**Cambridge Waste Water Treatment Plant Relocation Project**
Anglian Water Services Limited

# Environmental Statement Appendix 2.6: Mitigation Tracker

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# 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 Background

1.2.1 The Applicant is proposing to build a modern, low carbon waste water treatment for Greater Cambridge on a new site area north of the A14 between Fen Ditton and Horningsea within the Cambridge drainage catchment area, to replace the plant on Cowley Road, hereafter referred to as the existing Cambridge Waste Water Treatment Plant (WWTP).

1.2.2 The relocation will enable South Cambridgeshire District Council and Cambridge City Council's long held ambition to develop a new low-carbon city district on Cambridge's last major brownfield site, known as North East Cambridge. The site is an important component of the First Proposals (preferred options) for the new Greater Cambridge Local Plan that were subject to public consultation in late 2021. The North East Cambridge Area Action Plan has also been agreed by the Councils in its Proposed Submission form and will be subject to public consultation prior to submission, once the Development Consent Order is determined. The relocation of the existing waste water treatment facility will enable this new district to come forward and deliver 8,350 homes, 15,000 new jobs and a wide range of community, cultural and open space facilities in North East Cambridge. Further details on this can be found in our Statement of Requirement (Application Document Reference 7.2) which was published in September 2019.

1.2.3 The relocation of the waste water treatment plant will also allow The Applicant to continue providing vital waste water services to customers across Cambridge and Greater Cambridge. The new plant will continue storing and treating storm flows and treating sludge to produce renewable energy. It will be designed to deal with a growing population. It offers the opportunity for a joined-up solution for treating waste water from Cambridge and Greater Cambridge, including Waterbeach. The proposal is for both waste water from the existing Waterbeach waste water

treatment plant and future flows from Waterbeach New Town to be treated at the proposed Cambridge waste water treatment plant.

1.2.4 The Proposed Development will be the first waste water project to seek a Development Consent Order that is not specifically named in the National Policy Statement (NPS). 'The Applicant' sought and obtained a direction from the Secretary of State under section 35 of the Planning Act 2008 ("the 2008 Act") that the project is to be treated as development of national significance.

## 1.3 The Proposed Development

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

1.3.2 A detailed description of the Proposed Development can be found in Chapter 2 of the Environmental Statement (App Doc Ref 5.2.2).

1.3.3 The purpose of the proposed WWTP will be to treat all waste water and wet sludge from the Cambridge catchment just as the existing Cambridge WWTP currently does, plus that from the growth indicated and being planned within the catchment in the Local Plan to 2041, with ability to expand beyond to deal with further growth.

1.3.4 As part of its statutory function, the Applicant operates the existing Cambridge WWTP. The existing Cambridge WWTP receives waste water from the Cambridge catchment either directly from the connected sewerage network or tankered to the plant from homes and businesses that are not connected. This waste water is then treated and the treated effluent discharged through an outfall to the nearby River Cam. The existing Cambridge WWTP is an integrated WWTP, as would be the Proposed Development. Integrated WWTP incorporate a sludge treatment function, in the form of a Sludge Treatment Centre (STC), which treats the sludge derived from the waste water from the catchment, and the "wet sludge" produced by other satellite plants which do not have integrated STC.

1.3.5 The Waterbeach New Town development lies to the north of Cambridge. When built out Waterbeach new town will comprise some 11,000 new homes along with associated business, retail, community and leisure uses. Waste water from Waterbeach will ultimately be treated by the proposed Cambridge WWTP once operational. However, the rate of development at Waterbeach New Town may require a new pipeline (rising main) to be built from Waterbeach to the existing Cambridge WWTP to allow treatment of waste water in advance of the proposed WWTP becoming operational. In that case, either a later connection would be made to the proposed WWTP from a point on the pipeline route, or flows diverted from the existing Cambridge WWTP via the transfer tunnel.

1.3.6 In summary the Proposed Development will comprise of:

- an integrated waste water and sludge treatment plant.
- a shaft to intercept waste water at the existing Cambridge WWTP on Cowley Road and a tunnel/ pipeline to transfer it to the proposed WWTP and terminal pumping station. Temporary intermediate shafts to launch and recover the micro-tunnel boring machine.
- a gravity pipeline transferring treated waste water from the proposed WWTP to a discharge point on the River Cam and a pipeline for storm water overflows.
- a twin pipeline transferring waste water from Waterbeach to the existing Cambridge WWTP, with the option of a connection direct in to the proposed WWTP when the existing works is decommissioned.
- ancillary 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.

# 2 Mitigation Tracker

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.

2.1.2 The table below sets out the relevant Environmental Statement topic chapter and the location within those chapters of where the mitigation can be found. The far right hand column of the table sets out the mechanism by which the mitigation has been secured within the DCO application.

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

**Table 2-1: Mitigation Tracker**

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
|---|---|---|---|---|
| Chapter 06: Agriculture and Soils | 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. | Manged through the soil quality and management mitigation measures which include, but are not limited to the following:<br>• 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);<br>• Soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic;<br>• Tracked/low ground pressure vehicles are used where possible throughout stripping and haulage to reduce structural damage through compaction;<br>• Soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and<br>• Stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows.<br>• Where possible land drains will be avoided (Section 5.14 of CoCP Part A).<br>• A detailed Soil Management Plan building on the outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) will be submitted to and approved by the LPA and will form part of a Construction Environmental Management Plan (CEMP)<br>The detailed plan will include provision for management and monitoring for a period of at least 5 years following construction . | Section 4.4 and 5.14, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)<br>Approval and implementation of a Construction Environmental Management Plan (CEMP) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1) |
| Chapter 06: Agriculture and Soils | 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 | 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. This may include management mitigation measures not limited to the following:<br>• 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);<br>• soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic;<br>• tracked/low ground pressure vehicles are used where possible throughout stripping and haulage to reduce structural damage through compaction;<br>• soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and<br>• stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows.<br>• where possible land drains will be avoided (Section 5.14 of CoCP Part A).<br>• a detailed Soil Management Plan building on the outline SMP (App Doc Ref 5.4.6.3) will be submitted to and approved by the | Section 4.4, Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1)<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Outline SMP (App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
|---|---|---|---|---|
| | | | LPA and will form part of a Construction Environmental Management Plan (CEMP).<br><br>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. | |
| Chapter 06: Agriculture and Soils | Table 5.2 - Securing Mitigation | 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 | Provision / reinstatement of land drainage through implementation of Section 5.14 of the CoCP Part A (Other watercourses / Drainage channels / Land drains). | Section 5.14, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) which is secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 06: Agriculture and Soils | 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 | Provision / reinstatement of land drainage through implementation of Section 5.14 of the CoCP Part A (Other watercourses / Drainage channels / Land drains). | Section 5.14, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) which is secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 06: Agriculture and Soils | 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. | 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. | Section 4.4, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1) |
| Chapter 06: Agriculture and Soils | Table 5.2 - Securing Mitigation | Temporary loss of *access to and use of* agricultural land during construction of the Waterbeach pipeline. | Return land temporarily required during construction to previous use through reinstatement and implementation of section 7.4 of the CoCP Part A and application of a SMP based on the outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3). | Section 7.4, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Section 5.4, Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through requirements of the draft DCO (App Doc Ref 2.1) |
| Chapter 06: Agriculture and Soils | Table 5.2 - Securing Mitigation | Temporary loss of agricultural land from 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 7.4 of the CoCP Part A and application of a SMP based on the outline SMP. | Section 7.4, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Section 5.4, Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through requirements of the draft DCO (App Doc Ref 2.1) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| Chapter 06: Agriculture and Soils | 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. | 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.<br><br>Minimising temporary short term impacts to farm businesses through application of the measures required by the CTMP in particular:<br>• Section 6.3 Adherence to Designated Routes;<br>• 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.<br><br>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<br>Requirement within section 3 of the CoCP Part A and B (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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 06: Agriculture and Soils | 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. | 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.<br>Minimising temporary short term impacts to farm businesses through application of the measures required by the CTMP in particular:<br><br>• Section 6.3 Adherence to Designated Routes<br>• 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.<br><br>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<br>Requirement within section 3 of the CoCP Part A and B (Application Doc Ref: 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 temporary changes to access. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Construction Traffic Management Plan (CTMP) (Appendix 19.7, App Doc Ref 5.4.19.7)<br><br>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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| Chapter 07: Air Quality | Table 5.2 - Securing Mitigation | 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 ( Appendix 19.7, App Doc Ref 5.4.19.7) to minimise the impacts from vehicle movements in particular:<br>• Section 6.3 Adherence to Designated Routes;<br>• 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.<br>• 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (, App Doc Ref 2.1).<br><br>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) |
| Chapter 07: Air Quality | 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 | 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:<br>• 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<br>• Section 7.8. (Air Quality) which requires the following general measures will be put in place to minimise dust including but not limited to:<br>– Minimising the movement of construction traffic around the working area as far as possible;<br>– provision of adequate water supplies for effective dust/particulate matter suppression;<br>– sweeping and damping down of surfaces at regular intervals;<br>– use of enclosed chutes and conveyors and covered skips;<br>– where necessary the use of solid screens or barriers when activities will a high potential for dust generation are carried out;<br>– 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;<br>– positioning of stockpiles as far as practicable from residential areas and at least 10 metres from watercourses where practical; and<br>– sealing of stockpiles by means of back blading the stock pile to help reduce dust and to not promote areas for wildlife habitat. | Section 7.8, CoCP Part A (Appendix 2.1, Application Document Ref 5.4.2.1 ) and an Air Quality Management Plan (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (Application Document Ref 2.1)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Air Quality Management Plan (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (Application Document Ref 2.1) |
| Chapter 07: Air Quality | Table 5.2 - Securing Mitigation | Operation of energy plant requiring continuous emissions of nitrogen oxides 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. | The Environmental Permit will include medium combustion plant directive emission limits and conditions for monitoring and reporting.<br>Design Parameters of the draft DCO (App Doc Ref 2.1) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| Chapter 08: 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 | Direct benefit to be realised through the habitat provisions and within the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14):<br>• 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); and<br>• implementation of appropriate management measures to meet the BNG commitment which will enable replacement habitat if initial planting is not successful. | Landscape, Ecological and Recreational Management Plan (LERMP) secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 08: 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 | Design measures providing habitats are within the landscape masterplan within the LERMP.<br><br>The beneficial impact associated with the landscape masterplan will be delivered during operation through the long- term implementation of the LERMP (Appendix 8.14App 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. | 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) |
| Chapter 08: 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 | Management of decommissioning 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:<br>• measures to minimise run-off and the risk of runoff reaching ditches and watercourses<br>• measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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.<br>• 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.<br>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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3).<br><br>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1) |

