
The Cambourne to Cambridge Order

Transport And Works Act 1992

Transport And Works (Applications And Objections Procedure) (England And Wales) Rules 2006

Appendix ES1 - Mitigation Register

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Cambourne to Cambridge - Environmental Mitigation Register

This Environmental Mitigation Register provides a summary of the various measures adopted within, or an assumed part of, the proposals for the CtoC Scheme. The measures are necessary to mitigate adverse environmental effects, making potentially significant effects not significant. The measures are captured through various mechanisms. Design mitigation measures are shown on the deemed planning drawings. Others will be achieved at a later stage, with the commitment to implement them captured through various commitments, particularly the draft planning conditions.										Potentially mitigated (✓) or additional (✗) effects														
Ref	Description	Location	Purpose	Mitigation type	Delivery mechanism	Location within the Environmental Statement	Impacts mitigated	Temporary or Permanent	Status	L&V	Ecology	Surface water	Ground-water	Flood risk	Soils and land	Built heritage	Archaeology	Socio-economic	Noise and vibration	Air quality	Transit and access	Carbon emissions	Materials	Climate resilience
1	Design Speed of 50 KPH / 30MPH on a link without discontinuities	Upper Cambourne	Reduced speeds reduces the level of air and noise pollution and the severity of potential accidents	Minimise	Speed limit order, Sheet 1 and 2 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001)	N/a	Noise pollution; and air pollution	Permanent											✓	✓	✓	✓		
2	To mitigate potential impacts on great crested newt, (see TR05) two options are available (1 in preference to 2): 1.A District Level Licencing (DLL), replacing the need for ecological mitigation to be provided by the Applicant within the Scheme boundary and also replace the need for a specific European Protected Species (EPS) licence relating to Great Crested Newts. A provisional Impact Assessment Conservation Payment Certificate in relation to DLL would be issued by NE. Following the grant of the TWAO and deemed planning permission, the Applicant would submit an application to use DLL based on the deemed planning permission and the remaining conservation payment under the scheme agreement would be made; or 2.A European Protected Species (EPS) Licence would be sought under The Conservation of Habitats and Species Regulations 2017, Regulation 55, with Natural England the consenting authority and the anticipated application date would be parallel to / post- TWAO/deemed planning permission	Bourn Airfield and Childerley Gate	Ensure compliance with respect to impacts on great crested newt	Rectify	Planning condition 8	Technical Report 5 Ecology, Appendix TR5.17 Great Crested Newts Report 2024, Section 6	Protected species	Permanent			✓													
3	Retention of existing habitat to the north of the CtoC Scheme	Bourn Airfield	To maintain green corridor for bat movements and as part of the landscape character	Avoid	Embedded design; Planning conditions 17 and 18	Technical Report 5 Ecological Impact Assessment, Section 7.4	Habitat loss and fragmentation	Permanent		✓	✓													
4	Attenuation pond 01	Bourn Airfield	To store storm water and attenuate discharge from the drainage network	Minimise	Sheet 1 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 2 and 14	Technical Report 13 Water Environment, Appendix TR13.1 FRA, Annex TR13.1.3 Surface Water Drainage Strategy	Flood risk	Permanent				✓		✓										✓
5	Elevated ground levels on either side of the CtoC Scheme	Northeast of Wellington Way	To lift bat flight path over the CtoC Scheme	Minimise	Sheet 4 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 2 and 18	Technical Report 5 Ecological Impact Assessment, Section 7.4	- Fragmentation of field boundary; and - Habitat loss	Permanent			✓													
6	Semi-mature tree planting either side of the CtoC Scheme	Northeast of Wellington Way	To screen existing landscape from the CtoC Scheme and to lift bat flight path over the CtoC Scheme	Minimise	Sheet 4 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 17 and 18	Technical Report 5 Ecological Impact Assessment, Section 7.4	Visual impact to existing landscape of the CtoC Scheme	Permanent		✓	✓													
7	Attenuation basin 02	St Neots Road	To store storm water and attenuate discharge from the drainage network	Minimise	Sheet 5 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 2 and 14	Technical Report 13 Water Environment, Appendix TR13.1 FRA, Annex TR13.1.3 Surface Water Drainage Strategy	Flood risk	Permanent				✓		✓										✓
8	Native woodland planting to the south of the CtoC Scheme, around Basin 2 and Basin 02A	South of the A428	To compensate for loss of existing woodland	Compensate	Sheet 5 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 17	Design and Access Statement, Section 9 (CtoC-17-00-00)	- Habitat loss; and - Fragmentation	Permanent		✓	✓									✓				

