

Welsh Government

M4 Corridor around Newport

Environmental Statement
Supplement Volume 3:

Appendix S1.1 List of Updated/New
Figures and Appendices

M4CaN-DJV-EGN-ZG_GEN-AX-EN-0019

At Issue | September 2016

Scheme Description

1.1.1

Chapter 2 of the March 2016 ES was supported by Figures 2.1 to 2.16 and Appendices 2.1 to 2.4. These items are listed below, with a description of any changes since the March 2016 ES.

Changes to Chapter 2 Text, Figures and Appendices

Item	Title	Changes Made
Chapter 2	Scheme Description	This ES Supplement sets out the key changes to the Scheme (Part D) and should be read in conjunction with Chapter 2 of the March 2016 ES.
Figure 2.1	Administrative Areas and Existing M4	No change. Please refer to Figure 2.1 of the March 2016 ES.
Figure 2.2	Existing M4 – Environmental Context	No change. Please refer to Figure 2.2 of the March 2016 ES.
Figure 2.3	Proposed New Section of Motorway – Environmental Context	No change. Please refer to Figure 2.3 of the March 2016 ES.
Figure 2.4	General Arrangement Plans	This document has been updated. The updated version provided at Figure R2.4 replaces Figure 2.4 of the March 2016 ES
Figure 2.5	Highway Drainage and Reen Mitigation Plans	This document has been updated. The updated version provided at Figure R2.5 replaces Figure 2.5 of the March 2016 ES
Figure 2.6	Environmental Masterplans	This document has been updated. The updated version provided at Figure R2.6 replaces Figure 2.6 of the March 2016 ES
Figure 2.7	Proposed New Section of Motorway Cross Sections	This document has been partially updated. The updated version of sheets 5, 12 & 13 of Figure R2.7 replaces the corresponding sheets of Figure 2.7 of the March 2016 ES
Figure 2.8	Proposed New Section of Motorway Long Sections	This document has been updated. The updated version provided at Figure R2.8 replaces Figure 2.8 of the March 2016 ES
Figure 2.9	Percoed NMU Bridge	This document has been updated. The updated version provided at Figure R2.9 replaces Figure 2.9 of the March 2016 ES
Figure 2.10	Duffryn Railway Underbridge	No change. Please refer to Figure 2.3 of the March 2016 ES.
Figure 2.11	Lighthouse Road Overbridge	No change. Please refer to Figure 2.3 of the March 2016 ES.
Figure 2.12	River Ebbw Underbridge	This document has been updated. The updated version provided at Figure R2.12 replaces Figure 2.12 of the March 2016 ES
Figure 2.13	River Usk Crossing Plan and Elevation	This document has been partially updated. The updated version provided at Figure R2.12a replaces Figure 2.12a of the March 2016 ES
Figure 2.14	North Row Overbridge	No change. Please refer to Figure 2.15 of the March 2016 ES.
Figure 2.15	Proposed New Section of Motorway: Typical Section of Highway Across the Gwent Levels	No change. Please refer to Figure 2.15 of the March 2016 ES.
Figure 2.16	Total Permanent and Temporary Land Take	This document has been updated. The updated version provided at Figure R2.16

Item	Title	Changes Made
		replaces Figure 2.16 of the March 2016 ES
Appendix 2.1	Operational Traffic Data	This document has been updated. The updated version provided at Appendix R2.1 replaces Appendix R2.1 of the March 2016 ES
Appendix 2.2	Drainage Strategy Report	This document has been updated. The supplement to the drainage strategy provided at Appendix S2.1 should be read in conjunction with Appendix 2.2 of the March 2016 ES
Appendix 2.3	Reen Mitigation Strategy	This document has been updated. The supplement to the strategy provided at Appendix S2.2 should be read in conjunction with Appendix 2.3 of the March 2016 ES
Appendix 2.4	Carbon Report	No change. Please refer to Appendix 2.4 of the March 2016 ES.

1.1.1 In addition to the above, a number of new appendices have been prepared to support this ES Supplement. These are listed below.

Chapter 2: New Appendices

Item	Title
Appendix S2.1	Supplementary File Note on Reen Mitigation Strategy
Appendix S2.2	Supplementary Drainage Strategy Report
Appendix S2.3	Errata List for Figures 2.4 and 2.5

Scheme Construction

1.1.2 Chapter 3 of the March 2016 ES was supported by Appendices 3.1 to 3.3. These items are listed below, with a description of any changes since the March 2016 ES.