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| | | | related to decommissioning. These requirements will collectively secure deliver appropriate mitigation of the decommissioning activities. | |
| Chapter 08: Biodiversity | 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 | Management of decommissioning 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:<br>• measures to minimise run-off and the risk of runoff reaching ditches and watercourses<br>• measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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.<br>• 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.<br>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 (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 appropriate mitigation of the decommissioning activities. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Decommissioning Management Plan (App Doc Ref 5.4.2.3). |
| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Whilst decommissioning there is the potential for accidental leaks and spills during the draining and cleaning of existing tanks and or works to stop the existing outfall which could result in short term temporary impact to surface water including the river Cam | Refuelling of machinery will only be undertaken within designated areas (unless expressly stated within the CEMPs which will be prepared) where spillage can be more easily contained.<br>Management of decommissioning 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:<br>• measures to minimise run-off and the risk of runoff reaching ditches and watercourses | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Decommissioning Management Plan (App Doc Ref 5.4.2.3). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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.<br>• 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.<br><br>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 (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 appropriate mitigation of the decommissioning activities. | |
| Chapter 08: Biodiversity | 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 to prevent or minimise impacts to fish are:<br>• inclusion of a non-return valve within the outfall chamber for storm flows to prevent ingress of fish to the chamber<br>• design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall<br><br>The management of effluent quality and storm spill impacts through:<br>• 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<br>• design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes<br>• design of storm storage volumes and flow rates to meet regulatory requirements;<br>• inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision | Secured through a requirement in the draft DCO (Appendix 2.1, App Doc Ref 2.1) to prepare and implement an Outfall Management and Monitoring Plan.<br><br>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). Approved design secured through Environmental Permit (Flood Risk Activities) |
| Chapter 08: Biodiversity | 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 | 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:<br>• provision of a tool-box talk by the suitably experienced ecologist;<br>• completion of pre-works checks; | 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). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals;<br>• securing of areas to prevent access by badger.<br><br>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:<br>• completion of pre-works checks (including areas not covered by licence);<br>• checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals<br>• securing of areas to prevent access by badger | Section 7.2, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (Appendix 2.1, App Doc Ref 2.1)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Natural England Mitigation Licence |
| Chapter 08: Biodiversity | 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 | 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 Appendix 8.20, App Doc Ref 5.4.8.20) which requires the following:<br>• 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<br><br>minimising severance of hedgerows and use of translocation of hedgerows to provide commuting habitat and foraging opportunities<br><br>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:<br>• 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.<br>• 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<br><br>Enhancement roost feature installation by mounting woodcrete type bat boxes suitable for a range of bat species to use, upon appropriate | Natural England Mitigation Licence<br><br>Section 7.2, CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2.2) secured through a requirement of the draft DCO (App Doc Ref 2.1)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3).<br><br>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).<br><br>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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | 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. | |
| Chapter 08: Biodiversity | Table 5.1 Summary of biodiversity effects | 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 | Enhancement roost feature installation; early planting of larger specimen trees and hedgerow plants; thickening of hedgerows.<br>Direct and indirect impacts related to works to affecting bat roosts will be through application of mitigation measures in line with Natural England licence conditions (Draft Licence included Appendix 8.20, App Doc Ref 5.4.8.20) which requires the following;<br>• provision of a tool-box talk by the licenced bat ecologist;<br>• completion of pre-works checks for works areas prior to the start of the works;<br>• timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned);<br>• 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;<br>• use of wildlife sensitive lighting design as outlined in the Natural England licence; and<br>• minimising severance of hedgerows and reinstatement of hedgerows to provide commuting habitat and foraging opportunities. | 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)<br><br>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) |
| Chapter 08: Biodiversity | 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 | Mitigation measures in line with agreed Natural England licence conditions will be carried out (Draft Licence included Appendix 8.22, App Doc Ref 5.4.8.22):<br>• Provision of a tool-box talk by the licenced bat ecologist;<br>• Completion of pre-works checks for works areas prior to the start of the works;<br>• Timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); and<br>• 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. | 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)<br><br>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)<br><br>Natural England Mitigation Licence |

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| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Direct and indirect impacts on breeding birds | Best practice measures to operate in compliance with the 1981 Act:<br>• pre works check by suitably experienced ecologist;<br>• avoidance of nesting bird season as appropriate to species found; and<br>• clearance activities completed in accordance with approved methods | 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)<br><br>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) |
| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Direct and indirect impacts on breeding birds (proposed WWTP access road and landscape masterplan area) | 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 CEMP which will include setting out measures for the prevention of impacts to birds including best practice measures applied during construction to:<br>• complete pre works check by suitably experienced ecologist;<br>• avoid the nesting bird season as appropriate to any species found; and<br>• complete clearance activities completed in accordance with approved methods<br><br>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<br>• set out the required monitoring for changes to bird assemblages<br>• measures to prevent increase risk of attracting species of birdstrike concern | 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)<br><br>Requirement to prepare Wildlife Hazard Management Plan in accordance with the Wildlife Hazard Management Plan which is secured through a requirement in the draft DCO (Appendix 8.18, App Doc Ref 5.4.8.18)<br><br>App Doc Ref |
| | | | Design measures to include trees and woodland, scrub, grassland and seasonal ponds within the land required for the landscape masterplan contained with 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. | 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) |
| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Direct and indirect impacts on ditch macrophytes | 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:<br>Section 4.4 which requires the Principal Contractor(s) to produce a | 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)<br><br>Approval and implementation of a Construction Environmental |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | 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 in particular:<br>• 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:<br>– best practice measures applied for management of leaks and spillages to prevent runoff reaching controlled waters<br>– 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;<br>– identification of watercourses and land drains before construction works in that area commence and regularly checked for signs of silt.<br>– 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;<br>– 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;<br>– where needed the use of suitable concrete mixes in watercourses;<br>– surface water drainage around any batching plants will be controlled.<br>– 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.<br>Management of silt during construction including meeting requirements of regulatory position statement (RPS)<br>– 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). | Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Outfall Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river. |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | – 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. | |
| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Direct and indirect impacts on ditch macrophytes | 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 fish are:<br>• CoCP Part A, Section 7.2, Ecology and nature conservation, in respect Riparian and Aquatic Habitats specifically:<br>– leaving bank and any aquatic vegetation in place for as long as practicable<br>– 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<br>– maintaining the flow downstream of the crossing point<br>– where possible completing works between August and October and/ or during low flow conditions to protect potential fish spawning or nursery sites<br>• 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:<br>– minimise the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidences; and<br>– 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<br>• 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. | 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Outfall Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river. |
| Chapter 08: Biodiversity | Table 5.1 Summary of biodiversity effects | 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- | 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 | 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | off and from testing and commissioning activities | water, and impacts from the generation of noise. The best practice measures applied during construction in relation to fish are:<br>• CoCP Part A, Section 7.2, Ecology and nature conservation, in respect Riparian and Aquatic Habitats specifically:<br>– - leaving bank and any aquatic vegetation in place for as long as practicable<br>– - 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<br>– - maintaining the flow downstream of the crossing point<br>– - where possible completing works between August and October and/ or during low flow conditions to protect potential fish spawning or nursery sites<br>• 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:<br>– minimise the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidences; and<br>– 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<br>• 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.<br><br>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) (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).<br><br>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 | Doc Ref 2.1).<br><br>Approval and implementation of an Outfall Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river.<br><br>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).<br><br>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). |

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| | | | requirements in the DCO), which will collectively secure deliver appropriate mitigation of the wet commissioning activities. | |
| Chapter 08: Biodiversity | Table 5.1 Summary of biodiversity effects | Direct and indirect impacts to 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 | 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:<br>• sensitive construction methodologies to include securing of areas to prevent access by otter;<br>• pre works checks for protected species by a suitably qualified ecologist;<br>• 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. | 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 08: Biodiversity | 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 | As for measures related to impacts to water vole plus the following.<br><br>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:<br>• adopt sensitive construction methodologies to include securing of areas to prevent access by otter; and<br>• complete pre works checks for protected species by a suitably qualified ecologist;<br>• 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.<br><br>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). | The Environmental Permit will set out conditions relating the discharge limits and its monitoring and reporting.<br><br>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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Water Quality Management Plan, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (Application Document Ref 2.1)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