9	Attenuation basin 02A	West of Scotland Road Roundabout	To store storm water and attenuate discharge from the drainage network	Minimise	Sheet 5 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 2 and 14	Technical Report 13 Water Environment, Appendix TR13.1 FRA, Annex TR13.1.3 Surface Water Drainage Strategy	Flood risk	Permanent					✓		✓								✓
10	Semi-mature tree planting to the south of the CtoC Scheme north of St Neots Road	North of St Neots Road	To screen the CtoC Scheme from properties south of St Neots Road	Minimise	Sheet 5 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 17	Design and Access Statement, Section 9 (CtoC-17-00-00)	Visual impact to properties south of St Neots Road	Permanent			✓	✓							✓				
11	Alignment goes on-road along St Neots Road between Scotland Farm roundabout and Long Road to avoid land take to shelterbelt between road and A428	St Neots Road	To avoid loss of tree screen	Avoid	Sheet 6, 8 and 9 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 2	N/a	Avoids permanent loss of the shelter belt between St Neots Road and the A428	Permanent			✓	✓								✗		✓	
12	Planting of semi-mature trees and native woodland to the northwest and north of the Scotland Road Travel Hub (Scotland Road Park and Ride)	Scotland Road Travel Hub	To screen the Scotland Road Travel Hub from the properties along Scotland Road	Minimise	Sheet 7 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 17	N/a	Visual impact to properties along Scotland Road	Permanent			✓	✓							✓				
13	Outflow from the Scotland Road Travel Hub SUDs will be designed to provide sufficient pollution reduction to allow for discharge to Callow Brook	Scotland Road Travel Hub	To reduce pollutants reaching Callow Brook	Minimise	Sheet 7 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning Condition 9	Technical Report 13 Water Environment, Appendix TR13.1 FRA, Annex TR13.1.3 Surface Water Drainage Strategy	Water pollution	Permanent				✓	✓										
14	Attenuation basin 08	Scotland Road Travel Hub	To store storm water and attenuate discharge from the drainage network	Minimise	Sheet 7 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 2 and 14	Technical Report 13 Water Environment, Appendix TR13.1 FRA, Annex TR13.1.3 Surface Water Drainage Strategy	- Habitat loss; and - Fragmentation	Permanent			✓	✓	✓		✓								✓
15	Woodland retention north of St Neots Road	North of St Neots Road	Mature plants provide screening and maintain the existing green corridor that runs north to south, benefiting bat movements	Minimise	Sheet 8 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 17	Technical Report 5 Ecological Impact Assessment, Section 7.4	- Habitat loss; and - Fragmentation	Permanent			✓	✓							✓				
16	Attenuation basin 09	South of St Neots Road, West of Long Road	To store storm water and attenuate discharge from the drainage network	Minimise	Sheet 9 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 2 and 14	Technical Report 13 Water Environment, Appendix TR13.1 FRA, Annex TR13.1.3 Surface Water Drainage Strategy	- Habitat loss; and - Fragmentation	Permanent					✓		✓								
17	Alignment diverges south from St Neots Road at a point west of Comberton Plantation, so avoiding the plantation	St Neots Road west of Long Road	To avoid wooded area south of Madingley Mulch	Avoid	Sheet 9 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 2	N/a	- Land take; - Habitat loss; - Fragmentation of field pattern; and - Removal of screening	Permanent			✓	✓				✗							