Changes to Chapter 3 Text and Appendices

Item	Title	Changes Made
Chapter 3	Scheme Construction	No change. Please refer to Chapter 3 of the March 2016 ES.
Appendix 3.1	Buildability Report	No change. Please refer to Appendix 3.1 of the March 2016 ES.
Appendix 3.2	Pre-Construction Environmental Management Plan	No change. Please refer to Appendix 3.2 of the March 2016 ES.
Appendix 3.3	Preliminary Construction Traffic Figures	No change. Please refer to Appendix 3.3 of the March 2016 ES.

Air Quality

1.1.3 Chapter 7 of the March 2016 ES was supported by a number of figures and appendices. These items are listed below, with a summary of any changes since the March 2016 ES.

Changes to Chapter 7 Text, Figures and Appendices

Item	Title	Changes Made
Chapter 7	Air Quality	This ES Supplement sets out the key changes to Chapter 7 and should be read in conjunction with Chapter 7 of the March 2016 ES.
Figures 7.1	Study Area for Air Quality Assessment	No change. Please refer to Figure 7.1 of March 2016 ES.
Figure 7.2	Scheme Specific Air Quality Monitoring	No change. Please refer to Figure 7.2 of March 2016 ES.
Figure 7.3	Construction Dust Assessment Process	No change. Please refer to Figure 7.3 of March 2016 ES.
Figure 7.4	Assessed Human Health Receptors: Air Quality	No change. Please refer to Figure 7.4 of March 2016 ES.
Figure 7.5	Air Quality Receptor Transects for Designated Sites	No change. Please refer to Figure 7.5 of March 2016 ES.
Figure 7.6	Newport City Centre Verification Factor	No change. Please refer to Figure 7.6 of March 2016 ES.
Figure 7.7	Air Quality Management Areas	No change. Please refer to Figure 7.7 of March 2016 ES.
Figure 7.8	Newport City Council Air Quality Monitoring	No change. Please refer to Figure 7.8 of March 2016 ES.
Figure 7.9	Background Annual Mean NO ₂ Concentrations	No change. Please refer to Figure 7.9 of March 2016 ES.
Figure 7.10	Construction Dust Receptors	No change. Please refer to Figure 7.10 of March 2016 ES.
Figure 7.11	Operational Air Quality Assessment	No change. Please refer to Figure 7.11 of March 2016 ES.
Appendix 7.1	Operational Assessment Methodology	No change. Please refer to Appendix 7.1 of March 2016 ES.
Appendix 7.2	Baseline Air Quality Environment	The updated version provided at Appendix R7.2 replaces Appendix 7.2 of the March 2016 ES.
Appendix 7.3	Construction Traffic and Operational Assessment Results	The updated version provided at Appendix R7.3 replaces Appendix 7.3 of the March 2016 ES.

Cultural Heritage

1.1.4

Chapter 8 of the March 2016 ES was supported by a number of figures and appendices. These items are listed below, with a summary of any changes since the March 2016 ES.

Changes to Chapter 8 Text, Figures and Appendices

Item	Title	Changes Made
Chapter 8	Cultural Heritage	This ES Supplement sets out the key changes to Chapter 8 and should be read in conjunction with Chapter 8 of the March 2016 ES.
Figure 8.1	Designated Heritage Assets discussed in text	No change. Please refer to Figure 8.1 of March 2016 ES.
Figure 8.2	Historic Landscape Character Areas within	No change. Please refer to Figure 8.2 of March 2016 ES.

