

High Speed Rail (Crewe – Manchester) Environmental Statement

Volume 5: Appendix EC-015-0MA04

Ecology and biodiversity

MA04: Broomedge to Glazebrook

Ecological register of local level effects

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Department
for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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Contents

1 Introduction	2
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Tables

Table 1: Summary of local/parish level adverse effects arising from the construction and operation of the Proposed Scheme within MA04	4
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1 Introduction

- 1.1.1 This report is an appendix to the ecological assessment.
- 1.1.2 Table 1 provides a summary of the anticipated local/parish level adverse effects on ecological receptors arising from the construction and operation of the HS2 Phase 2b Proposed Scheme in the Broomedge to Glazebrook area (MA04).
- 1.1.3 This appendix should be read in conjunction with:
- Volume 2, Community Area (CA) reports;
 - Volume 3, Route-wide effects;
 - Volume 4, Off-route effects; and
 - Volume 5, Appendices.
- 1.1.4 See Volume 5, Appendix EC-001-00001 and the Ecology and Biodiversity Map Book (Map Series EC-01), for ecological designated sites, and Appendices EC-016-00001 to EC-016-00007 and EC-016-00009 for documents to inform Habitats Regulations Assessment screening and Appropriate Assessment.
- 1.1.5 In addition, the baseline data used for the ecological assessment is set out in Background Information and Data (BID) reports¹, (see BID EC-002-001 to BID EC-013-001) and the BID Ecology Map Books² (Map Series EC-02 and EC-04 to EC-12) showing habitats and species relevant to the Proposed Scheme. The full list of ecological BID reports is as follows:
- Ecological baseline data – Phase 1 Habitat Survey (BID EC-002-00001);
 - Ecological baseline data – protected and notable flora (BID EC-003-00001);
 - Ecological baseline data – National Vegetation Classification and ancient woodland (BID EC-004-00001);
 - Ecological baseline data – hedgerows (BID EC-005-00001);
 - Ecological baseline data – river habitat, river macrophyte, and ditch surveys (BID EC-006-00001);
 - Ecological baseline data – amphibian and pond and canal surveys (BID EC-007-00001);
 - Ecological baseline data – reptiles (BID EC-008-00001);
 - Ecological baseline data – breeding and wintering birds (BID EC-009-00001);
 - Ecological baseline data – otter and water vole (BID EC-010-00001);

¹ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Background Information and Data*, BID EC-002-00001 to BID EC-013-00001. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement>.

² High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Background information and Data, Ecology Map Book: Map Series EC-02 and EC-04 to EC-12*. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement>.

Environmental Statement

Volume 5: Appendix EC-015-0MA04

Ecology and biodiversity

MA04: Broomedge to Glazebrook

Ecological register of local level effects

- Ecological baseline data – bats (BID EC-011-00001);
- Ecological baseline data – white-clawed crayfish and other invertebrates (BID EC-012-00001); and
- Ecological baseline data – fish (BID EC-013-00001).

1.1.6 Note that baseline data for badger is not made publicly available due to the current and historic persecution of this species (BID EC-14-00001).

Environmental Statement
 Volume 5: Appendix EC-015-0MA04
 Ecology and biodiversity
 MA04: Broomedge to Glazebrook
 Ecological register of local level effects

Table 1: Summary of local/parish level adverse effects arising from the construction and operation of the Proposed Scheme within MA04

CA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes / No)
MA04	Woodland	Eight woodlands, each less than 1.5ha and none within wildlife site designations.	Construction	Permanent loss of 4.1ha of habitat as a result of construction of the Proposed Scheme.	Yes
MA04	Woodland	An unnamed woodland at Glazebrook Moss.	Construction	Permanent loss of 0.8ha (100%) of habitat as a result of construction of the Proposed Scheme.	Yes
MA04	Grassland	Species-poor, semi-improved and marshy grassland covers an area of 41.7ha, consisting of multiple smaller parcels of land within the land required for the construction of the Proposed Scheme in MA04.	Construction	Permanent loss of 41.7ha (100%) as a result of construction of the Proposed Scheme.	Yes
MA04	Watercourses	Several smaller watercourses, including a tributary of the Manchester Ship Canal and a tributary of Old Bollin.	Construction	Permanent and temporary loss and degradation of habitat as a result of realignment or culverting of smaller watercourses during construction of the Proposed Scheme.	Yes
MA04	Amphibians	Populations of other amphibian species, including palmate newt (<i>Lissotriton helveticus</i>), smooth newt (<i>Lissotriton vulgaris</i>), common toad (<i>Bufo bufo</i>) and common frog (<i>Rana temporaria</i>), in the Broomedge to Glazebrook area.	Construction	Loss and fragmentation of breeding/foraging habitat and dispersal routes from construction activities.	Yes
MA04	Birds	Breeding hobby (<i>Falco subbuteo</i>) at Lymm.	Construction	Permanent loss and degradation of habitat used by breeding hobby as a result of construction of the Proposed Scheme.	Yes
MA04	Birds	Kingfisher (<i>Alcedo atthis</i>) populations at the	Construction	Permanent loss and degradation of	Yes

Environmental Statement
Volume 5: Appendix EC-015-0MA04
Ecology and biodiversity
MA04: Broomedge to Glazebrook
Ecological register of local level effects

CA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes / No)
		River Bollin.		habitat potentially used by breeding kingfisher as a result of construction of the Proposed Scheme.	
MA04	Birds	Breeding bird assemblage between Agden Brow and Bent Lane.	Construction	Permanent loss and degradation of habitat used by breeding birds as a result of construction of the Proposed Scheme.	Yes
MA04	Birds	Wintering bird assemblage between Agden Brow and Bent Lane.	Construction	Permanent loss and degradation of habitat used by wintering birds as a result of construction of the Proposed Scheme.	Yes
MA04	Birds	Wintering bird assemblage south of Holcroft Moss.	Construction	Permanent loss and degradation of habitat used by wintering birds as a result of construction of the Proposed Scheme.	Yes
MA04	Vascular plants	Lesser chickweed at Glazebrook.	Construction	Permanent loss and degradation of habitat containing vascular plants as a result of construction and operation of the Proposed Scheme.	Yes
MA04	Reptiles	Potential small populations of reptiles in the Broomedge to Glazebrook area.	Construction	Permanent loss and degradation of habitat potentially supporting reptiles as a result of construction of the Proposed Scheme.	Yes
MA04	Terrestrial invertebrates	Population of southern silver stiletto-fly at Heatley Bridge.	Construction	Permanent loss and degradation of habitat used by terrestrial invertebrates as a result of construction of the Proposed Scheme.	Yes

Environmental Statement
 Volume 5: Appendix EC-015-0MA04
 Ecology and biodiversity
 MA04: Broomedge to Glazebrook
 Ecological register of local level effects

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MA04	Terrestrial invertebrates	Invertebrate assemblage at unnamed woodland south west of Bank Street at Glazebrook.	Construction	Permanent loss and degradation of habitat used by terrestrial invertebrates as a result of construction of the Proposed Scheme.	Yes
MA04	Badger	Badger (<i>Meles meles</i>) populations at undisclosed locations in the Broomedge to Glazebrook area.	Construction and operation	Permanent loss and degradation of habitat / habitat fragmentation resulting from construction of the Proposed Scheme. Two main setts have been recorded within land required for the construction of the Proposed Scheme, a further two main setts occur within 20-210m of this area . Land required for the construction of the Proposed Scheme includes pasture, arable, hedgerow and woodland habitats that form a foraging resource for badger social groups.	Yes

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