

High Speed Rail (Crewe – Manchester)

Background information and data

Map Book

Ecology

(EC-02, EC-04, EC-05, EC-06, EC-07, EC-08,
EC-09, EC-10, EC-11, EC-12) Part 2

High Speed Rail (Crewe – Manchester)

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Map Book**

Ecology

(EC-02, EC-04, EC-05, EC-06, EC-07, EC-08,
EC-09, EC-10, EC-11, EC-12) Part 2



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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A report prepared for High Speed Two (HS2) Limited:

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MWJV

Mott MacDonald | WSP

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Contents

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Map series name	Map series description	Map book part
EC-02 - Phase 1 Habitat (1:10,000)	This map series shows Phase 1 habitat survey information for land required and within 250m of the CCB of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field surveys, or the area mapped is between 250-500m from the CCB, the information is based on available desk studies and interpretation of aerial photography.	Background Information and Data map book – Ecology Part 1
EC-04 - Amphibians	This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of Great Crested Newt surveys. In addition, it shows the location of any 'exceptional' populations of common amphibians recorded.	Background Information and Data map book – Ecology Part 2
EC-05 – Bat - Roost	This map series shows results of field surveys conducted to investigate the potential for trees, buildings, or structures to support roosting bats. It shows the location of roosts confirmed by field surveys and features identified as having a high or moderate potential to support roosting bats.	Background Information and Data map book – Ecology Part 3
EC-06 – Bat - Activity	This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition, it shows the location of the key bat foraging and commuting routes, which have been established based on the survey work conducted.	Background Information and Data map book – Ecology Part 3
EC-07 - Reptiles	This map series shows the extent and results of survey work for common reptiles, undertaken to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 2
EC-08 - Breeding Birds – Protected and Notable Species	This map series shows records of protected and/or notable breeding birds considering the impacts of the Proposed Scheme. The location of nest sites for species, such as Barn Owl and raptor species which may be liable to persecution, are not displayed.	Background Information and Data map book – Ecology Part 4
EC-09 - Wintering and Passage Birds – Protected and Notable Species	This map series shows records of selected protected and/or notable wintering birds considering the impacts of the Proposed Scheme.	Background Information and Data map book – Ecology Part 4
EC-10 - Phase 2 Habitat Survey	This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'Important hedgerows' under the Hedgerows Regulations (1997).	Background Information and Data map book – Ecology Part 1
EC-11 - Other Protected and Notable Species (1)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 5
EC-12 - Other Protected and Notable Species (2)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 5

Mapping explanatory notes

This map book is part of the background information and data (BID) for Phase 2b of the proposed High Speed Two (HS2) rail network between Crewe and Manchester (the Proposed Scheme), and comprises ecological baseline data. This map book does not form part of the Environmental Statement, but presents relevant ecological information for the Proposed Scheme.

Copyright statements

Copyright statements are presented in the Data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

Ordnance Survey data

All maps produced as part of the ES contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data. As part of our licence conditions, all digital maps carry a watermark.

Chainage

Most of the maps presented as part of the ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XXX+YYY, e.g. 192+000 or 239+500.

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres, e.g. 192+000 refers to the point, 192,000m, or 192km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:20,000, 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales, and therefore, showing differing amounts of alignment on the map.

Map orientation

The maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the left hand side of the page, and Leeds or Manchester to the right.

High Speed Rail (Crewe – Manchester)

Background Information and Data
Data dictionary and definitions

Data dictionary and definitions

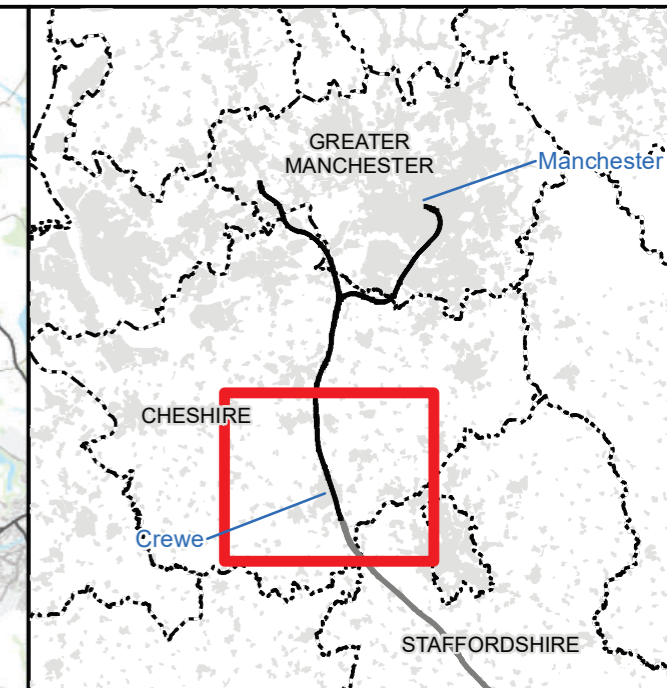
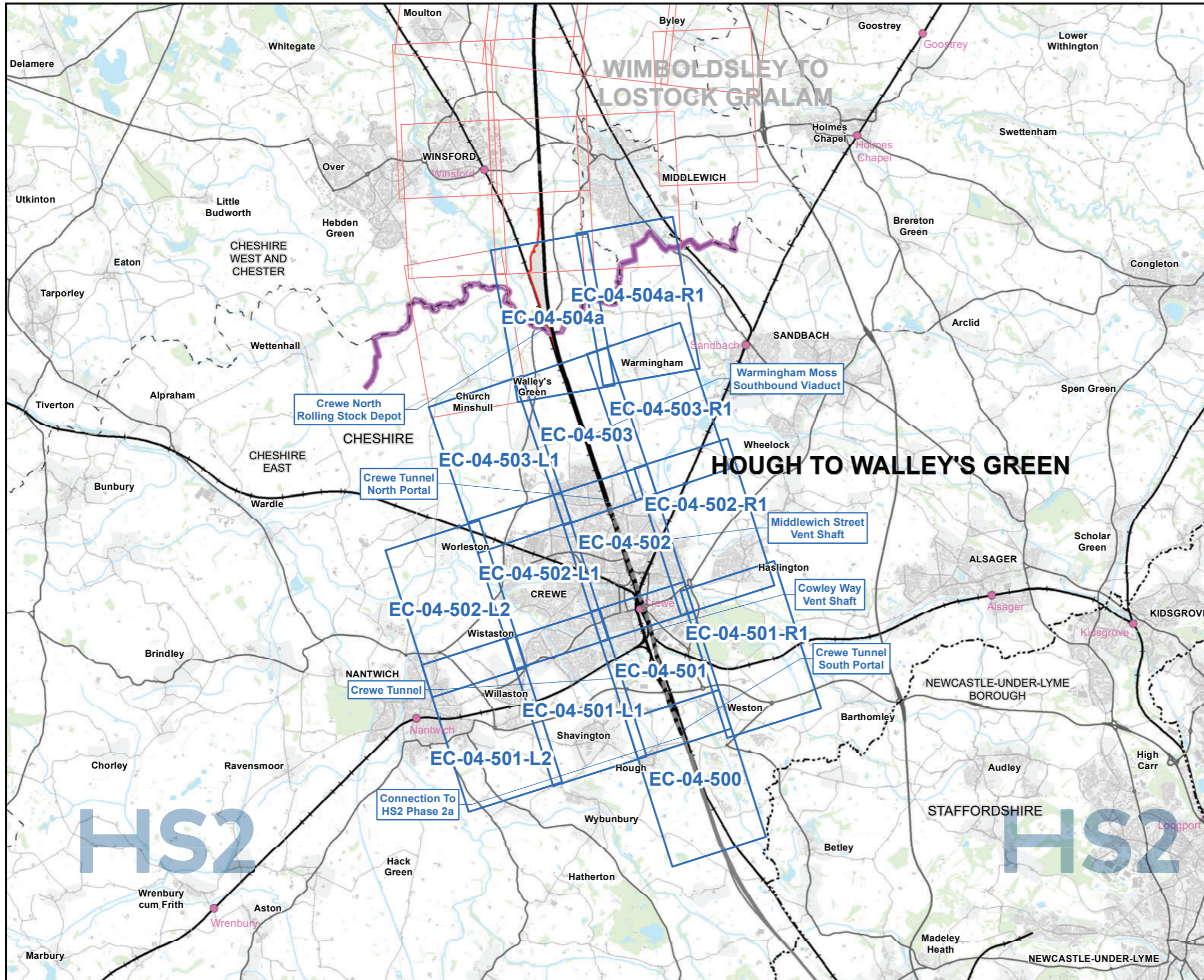
Legend features	Definition	Source	Copyright
250m radius from all water bodies where presence of GCN is confirmed	250m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
500m radius from all water bodies where presence of GCN is confirmed	500m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
50m radius from all water bodies where presence of GCN is confirmed	50m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
Areas isolated by significant barriers to amphibian movement	Areas isolated by significant barriers to amphibian movement.	High Speed Two (HS2) Ltd	
Community area boundary	The Environmental Statement has been split into eight sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/borough/Unitary authority boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
eDNA survey complete Survey incomplete Scoped in - HSI/walkover only Scoped in - no access permission Scoped out - no survey required	Areas where a GCN survey was completed. Survey varies from population size class assessment, presence/absence survey or scoping visit only where it was then scoped out or it was identified as requiring further survey.	High Speed Two (HS2) Ltd	
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Population size class assessment	Identifies population size classes of adder, common lizard, grass snake and slow worm based on a scale from high, medium, low and absent.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence /absence survey conducted – reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted	Areas where a reptile survey was completed. Survey varies from population size class assessment, presence/absence survey or scoping visit only where it was then scoped out or it was identified as requiring further survey.	High Speed Two (HS2) Ltd	
Route in tunnel	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Water body	Any mass of water having definite hydrological, physical, chemical and biological characteristics.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Watercourse	Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Woodland (not verified by survey)	Woodland areas derived from Ordnance Survey MasterMap data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.

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High Speed Rail (Crewe – Manchester)

Background Information and Data
EC-04 - Amphibians



Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.

Main Map Legend

	Route in tunnel		Map sheets included in this community area
	Route on surface		Map sheets not included in this community area
	Depot, station, headhouse or portal building		
	Community area boundary		
	Existing railway station		
	County boundary		
	District/Borough boundary		

Map Number	EC-04-INDEX-MA01
Map Name	Index Map of: Amphibians
Community Area MA01:	Hough to Walley's Green

HS2

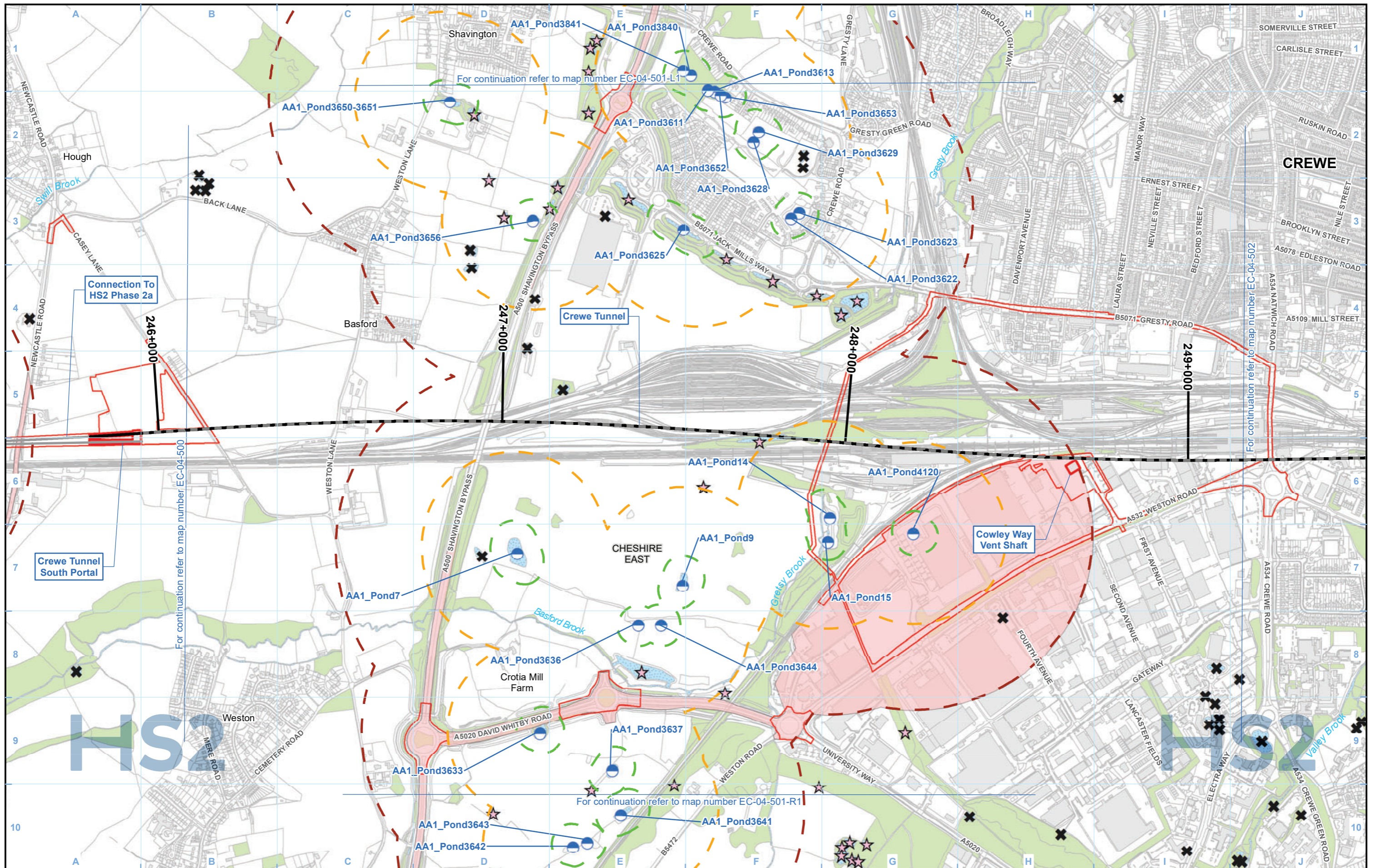
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Legend

- Route in tunnel
- Route on surface
- District/Borough boundary
- Watercourse
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- Water body
- Woodland (not verified by survey)
- GCN confirmed present - no size class determined
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-500

For continuation refer to map number EC-04-501-L1

For continuation refer to map number EC-04-501-R1

For continuation refer to map number EC-04-502

Note: GCN = Great Crested Newts

Map Number: EC-04-501

Map Name: Amphibians

Community Area MA01: Hough to Walley's Green

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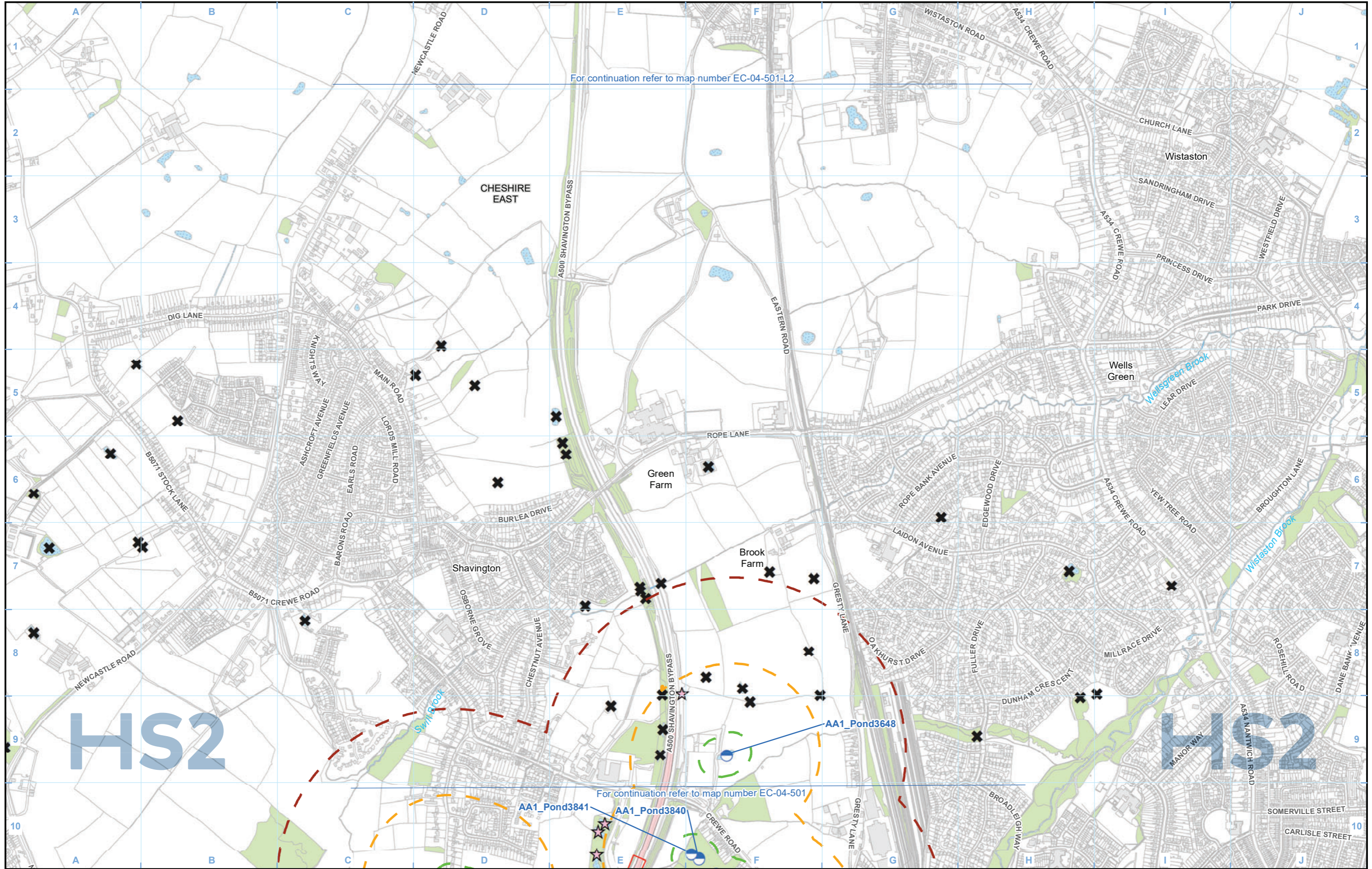
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Date: 08/08/21

For continuation refer to map number EC-04-501-L2

For continuation refer to map number EC-04-501



Legend

AA1_Pond3841

AA1_Pond3840

AA1_Pond3648

Note: GCN = Great Crested Newts

Map Number	EC-04-501-L1
Map Name	Amphibians
	Community Area MA01: Hough to Walley's Green

HS2

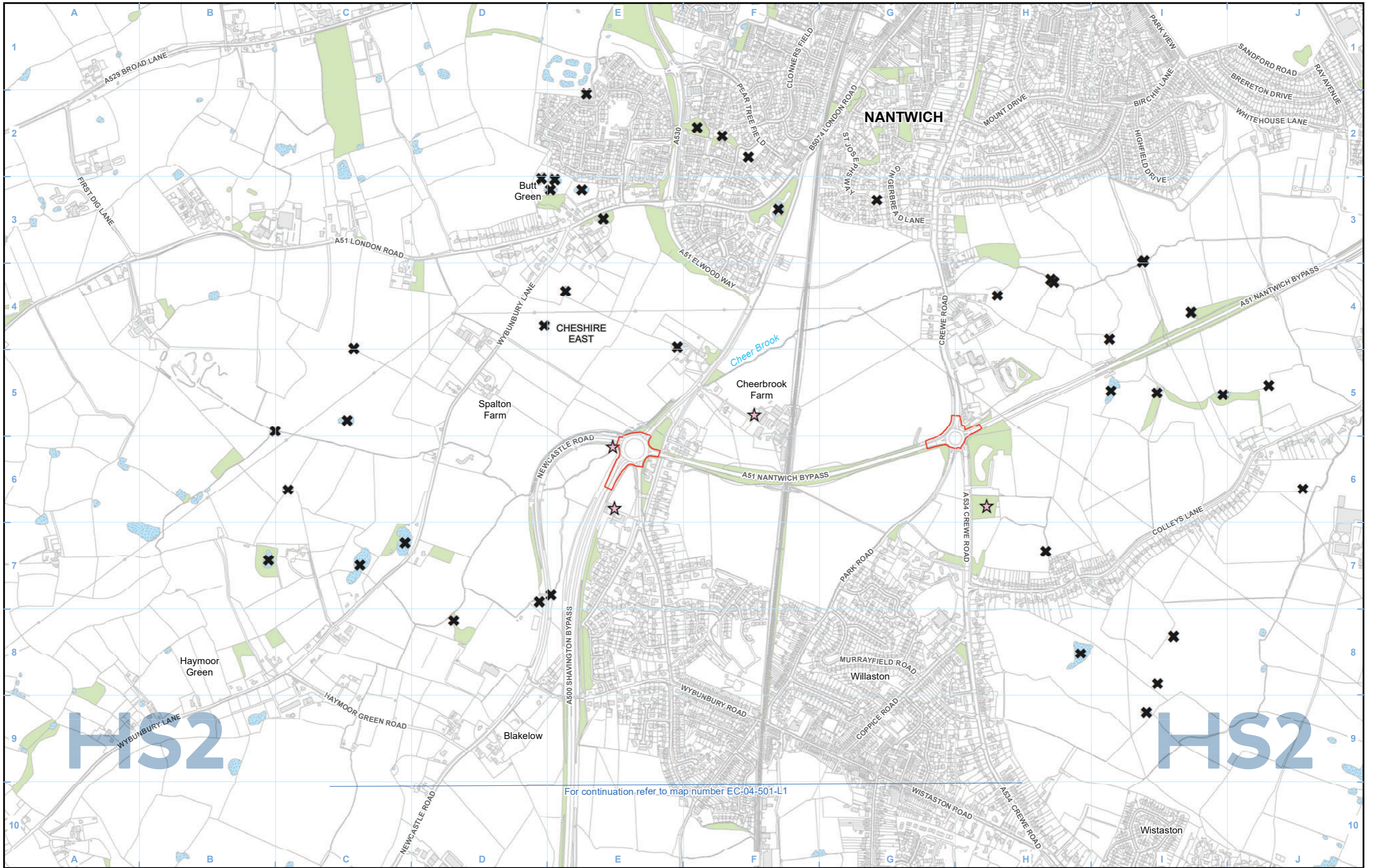
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For continuation refer to map number EC-04-501-L1

Legend			
	Route in tunnel		Scoped out - no survey required
	Route on surface		Scoped in - no access permission
	Depot, station, headhouse or portal building		Watercourse
	Land potentially required during construction		Water body
	Community area boundary		Woodland (not verified by survey)
	County boundary		District/Borough boundary

Map Number	EC-04-501-L2
Map Name	Amphibians
Community Area MA01: Hough to Walley's Green	

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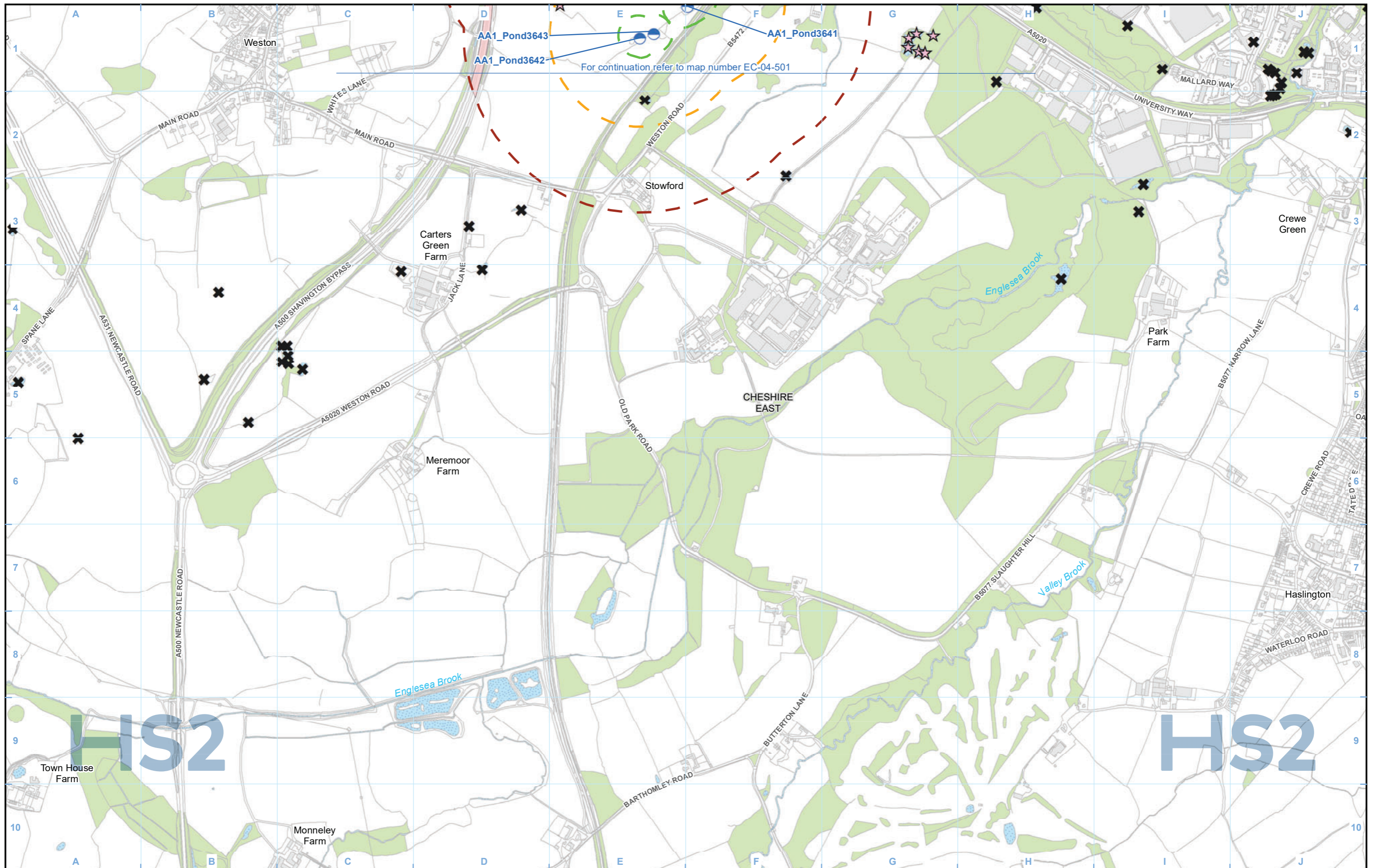
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Date: 08/08/21

Note: GCN = Great Crested Newts



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- GCN confirmed present - no size class determined
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-501