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| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Direct and indirect impacts on reptiles | 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:<br>• complete pre works checks by suitably experienced ecologist<br>• complete clearance activities in accordance with approved methods<br>• to translocate reptiles potentially affected by the works<br>• to reinstatement of land temporarily used for construction<br>•<br>Management of construction activities as described within the CoCP Part A (Appendix 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:<br>• the use of reptile fencing (around the proposed WWTP),<br>• the practice of sensitive vegetation clearance and management including hard searches as appropriate<br>• local translocation.<br>• the provision of reptile specific 'tool-box talk' to site staff prior to any work being carried out.<br>• the use of staged cuts in a directional manner, as guided by the ECoW or other suitably experienced ecologist identified by the ECoW<br>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 (Appendix 8.14, App Doc Ref 5.4.8.14) to provide suitable habitat for reptiles. | 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)<br>Section 3 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)<br>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Approval and implementation of a Reptile Management Strategy secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>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) |
| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Direct and indirect impacts on river macrophytes | Best practice measures applied during construction to minimise the risk of runoff reaching controlled waters (ditches and watercourses).<br>Best practice measures applied for management of dewatering including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour.<br>Inclusion of embedded 'Green' engineering features within river bank protection works.<br>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 | 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)<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Approval and implementation of an Outfall Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river. |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | 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:<br>• CoCP Part A, Section 7.2, Ecology and nature conservation, in respect Riparian and Aquatic Habitats specifically:<br>– leaving bank and any aquatic vegetation in place for as long as practicable<br>– 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<br>– maintaining the flow downstream of the crossing point<br>– where possible completing works between August and October and/or during low flow conditions to protect potential fish spawning or nursery sites<br>• 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:<br>– minimise the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidences; and<br>– 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<br>• 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. | |
| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Direct and indirect impacts on Stow-cum-Quy Fen SSSI during construction due to, run-off, water logging and contamination from leaks and spills and air emissions. | 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:<br>• measures to minimise run-off and the risk of runoff reaching ditches and watercourses<br>• 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. | Sections 7.4, 7.5 and 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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.<br>• requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained<br><br>Application of measures to manage drilling fluid break out as defined within the CoCP Part A section 7.4.<br><br>Management of construction activities impacting air quality will be through further measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2App Doc Ref 5.4.2.1, 5.4.2.2):<br><br>• 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:<br>– the engines of all vehicles and plant onsite will be turned off when not in use;<br>– the use of low emission vehicles and plant as far as possible; and<br>– the movement of construction traffic around the working area will be minimised as far as possible | |
| Chapter 08: Biodiversity | 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 | Best practices measures applied in relation to wildlife sensitive lighting design and as outlined in the Natural England licence.<br><br>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). The landscape masterplan includes a topographical and habitat variability to support some invertebrate species (e.g. mining bees) within "bee bank" bare earth patches.<br><br>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 | 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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)<br><br>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). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | during construction in relation to minimising impacts to terrestrial habitats are:<br>• the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible<br>• the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats.<br>• 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).<br>• 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. | |
| Chapter 08: Biodiversity | Table 5.1 Summary of biodiversity effects | Direct and indirect impacts on water quality within the River Cam CWS<br>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 | 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:<br>• measures to minimise run-off and the risk of runoff reaching ditches and watercourses;<br>• 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.<br>Temporary works design measure:<br>• use of cofferdam to create dry working area within the River Cam | Section 7.4, 7.5, 7.8, 7.9 and 7.10 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)<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 08: Biodiversity | Table 5.1 Summary of biodiversity effects | Direct and indirect impacts to River Cam CWS 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 and B (Appendix 2.1 & 2.2App 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 best practice measures requirements including:<br>• minimising run-off and the risk of runoff reaching ditches and watercourses such as through the siting of launch and recovery | Sections 7.4, 7.5 and 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)<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>AQMP, and WQMP, and (secured through Section 4.4 of the CoCP Part A) secured through a requirement of the draft DCO (Application Document Ref 2.1) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | pits associated with trenchless construction methods to be located a minimum of 8m from top of bank<br>• 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.<br>• measures applied for management of leaks and spillages<br>• 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.<br>• 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<br><br>Management of construction activities impacting air quality will be through further measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2App Doc Ref 5.4.2.1 &5.4.2.2):<br>• 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:<br>– the engines of all vehicles and plant onsite will be turned off when not in use;<br>– the use of low emission vehicles and plant as far as possible; and<br>– the movement of construction traffic around the working area will be minimised as far as possible | Outfall Management and Monitoring Plan (OMMP), (secured through Section 3 of the CoCP Part B) secured through a requirement of the draft DCO (Application Document Ref 2.1)<br><br>Flood Risk activities permit<br><br>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). |
| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Direct and indirect impacts on water voles<br>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 | 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 :<br>• provision of a tool-box talk by the licenced water vole ecologist<br>• completion of pre-works checks for works within 5m of watercourse / works crossing ditches prior to the start of the works<br>• application for licence amendments if deemed appropriate<br>• habitat creation (ditches)<br>• timing of works between 15 February and 15 April or as otherwise agreed by licence condition<br>• application for licence amendments if deemed appropriate and inclusion of additional measures within the application<br>• restricting temporary works to cross ditches to a 6m working width and habitat (ditch) reinstatement | 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)<br><br>Natural England Mitigation Licence<br><br>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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| Chapter 08: Biodiversity | 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 | Displacement measures in line with agreed Natural England licence conditions will be carried out (Draft Licence included Appendix 8.20, App Doc Ref 5.4.8.20);<br>• Provision of a tool-box talk by the licenced water vole ecologist;<br>• Completion of pre-works checks for works within 5m of watercourse / works crossing ditches prior to the start of the works;<br>• Application for licence amendments if deemed appropriate; and<br>• Habitat creation (ditches).<br><br>Inclusion of embedded 'green' engineering features within river bank protection works;<br>Best practice measures as detailed within CoCP parts A and B applied during construction to minimise the risk of runoff reaching ditches and watercourses.<br><br>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. | 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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)<br><br>Natural England Mitigation Licence |
| Chapter 08: Biodiversity | 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 | 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:<br>• provision of a tool-box talk by the licenced water vole ecologist<br>• completion of pre-works checks for works within 5m of watercourse / works crossing ditches prior to the start of the works<br>• application for licence amendments if deemed appropriate<br>• habitat creation (ditches)<br>• Timing of works between 15 February and 15 April or as otherwise agreed by licence condition<br>• application for licence amendments if deemed appropriate and inclusion of additional measures within the application<br>• restricting temporary works to cross ditches to a 6m working width and habitat (ditch) reinstatement.<br><br>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:<br>• minimising the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidents; and<br>• management of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or | Section 4.4 and 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Natural England Mitigation Licence<br><br>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to have approved and implement an Outfall Management and Monitoring Plan. |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | Environmental Permit - whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour<br><br>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). | |
| Chapter 08: Biodiversity | 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 | 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:<br>• provision of a tool-box talk by the suitably experienced ecologist;<br>• completion of pre-works checks;<br>• checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals<br>• securing of areas to prevent access by badger.<br><br>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:<br>• completion of pre-works checks (including areas not covered by licence);<br>• checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals<br>• securing of areas to prevent access by badger | 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Natural England Mitigation Licence<br><br>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) |
| Chapter 08: Biodiversity | 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 | 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 Appendix 8.20, App Doc Ref 5.4.8.20) which requires the following:<br>• provision of a tool-box talk by the licenced bat ecologist;<br>• completion of pre-works checks for works areas prior to the start of the works<br>• timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); | Natural England Mitigation Licence<br><br>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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>App Doc Ref<br><br>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • 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.<br>• use of wildlife sensitive lighting design as outlined in the Natural England licence; and<br>• minimising severance of hedgerows and reinstatement of hedgerows to provide commuting habitat and foraging opportunities<br><br>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 & 2.2App Doc Ref 5.4.2.1 & 5.4.2.2). These will be set out in the CEMP related to the specific works activity:<br><br>• 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.<br>• 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. | comply with the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5). |
| | | | 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. | 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)<br><br>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) |
| Chapter 08: Biodiversity | 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 | 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 Appendix 8.20, App Doc Ref 5.4.8.20) which requires the following:<br><br>• provision of a tool-box talk by the licenced bat ecologist;<br>• completion of pre-works checks for works areas prior to the start of the works<br>• timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned);<br>• installation of suitable bat boxes for use by crevice dwelling species on appropriate retained trees prior to | Natural England Mitigation Licence<br><br>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)<br><br>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). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | disturbing works commencing, to facilitate continued opportunities for bats to roost.<br>• use of wildlife sensitive lighting design as outlined in the Natural England licence; and<br>• minimising severance of hedgerows and reinstatement of hedgerows to provide commuting habitat and foraging opportunities<br><br>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:<br>• 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.<br>• 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.<br>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). | |
| Chapter 08: Biodiversity | 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 | 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 which will include setting out measures for the prevention of impacts to birds including best practice measures applied during construction to:<br>• complete pre works check by suitably experienced ecologist;<br>• avoid the nesting bird season as appropriate to any species found; and<br>• complete clearance activities completed in accordance with approved methods | 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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| Chapter 08: Biodiversity | 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 | 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 8.14App Doc Ref 5.4.8.14).<br><br>The landscape masterplan includes a topographical and habitat variability to support some invertebrate species (e.g. mining bees) within “bee bank” bare earth patches.<br><br>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:<br>• the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible<br>• the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats.<br>• 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).<br>• 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<br><br>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:<br>• 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.<br>• 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. | 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)<br><br>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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| Chapter 08: Biodiversity | Table 5.1 Summary of biodiversity effects | 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 results in short term temporary impact to water quality in the river Cam | 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:<br>Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality 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).<br>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:<br>• Best practice measures applied for management of leaks and spillages to prevent runoff reaching controlled waters | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 08: Biodiversity | 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 | Direct benefit to be realised through the habitat provisions and within the LERMP (Appendix 8.14App Doc Ref 5.4.8.14):<br>• 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);<br>• implementation of appropriate management measures to meet the BNG commitment which will enable replacement habitat if initial planting is not successful. | 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) |
| Chapter 08: Biodiversity | 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 | Use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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). |
| Chapter 08: Biodiversity | 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 | Design measures to prevent or minimise artificial light are:<br>• wildlife sensitive lighting design incorporated into detailed design<br>• exclusion of lighting provision on the access road<br>• the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP<br>• habitat creation within the landscape masterplan that serves a screening function once mature<br>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. | 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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). |
| Chapter 08: Biodiversity | 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) | Design measures to avoid or minimise loss of river habitat within the River Cam are: | 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)<br><br>Landscape, Ecological and Recreational Management Plan (Appendix 8.14, |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile<br>• design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river;<br>• minimising extent of river bank protection works; and<br>• design that includes 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.<br><br>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). | App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)<br><br>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river. |
| Chapter 08: Biodiversity | 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 | Provision and maintenance of new habitats within the landscape masterplan for reptile species to use.<br><br>Sensitive vegetation management strategy within the LERMP in place in line with the 1981 Act<br><br>Direct benefit to reptiles to be realised through measures within the LERMP (Appendix 8.14App Doc Ref 5.4.8.14):<br>• implementation of sensitive vegetation management strategy that avoids direct injury or killing of reptiles;<br>• 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<br>• maintenance measures to ensure habitats are sustained | 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) |
| Chapter 08: Biodiversity | 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 | 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. 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 | Landscape, Ecological and Recreational Management Plan (Appendix 8.14App Doc Ref 5.4.8.14) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| Chapter 08: Biodiversity | 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 | Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2App 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:<br>• limiting any permanent crossing of ditches to a maximum width of Hedgerow and ditch crossings minimised to 6m;<br>• the implementation of measures set out under section 7.2 of the CoCP Part A in respect Riparian and Aquatic Habitats specifically: | 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)<br><br>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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | – leaving bank and any aquatic vegetation in place for as long as practicable<br>– 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<br>– maintaining the flow downstream of the crossing point<br>– restoration of original bank profile on completion of the pipeline crossings<br>– where possible completing works between August and October and or during low flow conditions to protect potential fish spawning or nursery sites<br><br>Design measures to avoid or minimise loss of habitat are:<br>• retaining existing ditch with hedgerow within the land required for the landscape masterplan contained with the LERMP (Appendix 8.14App Doc Ref 5.4.8.14)<br>• designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile<br>• creation of new up to 3.65km of new ditch habitat as described in Appendix C of the BNG Report (Appendix 8.13App Doc Ref 5.4.8.13) | |
| Chapter 08: Biodiversity | 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 | Habitats removed to be replaced by plantings of habitats of higher ecological value in line with landscape masterplan within the LERMP (Appendix 8.14App Doc Ref 5.4.8.14).<br><br>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:<br>• the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible<br>• the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats.<br>• 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).<br>• 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 | 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)<br><br>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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Removal of habitats during the temporary use of land for the construction of the Waterbeach pipeline | Best practice measures to operate in compliance with the 1981 Act as appropriate:<br>• pre works check by suitably experienced ecologist<br>• best practice vegetation clearance methods | 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) |
| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Removal of habitats during the temporary use of land for the construction of the Waterbeach pipeline | Minimising construction working width;<br>Reinstatement of areas temporarily disturbed during construction<br>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:<br>• the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible<br>• the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats.<br>• 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).<br>• 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. | 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)<br><br>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) |
| Chapter 08: Biodiversity | 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 | 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<br><br>Segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy | The Environmental Permit will include conditions requiring management systems to cover pollution prevention and emergency responses.<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Drainage strategy (Appendix 20.12, App Doc Ref 5.4.20.12) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| Chapter 08: Biodiversity | 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 | Management of impacts to badger as a result of construction activities are 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 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:<br>• completion of pre-works checks across the Existing Cambridge WWTP (due to badgers being considered a mobile species);<br>• checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals | 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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • securing of areas to prevent access by badger | |
| Chapter 08: Biodiversity | 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 Drove Way Grassland and Hedges CWS | No removal of vegetation from the CWS.<br><br>Provision of a buffer of a minimum of 10m between works areas and extent of CWS.<br><br>Wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill) along with dust control measures (such as wetting materials).<br><br>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:<br>• CoCP Part A, Section 7.2, Ecology and nature conservation, and Part B, section 3.3 which:<br>– require the prohibition of vegetation removal from the CWS<br>– requires the routing of works access through existing pathways that cross the CWS<br>– requires the provision of a buffer of a minimum of 10m between works areas and extent of CWS.<br>• 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:<br>– minimising the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidents; and<br>– 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<br>• 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. | Sections 7.4, 7.5 and 7.8, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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). |
| Chapter 08: Biodiversity | 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 Drove Way Grassland and Hedges CWS due to a combination of noise, emissions to air, use of | 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 | 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)<br><br>Approval and implementation of a detailed management and monitoring plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | temporary lighting, land clearance and presence of people. | water, and impacts from the generation of noise. The best practice measures applied during construction in relation to these aspects are:<br>• Wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill) along with dust control measures (such as wetting materials);<br>• CoCP Part A, Section 7.2, Ecology and nature conservation, and Part B, section 3.3 which<br>– require the prohibition of vegetation removal from the CWS<br>– requires the routing of works access through existing pathways that cross the CWS<br>– requires the provision of a buffer of a minimum of 10m between works areas and extent of CWS.<br>• 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:<br>– minimising the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidents; and<br>– 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<br>• 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. | |
| Chapter 08: Biodiversity | 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. | Best practice measures as detailed within CoCP parts A and B applied during construction to minimise the risk of runoff reaching ditches and watercourses<br><br>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.<br><br>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 | Sections 7.4, 7.5 and 7.8, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Water Quality Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Air Quality/Dust |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | 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:<br>• measures to minimise run-off and the risk of runoff reaching ditches and watercourses<br>• 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.<br>• measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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.<br>• 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 Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 08: Biodiversity | Table 5.2 - Securing Mitigation | Dewatering during the construction of the outfall temporarily reduces water quality within the River Cam CWS | Best practice measures as detailed within CoCP parts A and B applied during construction to minimise the risk of runoff reaching ditches and watercourses<br><br>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<br><br>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: | Sections 7.4, 7.5 and 7.8, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Water Quality Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Air Quality/Dust Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Outfall Management Plan |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • measures to minimise run-off and the risk of runoff reaching ditches and watercourses<br>• 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.<br><br>Temporary works design measure:<br>• use of cofferdam to create dry working area within the River Cam | secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river. |
| Chapter 08: Biodiversity | 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 | Best practice measures as detailed within CoCP parts A and B applied during construction to minimise the risk of runoff reaching ditches and watercourses.<br><br>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.<br><br>Management measures as for the management of dewatering impacts within the River Cam CWS<br><br>Temporary works design measure:<br>• use of cofferdam to create dry working area within the River Cam | Sections 7.4, 7.5 and 7.8, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Water Quality Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Air Quality/Dust Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Outfall Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Higher maximum summer temperatures and in-combination weather events lead to mechanical and electrical equipment failure | Monitoring of condition during temperature extremes | A requirement to prepare an Asset Management Plan (AMP) in accordance with the outline AMP (Application Doc Ref 5.2.9.2) secured through a requirement in the draft DCO (Application Doc Ref 2.1) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Higher maximum summer temperatures: efficiency of boilers and CHP unit | Applicant's asset management plan to include scheduling of maintenance and renewal works to improve efficiency of units | A requirement to prepare an Asset Management Plan (AMP) in accordance with the outline AMP (Application Doc Ref 5.2.9.2) secured through a requirement in the draft DCO (Application Doc Ref 2.1) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Increased winter rainfall and heavy rainfall events leads to structural damage and flooding within the proposed WWTP | Surface water drainage design avoids damage to or water ingress into buildings and structures<br>Upgrade of the surface water drainage with larger pipe diameters and storage towards the end of the century. | 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) |
| | | | Management plans and business continuity plans for extreme weather conditions | The Environmental Permit will include conditions requiring a written EMS which will includes management systems to cover pollution prevention and emergency responses. |
| | | | Monitoring the response of the Proposed WWTP surface water drainage system to intense rainfall events and recording occurrences of surface water flooding | A requirement within Schedule 2 special requirements as outlined within App Doc Ref 7.2 |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Increased winter rainfall and higher fluvial flows: damage to the outfall structure and riverbank | Periodic monitoring of structure conditions | 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 (Application Doc Ref 2.1) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Greater seasonal range between wetter winters and drier summers: ground movement | Controlled through operational asset inspection and repair programme including period asset inspections | A requirement to prepare an Asset Management Plan (AMP) in accordance with the outline AMP (Application Doc Ref 5.2.9.2) secured through a requirement in the draft DCO (Application Doc Ref 2.1) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Increased seasonal winter rainfall and heavy rainfall events | Inspection and maintenance regime to keep pipes clear and operating effectively. | A requirement to prepare an Asset Management Plan (AMP) in accordance with the outline AMP (Application Doc Ref 5.2.9.2) secured through a requirement in the draft DCO (Application Doc Ref 2.1) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Increased winter rainfall and heavy rainfall events: biodiversity mitigation habitats | Surface water drainage design in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). | 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) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Increased winter rainfall and heavy rainfall events: biodiversity mitigation habitats | Maintenance, repair and replanting of seasonal ponds | 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) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Reduced summer rainfall and increased drought conditions: biodiversity mitigation habitats | Diversity of species in final planting specification | LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)<br>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) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Reduced summer rainfall and increased drought conditions: biodiversity mitigation habitats | Creation of the seasonal ponds to retain rainwater in the summer | LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | | 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) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Reduced summer and rainfall and increased winter rainfall: tree planting | Drought tolerant species selection<br>Adaptive management to consider how future wooded areas and new planting will be watered. | LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)<br>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) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Reduced summer rainfall and increased drought conditions: landscaping and tree planting | Species diversity and choice of drought resilient tree species.<br>Landscape Management Plan to replace dieback of wooded area with tree species that thrive in future climates locally | LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)<br>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) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Reduced summer rainfall and increased drought conditions: landscaping and tree planting | 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 (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) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Warmer, wetter winters leading to increases in pest and disease outbreaks | Diversity in planting species<br>Landscape management | LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)<br>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) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | Increased winter heavy rainfall events and summer drought conditions: erosion of soils | Surface water runoff design avoids erosion and scour<br>Landscape management design avoids exposed desiccated soils<br>Landscape management to identify soil erosion and vegetation management | LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)<br>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)<br>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) |
| Chapter 09: Climate resilience | Table 5.2 - Securing Mitigation | 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 | 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 (Application Doc Red 2.1) |

