, for a period prior to, during and following all dewatering activities during construction at the proposed WWTP in order to inform management response should monitoring indicate a change in groundwater flows as a result of dewatering. Management responses may include but not be limited to reducing or ceasing dewatering, or amending dewatering points and would be agreed through consultation with the Environment Agency.	Construction	Requirement for a water monitoring plan to include specific provision for water quality monitoring at the specified location through a requirement of the draft DCO (App Doc Ref 2.1). Outline Water Quality Monitoring Plan (App Doc Ref 5.4.8.24) Sections 4.4 (CEMP), 7.5 (Water resources and flood risk - dewatering, management of silt during construction), and 5.7 (Pollution Incident Control Plan) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP App Doc Ref 2.1)	Approved phasing plan Implementation of works to accord with the requirements of the Environmental Permit (Flood Risk Activities/Water Discharges) or work within RPS261 issued by the Environment Agency Approved monitoring plan and programme prior to the start of construction Review and updated plan after year 1 of monitoring post construction
WR-12	ES Chapter 20: Water Resources	Proposed WWTP (including land	Impact of dewatering of West Melbury Marly Chalk	Management of dewatering on the changes to groundwater through:	Construction	Approval of the detailed design,	DCO Schedule 2 Requirement 9 (CEMP) which requires the	Approved phasing plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	(App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	required for permanent access and landscape masterplan	Formation on a surface water abstraction for agriculture (spray irrigation) in Black Ditch	<ul style="list-style-type: none"> • Maintaining regular contact with the owner of a nearby private borehole during construction and putting in place measures to maintain supply to the property if required. These will be outlined in the CEMP. • There will not be any dewatering to the Black Ditch itself. 		<p>construction risk assessment and method statement in relation to outfall construction and dewatering as secured through applicable Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position Statement issued by the Environment Agency</p> <p>Section 5.13 (River work) and 7.5 (Water resources and flood risk) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Community Liaison Plan (CLP) (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)</p>	<p>preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p>	<p>Approved CEMP and associated flood risk management plan Approved CLP Implementation of works to accord with the requirements of the Environmental Permit (Flood Risk Activities/Water Discharges) or work within RPS261 issued by the Environment Agency</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-13	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Monitoring of water levels in available monitoring boreholes within the land required for proposed WWTP and landscape masterplan, would be undertaken for a period prior to, during and following all dewatering activities during construction at the proposed WWTP in order to inform management response should monitoring indicate a change in groundwater flows as a result of dewatering. Management responses may include but not be limited to reducing or ceasing dewatering or amending dewatering points and would be agreed through consultation with the Environment Agency. <i>The scope of the monitoring including its duration will be agreed with all relevant stakeholders before commencement of works which could potentially impact the ditch.</i>	Construction	Outline Water Quality Monitoring Plan (App Doc Ref Requirement for a water monitoring plan to include specific provision for water quality monitoring at the specified location through a requirement of the draft DCO (App Doc Ref 2.1): 5.4.20.13)	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved phasing plan Approved monitoring plan and programme prior to the start of construction Review and updated plan after year 1 of monitoring post construction
WR-14	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of dewatering of the West Melbury Marly Chalk Formation on groundwater levels during construction of the TPS shaft	Management of dewatering on the availability of groundwater through the monitoring of water levels in available monitoring boreholes within the land required for proposed WWTP and landscape masterplan, for a period prior to, during and following all dewatering activities during construction at the proposed WWTP in order to inform management response should monitoring indicate a change in groundwater flows as a result of dewatering. Management responses may include but not be limited to reducing or ceasing dewatering, or amending dewatering points and would be agreed through consultation with the Environment Agency.	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13) Requirement for a water monitoring plan to include specific provision for water quality monitoring at the specified location through a requirement of the draft DCO (App Doc Ref 2.1): Sections 4.4 (CEMP), 7.5 (Water resources and flood risk), dewatering, management of silt during construction), and 5.7 (Pollution Incident Control Plan) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8) DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved phasing plan Approved monitoring plan and programme prior to the start of construction Review and updated plan after year 1 of monitoring post construction
WR-15	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing	Proposed WWTP (including land required for permanent access and landscape masterplan)		A no-derogation agreement will be made with the owner of the private groundwater source.	Construction	No derogation agreement Community Liaison Plan (CLP) (App Doc Ref 7.8) which is secured through a	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the	No derogation agreement in place Implementation of approved CLP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary					requirement in the draft DCO (App Doc Ref 2.1)	measures set out in the community liaison plan (App Doc Ref 7.8)	
WR-16	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of dewatering during construction of the TPS shaft on groundwater levels at nature conservation sites.	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) of Part A which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practise measures in relation to management of groundwater including: <ul style="list-style-type: none"> Management of dewatering activities in accordance with Environment Agency specifications including rates and durations 	Construction	Section 7.5 (Land quality) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Implementation of approved construction method statement to accord with the requirements of related Environmental Permit or Regulatory Position Statement issued by the Environment Agency
WR-17	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Measures to control dewatering (such as ceasing, changing of pump rates) to be put in place if monitoring of water levels in Black Ditch indicates adverse changes as result of dewatering during the TPS construction leads to significant effects to surface water bodies	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13) Requirement for a water monitoring plan to include specific provision for water quality monitoring at the specified location through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved phasing plan Approved monitoring plan and programme prior to the start of construction Review and updated plan after year 1 of monitoring post construction
WR-18	ES Chapter 20: Water Resources (App Doc Ref 5.3.20)	Proposed WWTP (including land required for permanent access)	Reduction in groundwater and surface water flows and levels due to dewatering in the West Melbury Marly Chalk Formation during	Monitoring of water levels in available monitoring boreholes within the land required for the landscape masterplan and at Black Ditch, Allicky Farm Pond CSW, and The Cut water body within Quy Fen SSSI pre, during and post-construction in	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13) Requirement for water level	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan	Approved phasing plan Approved monitoring plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary	and landscape masterplan	dewatering associated with the construction of below-ground structures and foundations, plus associated groundwater impact on nature conservation sites.	<p>order to inform management response should monitoring indicate a reduction in water levels as a result of dewatering.</p> <p>Management responses may include but not be limited to reducing or ceasing dewatering or amending dewatering points and would be agreed through consultation with the Environment Agency.</p> <p>Impacts to groundwater levels and surface water flows will be managed through the implementation of measures to maintain supply as required by agreement to be made with the owner of the private groundwater source.</p>		<p>management and monitoring plans to include specific provision for the specified locations through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Sections 4.4 (CEMP) para 4.4.4, 7.5 (Water resources and flood risk (dewatering, management of silt during construction)), and 5.7, Pollution Incident Control Plan, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Section 3 of CoCP Part B (-Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p> <p>DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)</p>	Review and updated plan once construction has ceased
WR-19	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		A no-derogation agreement will be made with the owner of the private groundwater source whereby Impacts to groundwater levels and surface water flows will be managed through the implementation of measures to maintain supply as required by agreement to be made with the owner of the private groundwater source.	Construction	No derogation agreement Community Liaison Plan (CLP) (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	No derogation agreement in place Implementation of approved CLP
WR-20	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impacts of spillages of potentially contaminating materials used in construction, and the potential for construction-related turbidity, giving rise to contamination of groundwater.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of 	Construction	Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Implementation of works to accord with the requirements of the Environmental Permit (Water Discharges) or work within RPS 261 issued by the Environment Agency