AA1_Pond3643

AA1_Pond3642

AA1_Pond3641

Weston

Stowford

Carters Green Farm

Meremoor Farm

Monneley Farm

CHESHIRE EAST

Englesea Brook

Valley Brook

Park Farm

Crewe Green

Haslington

Town House Farm

Map Number EC-04-501-R1

Map Name Amphibians

Community Area MA01:
Hough to Walley's Green

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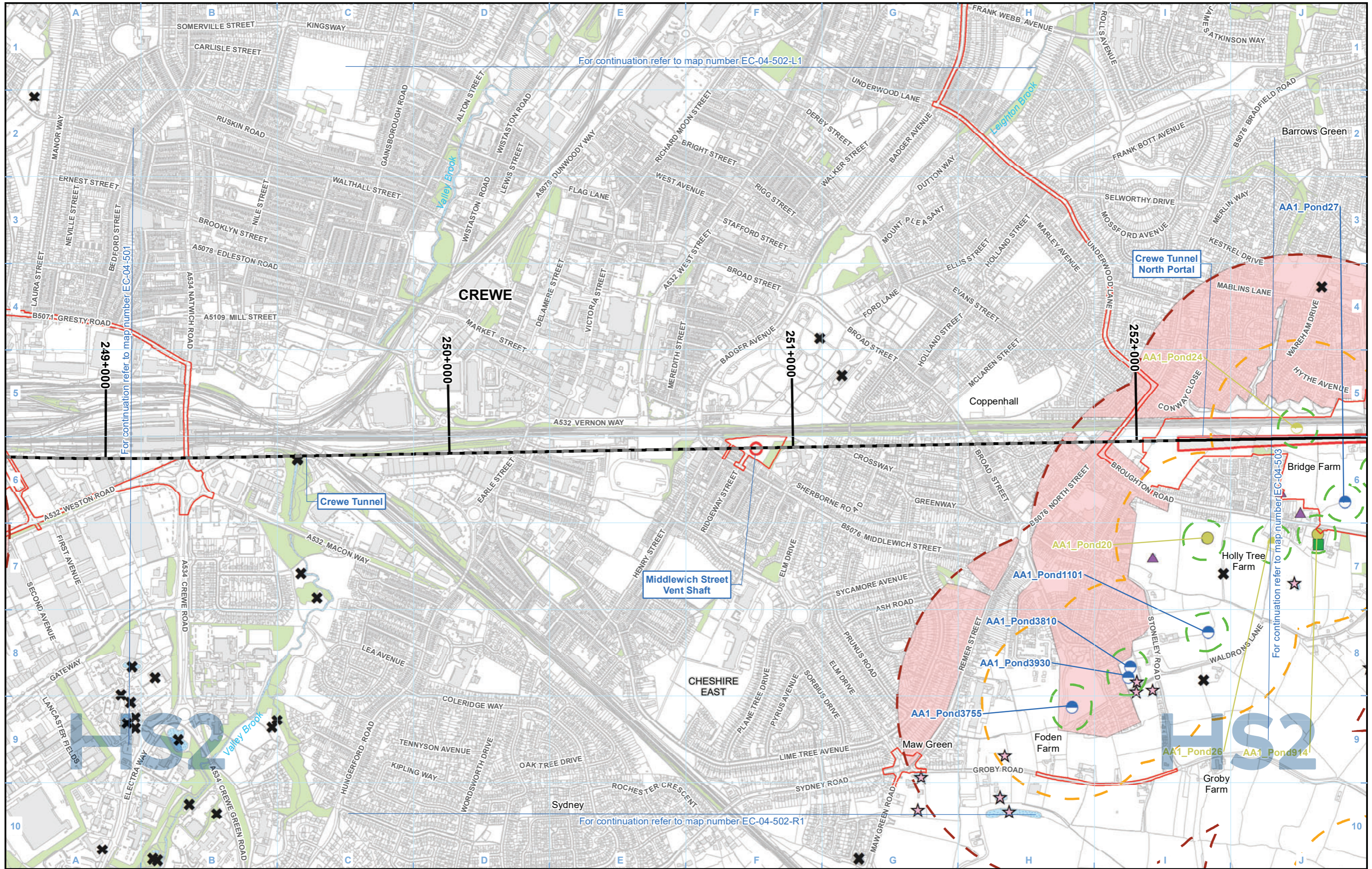
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Note: GCN = Great Crested Newts



For continuation refer to map number EC-04-502-L1

For continuation refer to map number EC-04-501

For continuation refer to map number EC-04-503

For continuation refer to map number EC-04-502-R1

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - GCN assumed absent
 - GCN present (6 visits) - small population (1 - 10 adults)
 - GCN present (less than 6 visits) - small population (1 - 10 adults)
 - GCN confirmed present - no size class determined
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

- GCN present (6 visits) - small population (1 - 10 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-502
Map Name	Amphibians
Community Area MA01: Hough to Walley's Green	

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For continuation refer to map number EC-04-502-L2

For continuation refer to map number EC-04-502

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Scoped in - no access permission
- Scoped out - no survey required

Map Number: EC-04-502-L1

Map Name: Amphibians

Community Area MA01: Hough to Walley's Green

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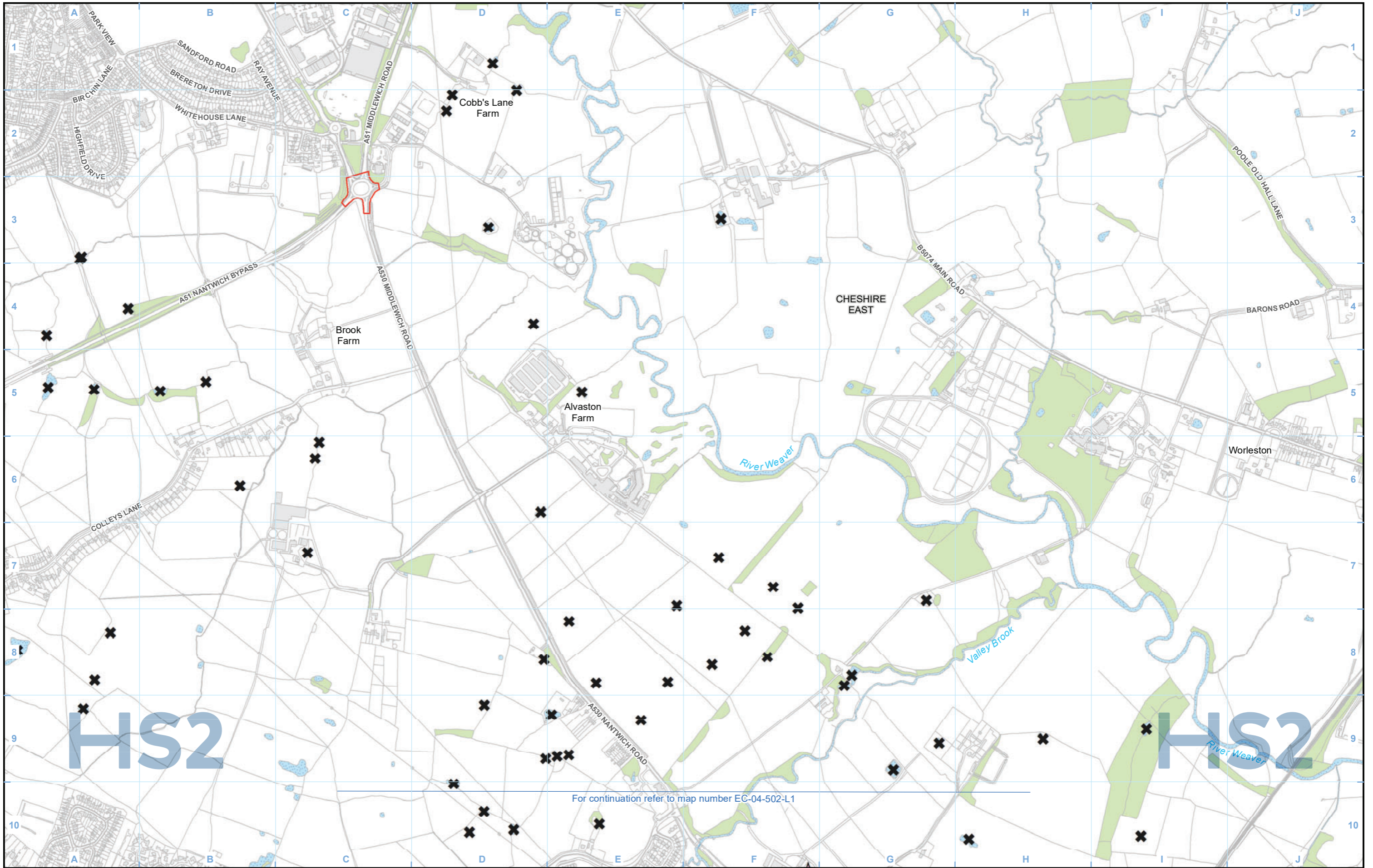
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Note: GCN = Great Crested Newts



For continuation refer to map number EC-04-502-L1

Legend		

Map Number	EC-04-502-L2
Map Name	Amphibians
	Community Area MA01: Hough to Walley's Green

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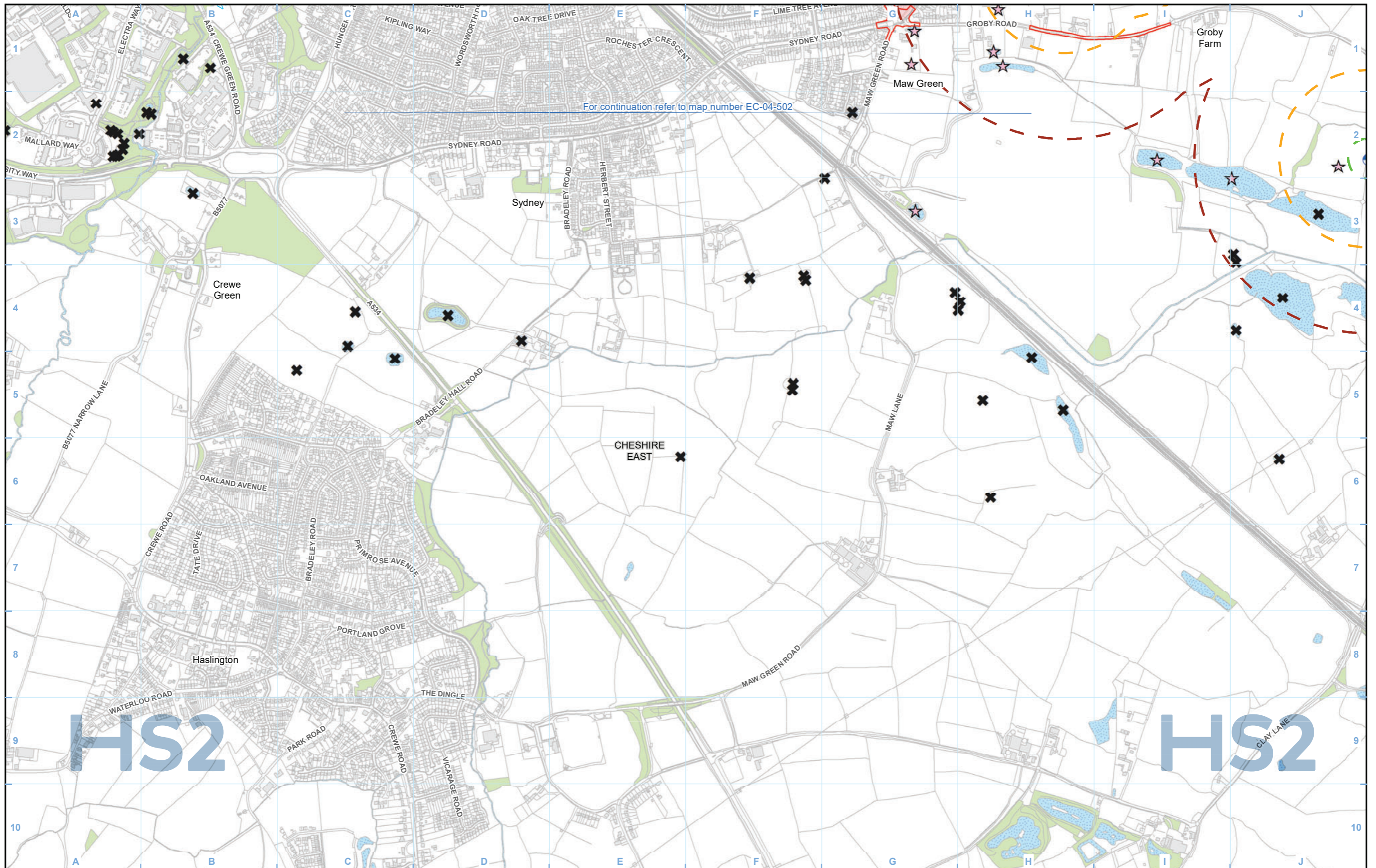
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Date: 08/08/21

Note: GCN = Great Crested Newts



For continuation refer to map number EC-04-502

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - GCN confirmed present - no size class determined
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

Map Number	EC-04-502-R1
Map Name	Amphibians
Community Area MA01: Hough to Walley's Green	

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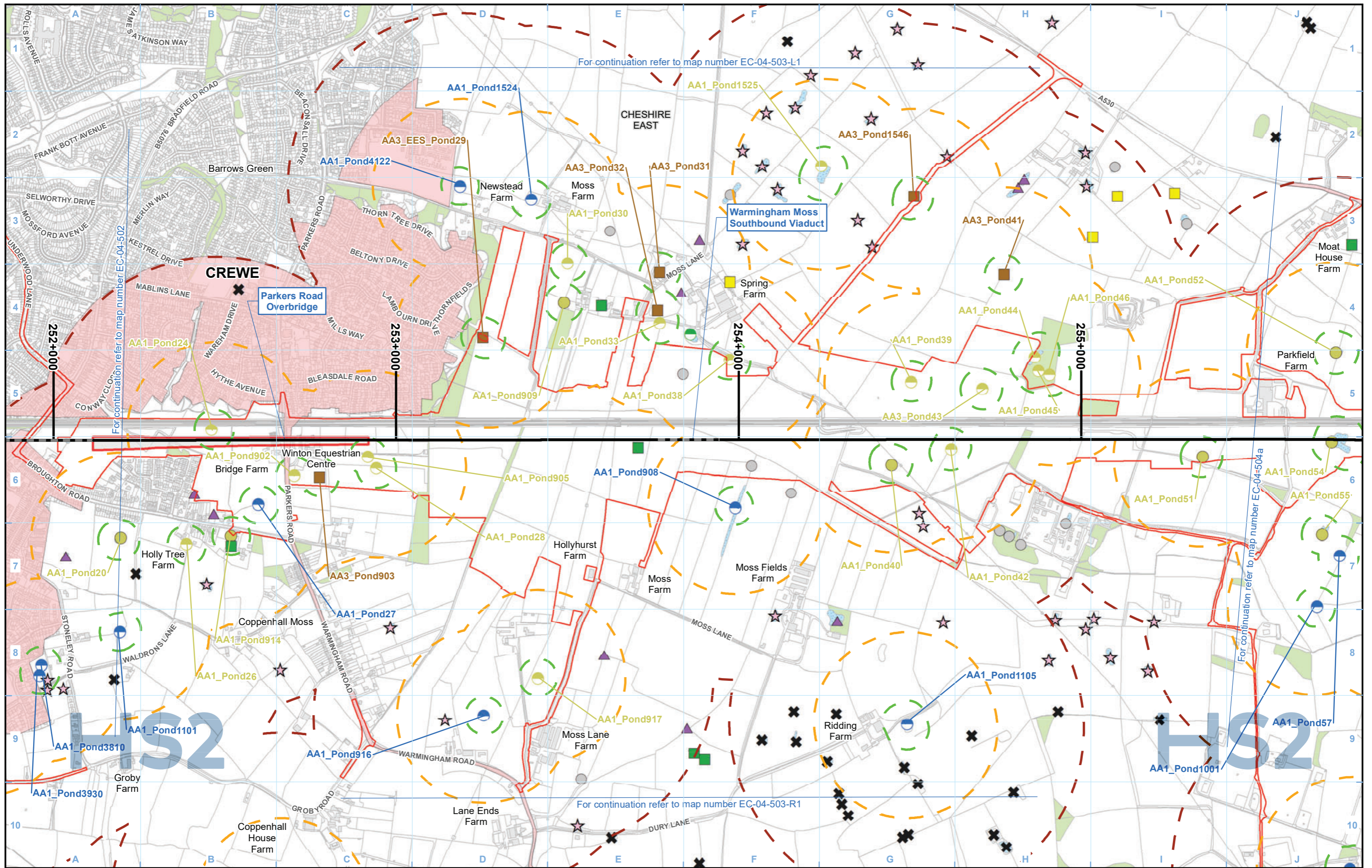
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Scale at A3: 1:10,000

Metres

Date: 08/08/21

Note: GCN = Great Crested Newts



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive
 - eDNA survey complete - GCN present
 - eDNA survey complete - GCN assumed absent
 - GCN present (6 visits) - small population (1 - 10 adults)
 - GCN present (less than 6 visits) - small population (1 - 10 adults)
 - GCN confirmed present - no size class determined
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

Map Number
EC-04-503

Map Name
Amphibians

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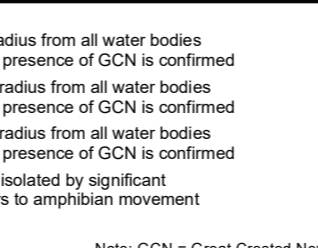
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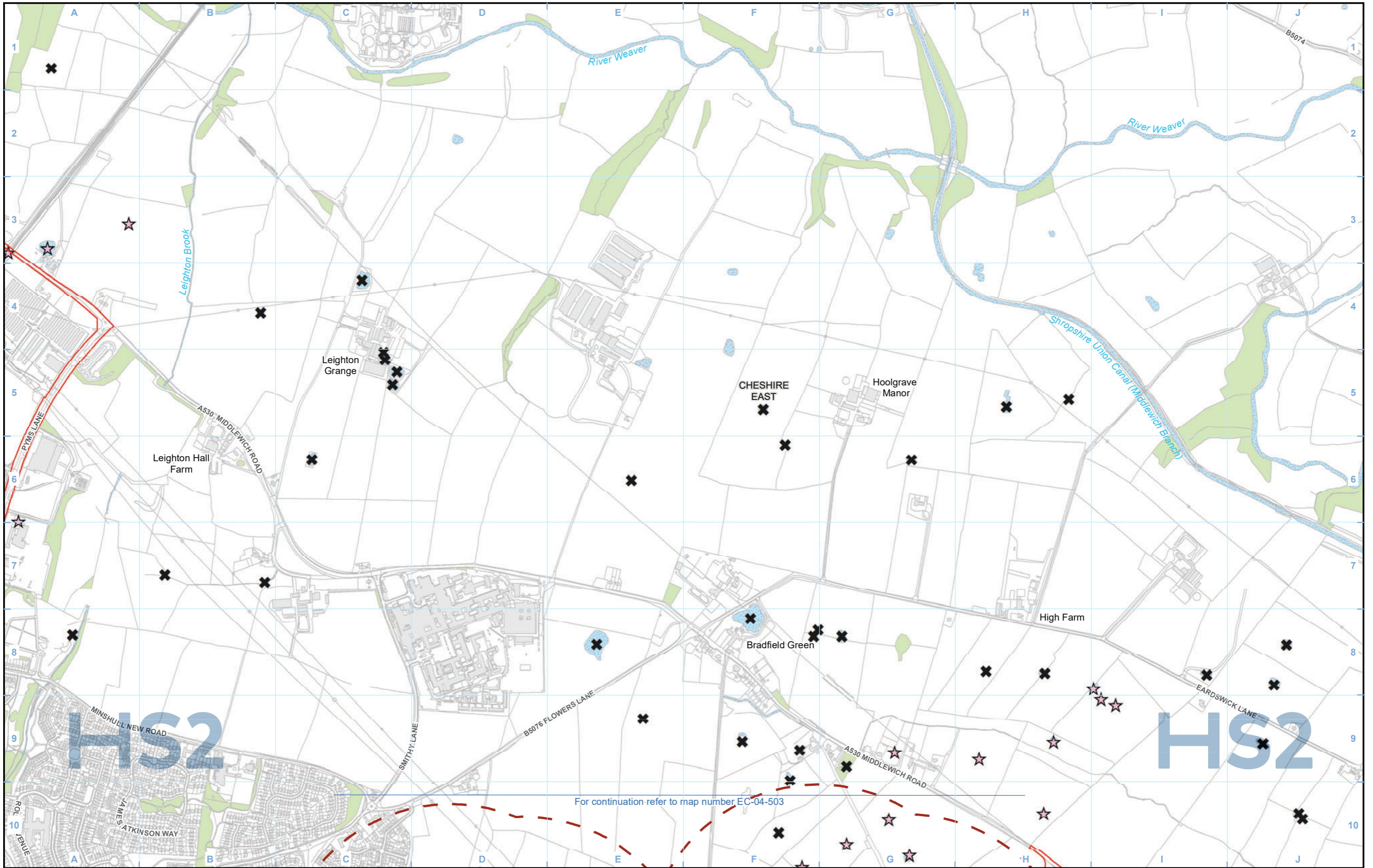
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Date: 08/08/21

Note: GCN = Great Crested Newts





Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Scoped in - no access permission
- Scoped out - no survey required
- 500m radius from all water bodies where presence of GCN is confirmed

Note: GCN = Great Crested Newts

Map Number: EC-04-503-L1

Map Name: Amphibians

Community Area MA01: Hough to Walley's Green

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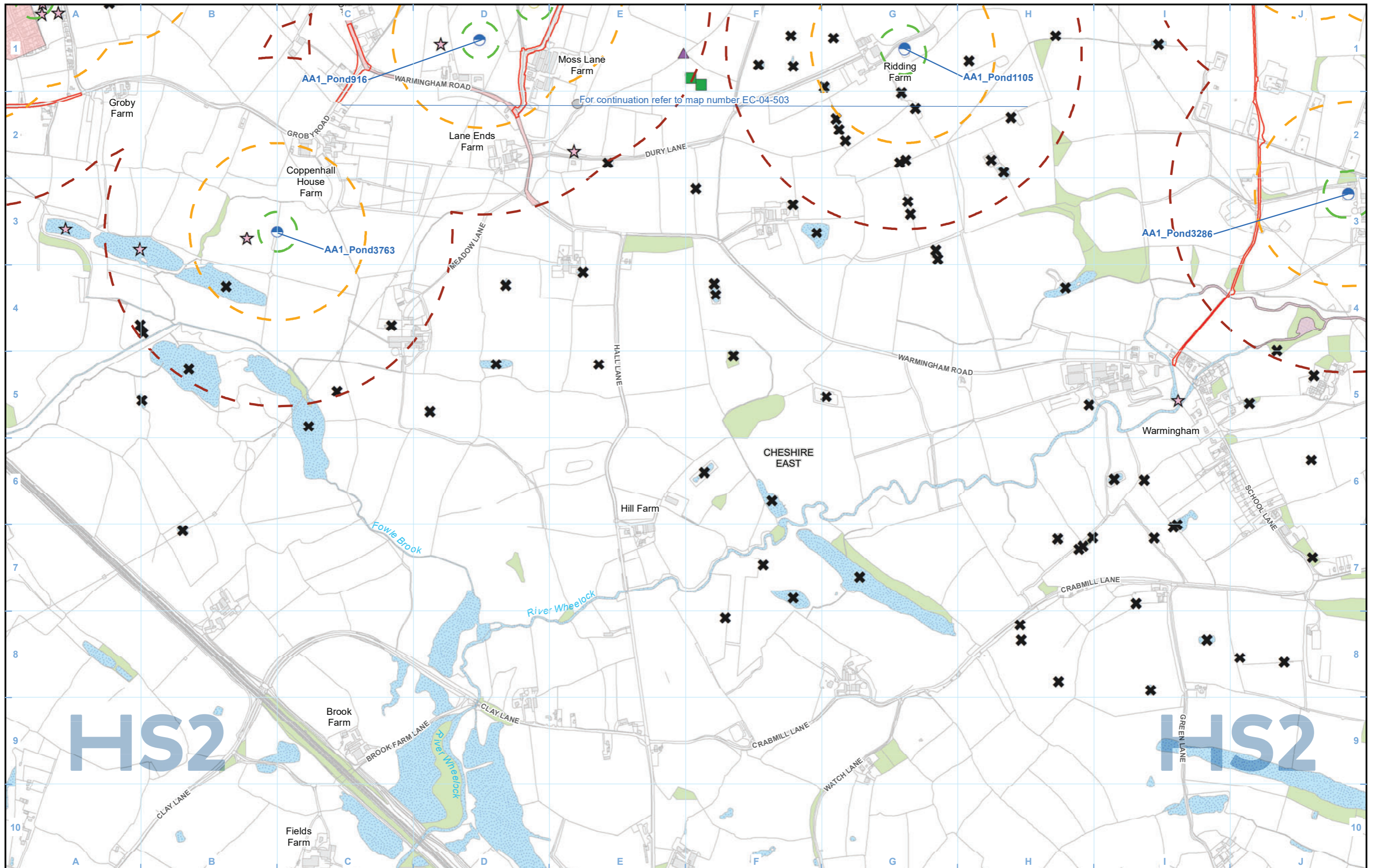
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- eDNA survey complete - GCN assumed absent
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-503

Map Number: EC-04-503-R1

Map Name: Amphibians

Community Area MA01: Hough to Walley's Green

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Date: 08/08/21

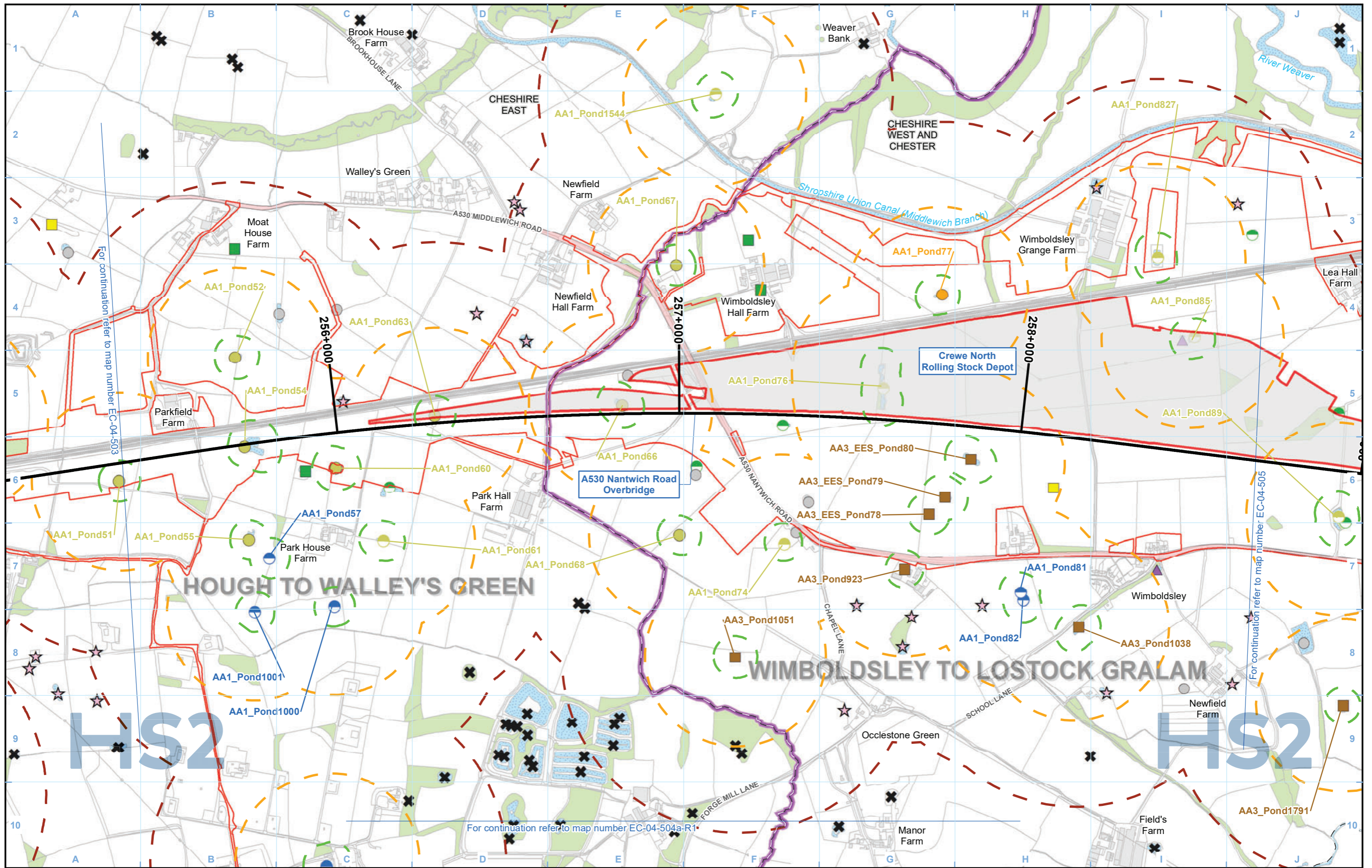
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Date: 08/08/21