Item	Title	Changes Made
	the registered Gwent Levels Landscape of Outstanding Historic Interest	
Figure 8.3	Archaeologically Sensitive Areas (Newport City Council) and Areas of Special Archaeological Sensitivity (Monmouthshire County Council)	No change. Please refer to Figure 8.3 of March 2016 ES.
Figure 8.4	Non-designated Sites of Archaeological Interest	No change. Please refer to Figure 8.4 of March 2016 ES.
Figure 8.5	Designated Heritage Assets and Non-designated Historic Buildings within and adjacent to the Defined Study Area	No change. Please refer to Figure 8.5 of March 2016 ES.
Figure 8.6	Additional Historic Landscape Character Areas (HLCAs) outside the registered Landscape of Outstanding Historic Interest	This document has been updated. The updated version provided at Figure R8.6 replaces Figure 8.6 of the March 2016 ES
Figure 8.7	Ecological Mitigation Areas	No change. Please refer to Figure 8.7 of March 2016 ES.
Appendix 8.1	Relevant National and Local Plan Policies	No change. Please refer to Appendix 8.1 of March 2016 ES.
Appendix 8.2	Desk-based Historic Environmental Assessment	No change. Please refer to Appendix 8.2 of March 2016 ES.
Appendix 8.3	Assessment of the Significance of the Impact of Development on the Historic Landscape (ASIDOHL)	No change. Please refer to Appendix 8.3 of March 2016 ES.
Appendix 8.4	Detailed Gradiometer Survey Report	No change. Please refer to Appendix 8.4 of March 2016 ES.
Appendix 8.5	Newport Docks Historic Built Environment Assessment 2008	No change. Please refer to Appendix 8.5 of March 2016 ES.
Appendix 8.6	Results of the Electrical Resistivity Tomography and Electro-magnetic surveys	No change. Please refer to Appendix 8.6 of March 2016 ES.
Appendix 8.7	Results of Aerial and Light Detection and Ranging (LiDAR) Survey and Satellite Image Analysis	No change. Please refer to Appendix 8.7 of March 2016 ES.
Appendix 8.8	Gwent Levels Archaeological Model	No change. Please refer to Appendix 8.8 of March 2016 ES.
Appendix 8.9	Non-designated Historic Landscape	This document has been updated. The updated version provided at Appendix R8.9

Item	Title	Changes Made
	Characterisation	replaces Appendix 8.9 of the March 2016 ES.
Appendix 8.10	Cultural Heritage Mitigation Plan	No change. Please refer to Appendix 8.10 of March 2016 ES.

Landscape and Visual

1.1.5

Chapter 9 of the March 2016 ES was supported by a number of figures and appendices. These items are listed below, with a summary of any changes since the March 2016 ES.

Changes to Chapter 9 Text, Figures and Appendices

Item	Title	Changes Made
Chapter 9	Landscape and Visual Effects	This ES Supplement sets out the key changes to Chapter 9 and should be read in conjunction with Chapter 9 of the March 2016 ES.
Figure 9.1	New Section of Motorway Zone of Theoretical Visibility – 28 km from proposed bridge piers of River Usk Crossing	No change. Please refer to Figure 9.1 of March 2016 ES.
Figure 9.2	New Section of Motorway Combined Zones of Theoretical Visibility	No change. Please refer to Figure 9.2 of March 2016 ES.
Figures 9.3 – 9.8	New Section of Motorway Zone of Theoretical Visibility Detailed Plans	No change. Please refer to Figures 9.3 - 9.8 of March 2016 ES.
Figure 9.9	New Section of Motorway Representative Viewpoint and Photomontage Location Plan	Some sheets have been updated to provide the new photomontage locations. The updated sheets provided at Figure R9.9 replace sheets 2, 3 and 4 of Figure 9.9 of the March 2016 ES.
Figure 9.10	New Section of Motorway Representative Viewpoints Photosheets	Some sheets have been updated to correct the indicated extents of the new section of motorway (sheets 30, 32, 33) and to include the additional viewpoints considered (sheets 66 and 67). The updated sheets are provided at Figure R9.10.
Figure 9.11	New Section of Motorway Representative Viewpoints Photomontages	Some photomontage sheets have been updated to account for the modifications to the design (sheets j (i – vi) and k (i – vi) and to include the additional photomontages (sheets l to p). The updated sheets are provided in Figure R9.11
Figure 9.12	Topography – 5km from New Section of Motorway	No change. Please refer to Figure 9.12 of March 2016 ES.
Figure 9.13	Landscape and Planning Context	No change. Please refer to Figure 9.13 of March 2016 ES