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| Chapter 10: Carbon | Table 5.2 - Securing Mitigation | Climate change emissions contributions through GHGs associated with operation of the proposed WWTP | Implementation of a Operational Carbon Management Plan | Requirement to secure an operational Carbon Management Plan (CMP) through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 10: Carbon | Table 5.2 - Securing Mitigation | Climate change emissions contributions through GHGs associated with operation of the proposed WWTP | 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 DM0 design secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 10: Carbon | Table 5.2 - Securing Mitigation | Climate change emissions contributions through GHGs associated with operation of the proposed WWTP | Gateway building to be designed to achieve BREEAM "Excellent" standard | Requirement to develop detailed design to meet BREEAM target secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 10: Carbon | Table 5.2 - Securing Mitigation | Whole life carbon of the proposed WWTP | Land use change acting to reduce emissions over the whole life of the assessment | LERMP secured through a requirement of the draft DCO (App Doc Ref 2.1)<br>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) |
| Chapter 10: Carbon | Table 5.2 - Securing Mitigation | Whole life carbon of the proposed WWTP | Measures adopted in operation act to reduce emissions over the whole life of the assessment:<br>• Follow the Net Zero to 2030 Strategy<br>Implement the Operational worker travel plan to encourage mode shift in transport | Schedule 2 requirement to apply 2030 strategy and include CWWTPR in annual reporting secured through a requirement of the draft DCO (App Doc Ref 2.1)<br>Requirement to implement OWTP (Appendix 19.8, App Doc Ref 5.4.19.8) secured through a requirement of the draft DCO (App Doc Ref 2.1 |
| Chapter 10: Carbon | Table 5.2 - Securing Mitigation | Capital carbon as a result of materials and activity to construct the Proposed Development | Design optimisation at detailed design stage informed by caron model that seeks to further reduce capital carbon through:<br>• Continued innovation review<br>• Materials specifications<br>Design of efficient construction and temporary works | 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 DM0 design secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 11: Community | Table 5.2 - Securing Mitigation | 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) | Requirement to monitor usage of the Discovery Centre which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| Chapter 11: Community | Table 5.2 - Securing Mitigation | Provision of a new bridleway provides benefit to recreational users (horse riders) through additional equestrian resource | 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) | 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) |
| 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 measures to prevent or minimise impacts to recreational users:<br>• Design of outfall so as not to affect width and gradient of footpath (PRoW 85/6)<br>• 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<br>• 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)<br>Approval and implementation of an Outfall Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