Note: GCN = Great Crested Newts



Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary 	<ul style="list-style-type: none"> District/Borough boundary Watercourse Water body Woodland (not verified by survey) eDNA survey complete - result inconclusive 	<ul style="list-style-type: none"> eDNA survey complete - GCN present eDNA survey complete - GCN assumed absent GCN present (6 visits) - medium population (11 - 99 adults) GCN present (6 visits) - small population (1 - 10 adults) 	<ul style="list-style-type: none"> GCN present (less than 6 visits) - small population (1 - 10 adults) GCN confirmed present - no size class determined Survey complete, GCN assumed absent Survey incomplete, no GCN found 	<ul style="list-style-type: none"> Scoped in - Habitat Suitability Index (HSI)/walkover only Scoped in - no access permission Scoped out - no survey required 	<ul style="list-style-type: none"> 50m radius from all water bodies where presence of GCN is confirmed 250m radius from all water bodies where presence of GCN is confirmed 500m radius from all water bodies where presence of GCN is confirmed Areas isolated by significant barriers to amphibian movement
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Note: GCN = Great Crested Newts

Map Number: EC-04-504a

Map Name: Amphibians

Community Area MA01: Hough to Walley's Green

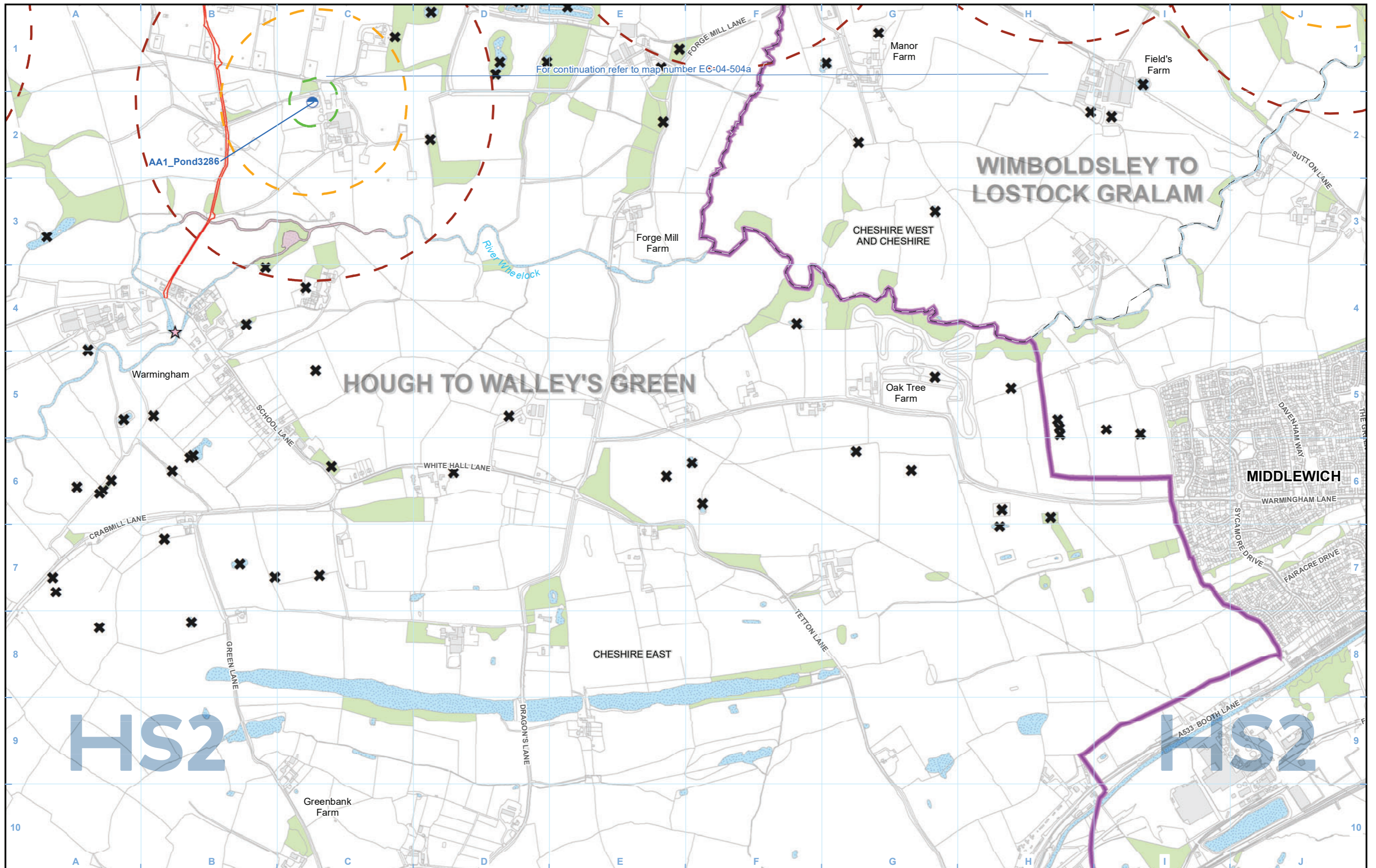
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Doc Number: 2DE01-MWJ-EV-MAP-M000-000950-P01

Date: 08/08/21



Legend

50m radius from all water bodies where presence of GCN is confirmed
 250m radius from all water bodies where presence of GCN is confirmed
 500m radius from all water bodies where presence of GCN is confirmed
 Areas isolated by significant barriers to amphibian movement

Map Number	EC-04-504a-R1
Map Name	Amphibians
Community Area MA01: Hough to Walley's Green	

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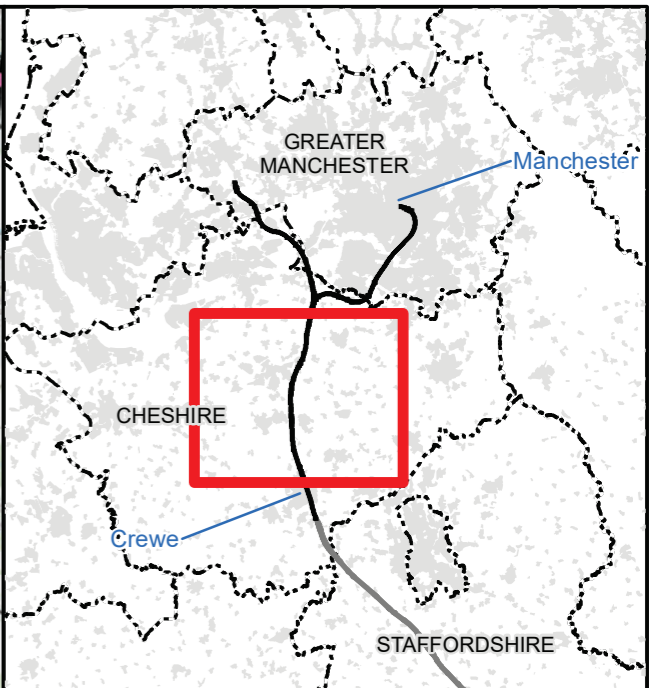
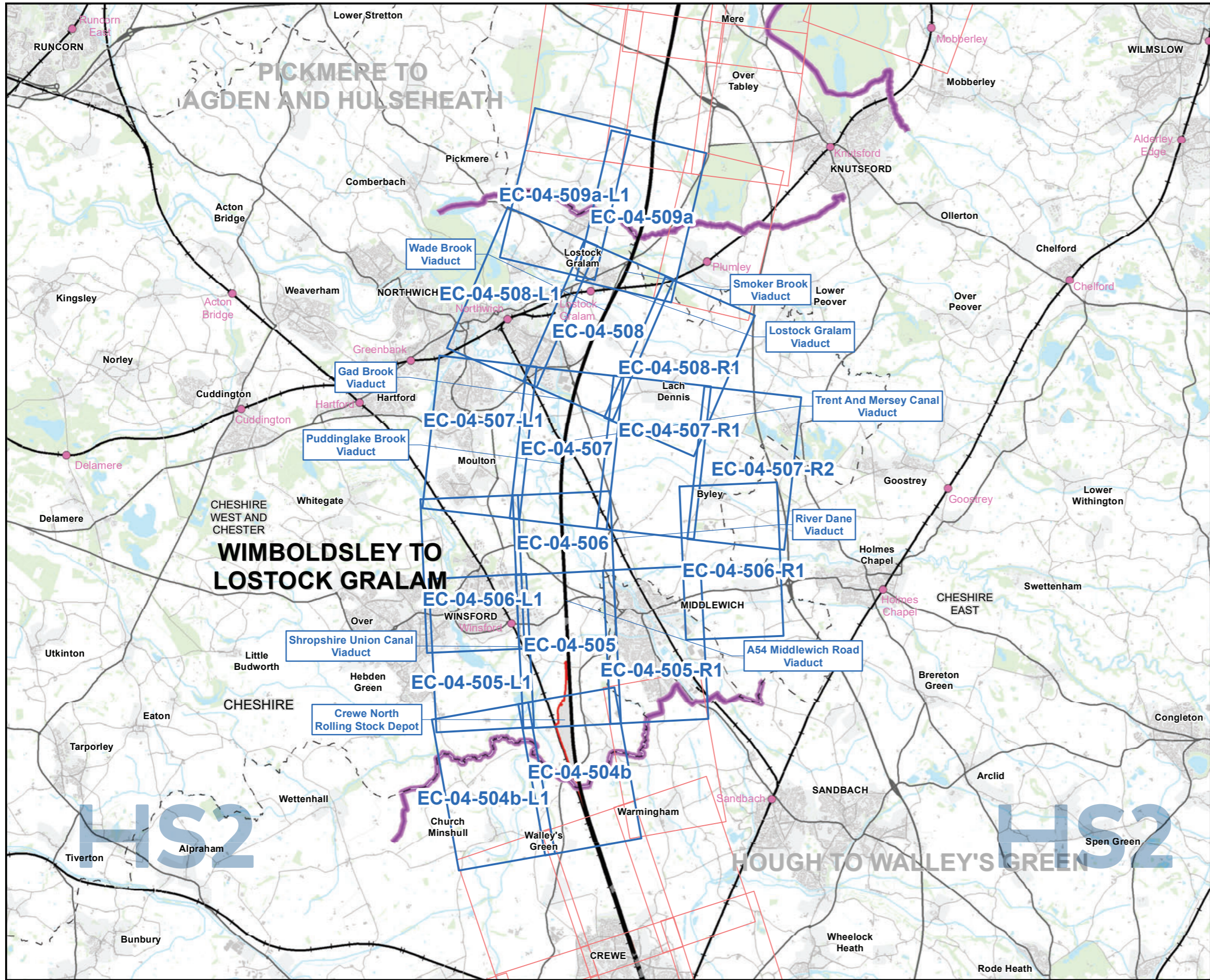
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0 100 200 300 400 Metres

Doc Number: 2DE01-MWJ-EV-MAP-M000-002966-P01 Date: 08/08/21

Note: GCN = Great Crested Newts

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Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.

Main Map Legend

Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

Map Number	EC-04-INDEX-MA02
Map Name	Index Map of: Amphibians
	Community Area MA02: Wimboldsley to Lostock Gralam

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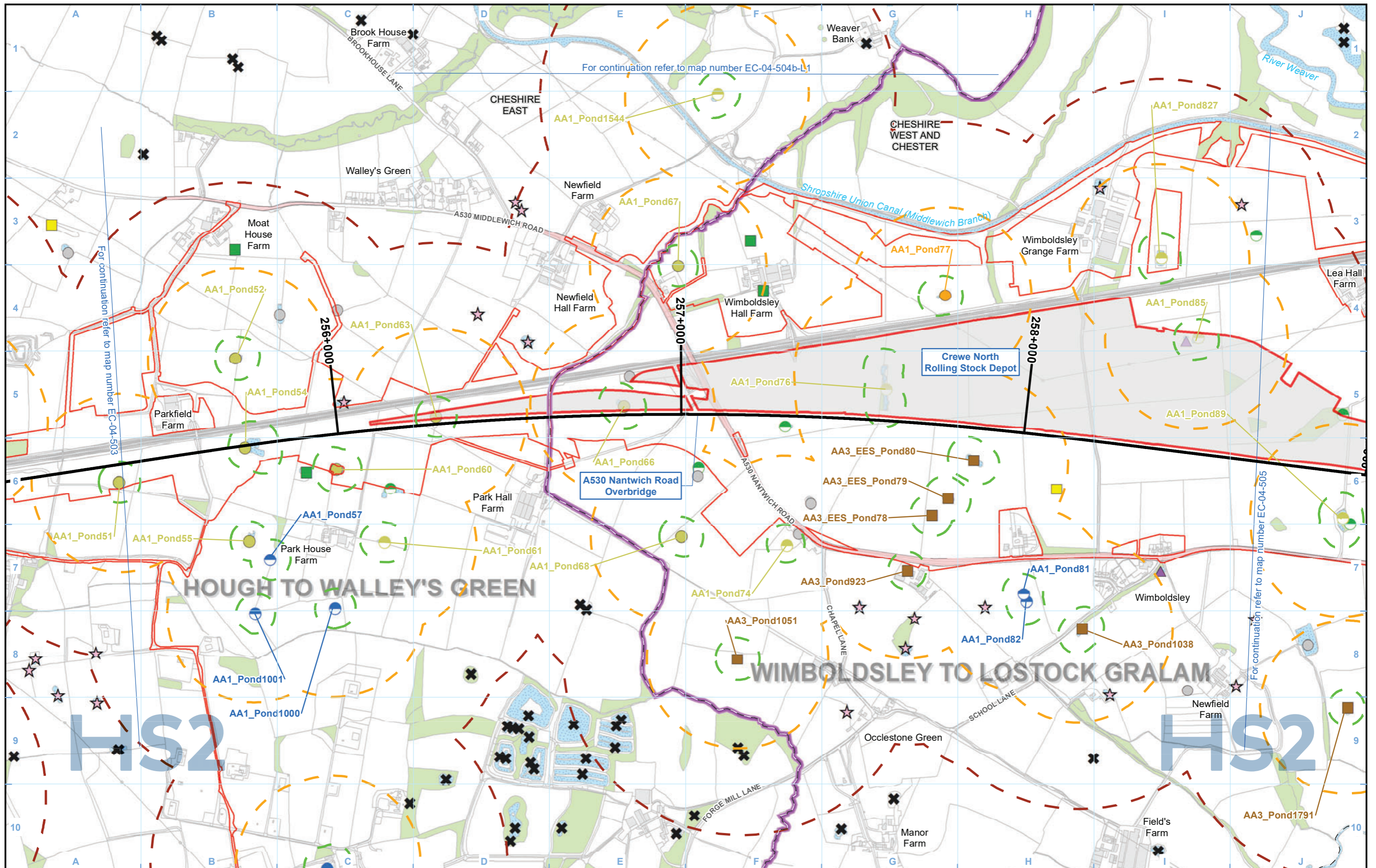
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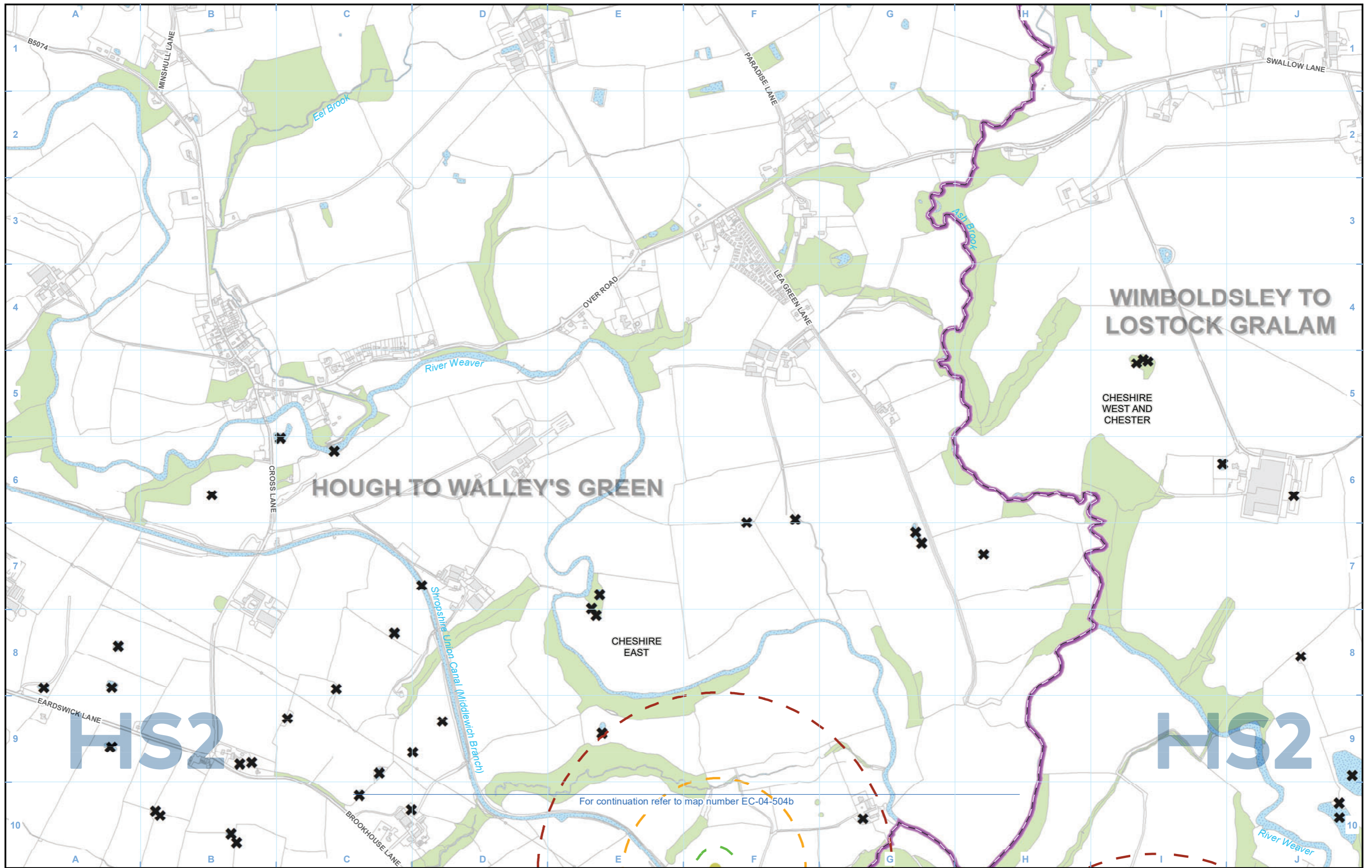
Doc Number: 2DE01-MWJ-EV-MAP-M000-000983-P01 Date: 08/08/21

Note: Not all data layers in the legend are represented on every map.



Legend <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (not verified by survey) eDNA survey complete - result inconclusive eDNA survey complete - GCN present eDNA survey complete - GCN assumed absent GCN present (6 visits) - medium population (11 - 99 adults) GCN present (6 visits) - small population (1 - 10 adults) GCN present (less than 6 visits) - small population (1 - 10 adults) GCN confirmed present - no size class determined Survey complete, GCN assumed absent Survey incomplete, no GCN found Scoped in - Habitat Suitability Index (HSI)/walkover only Scoped in - no access permission Scoped out - no survey required 50m radius from all water bodies where presence of GCN is confirmed 250m radius from all water bodies where presence of GCN is confirmed 500m radius from all water bodies where presence of GCN is confirmed Areas isolated by significant barriers to amphibian movement 		Map Number EC-04-504b Map Name Amphibians Community Area MA02: Wimboldsley to Lostock Gralam	HS2 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA. © Crown copyright and database rights 2020 OS 100049190 Scale at A3: 1:10,000 Doc Number: 2DE01-MWJ-EV-MAP-M000-000951-P01 Date: 08/08/21
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Note: GCN = Great Crested Newts



Legend

Route in tunnel	District/Borough boundary	Scoped out - no survey required	50m radius from all water bodies where presence of GCN is confirmed
Route on surface	Watercourse		250m radius from all water bodies where presence of GCN is confirmed
Depot, station, headhouse or portal building	Water body		500m radius from all water bodies where presence of GCN is confirmed
Land potentially required during construction	Woodland (not verified by survey)		
Community area boundary	GCN present (less than 6 visits) - small population (1 - 10 adults)		
County boundary			

Map Number: EC-04-504b-L1

Map Name: Amphibians

Community Area MA02: Wimboldsley to Lostock Gralam

Note: GCN = Great Crested Newts

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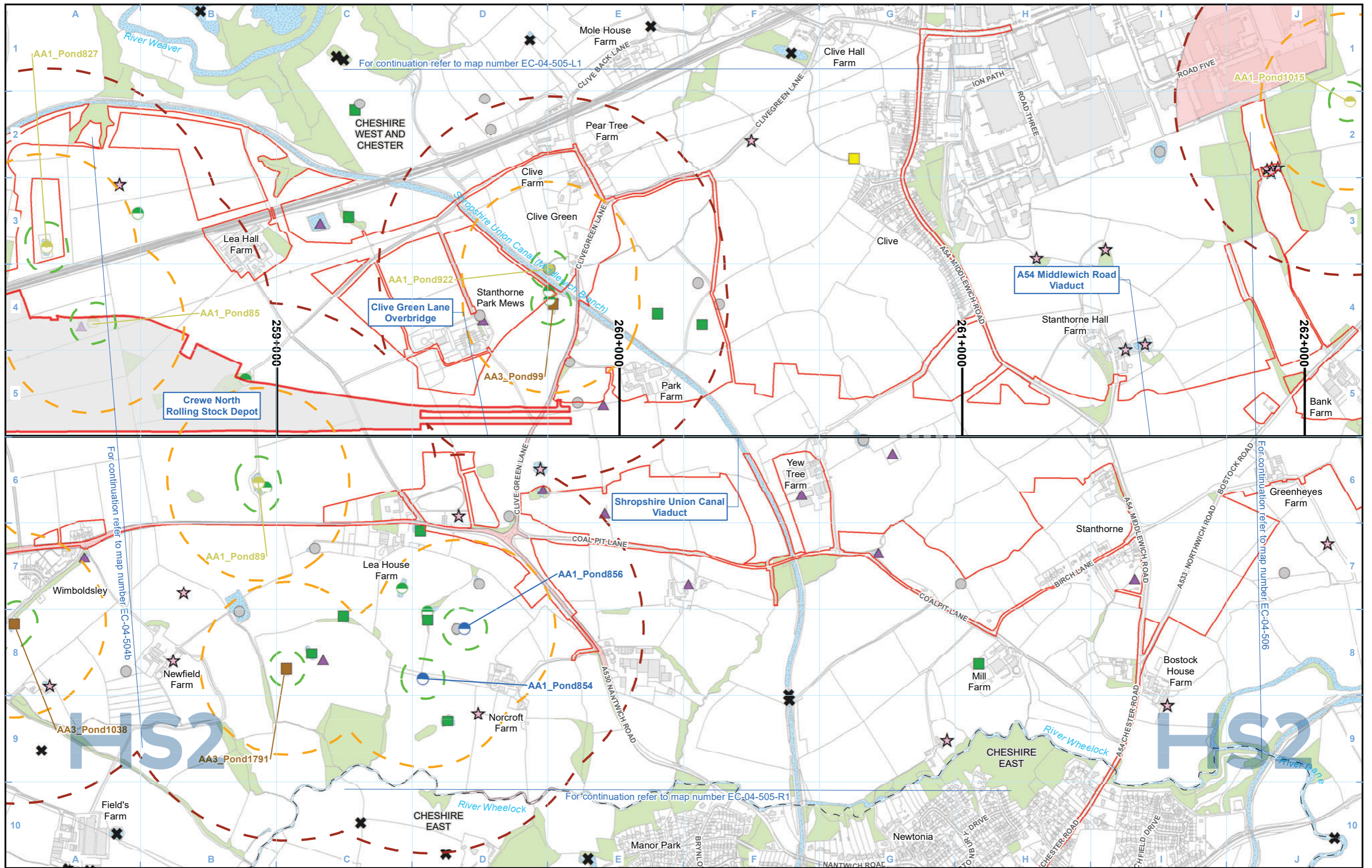
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Date: 08/08/21



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive
 - eDNA survey complete - GCN present
 - eDNA survey complete - GCN assumed absent
 - GCN present (6 visits) - small population (1 - 10 adults)
 - GCN present (less than 6 visits) - small population (1 - 10 adults)
 - GCN confirmed present - no size class determined
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-505-L1

For continuation refer to map number EC-04-504b

For continuation refer to map number EC-04-505-R1

For continuation refer to map number EC-04-506

Note: GCN = Great Crested Newts

Map Number: EC-04-505

Map Name: Amphibians

Community Area MA02: Wimboldsley to Lostock Gram

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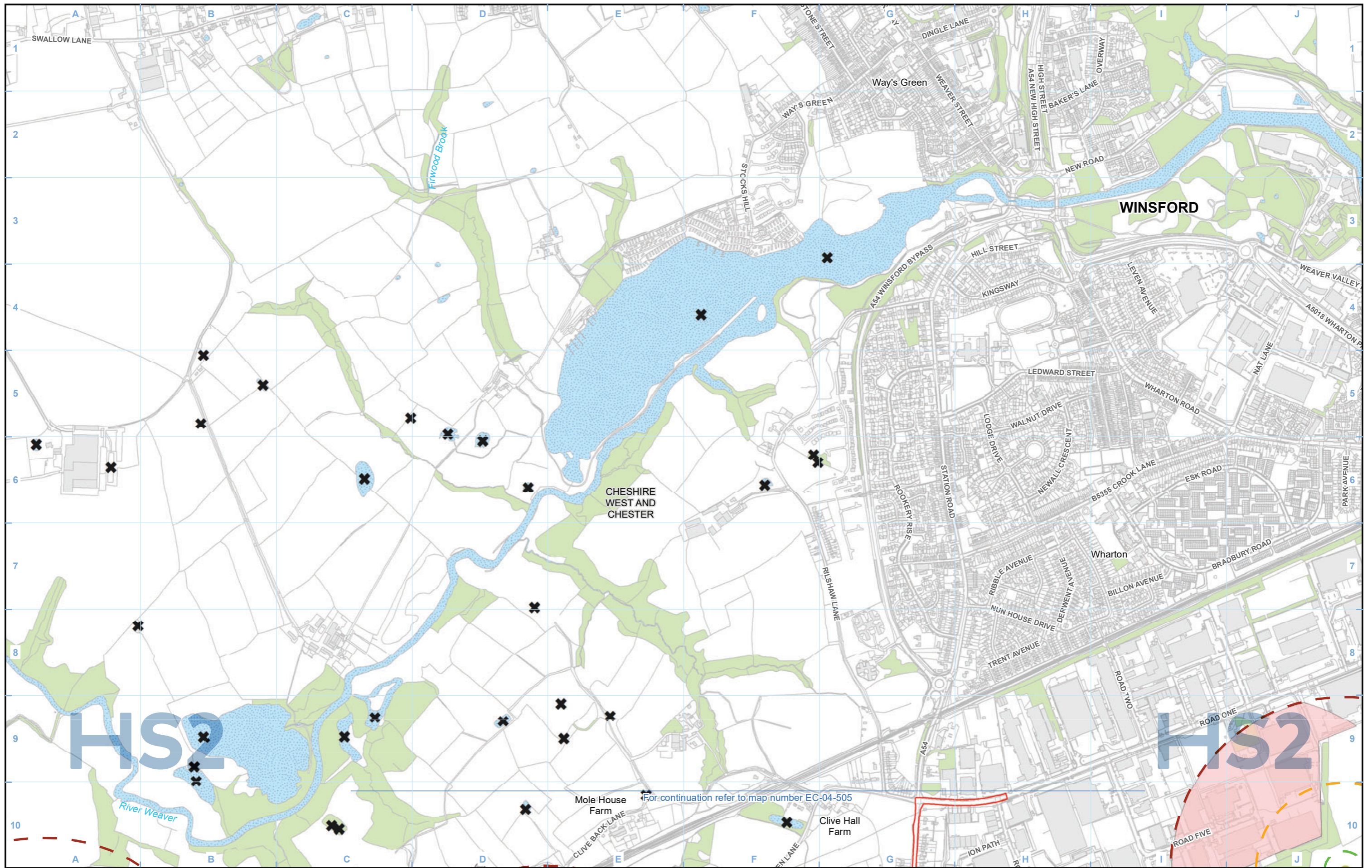
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Date: 08/08/21