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27	Semi-mature tree planting	North of Coton	To maintain green corridor and to compensate for the removal of existing hedgerow	Minimise	Sheet 12 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 17 and 25	Technical Report 8 Landscape and Visual, Section 5.2	Habitat loss	Permanent			✓	✓								✓				
28	Bat hop over incorporating planting of semi-mature trees north to south. The CtoC Scheme is in cutting within this area	North of Coton	To lift bat flight path over the CtoC Scheme	Minimise	Sheet 12, 13 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 17 and 18	Technical Report 5 Ecological Impact Assessment, Section 7.4	- Fragmentation of field boundary; and - Habitat loss	Permanent				✓								✓				
29	Semi-mature tree planting proposed to north of property 48 High Street in Coton	North of property 48 High Street, Coton	To screen properties (No. 19 etc) to south of the CtoC Scheme to west of Cambridge Road	Minimise	Sheet 13 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 17	Technical Report 8 Landscape and Visual, Section 5.2	Visual impact to property No. 48 High Street south of the CtoC Scheme	Permanent				✓								✓				
30	Bat hop over incorporating raised land to the north of the CtoC Scheme, with hedgerows and semi-mature trees north to south	North of Coton	To lift bat flight path over the CtoC Scheme	Minimise	Sheet 13 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 17 and 18	Technical Report 5 Ecological Impact Assessment, Section 7.4	- Fragmentation of field boundary; and - Habitat loss	Permanent				✓								✓				
31	Maintenance of existing hedgerow to maintain green corridor	North of Coton	To maintain green corridor for bat movements and as part of the landscape character	Avoid	Sheet 13 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 17 and 18	Technical Report 5 Ecological Impact Assessment, Section 7.4	- Habitat loss; and - Fragmentation	Permanent			✓	✓								✓				
32	Semi-mature tree planting proposed to south of CtoC Scheme, west of Cambridge Road	North of properties on the west of Cambridge Road	To screen properties (No. 19 etc) to south of the CtoC Scheme to west of Cambridge Road	Minimise	Sheet 13 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 17	Technical Report 8 Landscape and Visual, Section 5.2	Visual impact to properties south of the CtoC Scheme	Permanent			✓	✓								✓				
33	Semi-mature tree planting along the CtoC Scheme as it traverses Coton Orchard. Fruiting or nut tree varieties on vigorous rootstocks to mimic orchard	Coton Orchard	To maintain the character of the existing landscape, merging with the Orchard from a visual perspective	Compensate	Sheet 13, 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 17	Technical Report 8 Landscape and Visual, Section 5.2	- Habitat loss; and - Fragmentation	Permanent			✓	✓								✓				
34	Mammal culverts along the section of the CtoC Scheme which traverses Coton Orchard. The mammal culverts will be accompanied by badger fencing to direct badgers towards the culverts	Coton Orchard	To facilitate badger movements across Coton Orchard	Compensate	Sheet 13, 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 2 and 8	Technical Report 5 Ecological Impact Assessment, Section 7.4	- Habitat loss; and - Fragmentation	Permanent				✓												
35	Sequence of mitigation options (in line with mitigation hierarchy) to address potential impacts on relevant apple trees in Coton Orchard	Coton Orchard	To minimise the loss of as many as practicable of the six trees; three potentially avoided; others to be translocated or new trees to be established elsewhere	Avoid	Planning condition 10	Technical Report 14 Arboriculture, Appendix TR14.2 Veteran Tree Mitigation and Compensation Strategy, Section 2 & 3	Loss of c.100 year old apple trees, one considered veteran under NPPF criteria	Permanent			✓	✓				✓								

36	Existing poplars to be pollarded	Along the eastern boundary of Coton Orchard	To reduce the risk that trees will fall onto the road, maintaining safety of road uses and maintaining landscape features which promote bat movements across the CtoC Scheme	Minimise	Sheet 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 10	N/a	- Habitat loss; and - Fragmentation	Permanent				✓												✓
37	Semi-mature tree planting	East of Coton Orchard	To compensate for loss of existing woodland and maintenance of existing bat flight paths	Minimise	Sheet 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 17 and 18	Technical Report 5 Ecological Impact Assessment, Section 7.4	- Habitat loss; and - Fragmentation	Permanent			✓	✓							✓					
38	Attenuation pond 05	West of M11	To store storm water and attenuate discharge from the drainage network	Minimise	Sheet 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 2 and 14	Technical Report 13 Water Environment, Appendix TR13.1 FRA, Annex TR13.1.3 Surface Water Drainage Strategy	- Habitat loss; and - Fragmentation	Permanent				✓		✓										✓
39	Semi-mature tree planting proposed south of Rectory Farm	West of M11	To screen Rectory Farm from the CtoC scheme to the south	Minimise	Sheet 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 17	Technical Report 8 Landscape and Visual, Section 5.2	Visual impact to Rectory Farm	Permanent			✓	✓							✓					
40	Design Speed for section of route incorporating M11 Bridge	M11 Overbridge	Reduced speeds reduces the level of air and noise pollution and the severity of potential accidents	Minimise	Sheet 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Speed limit order	N/a	- Noise pollution; and - Air pollution	Permanent											✓	✓	✓			
41	Maintenance of access on bridleway 39/30 parallel to M11, east of the M11	M11 Overbridge	Maintain access	Avoid	Sheet 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Diversion of Bridleway provided for in Order	N/a	Continuance of bridleway 39/30 through temporary then permanent diversions	Permanent				✗						✓		✓				
42	Drainage attenuation geocellular tank (Crates 12)	East of M11	To store storm water and attenuate discharge from the drainage network	Minimise	Sheet 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning conditions 2 and 14	Technical Report 13 Water Environment, Appendix TR13.1 FRA, Annex TR13.1.3 Surface Water Drainage Strategy	- Habitat loss; and - Fragmentation	Permanent				✓	✓		✓									✓
43	Diversion of bridleway 39/30	East of M11	To maintain access along the existing public right of way	Rectify	Sheet 14 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 9, Draft TWAO	Technical Report 4 Community Human Health and Land Use, Section 5.1	Severance of public access	Permanent										✓		✓				
44	Diversion of public right of way 39/31	South of the University of the Cambridge	To maintain passage along the existing public right of way 39/31	Rectify	Sheet 15, 16 of the deemed planning drawings proposed site plans (70086660-WSP-HGN-XX-DR-HW-002001); Planning condition 9, Draft TWAO	Technical Report 4 Community Human Health and Land Use, Section 5.1	Severance of public access	Permanent												✓				

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