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| | | | Direct benefits to recreation to be realised through measures within the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14):<br>• 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<br>• Change of status for up to 1.03km of existing farm track to provide a new Public Right of Way (bridleway)<br>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. | 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) |
| | | | Enhancements for recreational users through:<br>• Improvements to the footway on the east and west of Horningsea Road<br>New pedestrian crossing to access the landscape masterplan area | Approved design secured through a requirement of the draft DCO (App Doc Ref 2.1 |
| Chapter 11: Community | Table 5.2 - Securing Mitigation | The presence of permanent infrastructure creates a permanent change to access in the provision of to recreational resources and informal open spaces | 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 | 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) |
| Chapter 11: Community | Table 5.2 - Securing Mitigation | Temporary requirement for land to construct the Waterbeach pipeline affects access to CBS Automotive | 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:<br>• requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction<br>• requirements to maintain access<br>Implementation of the CTMP in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) ) which:<br>• requires connectivity/access to community facilities and residential properties to be maintained during works.<br>requires connectivity/access to community facilities and residential properties to be maintained during works | 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)<br>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Construction Traffic Management Plan ( Appendix 19.7, App Doc Ref 5.4.19.7), secured through a requirement of the draft DCO |
| 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 | Sequencing construction of the permanent access at the start to minimise disruption to Low Fen Drove Way<br>Implementation access controls as set out in Section 6.3 of the CTMP and Traffic and Transport measures of the CoCP in particular:<br>• Section 6.3 Adherence to Designated Routes | Section 7.6, 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)<br>Sections 6.3 of the Construction Traffic Management Plan (Appendix 19.7, |

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| | | | • 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<br>• Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works).<br>• 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 | App Doc Ref 5.4.19.7), secured through a requirement of the draft DCO (App Doc Ref 2.1)<br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1 |
| 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 | 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 | Section 7.6 CoCP Part A (Appendix 2.1App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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 | 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<br>Provision of diversions and appropriate signage to communicate temporary diversions as detailed in section 7.6 (Traffic and transport) of the CoCP Part A (Application Document Ref 5.4.2.1) in particular:<br>• Implementation of section 7.7 of the CoCP Part A ( 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.<br>• Requirement within section 3 of the CoCP Part A and B (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 changes to access because of PRoW realignment or diversion<br>• A requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area | Section 7.6 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)<br>Sections 6.3 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)<br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1 |
| Chapter 11: Community | Table 5.2 - Securing Mitigation | Temporary changes to recreational resources and open spaces due to the temporary in-river | 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). | Section 3.1, 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) |

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| | | construction works to construct the outfall that will affect the navigable width of the river | 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:<br>• 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<br>• 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 a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Outfall Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1 |
| Chapter 11: Community | Table 5.2 - Securing Mitigation | Temporary changes to recreational resources and open spaces Horningsea Road | Management of construction impacts to Horningsea Road through the implementation of the CTMP (Application Document Ref 5.4.19.7) in particular:<br>• Section 6.3 Adherence to Designated Routes<br>• 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<br>• Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works). | Section 7.6, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Sections 6.3 and 6.9 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) |
| 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 | Inclusion of pedestrian and leisure cycling connections within the landscape masterplan | 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) |
| 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 | 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.<br><br>Implementation of the CTMP in particular:<br>• section 6.3 Adherence to Designated Routes<br>• section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours<br>• section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks<br>• section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works | 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)<br><br>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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | The CTMP states that there will be no construction traffic through Horningsea village. Section 4.2 of the CTMP states that hours of | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

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| | | | construction traffic operation will avoid the AM and PM peak periods as well as school pick-up and drop-off hours. | Sections 4.2 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) |
| 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 | 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).<br><br>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):<br>• 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:<br>– the engines of all vehicles and plant onsite will be turned off when not in use;<br>– low emission vehicles and plant will be used as far as possible; and<br>– movement of construction traffic around the working area will be minimised as far as possible<br>• 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.<br>• Restriction of working hours to avoid sensitive time periods for works at Shaft 4 and the Outfall.<br>• 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<br>• 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:<br>– Section 6.3 Adherence to Designated Routes<br>– 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<br>• 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. | Section 7.7 and 7.9, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |

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| | | | • 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).<br>• 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)<br>• 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).<br>• Requirement within section 3 of the CoCP Part A and B (Appendix 2.1 & 22, 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 including communication of changes to access because of PRoW realignment or diversion | |
| Chapter 12: Health | Table 5.2 - Securing Mitigation | Changes to health and wellbeing due to 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 (Application Document Ref 5.2.19) and Chapter 17: Noise and vibration (Application Document Ref 5.2.17). | Section 7.7 and 7.9, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Construction Traffic Management Plan (Appendix 19.7, Appendix 19.7 App Doc Ref 5.4.19.7), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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 | 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). | Section 7.7 and 7.9, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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 | 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). | Section 7.7 and 7.9, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App |