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0 100 200 300 400 Metres



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - GCN present (less than 6 visits) - small population (1 - 10 adults)
 - Survey incomplete, no GCN found
 - Scoped out - no survey required

- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-505

Mole House Farm

Clive Hall Farm

Map Number: EC-04-505-L1

Map Name: Amphibians

Community Area MA02: Wimboldsley to Lostock Gram

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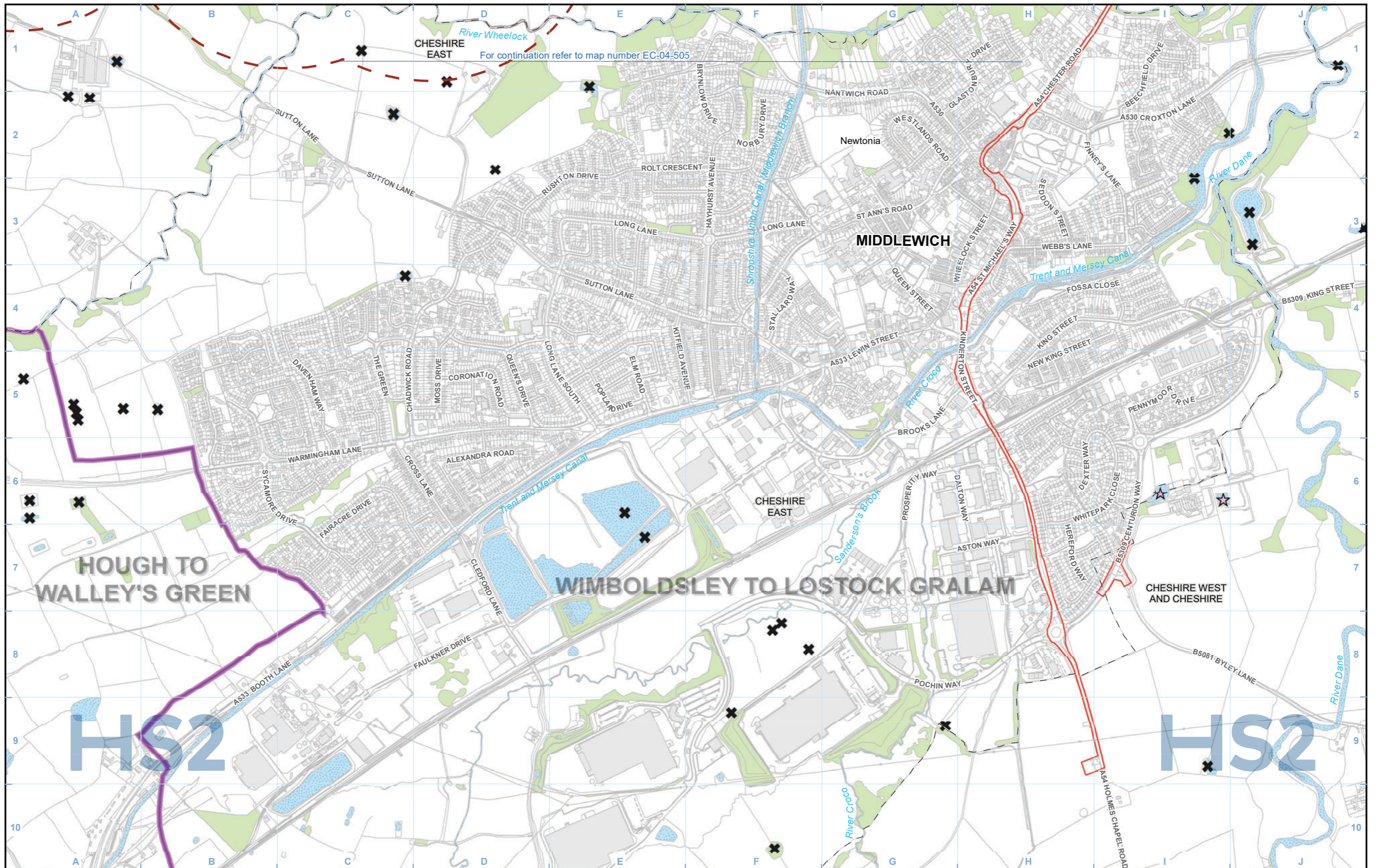
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Date: 08/08/21

Note: GCN = Great Crested Newts



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number EC-04-505-R1
 Map Name Amphibians
 Community Area MA02:
 Wimboldsley to Lostock Gralam

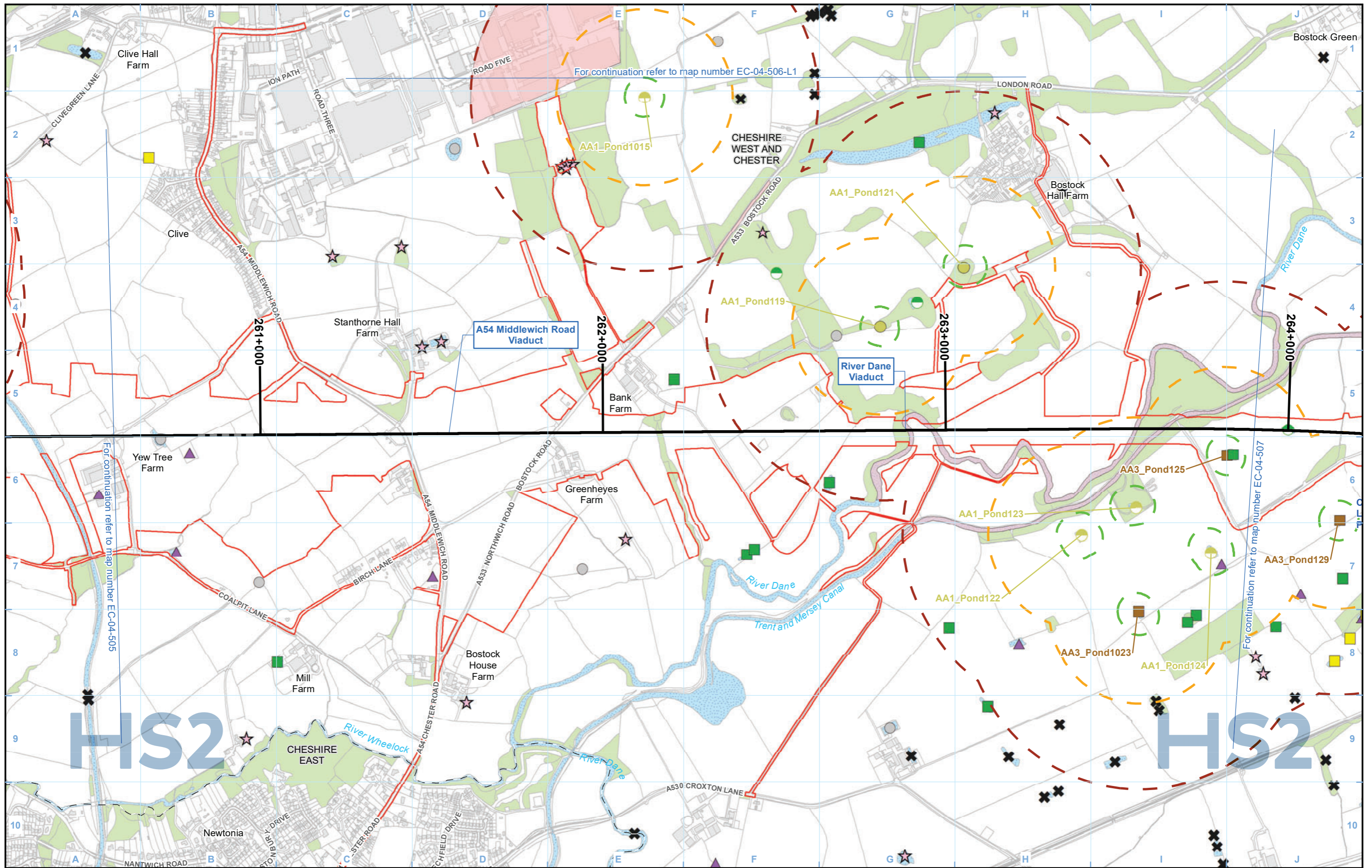
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For continuation refer to map number EC-04-506-L1

For continuation refer to map number EC-04-505

For continuation refer to map number EC-04-507

Legend	
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - result inconclusive
	eDNA survey complete - GCN present
	GCN present (less than 6 visits) - small population (1 - 10 adults)
	Survey complete, GCN assumed absent
	Survey incomplete, no GCN found

Note: GCN = Great Crested Newts

Map Number	EC-04-506
Map Name	Amphibians
Community Area MA02: Wimboldsley to Lostock Gram	

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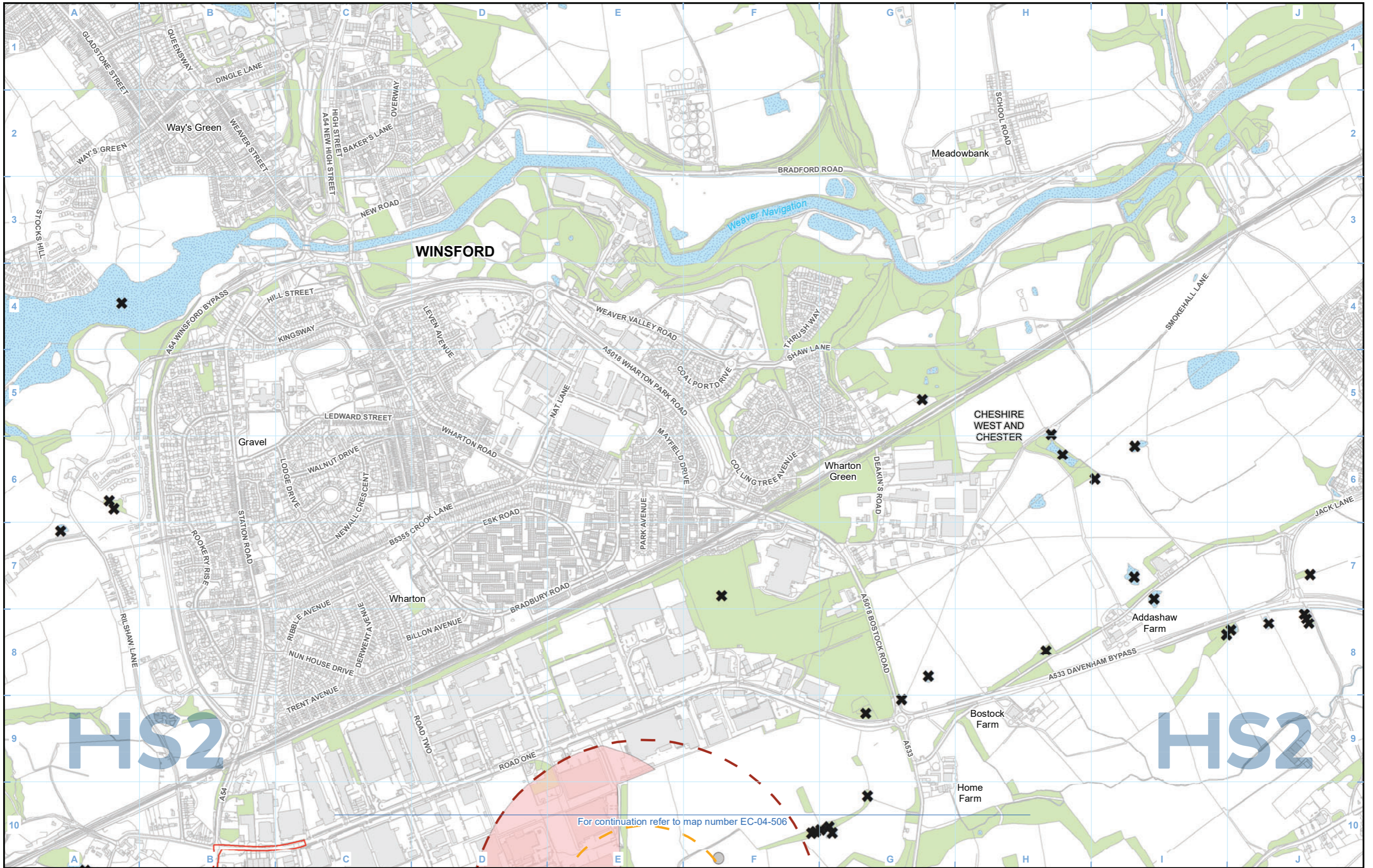
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Survey incomplete, no GCN found
 - Scoped out - no survey required
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-506-L1
Map Name	Amphibians
Community Area MA02: Wimboldsley to Lostock Gram	

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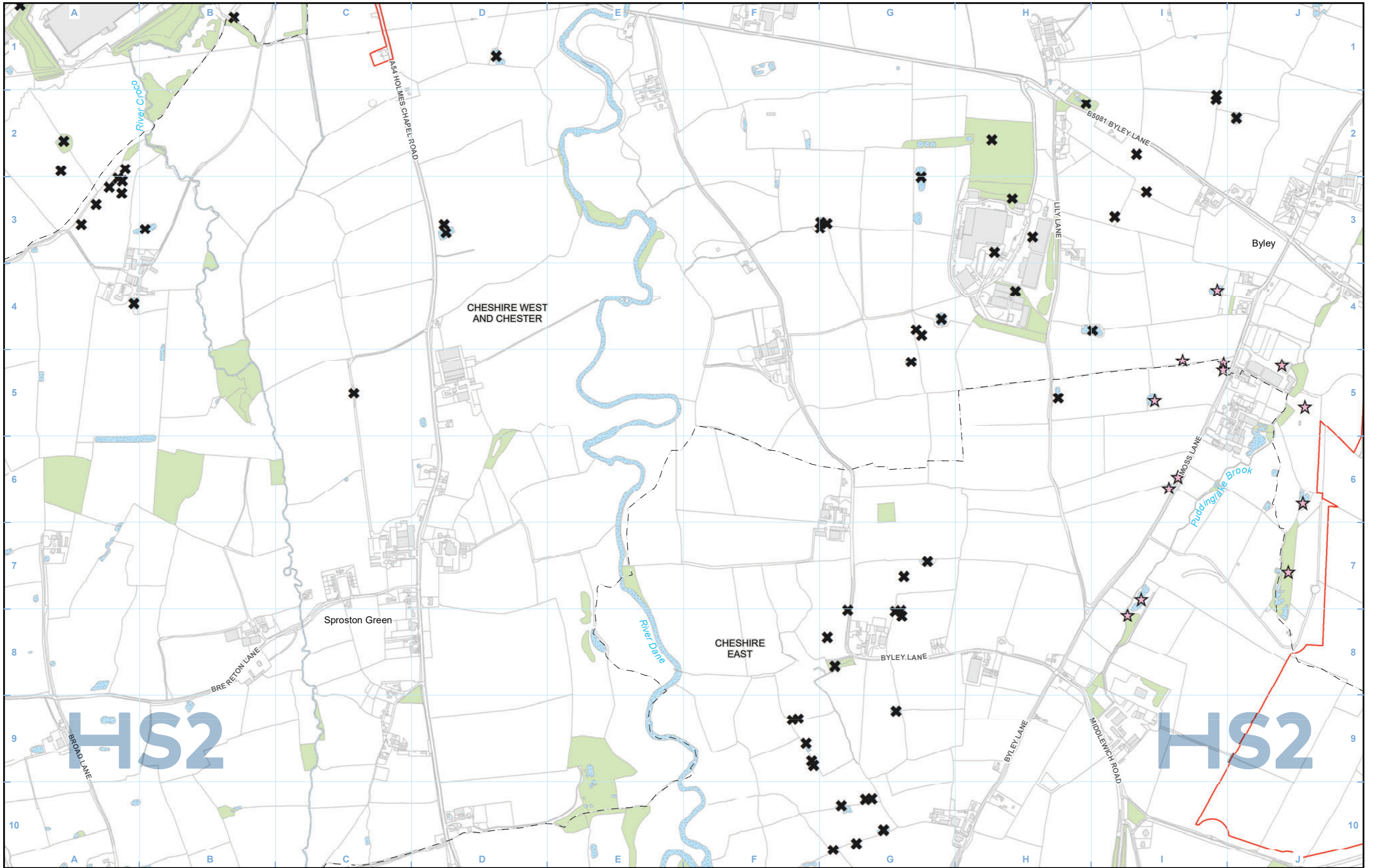
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Legend

Route in tunnel	District/Borough boundary	Scoped out - no survey required
Route on surface	Watercourse	
Depot, station, headhouse or portal building	Water body	
Land potentially required during construction	Woodland (not verified by survey)	
Community area boundary	Scoped in - no access permission	
County boundary		

Note: GCN = Great Crested Newts

Map Number	EC-04-506-R1
Map Name	Amphibians
	Community Area MA02: Wimboldsley to Lostock Gram

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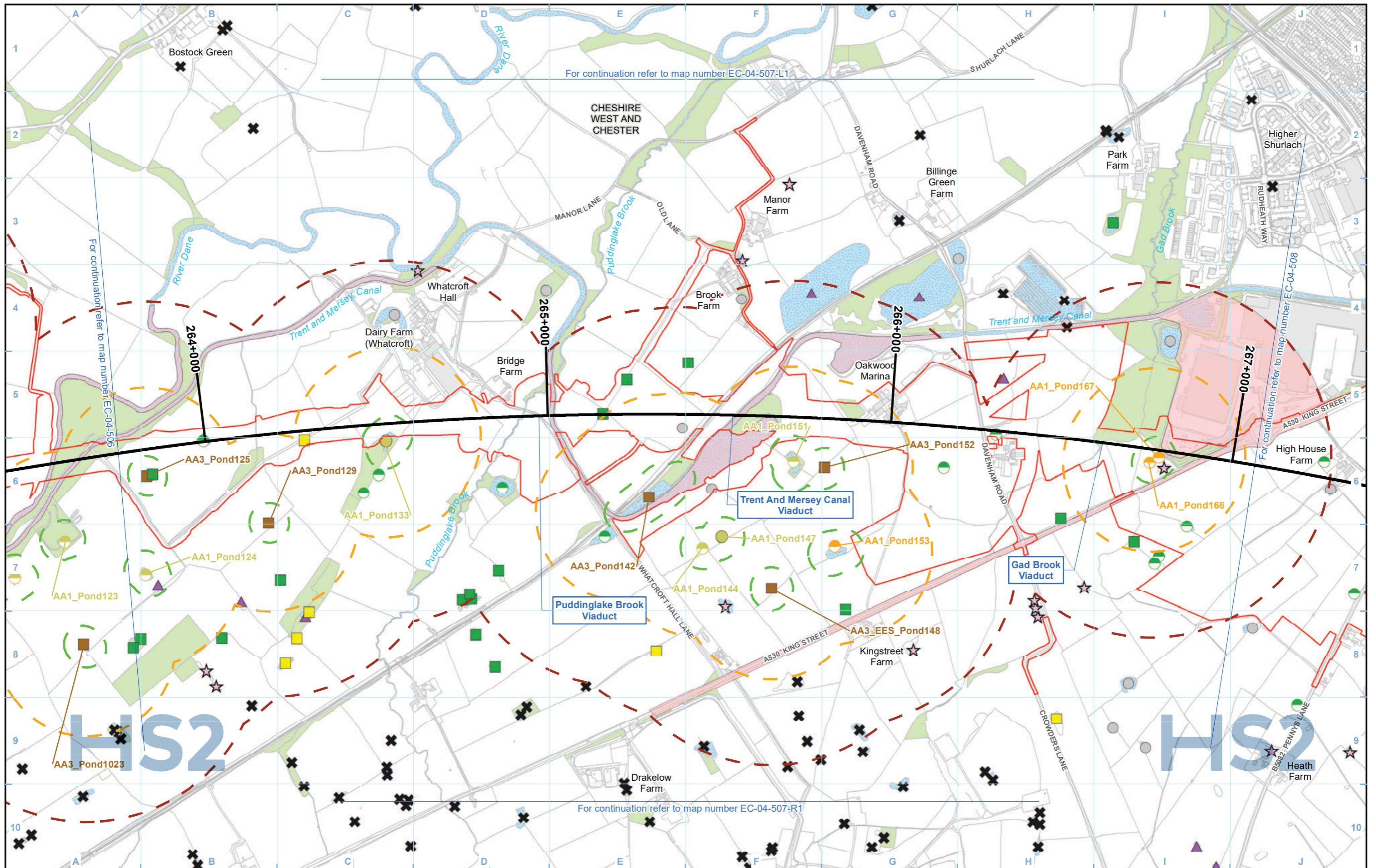
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Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary 	<ul style="list-style-type: none"> District/Borough boundary Watercourse Water body Woodland (not verified by survey) eDNA survey complete - result inconclusive 	<ul style="list-style-type: none"> eDNA survey complete - GCN present eDNA survey complete - GCN assumed absent GCN present (6 visits) - small population (1 - 10 adults) GCN present (less than 6 visits) - medium population (11 - 99 adults) 	<ul style="list-style-type: none"> GCN present (less than 6 visits) - small population (1 - 10 adults) Survey complete, GCN assumed absent Survey incomplete, no GCN found Scoped in - Habitat Suitability Index (HSI)/walkover only 	<ul style="list-style-type: none"> Scoped in - no access permission Scoped out - no survey required 	<ul style="list-style-type: none"> 50m radius from all water bodies where presence of GCN is confirmed 250m radius from all water bodies where presence of GCN is confirmed 500m radius from all water bodies where presence of GCN is confirmed Areas isolated by significant barriers to amphibian movement
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Note: GCN = Great Crested Newts

Map Number	EC-04-507
Map Name	Amphibians
Community Area MA02: Wimboldsley to Lostock Gralam	

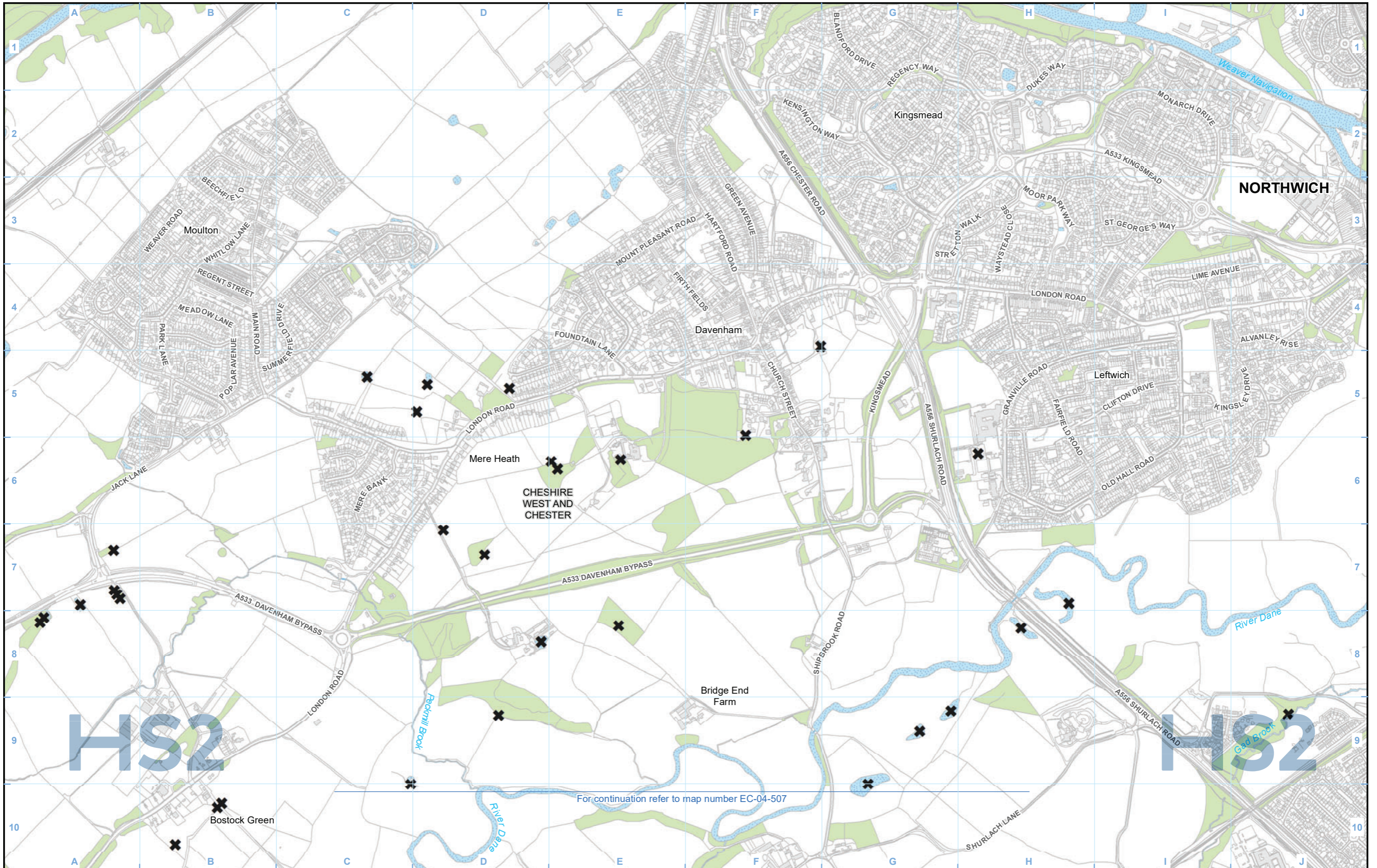
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Scoped out - no survey required