Item	Title	Changes Made
Figure 9.14	Landscape and Seascape Character Map	No change. Please refer to Figure 9.14 of March 2016 ES
Figure 9.15	LANDMAP Landscape Aspect Character Areas	No change. Please refer to Figure 9.15 of March 2016 ES.
Figure 9.16	New Section of Motorway Visual Residential Receptors	Sheets 3 and 7 of this document have been updated to include additional receptor locations. The updated sheets provided at Figure R9.16 replace sheets 3 and 7 of Figure 9.16 of the March 2016 ES.
Figure 9.17	New Section of Motorway Non-Residential Receptors	Sheets 7 and 8 this document have been updated. The updated sheets provided at Figure R9.17 replace sheets 7 and 8 of Figure 9.17 of the March 2016 ES.
Figure 9.18	New Section of Motorway Visual Public Right of Way Receptors	Sheets 2 and 4 of this document have been updated to add in additional receptor locations. The updated sheets provided at Figure R9.18 replace sheets 2 and 4 of Figure 9.18 of the March 2016 ES.
Figure 9.19	New Section of Motorway Roads and Transport Routes	The updated version provided at Figure R9.19 includes updated receptors and replaces Figure 9.19 of the March 2016 ES.
Figure 9.20	Complementary Measures – Photo Viewpoints Locations/Summer and Winter Photo Viewpoints	No change. Please refer to Figure 9.20 of March 2016 ES.
Figure 9.21	Existing Vegetation Design and Clearance Drawings	The updated version provided at Figure R9.21 replaces Figure 9.21 of the March 2016 ES.
Appendix 9.1	Relevant Planning Policy for Neighbouring Local Authorities	No change. Please refer to Appendix 9.1 of March 2016 ES.
Appendix 9.2	Selected Viewpoints within Initial 28 km Study Area	No change. Please refer to Appendix 9.2 of March 2016 ES.
Appendix 9.3	Representative Viewpoints	No change. Please refer to Appendix 9.3 of March 2016 ES.
Appendix 9.4	LANDMAP Evaluation of Landscape Character Areas – New Section of Motorway	No change. Please refer to Appendix 9.4 of March 2016 ES.
Appendix 9.5	LANDMAP Evaluation of Landscape Character Areas – Complementary Measures	No change. Please refer to Appendix 9.5 of March 2016 ES.
Appendix 9.6	Assessment Table – Representative Viewpoints	No change. Please refer to Appendix 9.6 of March 2016 ES.
Appendix 9.7	Assessment Table – Residential Properties	No change. Please refer to Appendix 9.7 of March 2016 ES.
Appendix 9.8	Assessment Table – Non-Residential Properties	No change. Please refer to Appendix 9.8 of March 2016 ES.
Appendix 9.9	Assessment Table – PROW and Recreational Trails	No change. Please refer to Appendix 9.9 of March 2016 ES.

Item	Title	Changes Made
Appendix 9.10	Visual Assessment Table – Land with Public Access	No change. Please refer to Appendix 9.10 of March 2016 ES.
Appendix 9.11	Visual Assessment Table – Roads and Public Transport Routes	The updated version provided at Appendix R9.11 replaces Appendix 9.11 of the March 2016 ES.
Appendix 9.12	Photomontage Methodology	No change. Please refer to Appendix 9.12 of March 2016 ES.

Ecology and Nature Conservation

1.1.6

Chapter 10 of the March 2016 ES was supported by a number of figures and appendices. These items are listed below with a summary of any changes since the March 2016 ES.

Changes to Chapter 10 Text, Figures and Appendices

Item	Title	Changes Made
Chapter 10	Ecology and Nature Conservation	This ES Supplement sets out the key changes to Chapter 10 and should be read in conjunction with Chapter 10 of the March 2016 ES.
Figure 10.1	Internationally Designated Nature Conservation Sites	No change. Please refer to Figure 10.1 of March 2016 ES.
Figure 10.2	Nationally Designated Nature Conservation Sites	No change. Please refer to Figure 10.2 of March 2016 ES.
Figure 10.3	Locally Designated Nature Conservation Sites	No change. Please refer to Figure 10.3 of March 2016 ES.
Figure 10.4	Phase 1 Habitat Plan	No change. Please refer to Figure 10.4 of March 2016 ES.
Figure 10.5	Ecology Survey Key Findings – Habitats and Vegetation	No change. Please refer to Figure 10.5 of March 2016 ES.
Figure 10.6	Intertidal Habitats	No change. Please refer to Figure 10.6 of March 2016 ES.
Figure 10.7	Subtidal Ecology	No change. Please refer to Figure 10.7 of March 2016 ES.
Figure 10.8	Ecology Survey Key Findings – Protected and Notable Species	No change. Please refer to Figure 10.8 of March 2016 ES.
Figure 10.9	Invasive Alien Species	No change. Please refer to Figure 10.8 of March 2016 ES.
Appendix 10.1	Ecology and Nature Conservation: Legislation and Planning Policy	No change. Please refer to Appendix 10.1 of March 2016 ES.
Appendix 10.2	Extended Phase 1 Habitat Survey 2014 Report	No change. Please refer to Appendix 10.2 of March 2016 ES.
Appendix 10.3	Ecological Survey Site Report	No change. Please refer to Appendix 10.3 of March 2016 ES.
Appendix 10.4	National Vegetation Classification Survey	No change. Please refer to Appendix 10.4 of March 2016 ES.