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff.</p> <ul style="list-style-type: none"> Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 		<p>requirement of the draft DCO (App Doc Ref 2.1); Sections 4.4 CEMP, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1);</p>		
WR-21	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		<p>No derogation agreement with owner of private groundwater source. Measures would be taken to maintain a supply in the unlikely event that the source was affected by dewatering.</p> <p>Monitoring of water quality in available monitoring boreholes within the land required for the landscape masterplan, would be undertaken for a period prior to, during and following all dewatering activities during construction at the proposed WWTP.</p> <p>Requirement for operational management and monitoring plans to include specific provision for water quality monitoring at the specified locations through a requirement of the draft DCO (App Doc Ref 2.1);</p>	Construction	<p>No derogation agreement Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13) Requirement for a water quality monitoring plan to include specific provision for water quality monitoring at the specified locations through a requirement of the draft DCO (App Doc Ref 2.1);</p>	<p>DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)</p>	<p>No derogation agreement Approved water quality monitoring plan</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-22	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impacts to surface water quality from spillages of contaminants and from discharges of silt-laden water from dewatering activities.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974') including:</p> <ul style="list-style-type: none"> • <u>Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits</u> • <u>The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff.</u> • <u>Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002.</u> • <u>Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained</u> • <u>Requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment</u> • <u>The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of</u> 	Construction	<p>Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Sections 4.4 CEMP, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p>	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved CEMP incorporating requirements within Environmental Permit (Discharge to surface water) and or within RPS, and appended water quality management plan, emergency response plan Approved construction risk assessment and method statement in relation to dewatering through applicable Environmental Permit (Water Discharge) or working within a Regulatory Position Statement issued by the Environment Agency

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff.				
WR-23	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Monitoring of water quality at Black Ditch- for a period prior to, during and following construction activities at the proposed WWTP in order to amend operational management activities in the event water quality decline is attributed to operational surface water drainage arrangements .	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13) Requirement for a water quality management and monitoring plan to include specific provision for water quality monitoring at the specified location through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved phasing plan Approved monitoring plan and programme prior to the start of construction Review and updated plan after year 1 of monitoring post construction
WR-24	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of construction sites increasing surface water flood risk by increasing surface water runoff during periods of heavy rainfall	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including: <ul style="list-style-type: none"> The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. 	Construction	Section 7.5 CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Sections 4.4 CEMP, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved phasing plan Approved CEMP incorporating requirements within Environmental Permit (Flood Risk Activities-) and appended water quality management plan, flood management plan, and emergency response plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						Sections 4.4 (CEMP) Para 4.4.4 within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) , 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)		
WR-25	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		<p>The management of water resources and flood risk as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, sets out a framework for the control of flood risk during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an appended plan to/as part of CEMP. This will include the following:</p> <ul style="list-style-type: none"> • Requirement to minimise the construction period for sections identified within the flood zone • The timing of river crossing works in summer months if possible • Requirements for a flood management plan for construction plan for construction works within areas at risk of flooding • Inclusion of dry access/egress routes for pedestrians from compounds • Requirement for any soil temporary stored within the flood zone, to include gaps to allow flood water to run through <p>Construction Water Quality Management Plan will be incorporated into the CEMP. These plans will set out requirements in construction areas to minimise impacts to the works and surrounding area from flooding and prevent any significant effects on the existing flood risk in the surrounding area.</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4 within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) , 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved phasing plan Approved CEMP incorporating requirements within Environmental Permit (Flood Risk Activities-) and appended water quality management plan, flood management plan, and emergency response plan
	ES Chapter 20: Water Resources (App Doc Ref 5.3.20)	Proposed WWTP (including land required for permanent access and landscape masterplan)		The management of water resources and flood risk as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, sets out a framework for the control of flood risk during	Construction	Section 7.5 CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a		Approved phasing plan Approved CEMP incorporating requirements within

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary			<p>construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an appended plan to/as part of CEMP. This will include the following:</p> <ul style="list-style-type: none"> — Requirement to minimise the construction period for sections identified within the flood zone — The timing of river crossing works in summer months if possible — Requirements for a flood management plan for construction plan for construction works within areas at risk of flooding — Inclusion of dry access/egress routes for pedestrians from compounds — Requirement for any soil temporary stored within the flood zone, to include gaps to allow flood water to run through <p>Construction Water Quality Management Plan will be incorporated into the CEMP. These plans will set out requirements in construction areas to minimise impacts to the works and surrounding area from flooding and prevent any significant effects on the existing flood risk in the surrounding area.</p>		<p>requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Sections 4.4 CEMP, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Sections 4.4 (CEMP) Para 4.4.4 within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1), 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)</p>		Environmental Permit (Flood Risk Activities) and appended water quality management plan, flood management plan, and emergency response plan
WR-26	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of wet testing of tanks and pipes within proposed WWTP on groundwater quality.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> ● Following industry standards in relation to testing activities /completion of visual inspections of equipment under test to 	Construction	Sections 4.4 (CEMP) Para 4.4.4 within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) , 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP and associated sub plans prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>check for signs of structural deficiency prior to commencement of testing activities</p> <ul style="list-style-type: none"> • Rrequirement for refuelling of machinery used in testing to be completed within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained • Mmeasures applied for the management of leaks and spillages such as use of drip trays under construction plant and equipment, provision of spill kits • Rrequirement for emergency response measures to be in place including stopping works, training of staff, use of spill response equipment 		<p>Section 7.5 CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). Sections 4.4 CEMP, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>		
WR-27	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Management of commissioning activities through application of measures within the outline Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors to prepare a Commissioning Plan (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of the wet commissioning activities.	Construction	<p>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).</p> <p>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2) Conditions relating to commissioning secured through Environmental Permit</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline commissioning plan (App Doc Ref 5.4.2.4)	Approved Commissioning Plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-28	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact on water quality in the River Cam when final effluent discharge transfers from the existing to the proposed WWTP.	Management of commissioning activities through application of measures within the outline Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors to prepare a Commissioning Plan.	Construction	Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4). ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2) Conditions relating to commissioning secured through Environmental Permit The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline commissioning plan (App Doc Ref 5.4.2.4)	Approved phasing plan Approved Commissioning Plan Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (and subsequent variations).
WR-29	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of accidental spills to groundwater quality while relocating rising mains and gravity sewers at the existing Cambridge WWTP	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including: <ul style="list-style-type: none"> Mmeasures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits Rrequirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. 	Construction	Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Sections 4.4 CEMP, Section 7.5 Water resources and flood risk and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP and associated sub plans