Note: GCN = Great Crested Newts

Map Number: EC-04-507-L1

Map Name: Amphibians

Community Area MA02:
Wimboldsley to Lostock Gram

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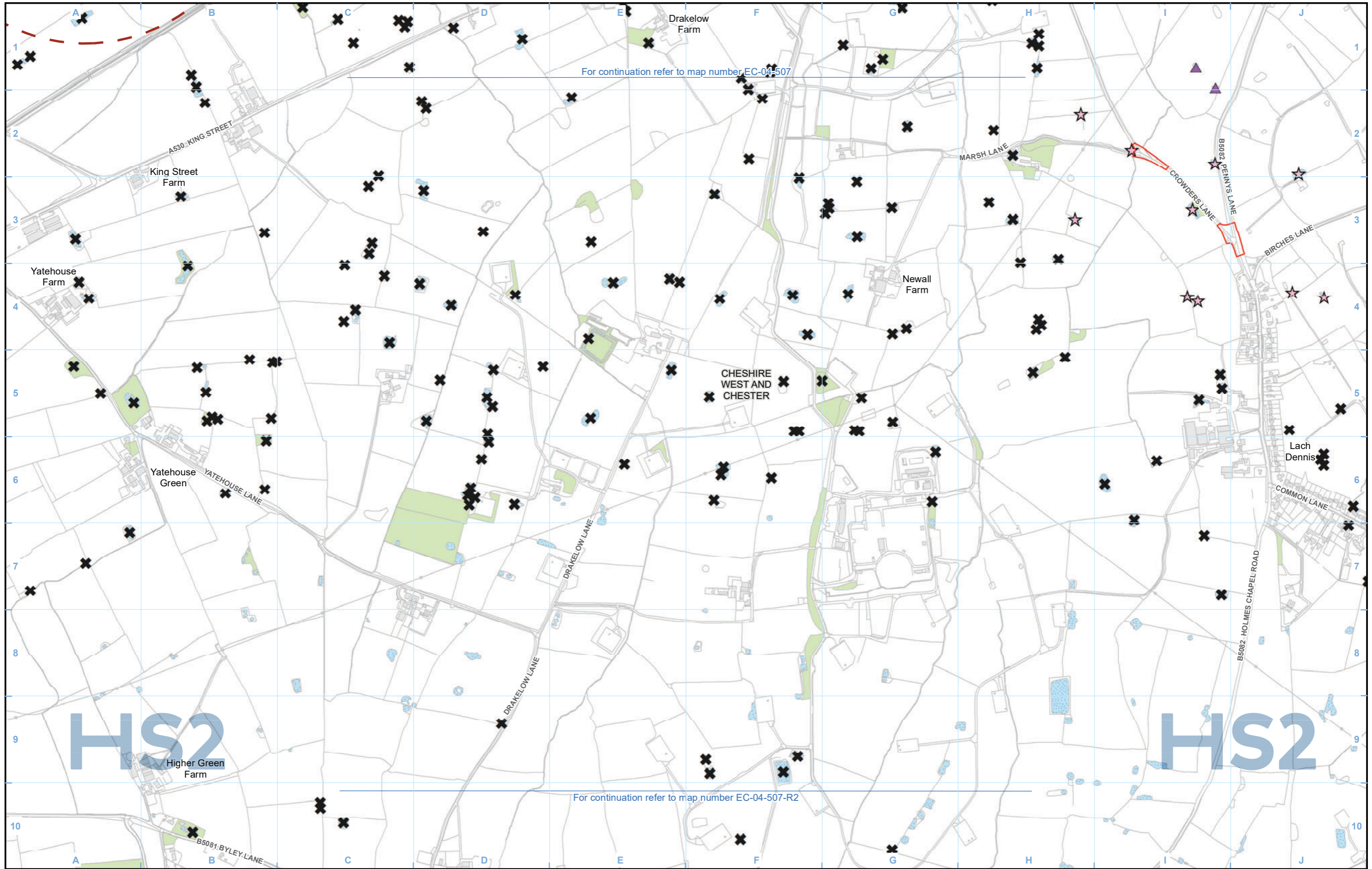
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For continuation refer to map number EC-04-507



For continuation refer to map number EC-04-507

For continuation refer to map number EC-04-507-R2

Legend

Map Number	EC-04-507-R1
Map Name	Amphibians
Community Area MA02: Wimboldsley to Lostock Gramam	

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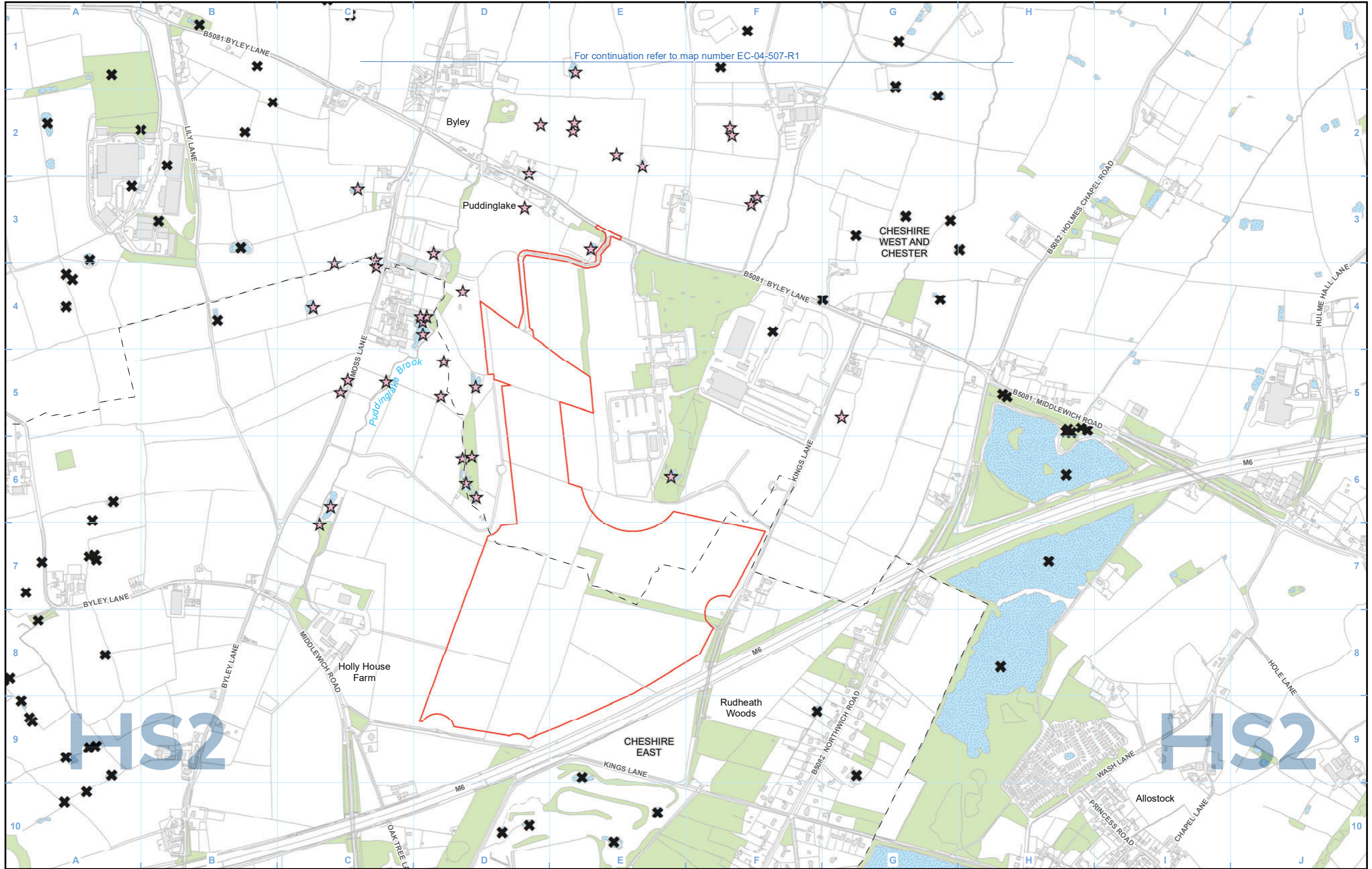
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Note: GCN = Great Crested Newts

For continuation refer to map number EC-04-507-R1



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Scoped in - no access permission
- Scoped out - no survey required

Map Number: EC-04-507-R2

Map Name: Amphibians

Community Area MA02: Wimboldsley to Lostock Gram

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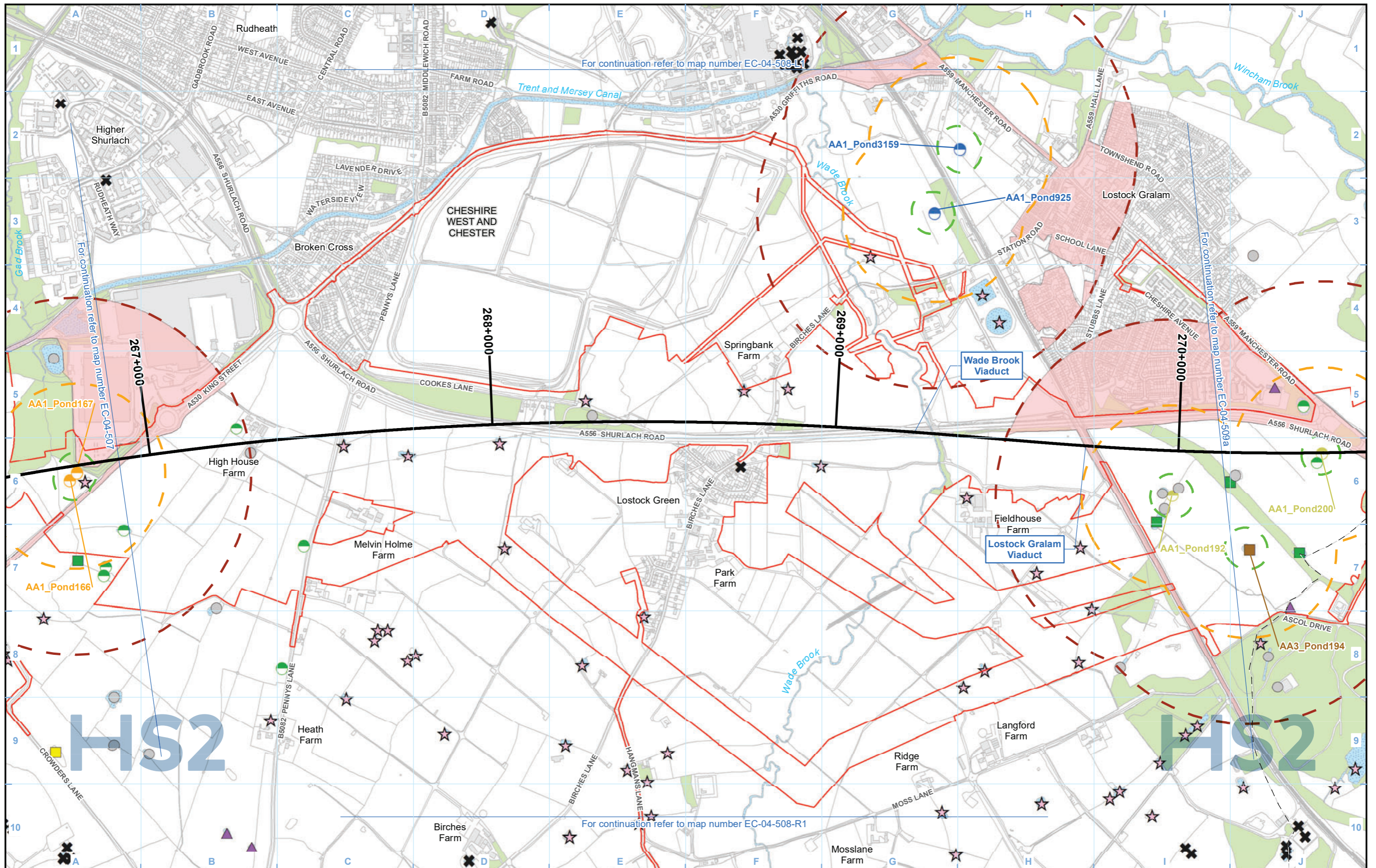
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Date: 08/08/21

Note: GCN = Great Crested Newts



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive

- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (less than 6 visits) - medium population (11 - 99 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required

- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-508
Map Name	Amphibians
Community Area MA02: Wimboldsley to Lostock Gramam	

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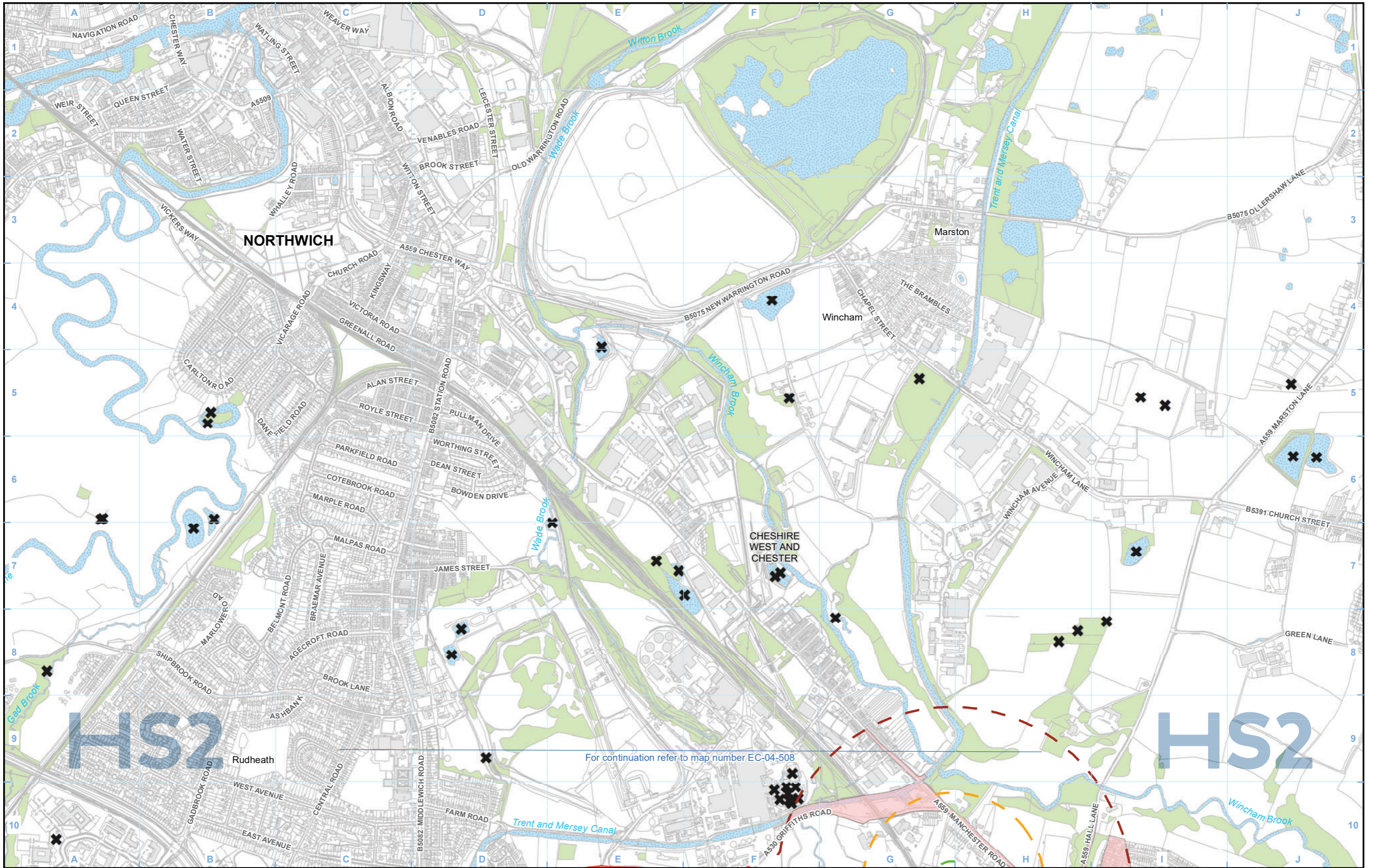
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0 100 200 300 400 Metres



For continuation refer to map number EC-04-508

Legend	
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	Scoped out - no survey required
	50m radius from all water bodies where presence of GCN is confirmed
	250m radius from all water bodies where presence of GCN is confirmed
	500m radius from all water bodies where presence of GCN is confirmed
	Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-508-L1
Map Name	Amphibians
Community Area MA02: Wimboldsley to Lostock Gram	

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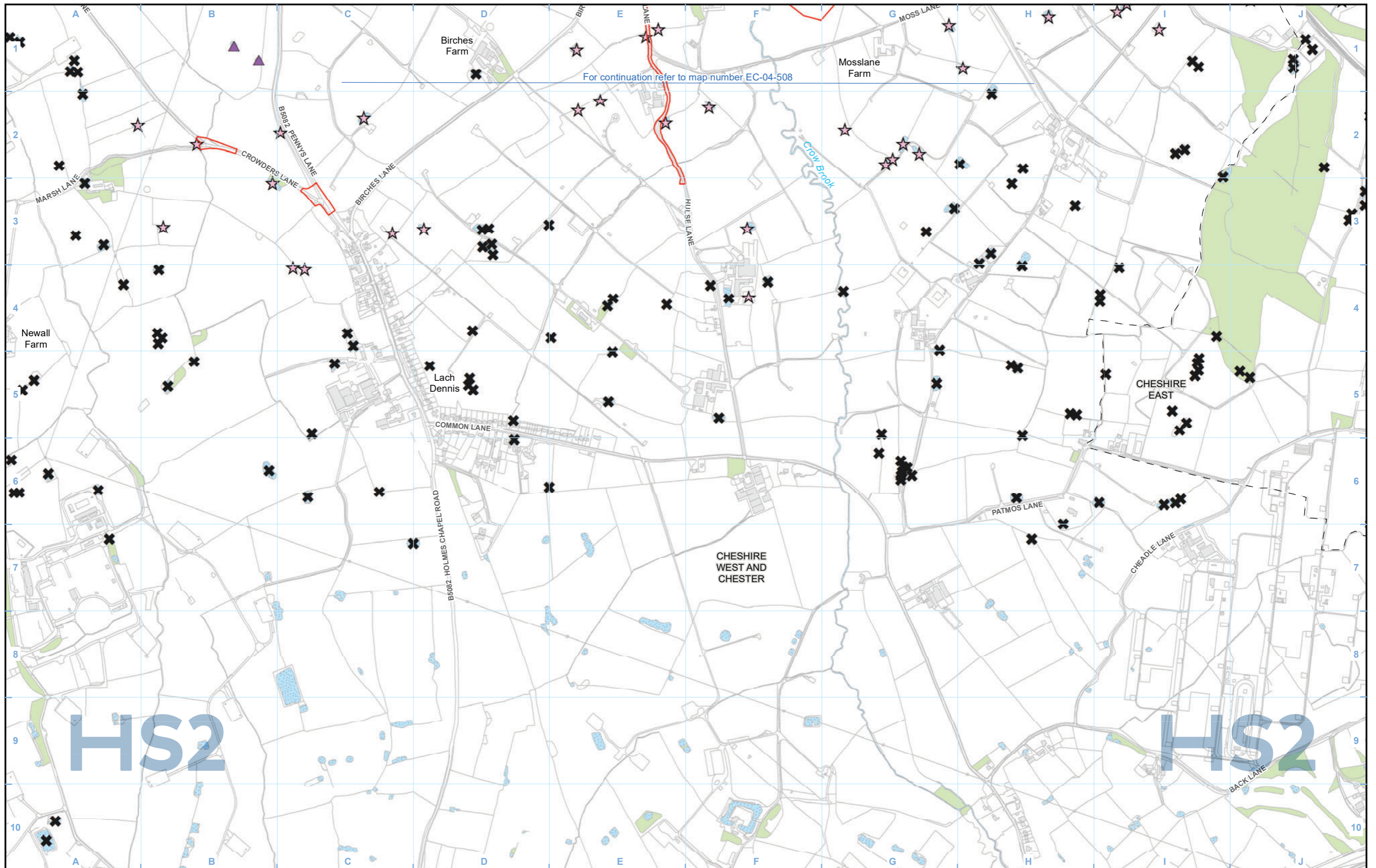
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Scale at A3: 1:10,000

Metres

Date: 08/08/21



For continuation refer to map number EC-04-508

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required

Map Number	EC-04-508-R1
Map Name	Amphibians
Community Area MA02: Wimboldsley to Lostock Grlam	

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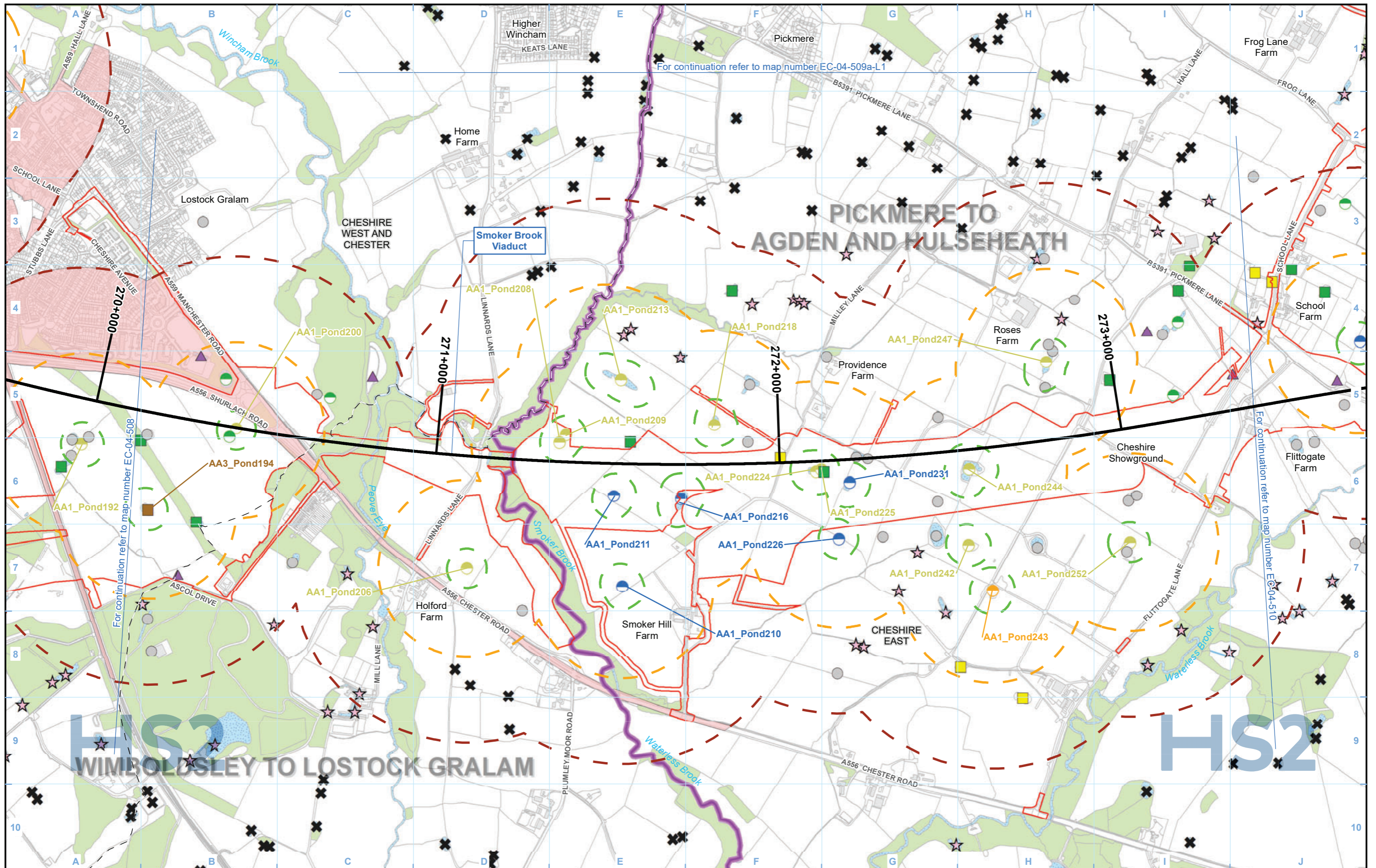
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Doc Number: 2DE01-MWJ-EV-MAP-M000-002975-P01

Scale at A3: 1:10,000

Date: 08/08/21

Note: GCN = Great Crested Newts



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive

- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (less than 6 visits) - medium population (11 - 99 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)

- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only

- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-509a
Map Name	Amphibians
Community Area MA02: Wimboldsley to Lostock Gralam	

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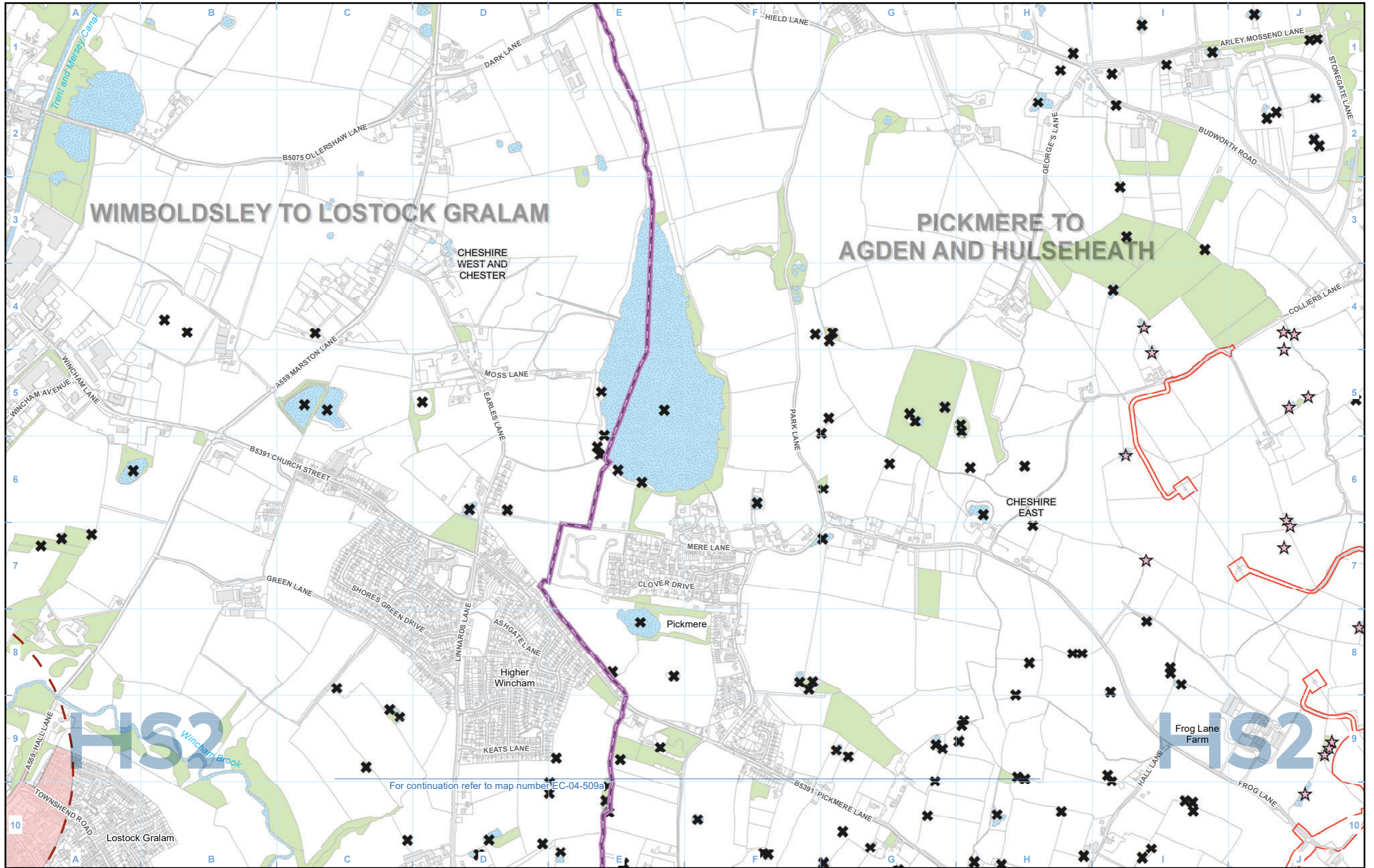
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WIMBOLDSLEY TO LOSTOCK GRALAM