Item	Title	Changes Made
	2014 Report	
Appendix 10.5	Hedgerow Survey 2014 Report	No change. Please refer to Appendix 10.5 of March 2016 ES.
Appendix 10.6	Great Crested Newt Present/Absence Survey 2014 Report	No change. Please refer to Appendix 10.6 of March 2016 ES.
Appendix 10.7	Bat Survey 2014 Report	No change. Please refer to Appendix 10.7 of March 2016 ES.
Appendix 10.8	Otter and Water Vole Survey 2014 Report	No change. Please refer to Appendix 10.8 of March 2016 ES.
Appendix 10.9	Dormouse Survey 2014 Report	No change. Please refer to Appendix 10.9 of March 2016 ES.
Appendix 10.10	Hedgehog Survey 2014 Report	No change. Please refer to Appendix 10.10 of March 2016 ES.
Appendix 10.11	Reptile Survey 2014 Report	No change. Please refer to Appendix 10.11 of March 2016 ES.
Appendix 10.12	Wintering Bird Survey 2014 Report	No change. Please refer to Appendix 10.12 of March 2016 ES.
Appendix 10.13	Breeding Bird Survey 2014 Report	No change. Please refer to Appendix 10.13 of March 2016 ES.
Appendix 10.14	Aquatic Macrophyte Survey 2014	No change. Please refer to Appendix 10.14 of March 2016 ES.
Appendix 10.15	Terrestrial and Aquatic Invertebrate Survey 2014	No change. Please refer to Appendix 10.15 of March 2016 ES.
Appendix 10.16	Wintering Bird Survey Report 2015	No change. Please refer to Appendix 10.16 of March 2016 ES.
Appendix 10.17	Ecology Desk Study	No change. Please refer to Appendix 10.17 of March 2016 ES.
Appendix 10.18	Aquatic Environmental Baseline Study 2015	No change. Please refer to Appendix 10.18 of March 2016 ES.
Appendix 10.19	Phase 1 Habitat Survey 2015	No change. Please refer to Appendix 10.19 of March 2016 ES.
Appendix 10.20	NVC Survey 2015 Report	Site plans were omitted from the March 2016 report. These plans are provided at Appendix S10.1 of this ES Supplement.
Appendix 10.21	Hedgerow Survey Report 2015	No change. Please refer to Appendix 10.21 of March 2016 ES.
Appendix 10.22	Great Crested Newt eDNA Survey 2015	No change. Please refer to Appendix 10.22 of March 2016 ES.
Appendix 10.23	Bat Activity Surveys 2015	No change. Please refer to Appendix 10.23 of March 2016 ES.
Appendix 10.24	Bat Roost Survey 2015 Report	No change. Please refer to Appendix 10.24 of March 2016 ES.
Appendix 10.25	Otter and Water Vole Survey 2015	No change. Please refer to Appendix 10.25 of March 2016 ES.
Appendix 10.26	Hazel Dormouse Survey 2015	No change. Please refer to Appendix 10.26 of March 2016 ES.
Appendix 10.27	Reptile Survey 2015	No change. Please refer to Appendix 10.27 of March 2016 ES.
Appendix 10.28	Breeding Bird and Wader Survey 2015	No change. Please refer to Appendix 10.28 of March 2016 ES.
Appendix 10.29	Barn Owl Survey Report 2015	No change. Please refer to Appendix 10.29 of March 2016 ES.
Appendix 10.30	Aquatic Macrophyte Survey 2015	No change. Please refer to Appendix 10.30 of March 2016 ES.
Appendix	Terrestrial Invertebrate	No change. Please refer to Appendix 10.31

Item	Title	Changes Made
10.31	Survey 2015	of March 2016 ES.
Appendix 10.32	River Corridor Survey 2015	No change. Please refer to Appendix 10.32 of March 2016 ES.
Appendix 10.233	Waxcap Survey 2015	No change. Please refer to Appendix 10.33 of March 2016 ES.
Appendix 10.34	Valued Ecological Receptors – Designated Sites Summary Table	No change. Please refer to Appendix 10.34 of March 2016 ES.
Appendix 10.35	SSSI Mitigation Strategy	An additional area of land will be included as part of the SSSI mitigation strategy as described within the text of the ES Supplement.

1.1.7 In addition to the above, a number of new appendices have been prepared to support this ES Supplement. These are listed below.