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> Requirement for refuelingrefuelling of machinery used for the works to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 				
WR-30	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		<p>Construction Water Quality Management Plan will be incorporated into the CEMP. These plans will set out requirements in construction areas to minimise impacts to and from the works from run-off, spills and leaks and prevent any significant effects on the existing flood risk in the surrounding area. Construction Water Quality Management Plan will be incorporated into the CEMP. These plans will set out requirements in construction areas to minimise impacts to and from the works from run-off, spills and leaks and prevent any significant effects on the existing flood risk in the surrounding area.</p>	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approval and implementation of a CEMP
WR-31	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to groundwater levels due to construction of interception shaft 1 and intermediate Shafts 2 and 3 within the existing WWTP.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> Mmanagement of dewatering activities associated with shaft construction in accordance with Environment Agency specifications including control of dewatering rates. Best practice measures applied for management of dewatering including control on rates agreed through regulator. <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to</p>	Construction	<p>Sections 7.5, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1). Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Sections 7.5 CoCP Part A, Water Resources and Flood Risk, Dewatering (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Sections 4.4 (CEMP) Para 4.4.4, 7.5 Water</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparationpreparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p> <p>Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the shafts as secured through applicable Environmental Permit (Abstraction).</p> <p>Conditions set out within an Environmental Permit that may be required in relation to dewatering activities associated with the construction of intermediate shafts</p>	<p>Approved phasing plan Approved CEMP and associated sub plans Implementation of approved construction method statement to accord with the requirements of related Environmental Permit or Regulatory Position Statement issued by the Environment Agency Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the shafts as secured through applicable Environmental Permit (Abstraction).</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>the prevention of impacts to controlled waters as (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974') including:</p> <ul style="list-style-type: none"> • Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits • Requirements for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. • Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained • Emergency response measures including stopping works, training of staff, use of spill response equipment • Management of dewatering to meet requirements of the -Environmental Permit required for dewatering including setting the rates and duration of dewatering activity to be informed by the detailed construction methods. 		resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)		
WR-32	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of accidental spills to groundwater quality while relocating rising mains and gravity sewers at the existing WWTP	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> • Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits • Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 	Construction	Sections 4.4 (CEMP) Para 4.4.4, 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved phasing plan Approved CEMP and associated sub plans prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p><u>and Dangerous Substances and Explosive Atmospheres Regulations 2002.</u></p> <ul style="list-style-type: none"> <u>Requirement for refueling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained</u> <u>Rigorous groundwater protection measures as outlined in CoCP and implemented in CEMP</u> 				
WR-33	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impact of excavation and backfill of Waterbeach pipeline trench on land drains and groundwater flow	<p>Management of excavation and backfill on drainage and groundwater through construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement the following measures in relation to groundwater flow:</p> <ul style="list-style-type: none"> <u>Aa</u> requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner. <u>Aa</u> requirement within the CoCP Part B, section 3.4 which requires the backfilling of trenches with suitable materials, including the use of clay plugs or partitions if necessary to prevent preferential groundwater flow in backfilled trenches. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 7.5 (Water resources and flood risk (dewatering)), and section 5.14 (Watercourses/drainage channels) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 7.5 CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Section 5.14 CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam)</p>	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved phasing plan Approved CEMP and associated sub plans prior to the start of construction n

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO		
WR-34	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impact to groundwater abstractions due to dewatering of open-cut trenches during Waterbeach pipeline installation	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> The application of measures to prevent run-off from construction on the landslide draining to the cofferdam such as the use of cut off drains, avoiding vegetation removal right up to the bank, minimising the areas at the bank that are disturbed/cleared, avoiding stockpiling of material close to the banks, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.13 (River work), and 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 5.13 (River work), and 7.5 (Water resources and flood risk) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)</p> <p>Approval of the detailed design, construction risk assessment and method statement in relation to outfall construction and dewatering as secured through applicable -Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position Statement issued by the Environment Agency</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p>	Approved phasing plan Approved CEMP and associated sub plans