PICKMERE TO AGDEN AND HULSEHEATH

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Scoped in - no access permission

- Scoped out - no survey required
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-509a

Note: GCN = Great Crested Newts

Map Number	EC-04-509a-L1
Map Name	Amphibians
Community Area MA02: Wimboldsley to Lostock Gralam	

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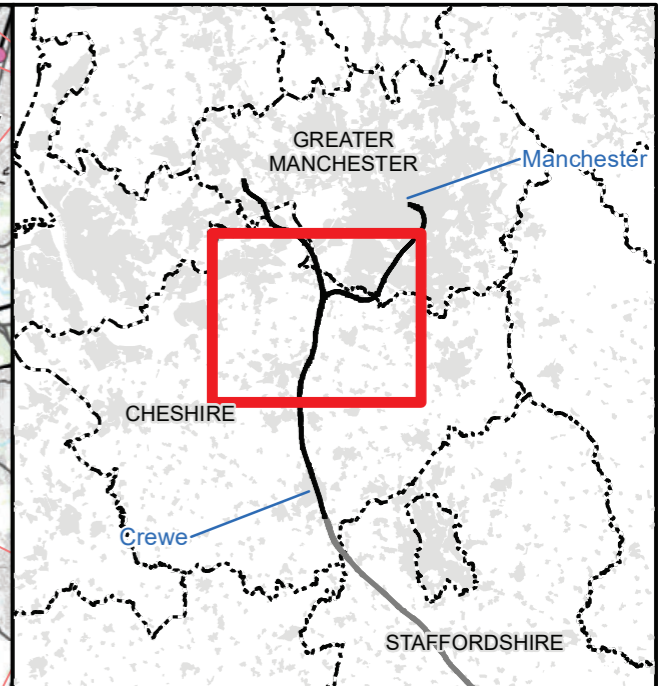
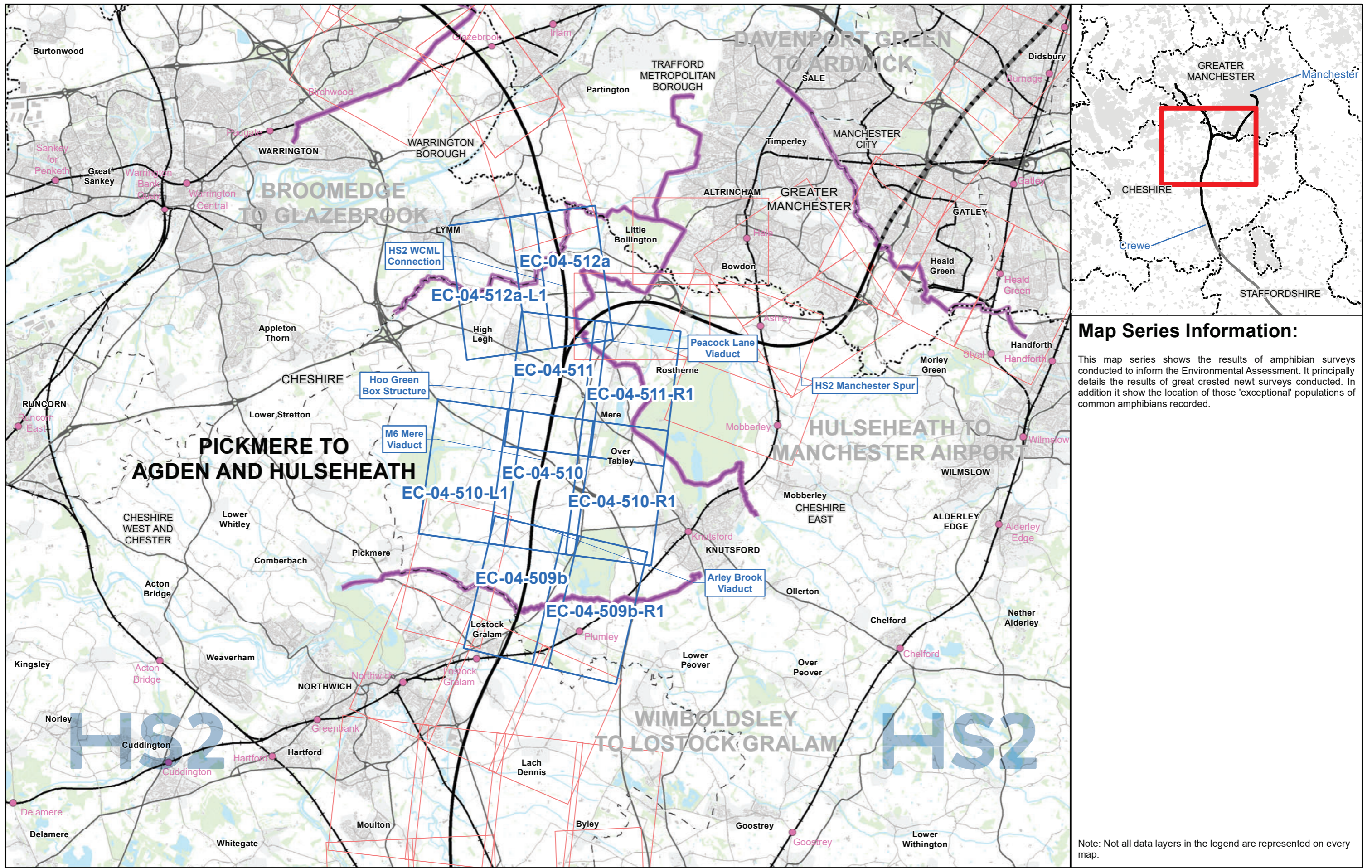
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Doc Number: 2DE01-MWJ-EV-MAP-M000-002976-P01

Scale at A3: 1:10,000

Metres

Date: 08/08/21



Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets not included in this community area

Map Number	EC-04-INDEX-MA03
Map Name	Index Map of: Amphibians
Community Area MA03: Pickmere to Agden and Hulseheath	

HS2

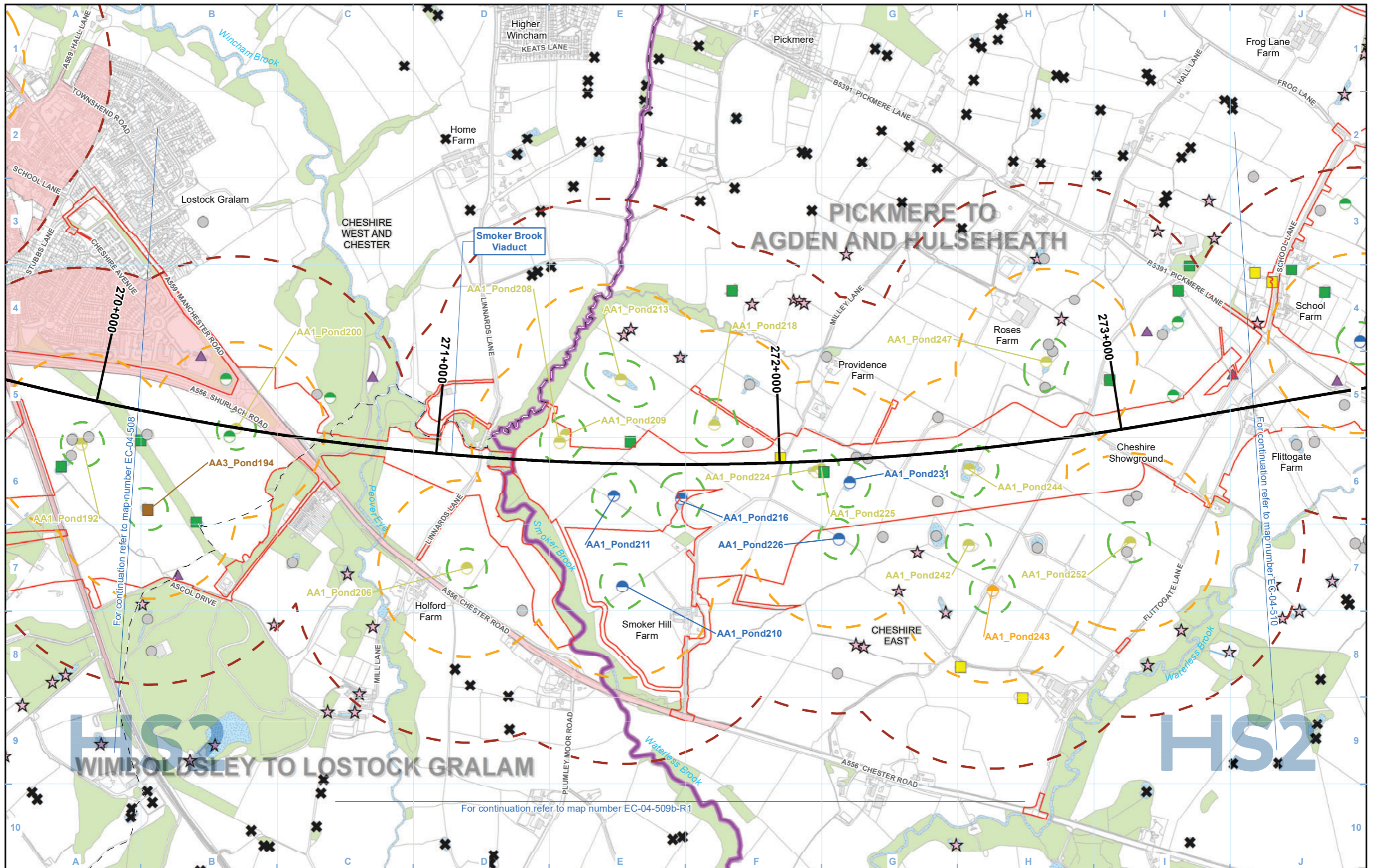
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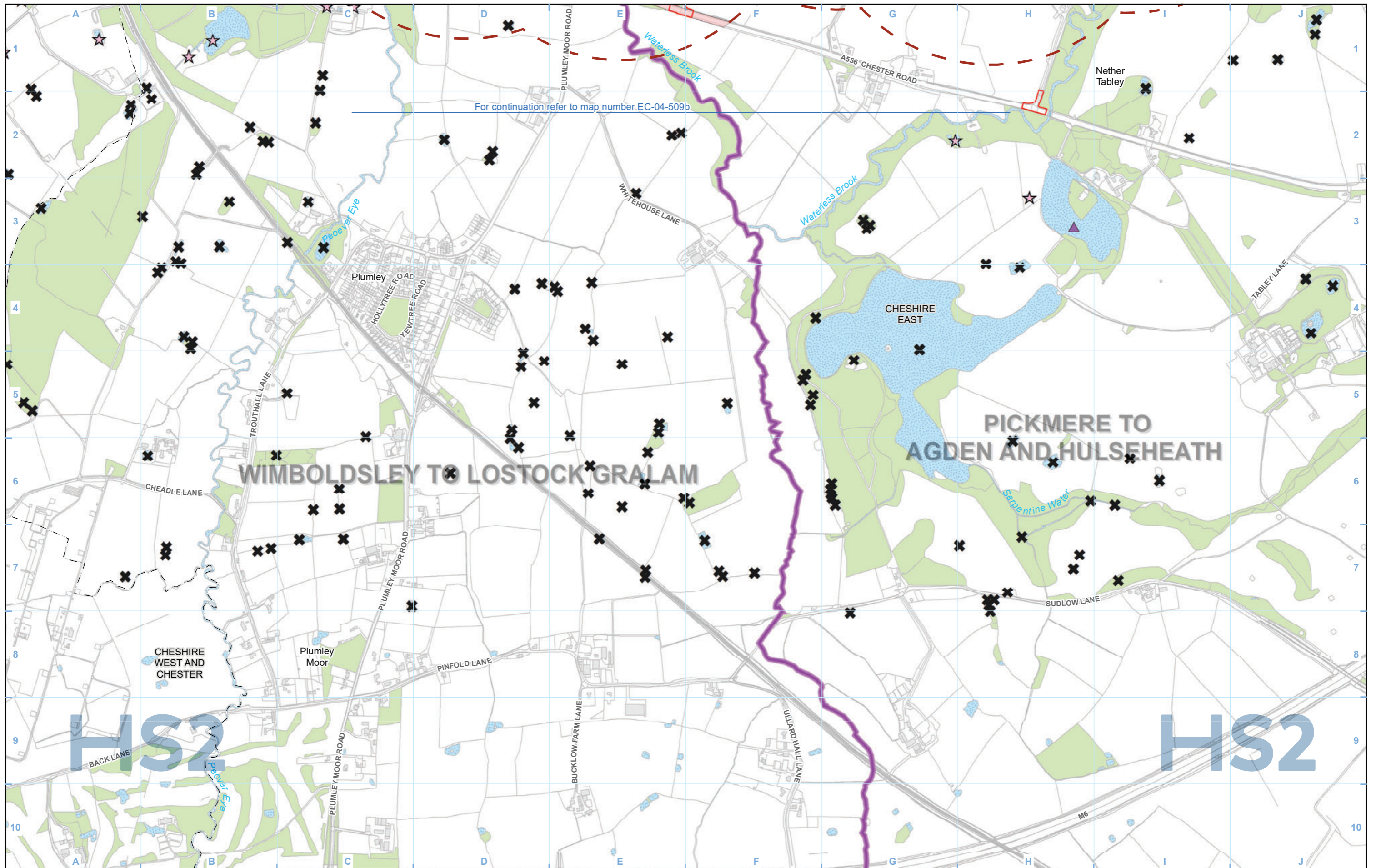
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Date: 08/08/21



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive
 - eDNA survey complete - GCN present
 - eDNA survey complete - GCN assumed absent
 - GCN present (less than 6 visits) - medium population (11 - 99 adults)
 - GCN present (less than 6 visits) - small population (1 - 10 adults)
 - GCN confirmed present - no size class determined
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

<p>Map Number EC-04-509b</p> <p>Map Name Amphibians</p>	<p>HS2</p> <p>HS2 Ltd accepted no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2020 OS 100049190</p> <p>Doc Number: 2DE01-MWJ-EV-MAP-M000-000957-P01</p>	<p>Scale at A3: 1:10,000</p> <p>Date: 08/08/21</p>
<p>Community Area MA03: Pickmere to Agden and Hulseheath</p> <p>Note: GCN = Great Crested Newts</p>		



For continuation refer to map number EC-04-509b

Legend

Note: GCN = Great Crested Newts

Map Number	EC-04-509b-R1
Map Name	Amphibians
Community Area MA03: Pickmere to Agden and Hulseheath	

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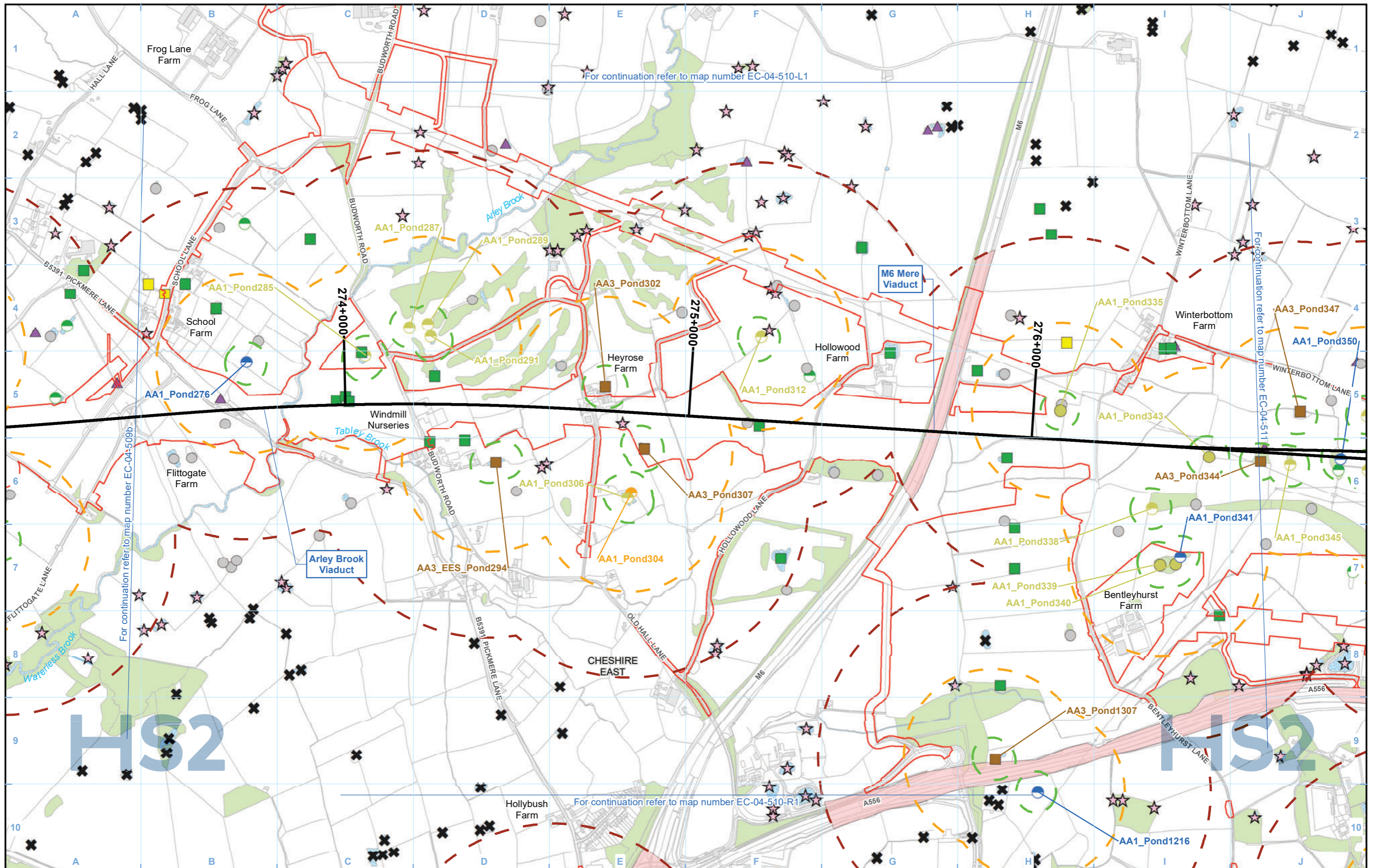
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Date: 08/08/21

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Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary 	<ul style="list-style-type: none"> District/Borough boundary Watercourse Water body Woodland (not verified by survey) eDNA survey complete - result inconclusive 	<ul style="list-style-type: none"> eDNA survey complete - GCN present eDNA survey complete - GCN assumed absent GCN present (6 visits) - small population (1 - 10 adults) GCN present (less than 6 visits) - medium population (11 - 99 adults) GCN present (less than 6 visits) - small population (1 - 10 adults) GCN confirmed present - no size class determined Survey complete, GCN assumed absent Survey incomplete, no GCN found 	<ul style="list-style-type: none"> Scoped in - Habitat Suitability Index (HSI)/walkover only Scoped in - no access permission Scoped out - no survey required 	<ul style="list-style-type: none"> 50m radius from all water bodies where presence of GCN is confirmed 250m radius from all water bodies where presence of GCN is confirmed 500m radius from all water bodies where presence of GCN is confirmed Areas isolated by significant barriers to amphibian movement
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Note: GCN = Great Crested Newts

Map Number: EC-04-510

Map Name: Amphibians

Community Area MA03:
Pickmere to Agden and Hulseheath

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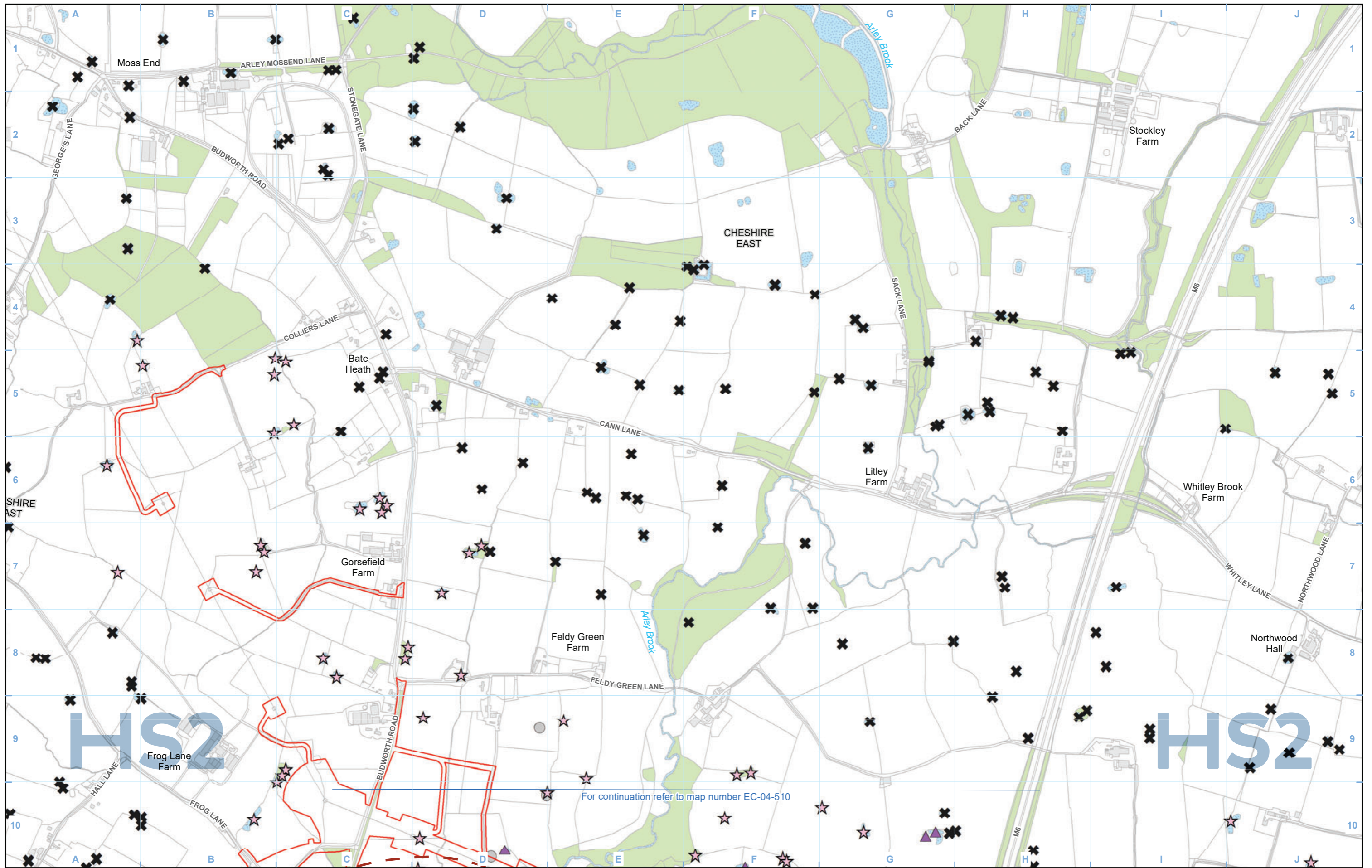
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Date: 08/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres



Legend

Route in tunnel	District/Borough boundary	Scoped in - Habitat Suitability Index (HSI)/walkover only	Scoped out - no survey required
Route on surface	Watercourse	Scoped in - no access permission	500m radius from all water bodies where presence of GCN is confirmed
Depot, station, headhouse or portal building	Water body	Survey incomplete, no GCN found	
Land potentially required during construction	Woodland (not verified by survey)		
Community area boundary	County boundary		

For continuation refer to map number EC-04-510

Note: GCN = Great Crested Newts

Map Number	EC-04-510-L1
Map Name	Amphibians
Community Area MA03: Pickmere to Agden and Hulseheath	

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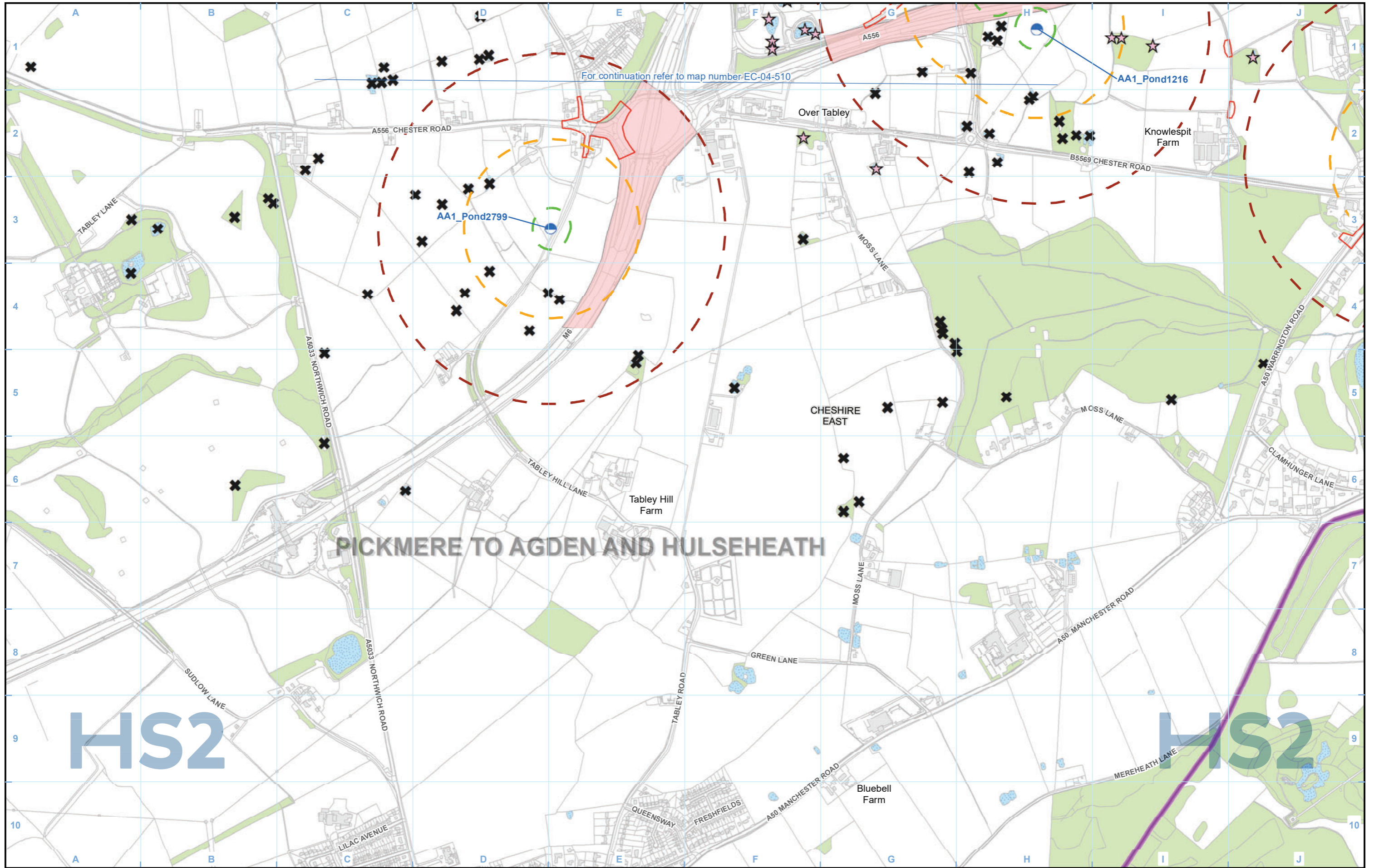
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Metres