Chapter 10: New Appendices

Item	Title
Appendix S10.1	Figures Omitted from March 2016 ES Appendix 10.20
Appendix S10.2	Summary of SSSI Features and SSSI Feature Sheets
Appendix S10.3	The Distribution of the Shrill Carder Bee <i>Bombus sylvarum</i> , on the Gwent Levels, 1998 to 2010 [Howe, 2012]
Appendix S10.4	Winter Bird Survey 2015/2016
Appendix S10.5	Breeding Bird Survey 2016
Appendix S10.6	Great Crested Newt Presence/Absence Survey 2016
Appendix S10.7	Bat Hibernation Roost Survey 2016
Appendix S10.8	Revised Table 10.19 –Summary of Likely Environmental Effects on Ecology and Nature Conservation

Geology and Soils

1.1.8 Chapter 11 of the March 2016 ES was supported by a number of figures and appendices. These items are listed below, with a summary of any changes since the March 2016 ES.

Changes to Chapter 11 Text, Figures and Appendices

Item	Title	Changes Made
Chapter 11	Geology and Soils	This ES Supplement sets out the key changes to Chapter 11 and should be read in conjunction with Chapter 11 of the March 2016 ES.
Figure 11.1	Sites with Potential Land Contamination Source Areas	This figure has been updated. The updated version provided at Figure R11.1 replaces Figure 11.1 of the March 2016 ES.
Figure 11.2	Permitted Sites	This figure has been updated. The updated version provided at Figure R11.2 replaces Figure 11.2 of the March 2016 ES.
Figures 11.3	Outline Remediation Strategy	This figure has been updated. The updated version provided at Figure R11.3 replaces Figure 11.3 of the March 2016 ES.
Appendix	Land Contamination	This document has been updated. The

Item	Title	Changes Made
11.1	Assessment Report	updated version provided at Appendix R11.1 replaces Appendix 11.1 of the March 2016 ES. Annexes A, B and C of Appendix 11.1 have not been updated and for these reference should be made to Appendix 11.1 of the March 2016 ES. Some of the CL reports in Annex D have been updated. Details are provided in Appendix R11.1.
Appendix 11.2	Outline Remediation Strategy	This document has been updated. The updated version provided at Appendix R11.2 replaces Appendix 11.2 of the March 2016 ES.
Appendix 11.3	Land Contamination Management Strategy	No change. Please refer to Appendix 11.3 of March 2016 ES.
Appendix 11.4	UXO Risk Mitigation Map	No change. Please refer to Appendix 11.4 of March 2016 ES.
Appendix 11.5	Environmental Permitting Strategy	No change. Please refer to Appendix 11.5 of March 2016 ES.

1.1.9 In addition to the above, a new appendix has been prepared to support this ES Supplement as shown below.

Chapter 11: New Appendix

Item	Title
Appendix S11.1	Replacement tables for Chapter 11 of the March 2016 ES

Materials

1.1.10 No figures or appendices were provided to support Chapter 12 of the March 2016 ES.

Noise and Vibration

1.1.11 Chapter 13 of the March 2016 ES was supported by a number of figures and appendices. These items are listed below, with a summary of any changes since the March 2016 ES.

Changes to Chapter 13 Text, Figures and Appendices

Item	Title	Changes Made
Chapter 13	Noise and Vibration	This ES Supplement sets out the key changes to Chapter 13 and should be read in conjunction with Chapter 13 of the March 2016 ES.
Figure 13.1	Study and Calculation Areas	No change. Please refer to Figure 13.1 of the March 2016 ES.
Figure 13.2	Daytime Construction Noise Impact Bands (without Mitigation)	No change. Please refer to Figure 13.2 of the March 2016 ES.
Figure 13.3	Operational Daytime Noise Levels for Base Year (2014 Base)	The updated version provided at Figure R13.3 replaces Figure 13.3 of the March 2016 ES.
Figure 13.4	Operational Daytime Noise Levels for Opening Year Without	The updated version provided at Figure R13.4 replaces Figure 13.4 of the March 2016 ES.