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>CEMPs) where spillage can be more easily contained</p> <ul style="list-style-type: none"> Management of excavation and backfill on drainage and groundwater through: Robust design, construction and pressure testing of the Waterbeach pipeline which will mitigate against pipeline leakage during operation 				
	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines		<p>Management of impacts to surface water through application of design measures within the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12) (secured through requirements in the DCO), which sets out design requirements for surface water drainage including measures to avoid or minimise impacts to surface water run-off from the proposed WWTP:</p> <ul style="list-style-type: none"> Design of access road drainage to incorporate sustainable drainage features Inclusion of segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy 	Construction			
WR-35	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines		<p>In the unlikely event that the private supply from the groundwater source could be significantly affected, if required, measures would be taken to maintain a supply to the property. A requirement within the CoCP Part B in relation to a borehole approximately 210 metres from the pipeline, to maintain regular contact with the owner during construction and a requirement to maintain supply to the property if required. These will be outlined in the CEMP. A non-derogation agreement will be entered into with the owners at their request.</p>	Construction	<p>No derogation agreement</p> <p>Community Liaison Plan (CLP) (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)</p> <p>Sections 3.4 (Waterbeach pipeline) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p>	<p>No derogation agreement in place Implementation of approved CLP</p> <p>No derogations offered prior to start of construction</p> <p>Approved phasing plan</p> <p>Approved CEMP and associated sub plans prior to the start of construction</p>
WR-36	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impact of the Waterbeach transfer pipeline river crossings to the River Cam water quality and flow during construction of river crossings	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s).	Construction	Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) secured through a requirement of the	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the</p>	<p>Approved phasing plan</p> <p>Approved CEMP and associated sub plans prior to the start of construction</p> <p>Implementation of approved construction method</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>These plans will include the requirement to implement the following measures in relation to river crossings:</p> <ul style="list-style-type: none"> management of river crossings through the siting of launch and recovery pits associated with trenchless construction methods are located a minimum of 8m from top of bank or existing defence whichever is applicable. the use of trenchless techniques to install structures below the river-bed. 		<p>draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO</p>	<p><u>works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</u></p>	<p>statement to accord with the requirements of related Environmental Permit</p>
WR-37	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impacts to water quality in watercourses close to the Waterbeach pipeline due to discharge of fluids used for pipeline testing	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. The management of potential impacts associated with the disposal of pipeline testing fluids will be through: A requirement within the CoCP Part B for the use of clean water will be used for pressure testing. Chlorine will be removed prior to discharge according to associated Environmental Permit conditions Disposal to watercourse at controlled rates and locations as agreed with the Environment Agency and set out within 	Construction Construction	<p>Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO</p>	<p><u>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</u></p>	<p>Approved phasing plan <u>Approved detailed CEMP and accompanying sub-plans prior to the start of construction implementation of approved A-approved construction method</u> statement to accord with the requirements of related Environmental Permit or Regulatory Position Statement issued by the Environment Agency</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>conditions of the required Environmental Permit</p> <ul style="list-style-type: none"> Clean water will be used for pressure testing. Chlorine will be removed prior to discharge according to Environment Agency permit conditions. 				
WR-38	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP	The impact of treated effluent discharge (comprising final effluent and stormwater flows) from the proposed outfall on River Cam hydromorphology	<p>Direct impacts minimised by the following design measures:</p> <ul style="list-style-type: none"> scour protection included in design for outfall and riverbank to prevent local riverbed scour impacts design of the outfall structure, as informed by modelling, to control flow rates from the outfall Design measures to prevent or minimise scour and impacts from operation of the outfall are: Design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall; Flow rates controlled to be similar to existing outfall; Design of storm storage volumes and flow rates to meet regulatory requirements; Inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	<p>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approval and implementation of an Outfall Management and Monitoring Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2).</p> <p>Outline OMMP (Application Document Reference 5.4.8.24)The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.</p>	<p>Environmental Permit (Flood Risk Activities)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring -management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Preparation of accepted Outfall design and construction method statement secured through the Environmental Permit (flood risk activities)</p> <p>Approval and implementation of a detailed operational OMMP prior to the start of operation secured through a requirement of the draft DCO (App Doc Ref 2.1).</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-39	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Outfall		A requirement to prepare and implement and outfall management and monitoring plan covering the operation of the outfall to include a programme of routine visual inspection of both riverbanks downstream of the proposed outfall following a stormwater discharge event to inform the need for maintenance or repair measures as agreed with the Environment Agency.	Operation	Outline OMMP (Application Document Reference 5.4.8.24) Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities).	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring -management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	An approved Phasing Plan. An approved CEMP prior to the commencement of the enabling phase. An approved Outfall management and monitoring plan -prior to the commencement of the phase. Environmental Permit for a flood risk activity granted by the Environment Agency.
WR-40	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP	Impact of final effluent discharge from the proposed outfall on water quality for the River Cam	The management of effluent quality and storm spill impacts through: <ul style="list-style-type: none"> ● design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam ● design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes ● design of storm storage volumes and flow rates to meet regulatory requirements; ● inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9) Design Plans - Buildings (App Doc Ref 4.10) Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12) ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Operational limits and monitoring obligations secured through Environmental Permit The Environmental Permit will include conditions requiring management systems to cover operational monitoring, emergency responses and pollution prevention.	Integrated Environmental Permit	Approved monitoring plan as part of environmental permitting process EMS including operational procedures for monitoring , spill response, emergency response etc in place prior to start of operation. Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-41	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP – Outfall	Impact of final effluent and stormwater discharges to water levels in the River Cam and the potential for increasing fluvial flood risk	Robust design informed by modelling	Operation	Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13). Outfall CFD Report (App Doc Ref 5.4.20.7) Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the outfall as secured through applicable Environmental Permit (Flood Risk Activities). Outfall Management and Monitoring Plan (OMMP), (secured through Section 3 of the CoCP Part B) secured through a requirement of the draft DCO (App Doc Ref 2.1)	Integrated Environmental Permit DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	Preparation of a detailed design and method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approval and implementation of an approved Outfall Management and Monitoring Plan (OMMP)
WR-42	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP		WWTP will operate in accordance with the relevant effluent volume limit values which will be specified within a site-specific Environmental Permit	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) Operational limits and monitoring obligations secured through Environmental Permit The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.	Integrated Environmental Permit	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (and subsequent variations) <u>secured prior to the start of operation</u>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-43	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP	Impact of minor inflows of groundwater to shafts or outflow of waste water from the TPS shaft	Manged through robust design and implementation of approved construction methods for the permanent shafts including agreement of methods in relation to any required dewatering and associated regulatory requirements	Operation	The Environmental Permit in relation to dewatering activities will include conditions requiring management systems to cover abstraction rates and locations, emergency responses and pollution prevention. ES Chapter 2 Section 2.6 Wast wataer transfer tunnel and Section 3.4 Construction techniques and methodology (App Doc Ref 5.2.2)	Integrated -Environmental Permit	Phasing plan Approved detailed design and construction method statements <u>prior to the start of construction</u> n <u>Dewatering permits in place prior to the start of construction</u>
WR-44	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of water levels and quality in available monitoring boreholes within the land required for the landscape masterplan, would continue throughout operation.	Operation	Outline water quality monitoring plan (App Doc Ref 5.4.20.13) Requirement for operational management and monitoring plans to include specific provision for monitoring available monitoring boreholes within the land required for the landscape masterplan through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Preparation of an Approved water quality monitoring plan prior to the start of operation operational monitoring programme
WR-45	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP	Impact of below-ground structures and areas of hardstanding, on drainage in the WWTP, and recharge and groundwater in the aquifer.	Design measures to manage impacts to groundwater bodies: <ul style="list-style-type: none"> <u>segregated</u> drainage system in areas of potential contamination with the proposed WWTP. Detailed drainage design will determine area of permeable surfaces through which infiltration could occur. <u>management</u> of incidences of emergent groundwater through the surface water drainage design which would then become surface water and managed 	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved phasing plan Implementation of approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority Preparation of an operational monitoring programme as part of the written EMS to cover emergency