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| | | | | Doc Ref 2.1).<br><br>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) |
| 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 | 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 | 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) |
| 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).<br><br>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 | Section 7.9 (Waste Management and Resource Use) 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Decommissioning Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 12: Health | Table 5.2 - Securing Mitigation | Potential risk to human health from hazardous waste and substances | Preparation of operational management plan associated with the EMS procedures as required by the permitting process. | During operation, the Environmental Permit will require management system to cover waste management practices and procedures. |
| Chapter 12: Health | Table 5.2 - Securing Mitigation | Potential risk to human health from hazardous waste and substances | 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 | Sections 7.9, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 12: Health | Table 5.2 - Securing Mitigation | Potential risk to human health from water pollution. | 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:<br>• measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits | 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)<br><br>Approval and implementation of an Outfall Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Commissioning Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of an Decommissioning Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • 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.<br>• requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained<br>• requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment<br>• 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 slops installed at levelled contours to control runoff. | Drainage strategy (Appendix 20.12, App Doc Ref 5.4.20.12) which is secured through a requirement in the draft DCO (App Doc Ref 2.1)<br><br>Lighting Design strategy (Appendix 2.5, App Doc Ref 5.4.2.5) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| 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. | 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.<br><br>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. | Sections 3, 4.2, 4.3, 5.2 and 7.6, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| Chapter 13: Historic Environment | Table 5.2 - Securing Mitigation | 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. | Section 7.4, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Section 5.4, Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through requirements of the draft DCO (App Doc Ref 2.1)<br><br>Approval of the Landscape masterplan in the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) |
| 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. | 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.<br><br>The landscape master plan will be designed to reduce the visual impact on historic landscape assets and character area. | Approval of the Design Plans (App Doc Ref 4.9) and Landscape master plan in the LERMP (Appendix 8.14App Doc Ref 5.4.8.14)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | | comply with the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5). |
| 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). | 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.<br><br>The landscape master plan will be designed to reduce the visual impact on historic landscape assets and character area | 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) |
| Chapter 13: Historic Environment | Table 5.2 - Securing Mitigation | 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. | Archaeological Investigation Method Strategy secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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 will be routed around rather than through Horningsea Conservation Area.<br><br>Measures are set out within Section 7.3 and 7.6 of the CoCP, Part A.<br><br>The lighting proposed will be mounted to minimise the spread of light in the surrounding area. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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)<br><br>Section 7.3 & 7.6, 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) |
| 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 structures and materials for the ground conditions present<br><br>Operational monitoring structural conditions and asset inspections (secondary) | Requirement within Schedule 2 f the draft DCO (App Doc Ref 2.1) to submit a detail design for approval.<br><br>Asset Management Plan (Appendix 9.1, App Doc Ref 5.4.9.1), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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 | Application of CL:AIRE Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) for the reuse of excavated waste materials (if required) | Section 7.9, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1), if required.<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Materials Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 14: Land Quality | Table 5.2 - Securing Mitigation | Exposure to contaminated soils through inhalation –off-site land users | Dust control measures set out in CoCP Part A Section 7.8 (Air Quality) | Section 7.8, COCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | | Approval and implementation of an Air Quality/Dust Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 14: Land Quality | Table 5.2 - Securing Mitigation | Partial loss of river terrace deposits during construction | Ensure maximum reuse of materials within the Proposed Development through application of CoCP Part A, Section 7.9, waste minimisation measures | Section 7.9, 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)<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Approval and implementation of a Materials Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 14: Land Quality | Table 5.2 - Securing Mitigation | Migration of contamination or leachate from inappropriate reuse of soils on the proposed WWTP site | Application of CL:AIRE Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) for the reuse of excavated waste materials (if required) | Section 7.9, 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)<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Approval and implementation of a Materials Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 14: Land Quality | Table 5.2 - Securing Mitigation | 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1) |
| Chapter 15: Landscape and Visual | Table 5.2 - Securing Mitigation | Damage to existing vegetation to be retained | 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.<br>CoCP Parts A (App Doc Ref 5.4.2.1 & 2) which requires that 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. | 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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| 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 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.<br><br>Design of structures in the proposed WWTP to minimise prominence of the infrastructure in the landscape and views.<br><br>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).<br><br>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 Low Fen Drove way and planting in gaps in the existing shelter belt between Horningsea and the Proposed WWTP. | Section 8.6, Mitigation through Green infrastructure in the Design and Access Statement (Application Document Ref 7.6).<br><br>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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Section 7.2 Tree/Hedgerow removal, CoCP Part A and Section 3.3 of Part B (Appendix 2.1 & 2.2, App Doc Refs 5.4.2.1 and 5.4.2.2) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Section 5.4, Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through requirements of the draft DCO (App Doc Ref 2.1). |
| | | | Design measures to avoid or minimise loss of river habitat within the River Cam are:<br>• designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile<br>• design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river;<br>• minimising extent of river bank protection works; and<br>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. | Direct and indirect impacts related to operation of the outfall will be minimised through rectifying erosion as determined through operational monitoring |
| | | | Direct and indirect impacts related to operation of the outfall will be minimised through rectifying erosion as determined through operational monitoring | Approval and implementation of a OMMP secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | Design of structures to reduce visual impact, design of lighting to minimise lighting impacts on the night-time landscape and views.<br><br>Design measures to prevent or minimise artificial light are:<br>• exclusion of lighting provision on the access road<br>• the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP<br>• habitat creation within the landscape masterplan that serves a screening function once mature | 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)<br><br>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).<br><br>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) |
| 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. | 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. | 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). |
| | | | 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):<br>• requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction<br>• minimising severance of hedgerows and reinstatement of hedgerows.<br>• replanting and maintenance of replanted trees, hedgerow and vegetation removed during construction<br>• 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.<br><br>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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Section 7.2 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) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1)<br><br>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) |
| 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 | 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):<br>• requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction<br>• use of solid site hoarding/temporary acoustic barriers at Waterbeach construction compound and around HDD | 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)<br><br>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Section 7.2 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) secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | pit locations/HDD plant during continuous working periods.<br>• 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.<br><br>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. | Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) which are secured through the requirements of the draft DCO (App Doc Ref 2.1)<br><br>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)2.1) |
| Chapter 16: Material Resources and Waste | Table 5.2 - Securing Mitigation | Depletion of material resources due to the construction of the Proposed Development | 100% reuse of the excavated material within trench reinstatement or landscape masterplan for Waterbeach Pipeline | Section 7.9, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 16: Material Resources and Waste | Table 5.2 - Securing Mitigation | 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 4,373m3 for Proposed WWTP | Section 7.9, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 16: Material Resources and Waste | Table 5.2 - Securing Mitigation | Depletion of material resources due to the construction of the Proposed Development | Use of precast structures (produce less waste) for treated effluent pipework | Section 7.9, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | 100% reuse of the excavated material within trench reinstatement or landscape masterplan for Waterbeach Pipeline | Section 7.9, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | | Doc Ref 2.1).<br><br>Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | Reuse of 90% of excavated material within landscape masterplan limiting required imported fill material to 4,373m3 for Proposed WWTP | Section 7.9, 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)<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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. | 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:<br>• emergency response measures including stopping works, training of staff, use of spill response equipment<br><br>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. | Sections 7.9, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Site Waste Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Compliance with the Waste (England and Wales) Regulations 2011 (as amended) |
| 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. | Implementation of the waste hierarchy<br><br>Obtaining an environmental permit, operating in accordance with the permit including the associated EMS procedures. | During operation, the Environmental Permit will require management system to cover waste management practices and procedures.<br><br>Waste (England and Wales) Regulations 2011 (as amended |
| 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 | 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<br><br>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), 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 Decommissioning Plan (secured through | The Environmental Permit sets out conditions relating to the management system which cover waste management practices and procedures.<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | requirements in the DCO), which will collectively secure deliver appropriate mitigation of the decommissioning activities. | Compliance with the Waste (England and Wales) Regulations 2011 (as amended) |
| 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. | Sludge produced by the Proposed WWTP is recycled and will be used as bio-fertilizer and spread on land. | Environmental permit issued by EA |
| Chapter 17: Noise and Vibration | Table 5.2 - Securing Mitigation | Construction noise impacts from the works at Shaft 4 and the Outfall. | 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).<br>• Restriction of working hours to avoid sensitive time periods for works at Shaft 4 and the Outfall.<br>• 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. | Sections 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Approval and implementation of a Noise & Vibration Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 17: Noise and Vibration | Table 5.2 - Securing Mitigation | Noise from heavy vehicles on construction traffic routes | 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).<br><br>Implementation of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7).<br><br>Restriction of working hours to avoid sensitive time periods and the use of solid site hoarding/temporary acoustic barriers when required. | Sections 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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)<br><br>Approval and implementation of a Noise & Vibration Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 17: Noise and Vibration | Table 5.2 - Securing Mitigation | Construction vibration during works at the Waterbeach pipeline, Transfer tunnel and Final effluent pipeline | 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 & 2.2App Doc Ref 5.4.2.1 & 5.4.2.2). Use of low vibration sources of equipment. | Sections 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Noise & Vibration Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 18: Odour | Table 5.2 - Securing Mitigation | Odour emission from biogas release to air (if required) | 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. | Legal requirement for IED permit from the Environment Agency |
| Chapter 18: Odour | Table 5.2 - Securing Mitigation | Odour emission from draining and cleaning of the waste water storage tanks and equipment | Transfer of the existing permit controls and odour management plan at the existing Cambridge WWTP to the proposed WWTP. Section 3.5, | Conditions set out within the existing Cambridge WWTP Environment Permit. |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | OMP (Appendix 18.4, App Doc Ref 5.4.18.4).<br><br>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)<br><br>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). | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Secured through a requirement in the draft DCO (App Doc Ref 2.1) to comply with the Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3). |
| Chapter 18: Odour | Table 5.2 - Securing Mitigation | Odour emission from normal operation of the proposed WWTP | Controls required by the IED permit such as operating in accordance with approved OMP (Appendix 18.4, App Doc Ref 5.4.18.4), and having an established emergency response procedures. | Legal requirement for IED permit from the Environment Agency including OMP (Appendix 18.4, App Doc Ref 5.4.18.4) |
| Chapter 18: Odour | Table 5.2 - Securing Mitigation | Odour emission from normal operation of the proposed WWTP | Design measures to manage odour release<br>• Covered reception areas at the terminal pumping station, inlet works and sludge tanks<br>• Low turbulence processes<br>• Venting of air from TPS, inlet and sludge tanks through the odour control plant<br>• Odour control facilities will be critical equipment to operate continuously in all conditions and supplied with a UPS | Legal requirement for IED permit from the Environment Agency including OMP (Appendix 18.4, App Doc Ref 5.4.18.4) |
| Chapter 18: Odour | Table 5.2 - Securing Mitigation | Odour emission from short- term tie- in works | Measures within CoCP Part B (Appendix 2.2App 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.<br><br>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. | Sections 7.8, 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). |
| Chapter 18: Odour | Table 5.2 - Securing Mitigation | Odour emission from sludge tanker spill within the WWTP | Controls required by the IED permit such as operating in accordance with approved OMP (Appendix 18.4, App Doc Ref 5.4.18.4), and having an established emergency response procedures. | Legal requirement for IED permit from the Environment Agency including OMP (Appendix 18.4, App Doc Ref 5.4.18.4) |
| Chapter 18: Odour | Table 5.2 - Securing Mitigation | Odour emission from transportation of seed sludge and commencement of biological processes with the proposed WWTP | Impacts managed through the following design measures:<br>• Covered reception areas at the terminal pumping station, inlet works and sludge tanks<br>• Low turbulence processes<br>• Venting of air from TPS, inlet and sludge tanks through the odour control plant<br>• 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 | Sections *7.8,* 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). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| Chapter 18: Odour | Table 5.2 - Securing Mitigation | Short term odour release from deliveries of wastewater and sludge | Manged through the following measures:<br>• Covered reception areas receiving waste water and sludge deliveries<br>• Use of sealed vehicles for the delivery of waste water and sludge | Legal requirement for IED permit from the Environment Agency including OMP (Appendix 18.4, App Doc Ref 5.4.18.4) |
| 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 | Ensure that entities responsible for transporting the load follow the regulations for notifying authorities.<br><br>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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>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) |
| 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 hazardous loads | Implementation of the CTMP in particular 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>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) |
| 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 hazardous loads | Temporary traffic control, design of temporary connections to the road network, sequencing the proposed WWTP access road construction. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road | Implementation of the CTMP in particular:<br>• 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<br>• 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.<br>• 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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | in Article ## of the DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders)<br>• 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. | |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road | 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 | Sections 3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road | 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:<br>• Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road | 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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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) | Appropriate design of temporary connections from works areas to the road network | Requirement for approval of detailed design of temporary access connection to meet local highway standards secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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) | 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. | 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) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Construction Traffic Management Plan (Appendix 19.7App Doc Ref |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | | 5.4.19.7), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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) | Implementation of the CTMP in particular<br>• Section 6.3 Adherence to Designated Routes<br>• 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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) | 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 | Sections 3, CoCP Part A (App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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) | 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:<br>• Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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) | 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:<br>• Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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) | 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 | 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 phase secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse effect on pedestrians travelling along / crossing roads that are part of the | 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 | Sections3 , 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). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | construction route (that do not meet the criteria in IEMA rule 2) | ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak. | 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Construction Workers Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | 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 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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | 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 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | 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 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | 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 7.7 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. | Sections 7.7, 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) secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak. | 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak. | Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | associated with the construction of the Proposed Development, this will include the following:<br>• Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation | 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) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak. | 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 | 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 phase secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse impacts on driver delay at the A10 approach of the Milton Interchange in the PM peak | Implementation of Section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse impacts on driver delay at the A10 approach of the Milton Interchange in the PM peak | Implementation of Section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse impacts on driver delay at the A10 approach of the Milton Interchange in the PM peak | 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:<br>• Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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. | 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Construction Workers Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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. | 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. | Sections 7.7, 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) secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 19: Traffic and Transport | Table 5.2 - Securing Mitigation | Construction traffic leads to temporary adverse impacts on driver delay at the | Implementation of the CTMP in particular<br>• Section 6.3 Adherence to Designated Routes | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak. | • Section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks<br>• Section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours | 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) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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. | 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:<br>• Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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. | 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 including: communication of construction activity, construction vehicle movements. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| Chapter 19: Traffic and Transport | Table 5.2 - 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. | 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<br><br>Implementation of the CTMP in particular<br>• Section 6.3 Adherence to Designated Routes<br>• 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<br>• Section 6.9 avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time<br><br>Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works<br><br>Implementation of the CTMP 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 Article 16 of the DCO. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Construction Traffic Management Plan (App Doc Ref 5.4.19.7), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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. | 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Construction Workers Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9), secured through a requirement of the draft DCO (App Doc Ref 2.1) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| 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. | 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. | Sections 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). |
| 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. | Implementation of the CTMP in particular<br>• Section 6.3 Adherence to Designated Routes<br>• 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<br>• Section 6.9 avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time<br>• Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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. | Implementation of the CTMP section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which requires junction widening at:<br>• Bannold Road / Bannold Drove<br>• Bannold Road / Burgess's Drove<br>• Burgess's Drove | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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. | Implementation of the CTMP section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which requires temporary widening measures for vehicle passing at:<br>• Denny End Road<br>• Bannold Road<br>• Bannold Drove<br>• Clayhithe Bridge<br>• Long Drove<br>• Cambridge Road<br>• Chapel Street<br>• Station Road | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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. | Implementation of the CTMP 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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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. | 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: | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref |

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| | | | • Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation | 5.4.19.7), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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. | 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 ... | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| 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) | Appropriate design of temporary connections from works areas to the road network in accordance with local highways standards | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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) | 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Construction Workers Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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) | Implementation of section 7.7 of the CoCP Part A ( 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. | Sections 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). |
| 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) | Implementation of the CTMP in particular 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):<br>• On Horningsea Road, located immediately north and south of the A14 signalised junctions; and<br>• North of Low Fen Drove Way to capture construction vehicles associated with temporary site access points COA3 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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) | Implementation of the CTMP in particular<br>• Section 6.3 Adherence to Designated Routes<br>• 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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| 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) | 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:<br>• communication of construction activity, construction vehicle movements | Schedule 2 -Requirement to implement CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) Part A secured through a requirement of the draft DCO (App Doc Ref 2.1)<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| 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 | 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 PRoW in particular;<br>• the requirement to maintain access through the use of safety gates to allow safely cross the construction working area.<br>• the requirement to divert PRoW where no safe option exists to continue its use<br>• the requirement to restore PRoW to the same condition as before the works took place | Sections 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). |
| 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 | 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 | Sections 3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| 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 | 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:<br>• communication of construction activity, construction vehicle movements.<br>• Requirement to appoint CLO<br>• Requirement to implement approved CLP | Sections 3, CoCP Part A (Appendix 2.1App Doc Ref 5.4.2.1) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| 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 | 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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Outfall Management and Monitoring Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | Implementation of the CTMP in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) ) which:<br>• requires connectivity/access to community facilities and residential properties to be maintained during works. At the level | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | 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<br>• 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<br>• 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 | 5.4.19.7), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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 | 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 the draft DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders) | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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 | 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 | Sections 3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| 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 | 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:<br>• Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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 | 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| 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) | 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. | Sections 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). |
| 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) | 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 | Sections 3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| 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) | 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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) | 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:<br>• Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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) | 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<br><br>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:<br>• Documented pre-commencement meetings with the site management team as a contractual requirement;<br>• Active traffic management; and<br>• FORS and CLOCS accreditation<br>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.<br><br>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 | Sections 3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | 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 | |
| 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 | 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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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 | Implementation of the CTMP in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which;<br><br>• 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<br>• 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 the draft DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders)<br>• requires temporary parking restrictions on Bannold Road junction with Denny End Road / Car Dyke Lane for the duration of the Waterbeach pipeline construction | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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 | 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 | Sections 3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| 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 | 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:<br><br>• 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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • Construction Logistics & Community Safety (CLOCS) – Is a set of road safety requirements to be adopted during the construction period by the supply chain. | |
| 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 the local road network (that do not meet rule 2) | Implementation of the CTMP in particular 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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 the local road network (that do not meet rule 2) | Implementation of the CTMP in particular<br>• Section 6.3 Adherence to Designated Routes<br>• 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<br>• 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. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| 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 the local road network (that do not meet rule 2) | 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:<br>• 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<br>• Construction Logistics & Community Safety (CLOCS) – Is a set of road safety requirements to be adopted during the construction period by the supply chain. | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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) |
| Chapter 19: Traffic and Transport | Table 5.3 - Securing Mitigation | 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<br><br>Monitoring of the Operational Workers Travel Plan (OWTP) will be a requirement of CCC for a 5-year period | Operational Workers Travel Plan (Appendix 19.8, App Doc Ref 5.4.19.8), secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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 | Controlled through h Operational Transport Logistics Plan and requirements in relation coordination of vehicle movements in line with the regulations for notifying authorities of abnormal loads | Approval and implementation of an Operation Logistics Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | 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). | Approval and implementation of an Operation Logistics Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | Management of construction 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 . | |
| 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 | 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:<br>• measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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.<br>• requirement for refuelling of machinery used fort the works to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained | Sections 4.4, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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. | Incidences of emergent groundwater will be managed by surface water drainage design.<br><br>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:<br><br>• provide a segregated drainage system for the proposed WWTP in areas of potential contamination.<br>• determine the area of permeable surfaces within the land required for the landscape masterplan, access road and proposed WWTP through which infiltration could occur.<br>• 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 | Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Drainage strategy (Appendix 20.12, App Doc Ref 5.4.20.12) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| Chapter 20: Water Resources | Table 5.2 - Securing Mitigation | Impact of cofferdam, used to maintain dry conditions during outfall construction, on water quality of the River Cam | 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 | 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 |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | will include the requirement to implement best practice measures including:<br>• 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.<br>• 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:<br>• 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<br>• 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 slops installed at levelled contours to control runoff. | Sections 4.4 5.13, and 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).<br>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).<br>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | 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:<br>• 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 slops installed at levelled contours to control runoff.<br><br>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 | 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).App Doc Ref<br>Sections 3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | whilst construction work takes place. These will be reflected in an appended plan to/as part of the CEMP. This will include the following:<br>• requirement to minimise construction period for sections identified within the flood zone<br>• the timing of river crossing works in summer months if possible<br>• requirement for a flood management plan for construction works within areas at risk of flooding<br>• Inclusion of dry access/egress routes for pedestrians from compounds<br>• requirement for any soil temporarily stored within the flood zone, to include gaps to allow flood water to run through | |
| 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. | 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:<br>• management of dewatering activities in accordance with Environment Agency specifications including rates and durations<br>• 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 | Sections 4.4 Construction Environment Management Plan, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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). |
| Chapter 20: Water Resources | Table 5.2 - Securing Mitigation | Impact of dewatering during outfall construction on groundwater and surface water flows and levels | 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:<br>• management of dewatering activities in accordance with Environment Agency specifications including rates and durations<br>• 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 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<br><br>Sections 4.4 Construction Environment Management Plan, Section 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) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river. |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| 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 | 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. | Sections 4.4 Construction Environment Management Plan, Section 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 Sections 3.3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>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). |
| 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. | 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. | Implementation of works to accord with the requirements of the Environmental Permit (Abstraction/Water Discharges) and or work within RPS261 issued by the Environment Agency<br><br>Sections 3.3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | Management of dewatering on the changes to groundwater through:<br>• 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.<br>• there will not be any dewatering to the Black Ditch itself. | Implementation of works to accord with the requirements of the Environmental Permit (Abstraction/Water Discharges) and or work within RPS261 issued by the Environment Agency<br><br>Sections 3.3, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Community Liaison Plan (CLP) (App Doc Ref 7.8) which is secured through a requirement in the draft DCO (App Doc Ref 2.1) |
| | | | 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.<br><br>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. | 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). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| 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 | 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:<br>• 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.<br>• 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. | Sections 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).<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Sections 3.1 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). |
| Chapter 20: Water Resources | Table 5.2 - Securing Mitigation | Impact of excavation and backfill of Waterbeach pipeline trench on land drains and groundwater flow | 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:<br>• 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.<br>• 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. | Sections 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).<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Sections 3.4 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). |
| Chapter 20: Water Resources | Table 5.2 - Securing Mitigation | Impact of leakage from Waterbeach pipeline to groundwater quality | Management of excavation and backfill on drainage and groundwater through:<br>• robust design, construction and pressure testing of the Waterbeach pipeline which will mitigate against pipeline leakage during operation | No derogation agreement (if used)<br>Sections 3.4, 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).<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • 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. | Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4) secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| Chapter 20: Water Resources | Table 5.2 - Securing Mitigation | Impact of minor inflows of groundwater to shafts or outflow of waste water from the TPS shaft | 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. | *Requirement to prepare and implement an operational monitoring programme secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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 | 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.<br><br>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. | The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.<br><br>Operational maintenance plan<br>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. |
| | | | 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:<br><br>• provide a segregated drainage system for the proposed WWTP in areas of potential contamination within the proposed WWTP.<br><br>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. | 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) |
| | | | 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 | 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). |