Item	Title	Changes Made
	Scheme (2022 OYDM)	
Figure 13.5	Operational Daytime Noise Levels for Future Year Without Scheme (20237 FYDM)	The updated version provided at Figure R13.5 replaces Figure 13.5 of the March 2016 ES.
Figure 13.6	Operational Daytime Noise Levels for Opening Year With Scheme and Committed Mitigation (2022 OYDSCM)	The updated version provided at Figure R13.6 replaces Figure 13.6 of the March 2016 ES.
Figure 13.7	Operational Daytime Noise Levels for Future Year With Scheme and Committed Mitigation (2037 FYDSCM)	The updated version provided at Figure R13.7 replaces Figure 13.7 of the March 2016 ES.
Figure 13.8	Noise Difference Contours – Do Minimum Scenario to Do Something Scenario for Opening Year (2022 OYDM ->2022 OYDSCM)	The updated version provided at Figure R13.8 replaces Figure 13.8 of the March 2016 ES.
Figure 13.9	Noise Difference Contours – Do Minimum Scenario in the Opening Year to Do Something Scenario for Future Year (2022 OYDM ->2037 FYDSCM)	The updated version provided at Figure R13.9 replaces Figure 13.9 of the March 2016 ES.
Figure 13.10	Proposed Locations of Acoustic Barriers	The updated version provided at Figure R13.10 replaces Figure 13.10 of the March 2016 ES.
Figure 13.11	Daytime Construction Noise Impact Bands (with Mitigation)	No change. Please refer to Figure13.11 of the March 2016 ES.
Figure 13.12	Operational Daytime Noise Levels for Opening Year With Scheme, Committed and Additional Mitigation (2022 OYDSCMB2)	The updated version provided at Figure R13.12 replaces Figure 13.12 of the March 2016 ES.
Figure 13.13	Operational Daytime Noise Levels for Future Year With Scheme, Committed and Additional Mitigation (2037 FYDSCMB2)	The updated version provided at Figure R13.13 replaces Figure 13.13 of the March 2016 ES.
Figure 13.14	Noise Difference Contours – Do Minimum Scenario to Do Something Scenario for Opening Year (With Mitigation) (2022 OYDM ->2022 OYDSCMB2)	The updated version provided at Figure R13.14 replaces Figure 13.14 of the March 2016 ES.
Figure 13.15	Noise Difference Contours – Do Minimum Scenario in the Opening	The updated version provided at Figure R13.15 replaces Figure 13.15 of the March 2016 ES.

Item	Title	Changes Made
	Year to Do Something Scenario for Future Year (With Mitigation) (2022 OYDM ->2037 FYDSCMB2)	
Appendix 13.1	Assessment Methodology	No change. Please refer to Appendix 13.1 of March 2016 ES
Appendix 13.2	Baseline Sound Monitoring	No change. Please refer to Appendix 13.2 of March 2016 ES
Appendix 13.3	Construction Noise and Vibration Assessment	No change. Please refer to Appendix 13.2 of March 2016 ES
Appendix 13.4	Operational Noise and Vibration Assessment	This document has been updated. The updated version provided at Appendix R13.4 replaces Appendix 13.4 of the March 2016 ES.

All Travellers

1.1.12 Chapter 14 of the March 2016 ES was supported by a number of figures and appendices. These items are listed below, with a summary of any changes since the March 2016 ES.

Changes to Chapter 14 Text, Figures and Appendices

Item	Title	Changes Made
Chapter 14	All Travellers	This ES Supplement sets out the key changes to Chapter 14 and should be read in conjunction with Chapter 14 of the March 2016 ES.
Figure 14.1	Existing Rights of Way, Cycle Routes and Other Routes Used by Non-Motorised Users (NMsUs)	The updated version provided at Figure R14.1 replaces Figure 14.1 of the March 2016 ES.
Figure 14.2	Public Rights of Way, Cycle Routes and Other Routes Used by NMU Permanently or Temporarily Stopped Up and/or Diverted	The updated version provided at Figure R14.2 replaces Figure 14.2 of the March 2016 ES.
Figure 14.3	Public Rights of Way, Cycle Routes and Other Routes Used by NMU During the Operation of the Scheme	The updated version provided at Figure R14.3 replaces Figure 14.3 of the March 2016 ES.
Appendix 14.1	Public Rights of Way User Survey Report	No change. Please refer to Appendix 14.1 of March 2016 ES.
Appendix 14.2	Non-Motorised User Context Report (Extract)	No change. Please refer to Appendix 14.2 of March 2016 ES.

1.1.13 In addition to the above, a new Figure has been prepared to support this ES Supplement as shown below.

Chapter 14: New Figure

Item	Title
Figure S14.1	Indicative temporary diversion of NR88 during construction

Community and Private Assets

- 1.1.14** Chapter 15 of the March 2016 ES was supported by a number of figures and appendices. These items are listed below, with a summary of any changes since the March 2016 ES.