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				within the integrated drainage solution to incorporate a storage and attenuation feature within the landscape masterplan		Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2).		preparedness and response
WR-46	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Ongoing monitoring of groundwater levels will inform detailed drainage design	Operation	Requirement for water level monitoring plans at the specified locations through a requirement of the draft DCO (App Doc Ref 2.1).	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved water level monitoring plan and programme pre-construction
WR-47	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 4.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (version 1.2 or whatever guidance is current at the time of design) as well as the specific requirements for the detailed drainage design to: <ul style="list-style-type: none"> provide provide a segregated drainage system for the proposed WWTP in areas of potential contamination. a requirement for the design to include determine and a requirement for the design to include include provision for of the area of permeable surfaces within the land required for the landscape masterplan, access road and proposed WWTP through which infiltration could occur incorporate incidences of emergent groundwater which would then become surface water and managed within the integrated drainage solution to incorporate a storage and attenuation feature within the landscape masterplan 	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved phasing plan Approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority prior to the start of construction of the relevant phase according to the approved phasing plan Implementation of approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-48	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP	The impact to Black Ditch flows and abstractions due to drainage, reduction in aquifer recharge within the proposed WWTP and changes in infiltration in the area of the landscape masterplan.	Design measures to avoid or minimise impacts to groundwater / to prevent surface water run-off from the proposed WWTP: <ul style="list-style-type: none"> design of surface water drainage network within the proposed WWTP to include segregated drainage system in areas of potential contamination with the proposed WWTP design of access road drainage to incorporate sustainable drainage features design of the detailed surface water drainage will determine area of permeable surfaces through which infiltration could occur. 	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved phasing plan Implementation of Approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority prior to the start of construction of the relevant phase according to the approved phasing plan
WR-49	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP		Measures to minimise contamination through detailed surface water drainage design complying with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2 or whatever guidance is current at the time of design) as well as the specific requirements for the detailed drainage design to determine the area of permeable surfaces within the land required for the landscape masterplan, access road and proposed WWTP through which infiltration could occur.	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	
WR-50	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP		Monitoring of water quality at Black Ditch, the northernmost land drain connecting to Black Ditch, the attenuate pond receiving discharge from the drainage network -and at available monitoring boreholes within the land required for the landscape masterplan post-construction in order to amend operational management activities in the event water quality decline is attributed to operational surface water drainage arrangements .	Operation	Requirement for operational management and monitoring plans to include specific provision for water quality monitoring at the specified locations through a requirement of the draft DCO (App Doc Ref 2.1). Outline water quality monitoring plan (App Doc Ref 5.4.20.13)	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved monitoring plan and programme prior to the start of operation Review and updated plan after year 2 of monitoring

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-51	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP	Impact to residential receptors and surface drains which discharge to Black Ditch, due to surface water runoff from hard surfaces within the proposed WWTP	Management of impacts to surface water through application of design measures within the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12) (secured through requirements in the DCO), which sets out design requirements for surface water drainage including measures to avoid or minimise impacts to surface water run-off from the proposed WWTP: <ul style="list-style-type: none"> • Design of access road drainage to incorporate sustainable drainage features • Inclusion- of segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy 	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1) ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved phasing plan Approved detailed drainage design prior to the start of construction of the relevant phase according to the approved phasing plan
WR-52	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP		Management of impacts from leaks and spills in operation through the operational procedures in relation to materials storage controls, spill control measures, and emergency response procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) Operational limits and monitoring obligations secured through Environmental Permit The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.	Integrated Environmental Permit	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit. Environmental permit secured prior to start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-53	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP		Measures for continuous control of site activities during the -operation and maintenance of the proposed WWTP through operational procedures in relation to inspections and repair, asset condition assessment (such as checking the integrity of tanks, bunds and hard standing), materials storage controls, spill control measures, and emergency responses.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) Asset Management Plan (App Doc Ref 5.4.9.1)	Integrated Environmental Permit DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset Management Plan prior to the start of operation Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.
WR-54	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP	Impact of stormwater discharges on River Cam water quality	The management of effluent quality and storm spill impacts through: <ul style="list-style-type: none"> • Design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent (including nutrients) and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam • Design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes • Design of storm storage volumes and flow rates to meet regulatory requirements; • Inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision • Design of the proposed WWTP that allows for adaption to future changes in relation to storage provision • Design of the proposed WWTP provides improved stormwater management with fewer predicted stormwater and CSO discharge to the River Cam. 	Operation	ES Chapter 2 Project Description Sections 1.8 Waste water treatment overview, and 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) Operational limits and monitoring obligations secured through Environmental Permit	Integrated Environmental Permit	Environmental permit in place prior to start of operation Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation. Environmental permit secured / process technology approved
WR-55	ES Chapter 20: Water Resources (App Doc Ref 5.3.20)	Proposed WWTP Proposed WWTP		Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant	Operation	ES Chapter 2 Project Description Sections 1.8 Waste water treatment overview,	Integrated Environmental Permit	Environmental permit in place prior to start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary			Environmental Permit for the Proposed Development. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.		and 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) Operational limits and monitoring obligations secured through Environmental Permit The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.		Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation. Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.
WR-56	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP	Impact of spills or leaks migrating in groundwater through the West Melbury Marly Chalk Formation to surface drains connected to the Black Ditch watercourse	Robust design will ensure that all structures are fit for purpose and compliant with the relevant industry specifications and standards. Management of impacts to surface water through application of design measures within the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12) (secured through requirements in the DCO). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2 or whatever guidance is current at the time of design) as well as the specific requirements for the detailed drainage design to which sets out design requirements for surface water drainage including measures to avoid or minimise impacts to surface water run-off from the proposed WWTP: <ul style="list-style-type: none"> Design of access road drainage to incorporate sustainable drainage features Inclusion of segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy Detailed drainage design will determine the area of permeable surfaces within the 	Operation	Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Phasing plan Implementation of approved detailed design Implementation of approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				land required for the landscape masterplan, access road and proposed WWTP through which infiltration could occur.				
WR-57	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP		<p>Operation in accordance with environmental permit for the proposed WWTP including implementation of EMS which will include materials storage controls, spill control measures, emergency response procedures. Operational Management Plan will include regular inspection and repair regime of all tanks and areas with potential for hydrocarbon contamination such as bunds around fuel tanks and hardstanding.</p> <p>Measures for continuous control of site activities during the operation and maintenance of the proposed WWTP through operational procedures in relation to inspections and repair, asset condition assessment (such as checking the integrity of tanks, bunds and hard standing), materials storage controls, spill control measures, and emergency responses. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.</p>	Operation	<p>ES Chapter 2 Project Description Sections 1.8 Waste water treatment overview, and 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) Operational limits and monitoring obligations secured through Environmental Permit</p> <p>The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.</p> <p>ES Chapter 2 (Project Description), Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)</p>	Integrated Environmental Permit	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (and subsequent variations).
WR-58	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP Proposed WWTP		Monitoring of water quality at Black Ditch, the northernmost land drain connecting to Black Ditch, the attenuate pond receiving discharge from the drainage network and at available monitoring boreholes within the land required for the landscape masterplan post-construction in order to amend operational management activities in the event water quality decline is attributed to operational surface water drainage arrangements .	Operation	<p>Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13) Requirement for operational management and monitoring plans to include specific provision for water quality monitoring at the specified locations through a requirement of the draft DCO (App Doc Ref 2.1).</p>	<p>DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)</p>	<p>Approved monitoring plan and programme prior to the start of operation</p> <p>Review and updated plan after year 2 of monitoring</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-59	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impact of leakage from Waterbeach pipeline to groundwater quality	<p>Management of excavation and backfill on drainage and groundwater through:</p> <ul style="list-style-type: none"> <u>robust design, construction and pressure testing of the Waterbeach pipeline which will mitigate against pipeline leakage during operation</u> <u>a requirement within the CoCP Part B in relation to a borehole approximately 210 metres from the pipeline, to maintain regular contact with the owner during construction and a requirement to maintain supply to the property if required. These will be outlined in the CEMP. A non-derogation agreement will be entered into with the owners at their request.</u> 	Operation	<p>Sections 7.4 (Land quality), 7.5 (Water resources and flood risk) and 7.9 (Waste management and resource use), 7.11, 7.12 CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).</p> <p>WQMP, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (App Doc Ref 2.1)</p> <p>Section 3 (Site specific measures) of the CoCP Part B secured through a requirement of the draft DCO (App Doc Ref 2.1) Measures within no derogation agreement</p>	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)</p>	<p>Approved phasing plan Approved CEMP No -derogation agreement If required</p>