Date: 08/08/21



For continuation refer to map number EC-04-510

PICKMERE TO AGDEN AND HULSEHEATH

HS2

HS2

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - GCN confirmed present - no size class determined
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

Map Number	EC-04-510-R1
Map Name	Amphibians
Community Area MA03: Pickmere to Agden and Hulseheath	

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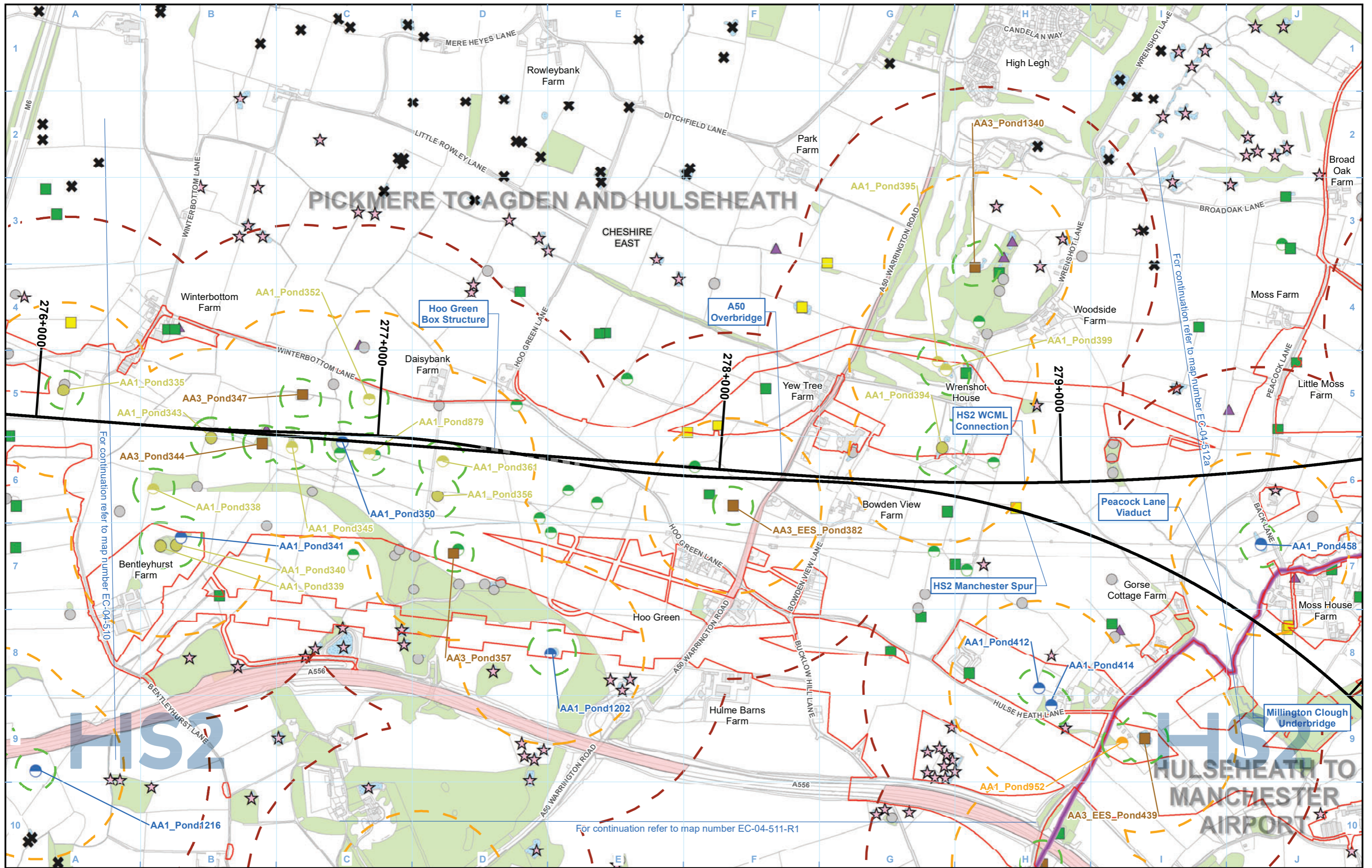
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Doc Number: 2DE01-MWJ-EV-MAP-M000-002978-P01.5 **Date:** 08/08/21

Note: GCN = Great Crested Newts



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- eDNA survey complete - result inconclusive
- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (6 visits) - small population (1 - 10 adults)
- GCN present (less than 6 visits) - medium population (11 - 99 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)
- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number: EC-04-511

Map Name: Amphibians

Community Area MA03:
Pickmere to Agden and Hulseheath

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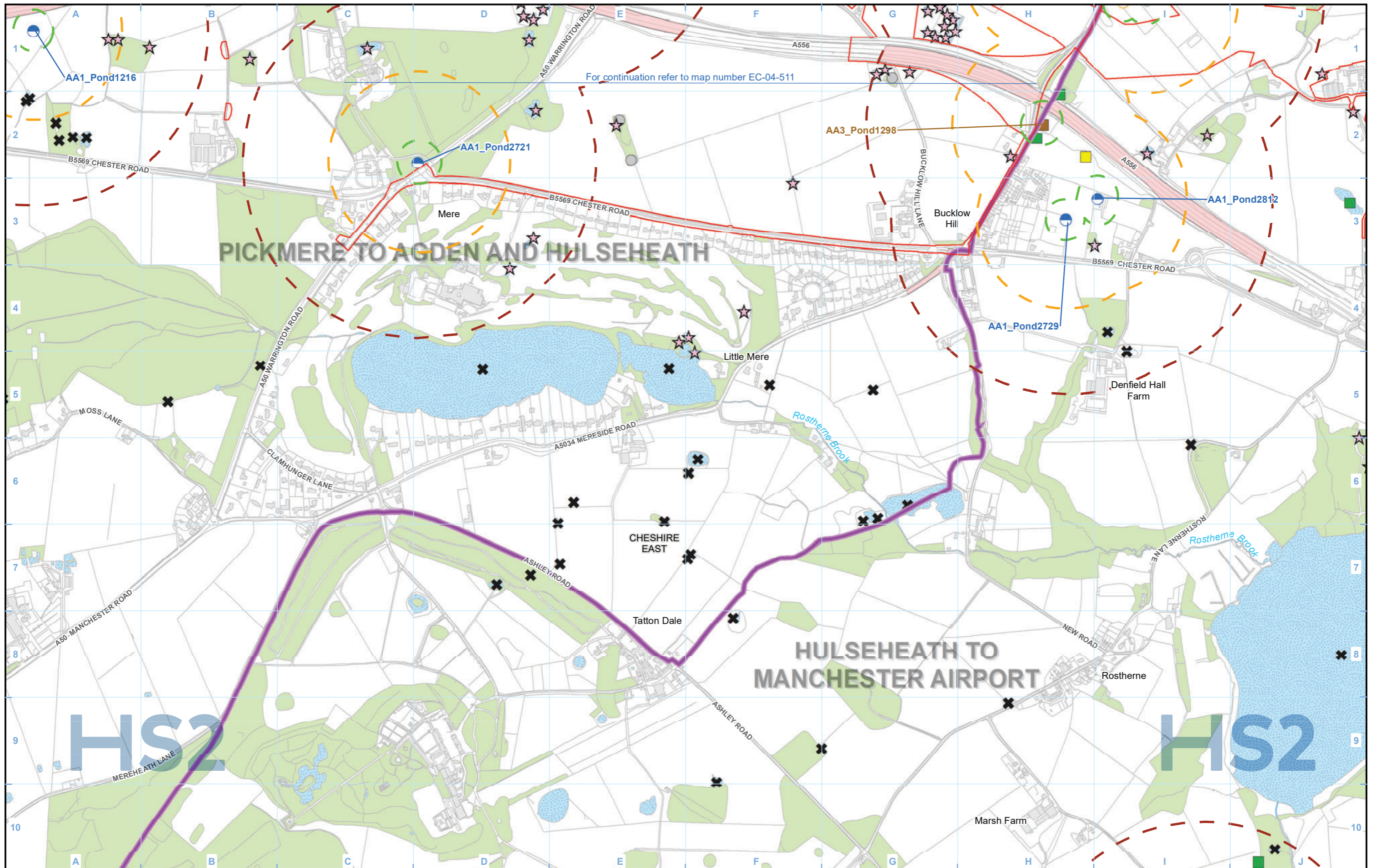
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Date: 08/08/21



For continuation refer to map number EC-04-511

Legend

Route in tunnel	District/Borough boundary	eDNA survey complete - GCN present	GCN confirmed present - no size class determined	Scoped out - no survey required	50m radius from all water bodies where presence of GCN is confirmed
Route on surface	Watercourse	eDNA survey complete - GCN assumed absent	Survey incomplete, no GCN found	Scoped in - no access permission	250m radius from all water bodies where presence of GCN is confirmed
Depot, station, headhouse or portal building	Water body	GCN present (less than 6 visits) - medium population (11 - 99 adults)	Star	500m radius from all water bodies where presence of GCN is confirmed	Areas isolated by significant barriers to amphibian movement
Land potentially required during construction	Woodland (not verified by survey)	eDNA survey complete - result inconclusive			
Community area boundary	eDNA survey complete - result inconclusive				
County boundary					

Note: GCN = Great Crested Newts

Map Number: EC-04-511-R1

Map Name: Amphibians

Community Area MA03: Pickmere to Agden and Hulseheath

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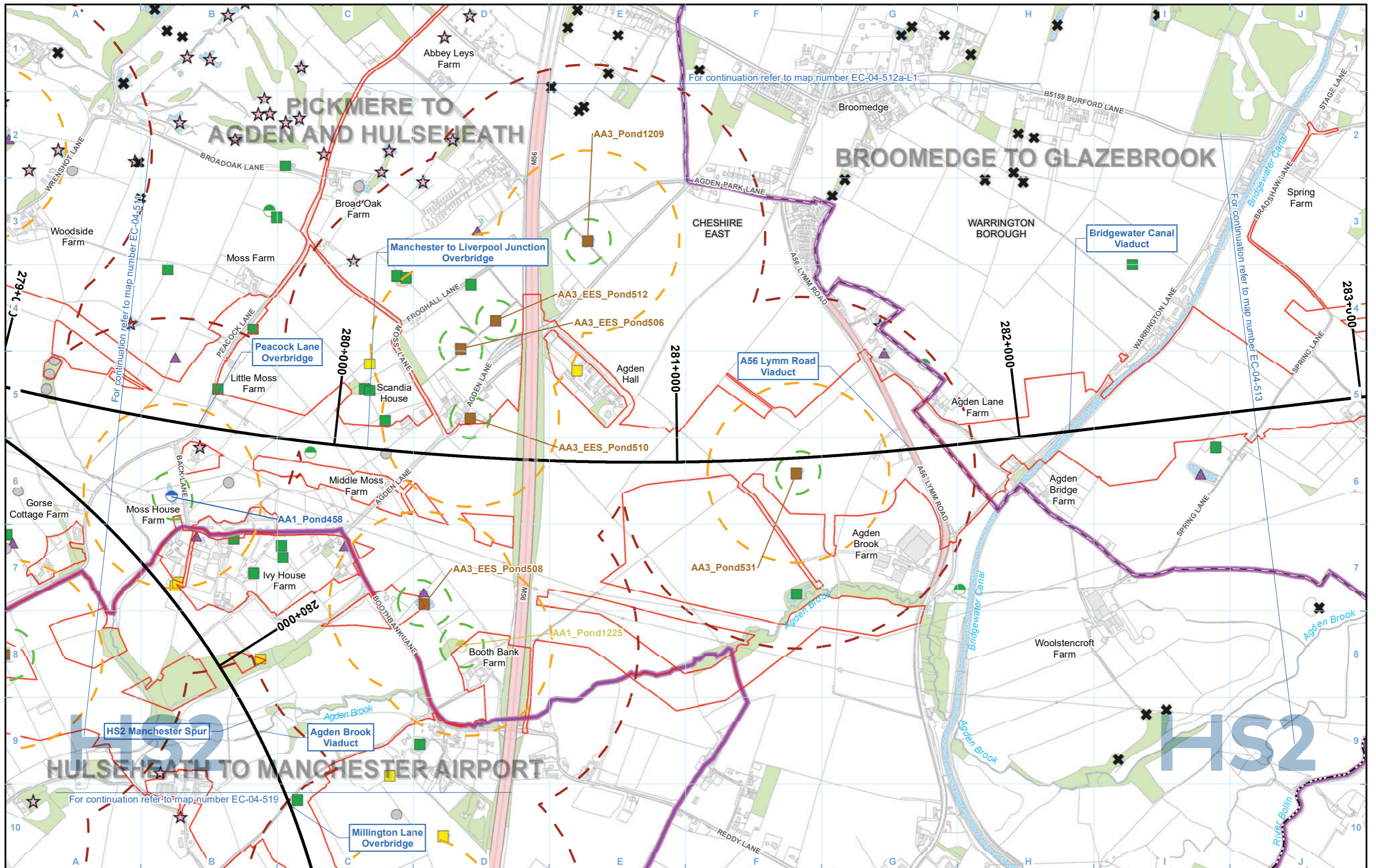
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Date: 08/08/21

Scale at A3: 1:10,000

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Legend

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Note: GCN = Great Crested Newts

Map Number: EC-04-512a

Map Name: Amphibians

Community Area MA03: Pickmere to Agden and Hulseheath

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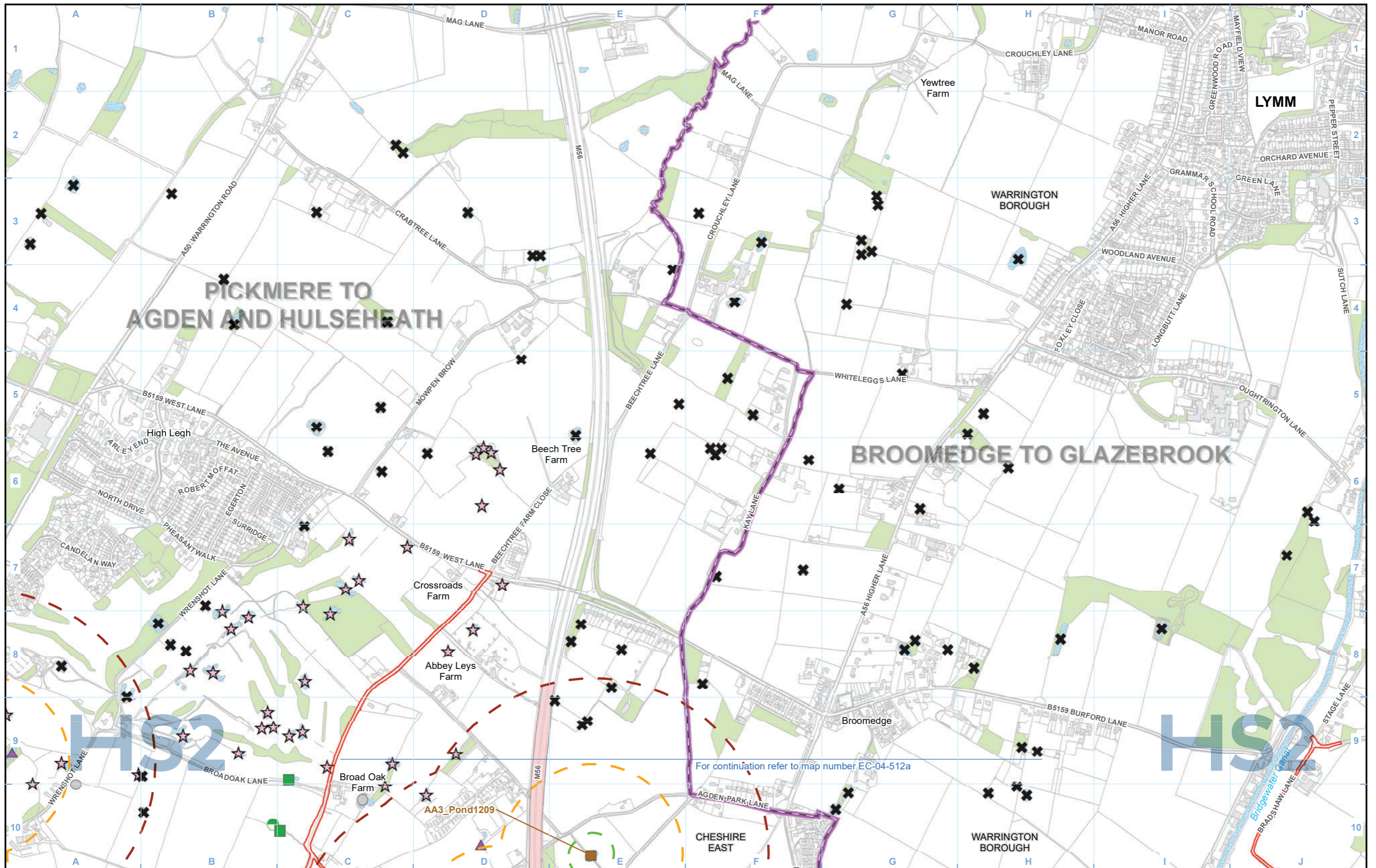
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Date: 08/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres



PICKMERE TO AGDEN AND HULSEHEATH

BROOMEDGE TO GLAZEBROOK

Legend	
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - GCN present
	eDNA survey complete - GCN assumed absent
	Survey complete, GCN assumed absent
	Survey incomplete, no GCN found
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of GCN is confirmed
	250m radius from all water bodies where presence of GCN is confirmed
	500m radius from all water bodies where presence of GCN is confirmed
	Areas isolated by significant barriers to amphibian movement

Map Number	EC-04-512a-L1
Map Name	Amphibians
Community Area MA03: Pickmere to Agden and Hulseheath	

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Doc Number: 2DE01-MWJ-EV-MAP-M000-002979-P01

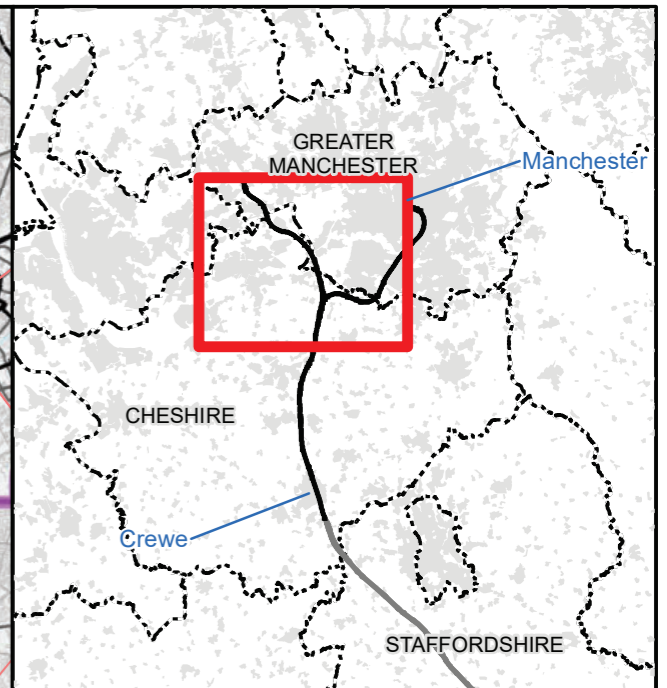
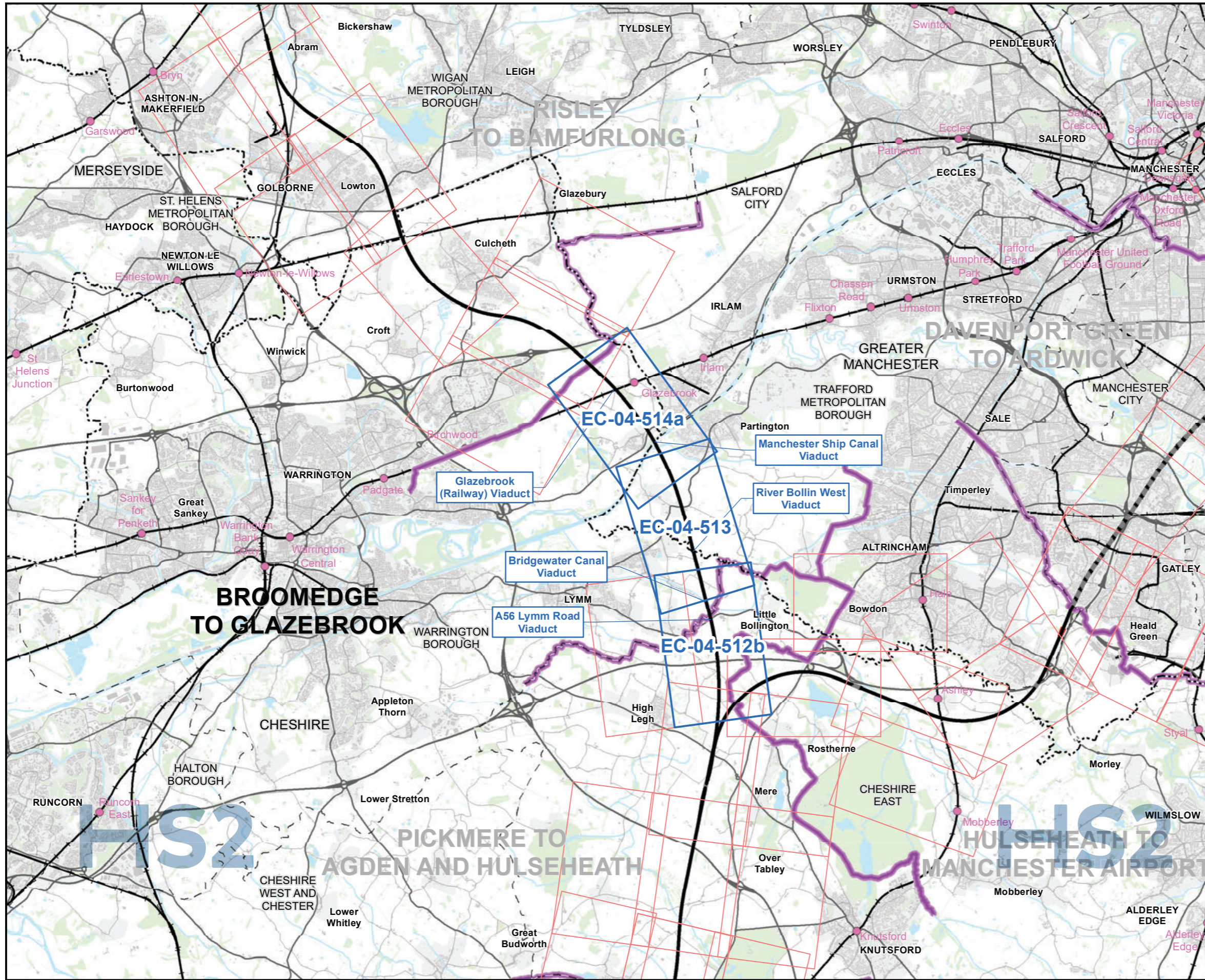
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Date: 08/08/21

Note: GCN = Great Crested Newts

For continuation refer to map number EC-04-512a



Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets not included in this community area

Map Number	EC-04-INDEX-MA04
Map Name	Index Map of: Amphibians
	Community Area MA04: Broomedge to Glazebrook

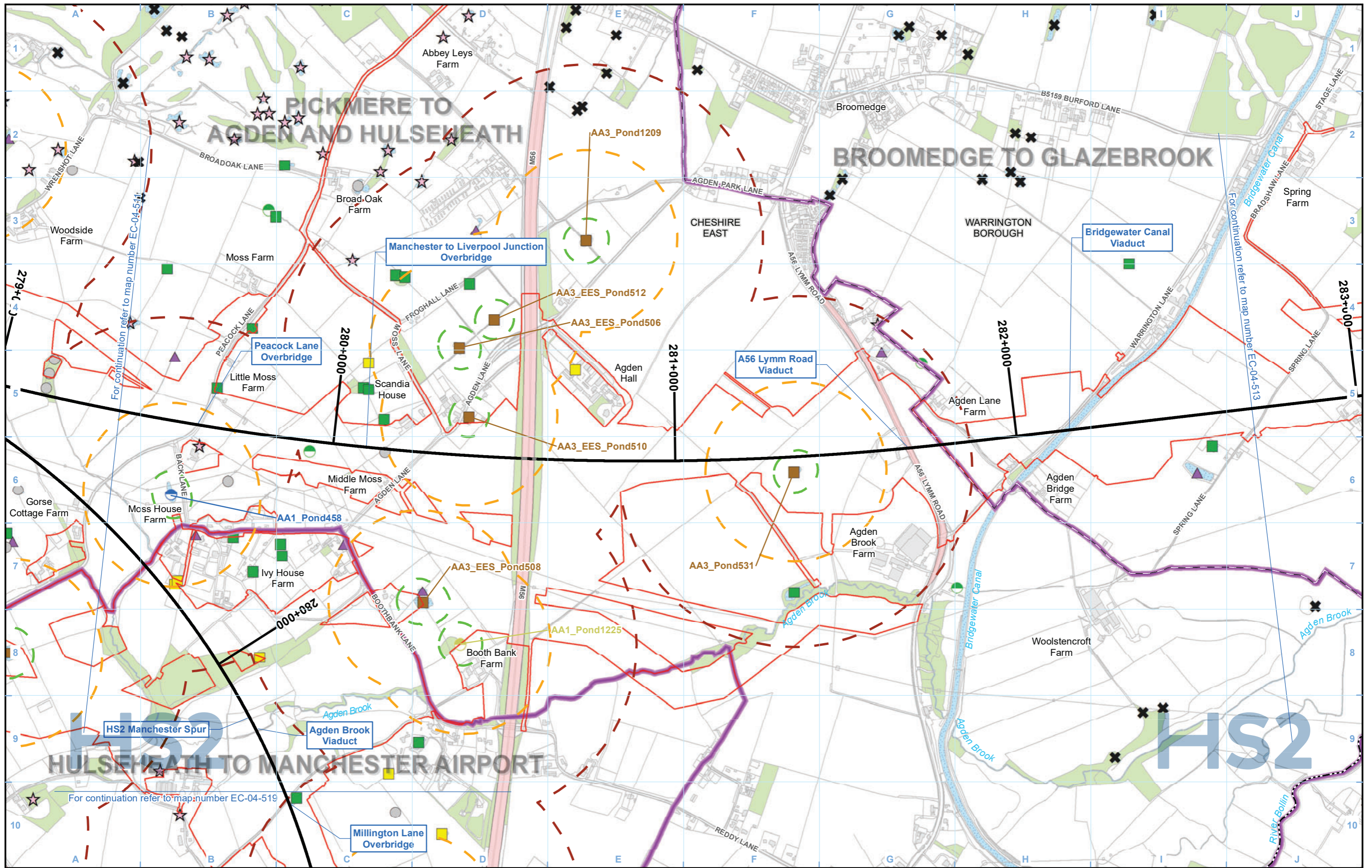
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Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary 	<ul style="list-style-type: none"> District/Borough boundary Watercourse Water body Woodland (not verified by survey) eDNA survey complete - result inconclusive 	<ul style="list-style-type: none"> eDNA survey complete - GCN present eDNA survey complete - GCN assumed absent GCN present (less than 6 visits) - small population (1 - 10 adults) 	<ul style="list-style-type: none"> GCN confirmed present - no size class determined Survey complete, GCN assumed absent Survey incomplete, no GCN found Scoped in - Habitat Suitability Index (HSI)/walkover only Scoped in - no access permission Scoped out - no survey required 	<ul style="list-style-type: none"> 50m radius from all water bodies where presence of GCN is confirmed 250m radius from all water bodies where presence of GCN is confirmed 500m radius from all water bodies where presence of GCN is confirmed Areas isolated by significant barriers to amphibian movement
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Note: GCN = Great Crested Newts