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| | | | 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 . | |
| 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 | 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:<br>• 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.<br>• the use of trenchless techniques to install structures below the river-bed | 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)<br>Approval and implementation of a CEMP secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Sections 3.4, 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). |
| Chapter 20: Water Resources | Table 5.2 - Securing Mitigation | Impact of wet testing of tanks and pipes within proposed WWTP on groundwater quality. | 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:<br>• 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<br>• 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<br>• measures applied for the management of leaks and spillages such as use of drip trays under construction plant and equipment, provision of spill kits<br>• requirement for emergency response measures to be in place including stopping works, training of staff, use of spill response equipment | Sections 7.5, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.212) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Sections 3.3, 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).<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| | | | 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 | 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). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | requirements in the DCO), which will collectively secure deliver appropriate mitigation of the wet commissioning activities. | |
| Chapter 20: Water Resources | Table 5.2 - Securing Mitigation | Impact to fluvial flood risk due to construction of the outfall | 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:<br>• 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.<br>• the timing of river works in summer months<br>• requirement for a flood management plan for construction works within areas at risk of flooding<br>• 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<br>• 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. | Sections 5.13 and 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).<br>Phasing of construction activities Section3.1 of the CoCP Part B in relation to completion of in river works in summer months when water levels are expected to be lower secured through a requirement of the draft DCO (Appendix 2.2, App Doc Ref 5.4.2.2).<br>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river. |
| Chapter 20: Water Resources | Table 5.2 - Securing Mitigation | Impact to groundwater abstractions due to dewatering of open-cut trenches during Waterbeach pipeline installation | 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:<br>• 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 slops installed at levelled contours to control runoff<br>• 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. | Sections 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).<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br>Sections 3.4 CoCP Part B (Appendix 2.2App Doc Ref 5.4.2.2) secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | • Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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.<br>• Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained<br>• Management of excavation and backfill on drainage and groundwater through:<br>• Robust design, construction and pressure testing of the Waterbeach pipeline which will mitigate against pipeline leakage during operation | |
| | | | 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 | Sections 3.4 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).<br>No derogation agreement |
| Chapter 20: Water Resources | Table 5.2 - Securing Mitigation | Impact to groundwater quality due to construction of interception Shaft 1 and intermediate Shafts 2 and 3. | 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:<br>• 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.<br>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 | 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).<br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Conditions set out within an Environmental Permit that may be required in relation to dewatering activities associated with the construction of intermediate shafts. 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).<br><br>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). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974' ) including:<br>• measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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.<br>• requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained<br>• emergency response measures including stopping works, training of staff, use of spill response equipment<br>• 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. | |
| 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. | 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 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:<br>• emergency response measures including stopping works, training of staff, use of spill response equipment | Sections 4.4, 5.7, Pollution Incident Control Plan, 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).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | 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.<br><br>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 limits and monitoring obligations secured through Environmental Permit<br><br>The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention. |
| | | | 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 | 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 |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | avoid or minimise impacts to surface water run-off from the proposed WWTP:<br>• Design of access road drainage to incorporates sustainable drainage features<br>• Inclusion of segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy | (Version 1.2) secured through a requirement of the draft DCO (App Doc Ref 2.1) |
| 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 | 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:<br>• 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<br>• 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 slops installed at levelled contours to control runoff.<br>• 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<br>• Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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. | 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) secured through a requirement of the draft DCO (App Doc Ref 2.1). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained | |
| 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. | 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:<br>• 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 slops installed at levelled contours to control runoff.<br>• 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.<br>• Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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.<br>• Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained | Sections 4.4 Construction Environment Management Plan, Section 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) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| | | | 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 . | 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). |
| 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. | Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2App 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 | Sections 4.4 Construction Environment Management Plan, Section 7.5 Water resources and flood risk (dewatering, management of silt during construction) and 5.7, Pollution Incident Control Plan, CoCP Part A (Appendix 2.1App Doc Ref 5.4.2.1) secured through a requirement of the |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | 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:<br>• Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits<br>• 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 slops installed at levelled contours to control runoff.<br>• 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.<br>• Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained<br>• Requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment<br>• 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 slops installed at levelled contours to control runoff. | draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | 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:<br>• Management of dewatering activities in accordance with Environment Agency specifications including | Sections 4.4 Construction Environment Management Plan, Sections 7.4, Land Quality (Drilling Fluid Breakout),Section 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 secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>The Environmental Permit will include conditions requiring management systems to cover emergency responses and pollution prevention.<br><br>Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour.<br>• The management of potential impacts associated with the disposal of pipeline testing fluids will be through:<br>• 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<br>• Disposal to watercourse at controlled rates and locations as agreed with the Environment Agency and set out within conditions of the required Environmental Permit<br>• Clean water will be used for pressure testing. Chlorine will be removed prior to discharge according to Environment Agency permit conditions. | testing activities and water disposal as secured through applicable Environmental Permit. |
| 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 impact on nature conservation sites. | 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.<br><br>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.<br><br>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... | No derogation agreement<br><br>Sections 4.4 Construction Environment Management Plan, Section 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) secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Approval and implementation of a Construction Environmental Management Plan secured through a requirement of the draft DCO (App Doc Ref 2.1).<br><br>Requirement water level management and monitoring plans to include specific provision for the specified locations through a requirement of the draf DCO (App Doc Ref 2.1) |
| 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 | Design measures to prevent or minimise scour and impacts from operation of the outfall are:<br>• design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall;<br>• flow rates controlled to be similar to existing outfall;<br>• design of storm storage volumes and flow rates to meet regulatory requirements;<br>• inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision | Preparation of accepted Outfall design and construction method statement secured through the Environmental Permit (flood risk activities)<br><br>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). |
| 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 | Design measures to prevent or minimise scour and impacts from operation of the outfall are:<br>• design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall;<br>• flow rates controlled to be similar to existing outfall;<br>• design of storm storage volumes and flow rates to meet regulatory requirements; | Preparation of accepted Outfall design and construction method statement secured through the Environmental Permit (flood risk activities)<br><br>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). |

| Chapter number | Mitigation location | Description of impact | Mitigation measure | Secured by |
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| | | | inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision | |
| | | | 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. | Approval and implementation of an Outfall Management and Monitoring Plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | 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 | Approval of an interface plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 21:Cumulative Effects Assessment | Table 4 3: Potential cumulative effects during construction | 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 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. | Approval of an interface plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| 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 | 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 | Approval of an interface plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |
| Chapter 21:Cumulative Effects Assessment | Table 4 3: Potential cumulative effects during construction | Flood risk | 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 | Approval of an interface plan secured through a requirement of the draft DCO (App Doc Ref 2.1). |

# Get in touch

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Emailing at **info@cwwtpr.com**

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



Writing to us at **Freepost: CWWTPR**

Visiting our website at [redacted]

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/**