Major accidents and disasters

Table 2.16: Major accidents and disasters

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
MA-01	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	All project extent within safeguarding zone	Event risk – aviation hazards (buildings, solar and lighting installations)	Structures have been minimised to avoid the 55.82m Above Ordnance Datum (AOD) threshold indicated by the operators of Cambridge Airport. The Lighting Design Strategy (App Doc Ref 5.4.2.5) sets out the approach to lighting within the Proposed Development and seeks to minimise the introduction of new lighting features in operation. Measures include avoiding lighting along the access road, the use of timed downward pointing lighting in external carpark areas, the use of structures to reduce light spill.	Construction	Design Parameters of the draft DCO (App Doc Ref 2.1) Section 5 and 6 of the Lighting Design Strategy (App Doc Ref 5.4.2.5)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved lighting design prior to the start of construction
MA-02	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Project wide	Event risk – malicious damage or vandalism	Section 5.3, Site compound set up, security and fencing, of the CoCP Part A includes specific requirements in relation to site security and access controls. the main construction compounds are suitably signed and secured to protect against unauthorised entry in accordance with HSE standards. In the event of an incident occurring as a result of malicious damage or vandalism the Principal Contractor(s) would enact Emergency Response Plans required by Part A of the CoCP (section 5.6) (emergency procedures are developed in line ISO 14001 criteria and HSE standards). The CoCP Part A (App Doc Ref 5.4.2.1), Section 5.5, Fire prevention and control, requires the Principal Contractor(s) to have in place appropriate plans and management controls to prevent fires (in line with HSE standards).	Construction	Decommissioning Management Plan (App Doc Ref 7.18) Sections 5.6 (Emergency Procedures and Preparedness Plan) and 5.5 (Fire prevention and control) of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Approved CEMP prior to the start of construction
MA-03	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Project wide	Event risk – extreme events (storms and heat events)	Design To manage higher storm flows in the future and to continuously meet evolving permitting requirements, even in the case of low flow and future drought conditions, the Proposed Development will have capacity to add additional infrastructure including more storm storage, heat recovery, cooling system treatment infrastructure. The Drainage Strategy (App Doc Ref 5.4.20.12) sets out how future climate predictions will be accounted for within the final drainage design to minimise the risk of flooding to the proposed WWTP.	Construction	ES Chapter 22 Major Accidents and Disasters Table 2-1 (Design measures relating to major accidents and disasters adopted as part of the Proposed Development) (App Doc Ref 5.2.22). Drainage Strategy (App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved CEMP prior to the start of construction

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
MA-04	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	All project extent within safeguarding zone	Event risk – aviation hazard from presence of cranes, and tall construction equipment	Management of construction activities as described within the CoCP Part A(App Doc Ref 5.4.2.1) in particular section 5.15 (Cambridge Airport) and section 5.12 (Cranes and other temporary tall structures) including: <ul style="list-style-type: none"> the Principal Contractor(s) to notify the operator of Cambridge Airport prior to the erection or use on site of cranes and other tall structures (over 105m). Provide details of temporary lighting. Make any appropriate adjustments or additional safety measures into the CEMP(s) following this engagement. eCranes will be operated in accordance with the requirements of CAP1096. 	Construction	Section 5.15 (Cambridge Airport) and section 5.12 (Cranes and other temporary tall structures) of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP prior to the start of construction
MA-05	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk of land slip or earth bank failure	The earth bank will be designed and constructed according to industry best practice earthworks standards.	Construction	Design Code (App Doc Ref (7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to start of construction
MA-06	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - Earth bank		The earth bank would be designed to have effective drainage.	Construction	Drainage Strategy (App Doc Ref 5.4.20.12)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Detailed drainage design approved prior to start of construction
MA-07	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - Earth bank		Earth bank is subject to ongoing monitoring as part of the Landscape Ecology and Recreation Management Plan (LERMP) (App Doc Ref 5.4.8.14) which would be applied for 30 years as a minimum as part of the biodiversity net gain (BNG) obligation.	Construction	LERMP (App Doc Ref 5.4.8.14) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Detailed design approved prior to start of construction
MA-08	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - Earth bank		In the event that structural failure of the earth bank occurred the Applicant would implement operational management plans and procedures. The management plans and procedures will sit within the EMS required under the environmental permitting regime. Including enacting emergency response plans	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Environmental Permit secured prior to start of operation Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
								<u>management, spill response, and emergency response in place prior to start of operation.</u>
MA-09	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk – aviation hazards (Birdstrikes)	<p>Operation and maintenance activities required for the proposed WWTP would be subject to operational management plans and procedures. The management plans and procedures will sit within the EMS required under the environmental permitting regime. The Applicant will implement the EMS that will set out the responsibilities of the site management to control risks arising from the proposed WWTP during operations.</p> <p>The EMS will also include appropriate definitions of roles and responsibilities to ensure compliance with any conditions related to the requirement to manage risk from the Proposed Development including wildlife hazards (birdstrike) that may be associated with the proposed WWTP including landscaping.</p>	Operation	<p>ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2).</p> <p>Wildlife Hazard Management Plan (App Doc Ref 5.4.18)</p>	DCO Schedule 2 Requirement 24 (Operational Wildlife Hazard Management Plan) (App Doc Ref 2.1) which requires the preparation of a detailed operational wildlife hazard management plan which must accord with the measures set out in the wildlife hazard management (App Doc Ref 5.4.8.18)	Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.
MA-09	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - Earth bank	Event risk of land slip or earth bank failure	In the event that structural failure of the earth bank occurred the Applicant would implement operational management plans and procedures. The management plans and procedures will sit within the EMS required under the environmental permitting regime. Including enacting emergency response plans	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	<p>Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.</p> <p>Approved AMP prior to start of operation</p>
MA-10	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP – LNG storage area	Event risk- fire or explosion: storage of Liquefied Natural Gas (LNG)	<p>The design and installation of the storage facility would be in line with industry standards. Design features reducing the risk of damage to the LNG storage facility include:</p> <ul style="list-style-type: none"> • Siting controls and provision of adequate buffers to other infrastructure • The inclusion of lightning protection in accordance with industry standards • The inclusion of impact protection barriers around the storage facility • The inclusion and use of the correct level of intrinsically safe equipment and protective systems would minimise the available ignition sources in a flammable 	Operation	<p>ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22).</p> <p>Design Parameters of the draft DCO (App Doc Ref 2.1).</p>	Integrated Environmental Permit	Environmental Permit secured prior to start of operation