Changes to Chapter 15 Text, Figures and Appendices

Item	Title	Changes Made
Chapter 15	Community and Private Assets	This ES Supplement sets out the key changes to Chapter 15 and should be read in conjunction with Chapter 15 of the March 2016 ES.
Figure 15.1	Community Facilities	No change. Please refer to Figure 15.1 of March 2016 ES.
Figure 15.2	Primary School Catchment Areas	No change. Please refer to Figure 15.2 of March 2016 ES.
Figure 15.3	Senior School Catchment Areas	No change. Please refer to Figure 15.3 of March 2016 ES.
Figure 15.4	Parks, Play Areas, Sports Centres and Tourist/Visitor Attractions	No change. Please refer to Figure 15.4 of March 2016 ES.
Figure 15.5	Private Assets	No change. Please refer to Figure 15.5 of March 2016 ES.
Figure 15.6	Land Used by the Community	No change. Please refer to Figure 15.6 of March 2016 ES.
Figure 15.7	Agricultural Land Classification	The updated version provided at Figure R15.7 replaces Figure 15.7 of the March 2016 ES.
Figure 15.8	Landholdings	The updated version provided at Figure R15.8 replaces Figure 15.8 of the March 2016 ES.
Appendix 15.1	Soil Augur Boring Descriptions	No change. Please refer to Appendix 15.1 of March 2016 ES.
Appendix 15.2	Farm Holding Proforma	No change. Please refer to Appendix 15.2 of March 2016 ES.

- 1.1.15** In addition to the above, a new appendix has been prepared to support this ES Supplement as shown below.

Chapter 15: New Figure and Appendix

Item	Title
Figure S15.1	Agricultural Land Classification: Bencroft Lane
Appendix S15.1	Supplementary Soil Auger Boring Descriptions

Road Drainage and the Water Environment

- 1.1.16** Chapter 16 of the March 2016 ES was supported by a number of figures and appendices. These items are listed below, with a summary of any changes since the March 2016 ES.

Item	Title	Changes Made
Chapter 16	Road Drainage and the Water Environment	This ES Supplement sets out the key changes to Chapter 16 and should be read in conjunction with Chapter 16 of the March 2016 ES.
Figure 16.1	Site Setting	No change. Please refer to Figure 16.1 of March 2016 ES.
Figure 16.2	Bedrock Geology and Topography	No change. Please refer to Figure 16.2 of March 2016 ES.
Figure 16.3	Superficial Geology and Topography	No change. Please refer to Figure 16.3 of March 2016 ES.
Figure 16.4	Hydrology	No change. Please refer to Figure 16.4 of March 2016 ES.
Figure 16.5	Conceptual Hydrogeological Model	No change. Please refer to Figure 16.5 of March 2016 ES.
Figure 16.6	Schematic Conceptual Embankment – Surcharging Phase: <5m Height within the Gwent Levels	No change. Please refer to Figure 16.6 of March 2016 ES.
Figure 16.7	Schematic Conceptual Embankment – Post-Surcharge Phase: <5m Height within the Gwent Levels	No change. Please refer to Figure 16.7 of March 2016 ES.
Figure 16.8	Schematic Conceptual Embankment – Post-Surcharge Phase: >5m Height within the Gwent Levels	No change. Please refer to Figure 16.8 of March 2016 ES.
Figure 16.9	Schematic Conceptual Embankment – Cut and Fill: Outside of Gwent Levels	No change. Please refer to Figure 16.9 of March 2016 ES.
Figure 16.10	Hydrological Cross Section for Private Water Users	No change. Please refer to Figure 16.10 of March 2016 ES.
Appendix 16.1	Flood Consequence Assessment	A supplement to Appendix 16.1 of the March 2016 ES is provided as part of this ES Supplement (see Appendix S16.2 in table below).
Appendix 16.2	Baseline Water Environment Report	Additional rounds of monitoring have been undertaken and the new data are provided as a supplement to Appendix 16.2 of the March 2016 ES (see Appendix S16.1 in table below).
Appendix 16.3	Water Treatment Area DMRB Risk Assessments	No change. Please refer to Appendix 16.3.1 of March 2016 ES.
Appendix 16.4	Water Framework Directive Compliance Assessment	No change. Please refer to Appendix 16.4 of March 2016 ES.

1.1.17 In addition to the above, a new appendix has been prepared to support this ES Supplement as shown below.

Chapter 16: New Appendices

Item	Title
Appendix S16.1	Supplementary Baseline Water Environment Data (Supplement to Appendix 16.2 of the March 2016 ES)
Appendix S16.2	Supplement to Flood Consequences Assessment (Supplement to Appendix 16.1 of the March 2016 ES)