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
				atmosphere if there were to be a loss of LNG in the Proposed Development and reduce the risk of a major accident				
MA-11	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP – Digesters	Event risk- fire or explosion: anaerobic digester	<p>The design of the anaerobic digestors includes measures to manage the risk of a major accident and will be compliant with DSEAR.</p> <p>Specific design measures in relation to fire safety include:</p> <ul style="list-style-type: none"> • Gas and fire and leak detection systems to be installed into boiler house. • Inclusion of valves to allow controlled emergency release of gas. • Inclusion of emergency flare in design 	Operation	ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22). Design Parameters of the draft DCO (App Doc Ref 2.1)	Integrated Environmental Permit Compliance to DSEAR regulations	Environmental Permit secured prior to start of operation Detailed design approved prior to the start of construction of the relevant phase
MA-12	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		Area Classification will be completed for Hazardous Area Classification for Flammable Gases and Vapours in accordance with industry standards to comply DSEAR. Area classification is a method of analysing and classifying the environment where explosive gas atmospheres may occur. The main purpose is to facilitate the proper selection and installation of apparatus to be used safely in that environment, taking into account the properties of the flammable materials that will be present. Outputs will be used to define hazard zones within the facility and subsequently define the types of equipment permitted in specific zones as well as informing the development of operational control plans.	Operation	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9)	Integrated Environmental Permit Compliance to DSEAR regulations	Environmental Permit secured prior to start of operation Detailed design approved prior to the start of construction
MA-13	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - STC		The biogas holder is to be shielded from areas of frequent access of the general public by the earth bank. The gas holder is located over 300m from the A14 and approximately 800m from the nearest public dwelling.	Operation	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9)	Integrated Environmental Permit Compliance to DSEAR regulations	Detailed design approved prior to the start of construction
MA-14	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		To mitigation against an on-site incident, under the EMS and operation procedures development for the proposed WWTP, the operator will prepare and test emergency procedures for dealing with the consequences of a major accident. The management system is required to include the risk management measures specified in the HAZOP and DSEAR plans and cover planned maintenance (Environment Agency, 2022)	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit Compliance to DSEAR regulations	Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
								<u>response in place prior to start of operation.</u>
MA-15	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk- fire or explosion: battery storage	A cooling system which is designed to regulate temperatures within safe conditions to minimize risk of fire. The Proposed Development will have a monitoring system, fire and smoke detection. These will be linked to the site wide control system, which will be locally and remotely monitored.	Operation	ES Chapter 2 Section 2.10 Renewables infrastructure para 2.10.5 (App Doc REF 5.2.2) ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22). Design Parameters of the draft DCO (App Doc Ref 2.1)	Integrated Environmental Permit	Detailed design approved prior to the start of construction
MA-16	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		The EMS and operation procedures development for the proposed WWTP, the operator will prepare and test emergency procedures for dealing with the consequences of a major accident.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Environmental Permit secured prior to start of operation
MA-17	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		The drainage system includes a segregated system which would capture run-off from firefighting activities for treatment within the proposed WWTP. The Drainage Strategy (App Doc Ref 5.4.20.12) requires that the requirements of the Environment Agency Approach to Groundwater Protection (Environment Agency, 2018) are to be followed in relation to the detailed drainage design. Section 4.8 of the Drainage Strategy (App Doc Ref 5.4.20.12) sets out how the drainage design will align with the Approach to Groundwater Protection.	Construction	Drainage Strategy (App Doc Ref 5.4.20.12)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires that the detailed surface water drainage design will comply with the Drainage Strategy (Application Document Reference 5.4.20.12).	Detailed drainage design approved prior to start of construction
MA-18	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk – Compromised site security	Design measures include the earth bank as well as perimeter fencing, the use of surveillance equipment to monitor the facility, security-controlled access, and egress points. Physical security design measures following NSPA guidance (NSPA, 2023) will be incorporated to ensuring the site is secure from unauthorized personnel.	Construction	ES Chapter 2 Project Description section, 2.13 Further associated development and site-wide provisions, Fencing and security (App Doc Ref 5.2.2)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Detailed design approved prior to start of construction

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
						ES Chapter 22 Major Accidents and Disasters, Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22)		
MA-19	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		To mitigation against an on-site incident, under the EMS and operation procedures development for the proposed WWTP, the operator will prepare and test emergency procedures for dealing with the consequences of a major accident including those resulting from malicious attacks. Visitors to the Discovery Centre will be by appointment only.	Construction	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) Detailed design approved prior to start of construction	Detailed design approved prior to start of construction Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.
MA-20	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		Prevention of unauthorized users and devices from accessing the network will be through the use software security design measures as stated in the NCSC guidance (NCSC, 2023).	Construction	ES Chapter 2 Project Description section 2.13 Further associated development and site-wide provisions, Fencing and security (App Doc Ref 5.2.2)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)	Detailed design approved prior to start of construction
MA-21	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		In the event that a cyber attack was successful the operator- would implement operational management plans and procedures. The management plans and procedures will sit within the EMS required under the environmental permitting regime. Including enacting emergency response and pollution incident response plans.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Integrated Environmental Permit	Detailed design approved prior to start of construction
MA-22	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk – extreme events (storms and heat events)	To manage higher storm flows in the future and to continuously meet evolving permitting requirements, even in the case of low flow and future drought conditions, the Proposed Development will have capacity to add additional infrastructure including more storm storage, heat recovery, cooling system treatment infrastructure.	Construction	ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires that the detailed surface water drainage design will comply with the Drainage Strategy	Detailed drainage design approved prior to start of construction

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
				The Drainage Strategy (App Doc Ref 5.4.20.12) sets out how future climate predictions will be accounted for within the final drainage design to minimise the risk of flooding to the proposed WWTP.		Development (App Doc Ref 5.2.22). Drainage Strategy (App Doc Ref 5.4.20.12).	(Application Document Reference 5.4.20.12).	
MA-23	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk – aviation hazards (buildings, solar and lighting installations)	Structures have been minimised to avoid the 55.82m Above Ordnance Datum (AOD) threshold indicated by the operators of Cambridge Airport. The Lighting Design Strategy (App Doc Ref 5.4.2.5) sets out the approach to lighting within the Proposed Development and seeks to minimise the introduction of new lighting features in operation. Measures include avoiding lighting along the access road, the use of timed downward pointing lighting in external carpark areas, the use of structures to reduce light spill.	Construction	Design Parameters of the draft DCO (App Doc Ref 2.1) Lighting design strategy (App Doc Ref 5.4.2.5).	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Detailed lighting design approved prior to start of construction
MA-24	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Decommissioning activities within the existing Cambridge WWTP	Event risk - fire and explosion decommissioning digestors	Decommissioning works will be carried out by specialist contractors managed under measures within the Dangerous Substances and Explosive Atmosphere (DSEAR). Decommissioning would be subject to a Decommissioning Management Plan which is to be agreed with the Local Planning Authority. In the event of an incident occurring as a result of malicious damage or vandalism the Principal Contractor(s) would enact Emergency Response Plans required by Part A of the CoCP (section 5.6) (emergency procedures are developed in line ISO 14001 criteria and HSE standards). The CoCP Part A (App Doc Ref 5.4.2.1), Section 5.5, Fire prevention and control, requires the Principal Contractor(s) to have in place appropriate plans and management controls to prevent fires (in line with HSE standards).	Construction (Decommissioning)	Decommissioning Management Plan (App Doc Ref 7.18) Part A of the CoCP (App Doc Ref 5.4.2.1) Section 5.6 and Section 5.5, Fire prevention and control	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Detailed Decommissioning Management plan approved prior to start of construction (decommissioning) CEMP approved prior to start of decommissioning works
MA-25	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Decommissioning activities within the existing Cambridge WWTP	Event risk - major leaks (airborne substances)	Decommissioning works will be carried out by specialist contractors managed under measures within the Dangerous Substances and Explosive Atmosphere (DSEAR). Decommissioning would be subject to a Decommissioning Management Plan which is to be agreed with the Local Planning Authority. In the event of an incident occurring as a result of malicious damage or vandalism the Principal Contractor(s) would enact Emergency Response Plans required by Part A of the CoCP (section 5.6)	Construction (Decommissioning)	Decommissioning Management Plan (App Doc Ref 7.18) Part A of the CoCP (App Doc Ref 5.4.2.1) Section 5.6 and Section 5.5, Fire prevention and control	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	CEMP approved prior to start of decommissioning works

<u>Ref</u>	<u>Source</u>	<u>Measure applied to (part of the Proposed Development)</u>	<u>Description of impact</u>	<u>Mitigation measure</u>	<u>Phase</u>	<u>Reference document</u>	<u>Secured by</u>	<u>Trigger for the discharge of any related requirement</u>
				(emergency procedures are developed in line ISO 14001 criteria and HSE standards).				
<u>MA-26</u>	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	<u>Project wide</u>	Event risk – malicious damage or vandalism	<p>Section 5.3, Site compound set up, security and fencing, of the CoCP Part A includes specific requirements in relation to site security and access controls. the main construction compounds are suitably signed and secured to protect against unauthorised entry in accordance with HSE standards.</p> <p>In the event of an incident occurring as a result of malicious damage or vandalism the Principal Contractor(s) would enact Emergency Response Plans required by Part A of the CoCP (section 5.6) (emergency procedures are developed in line ISO 14001 criteria and HSE standards).</p> <p>The CoCP Part A (App Doc Ref 5.4.2.1), Section 5.5, Fire prevention and control, requires the Principal Contractor(s) to have in place appropriate plans and management controls to prevent fires (in line with HSE standards).</p>	<u>Construction (Decommissioning)</u>	<p><u>Decommissioning Management Plan (App Doc Ref 7.18)</u></p> <p><u>Section 5.6 and Section 5.5, Fire prevention and control of the CoCP Part A (App Doc Ref 5.4.2.1)</u></p>	<p><u>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.</u></p>	<p><u>Decommissioning Management Plan and CEMP approved prior to start of decommissioning works</u></p>

Cumulative effects

Table 2.17: Cumulative effects

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CE-01	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Cumulative effect to habitats and protected species as a result of construction of the Proposed Development and relocation of the Waterbeach station	CEMP to be prepared to coordinate with adjacent project such as Waterbeach station relocation Interface plan between the Proposed Development and the Waterbeach Station relocation project to ensure each project is managed so that neither project results in new or exacerbated impacts to habitats and that mitigation measures (habitat creation) remain effective	Construction	ES Chapter 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP prior to the start of construction
CE-02	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Cumulative effect on landscape and visual amenity, including lighting, as a result of construction of the Proposed Development and relocation of the Waterbeach station occurring concurrently	Interface plan CEMP- to be prepared to coordinate with adjacent projects to ensure that temporary construction works activities including compounds in close proximity do not result in new or worse temporary impacts to visual amenity including controls on lighting and the positioning / heights of temporary structures.	Construction	ES Chapter 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP prior to the start of construction
CE-03	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Cumulative traffic effects as a result of construction of the Proposed Development and relocation of the Waterbeach station occurring either concurrently or sequentially	Interface plan CEMP and associated CTMP to be prepared to coordinate between the Proposed Development with nearby developments such as and the Waterbeach Station relocation project to ensure each project is managed so that neither project results in new or exacerbated traffic and transport impacts and that mitigation measures remain effective and to align traffic control measures	Construction	ES Chapter 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction
CE-04	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Flood risk	CEMP to be prepared to coordinate with adjacent projects so that there and the Station relocation project to ensure temporary works areas, including compounds, do not result in an overall increase in flood risk	Construction	ES Chapter 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the	Approved CEMP prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	
CE-05	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Impacts on nationally and locally designated sites / habitats / protected species	CEMP to be prepared to coordinate with adjacent Requirement for interface plan between the Proposed Development projects such as and the Station relocation project to ensure that under the late start Waterbeach scenario there would be no disturbance to any areas used for species relocation by the station	Construction	ES Chapter 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21) Section 7.2 of the CoCP Part A (App Doc Ref 5.4.4.1) Section 3.4 of the CoCP Part B (App Doc Ref 5.4.4.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP, inclusion of reptile mitigation strategy approved prior to the start of construction
CE-06	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Existing Cambridge WWTP	Cumulative traffic effects as a result of construction of the Proposed Development and developments adjacent to the existing Cambridge WWTP occurring either concurrently or sequentially	CEMP and associated CTMP to be prepared to coordinate with nearby developments such as the Waterbeach Station relocation project to ensure each project is managed so that neither project results in new or exacerbated traffic and transport impacts and that mitigation measures remain effective and to align traffic control measures	Construction	ES Chapter 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction

Get in touch

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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/>