Map Number: EC-04-512b

Map Name: Amphibians

Community Area MA04: Broomedge to Glazebrook

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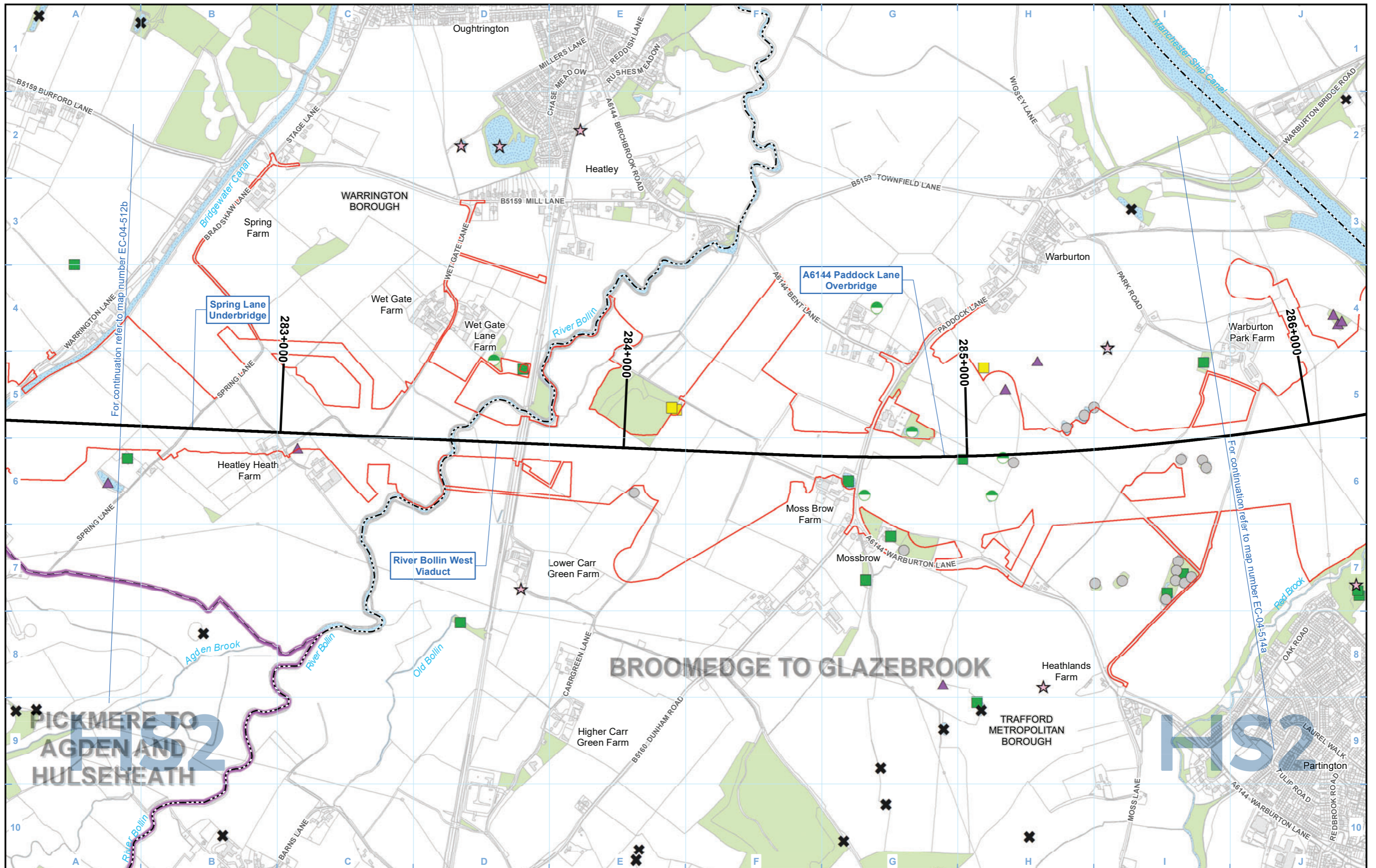
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Date: 08/08/21

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0 100 200 300 400 Metres



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive
 - eDNA survey complete - GCN assumed absent
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required

Note: GCN = Great Crested Newts

Map Number	EC-04-513
Map Name	Amphibians
Community Area MA04: Broomedge to Glazebrook	

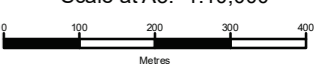


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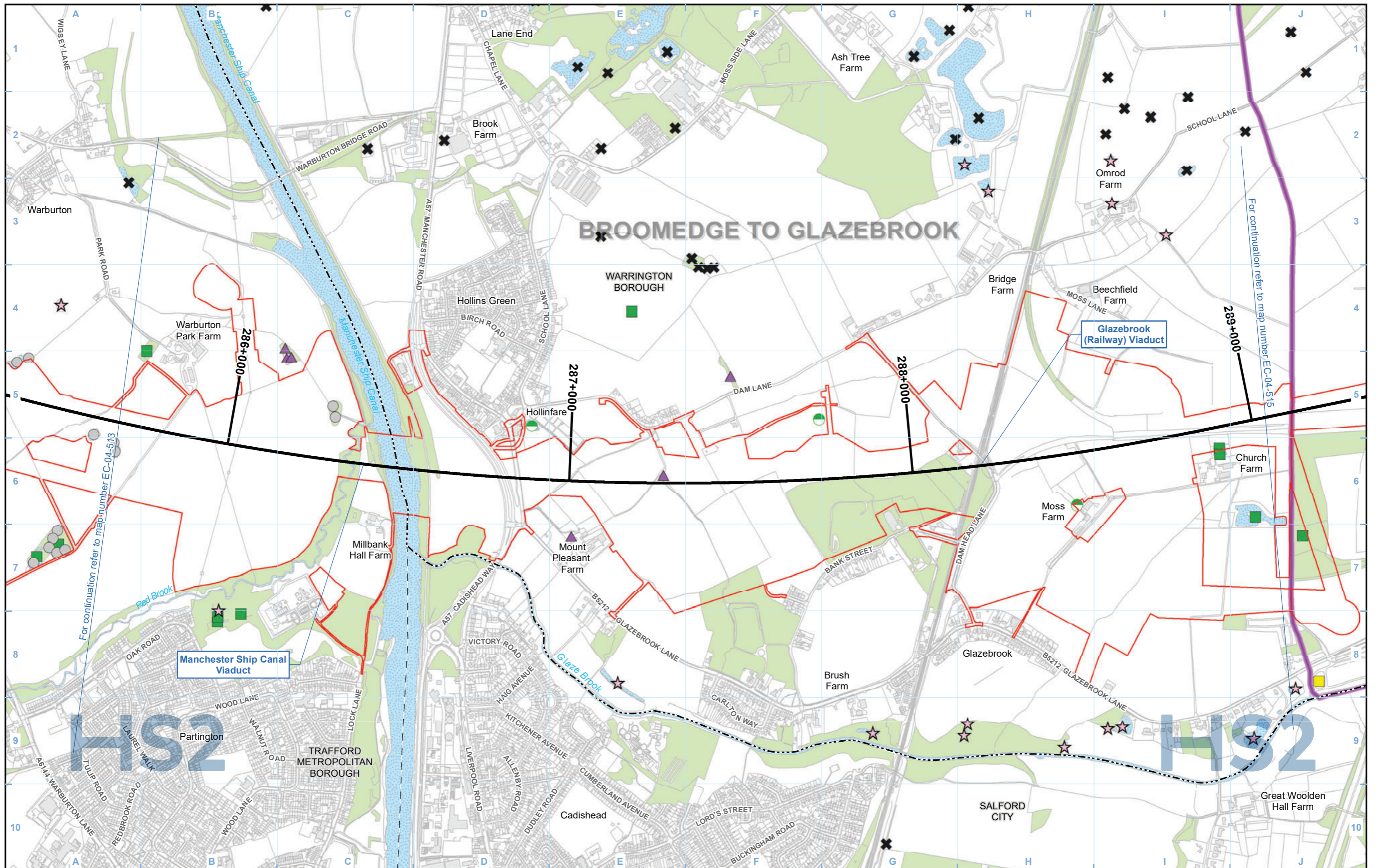


Metres



Date: 08/08/21

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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - GCN assumed absent
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - eDNA survey complete - result inconclusive

Note: GCN = Great Crested Newts

Map Number	EC-04-514a
Map Name	Amphibians
Community Area MA04: Broomedge to Glazebrook	

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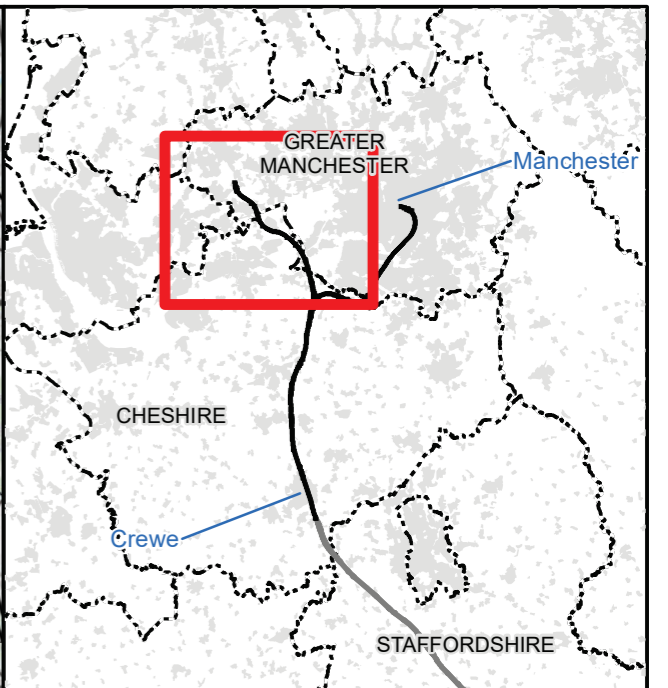
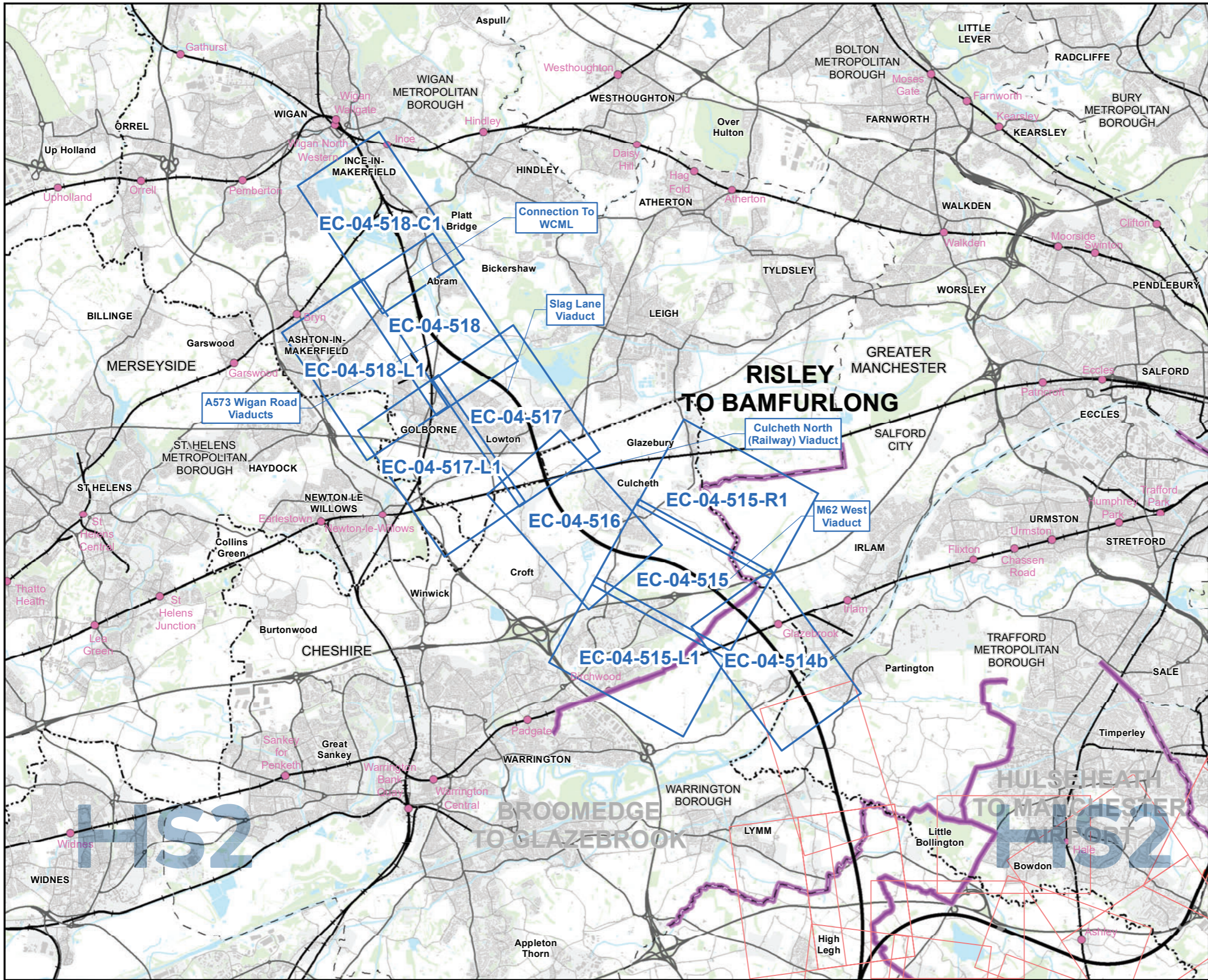
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Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets not included in this community area

Map Number	EC-04-INDEX-MA05
Map Name	Index Map of: Amphibians
Community Area MA05:	Risley to Bamfurlong

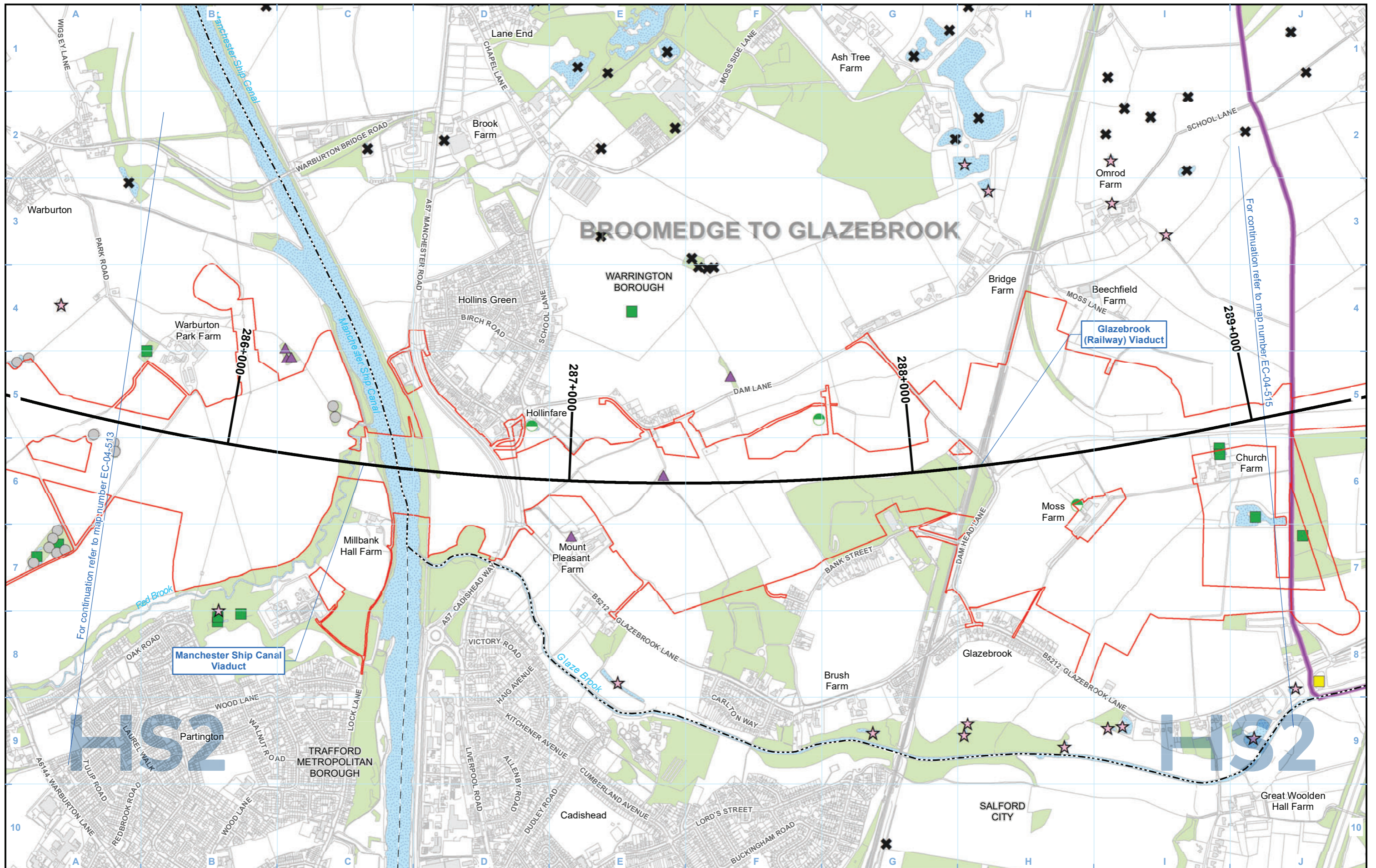
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - GCN assumed absent
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - eDNA survey complete - result inconclusive

Note: GCN = Great Crested Newts

Map Number
EC-04-514b

Map Name
Amphibians

Community Area MA05:
Risley to Bamfurlong

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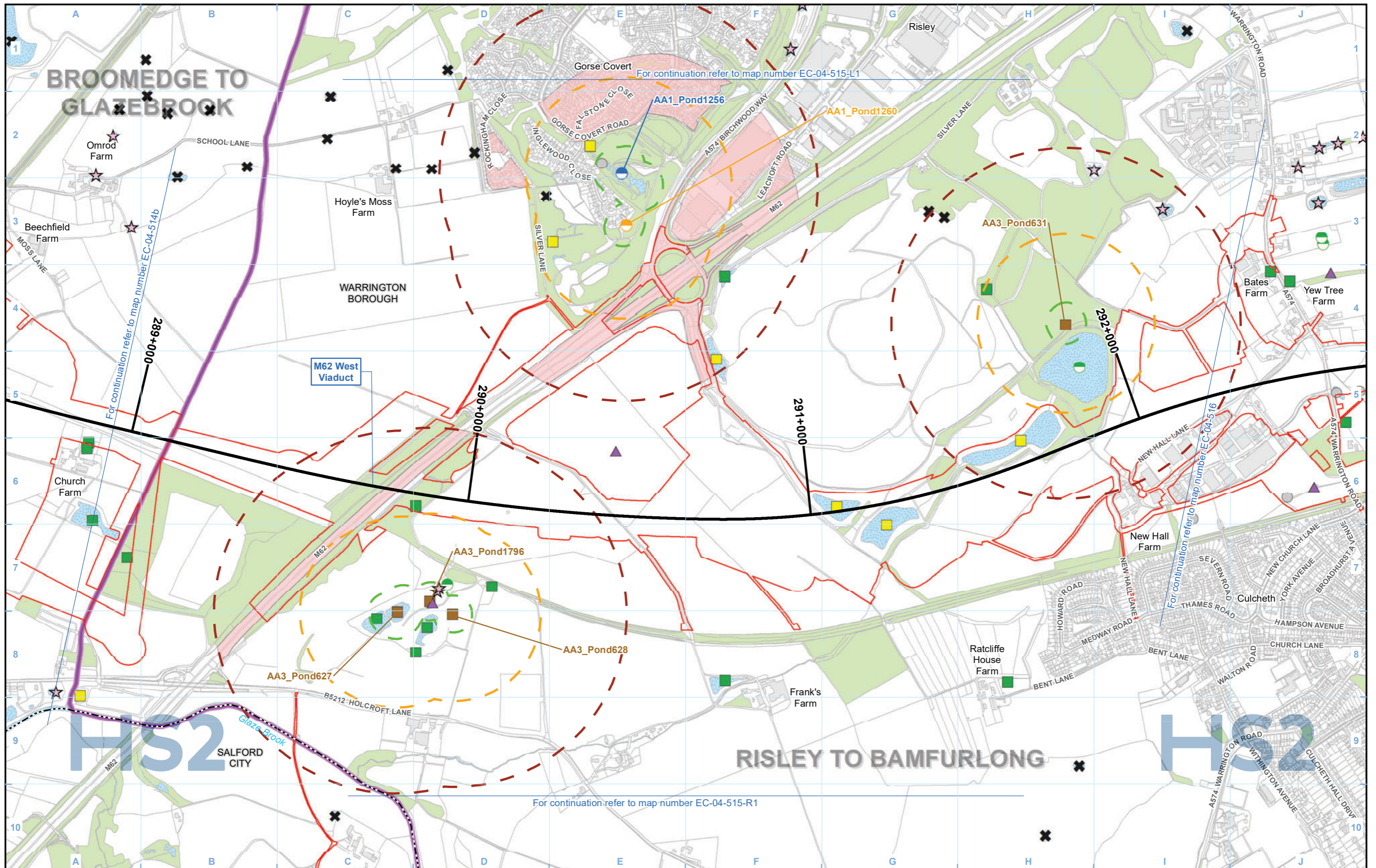
Date: 08/08/21

Scale at A3: 1:10,000

0 100 200 300 400
Metres

For continuation refer to map number EC-04-515

For continuation refer to map number EC-04-513



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive
 - eDNA survey complete - GCN present
 - eDNA survey complete - GCN assumed absent
 - GCN present (less than 6 visits) - medium population (11 - 99 adults)
 - GCN confirmed present - no size class determined
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-514b

289+000

290+000

291+000

292+000

For continuation refer to map number EC-04-516

For continuation refer to map number EC-04-515-R1

WARRINGTON BOROUGH

SALFORD CITY

RISLEY TO BAMFURLONG

Map Number EC-04-515

Map Name Amphibians

Community Area MA05: Risley to Bamfurlong

HS2

Scale at A3: 1:10,000

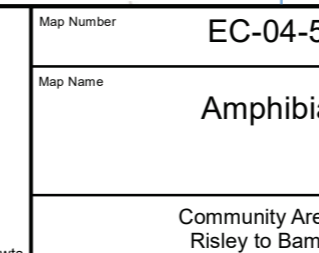
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Note: GCN = Great Crested Newts



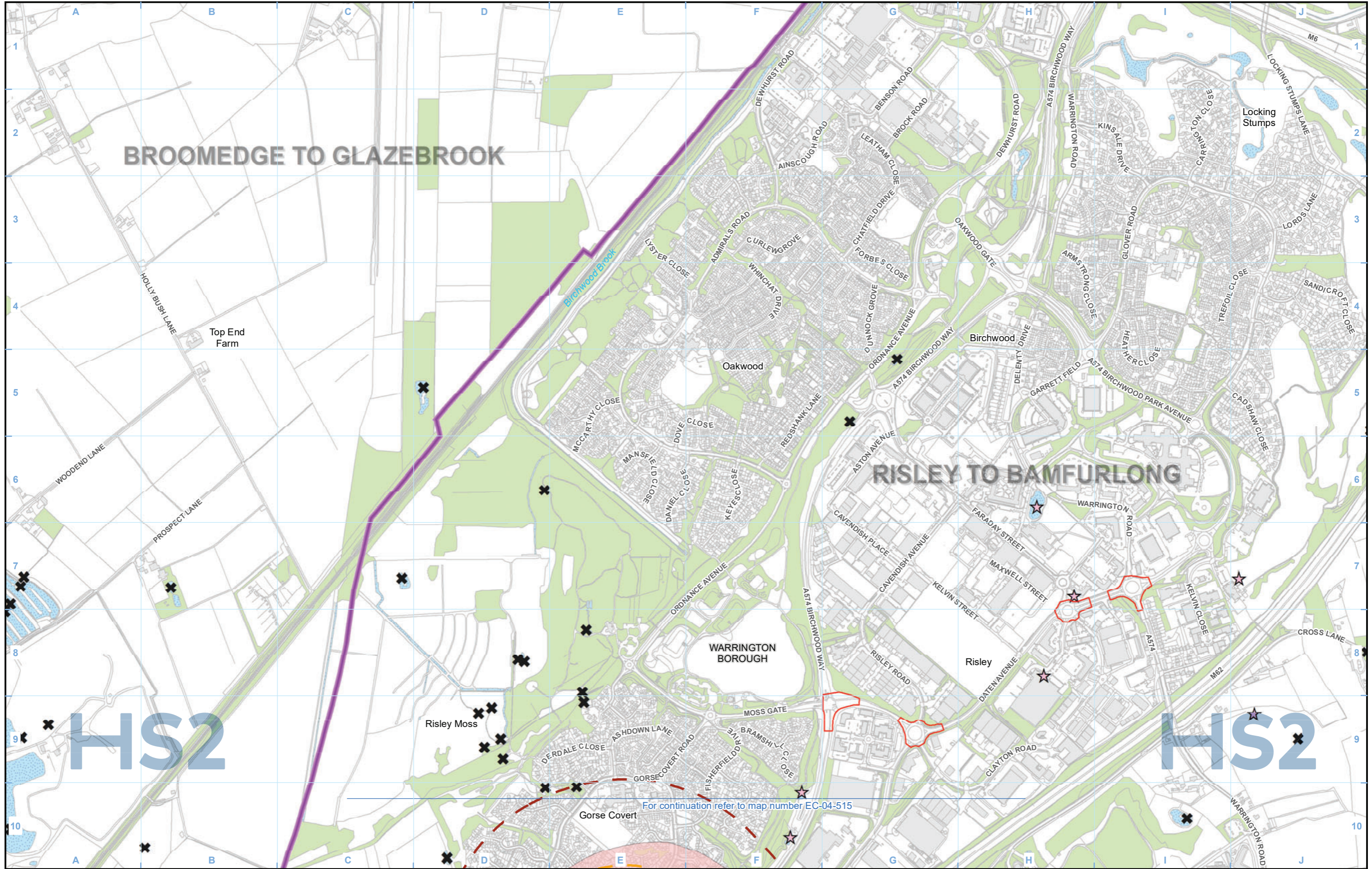
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0 100 200 300 400 Metres

BROOMEDGE TO GLAZEBROOK

RISLEY TO BAMFURLONG



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-515

Map Number	EC-04-515-L1
Map Name	Amphibians
Community Area	Community Area MA05: Risley to Bamfurlong

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Note: GCN = Great Crested Newts

For continuation refer to map number EC-04-515

SALFORD CITY

Holcroft Hall Farm

WARRINGTON BOROUGH

Fowley Common

BROOMEDGE TO GLAZEBROOK

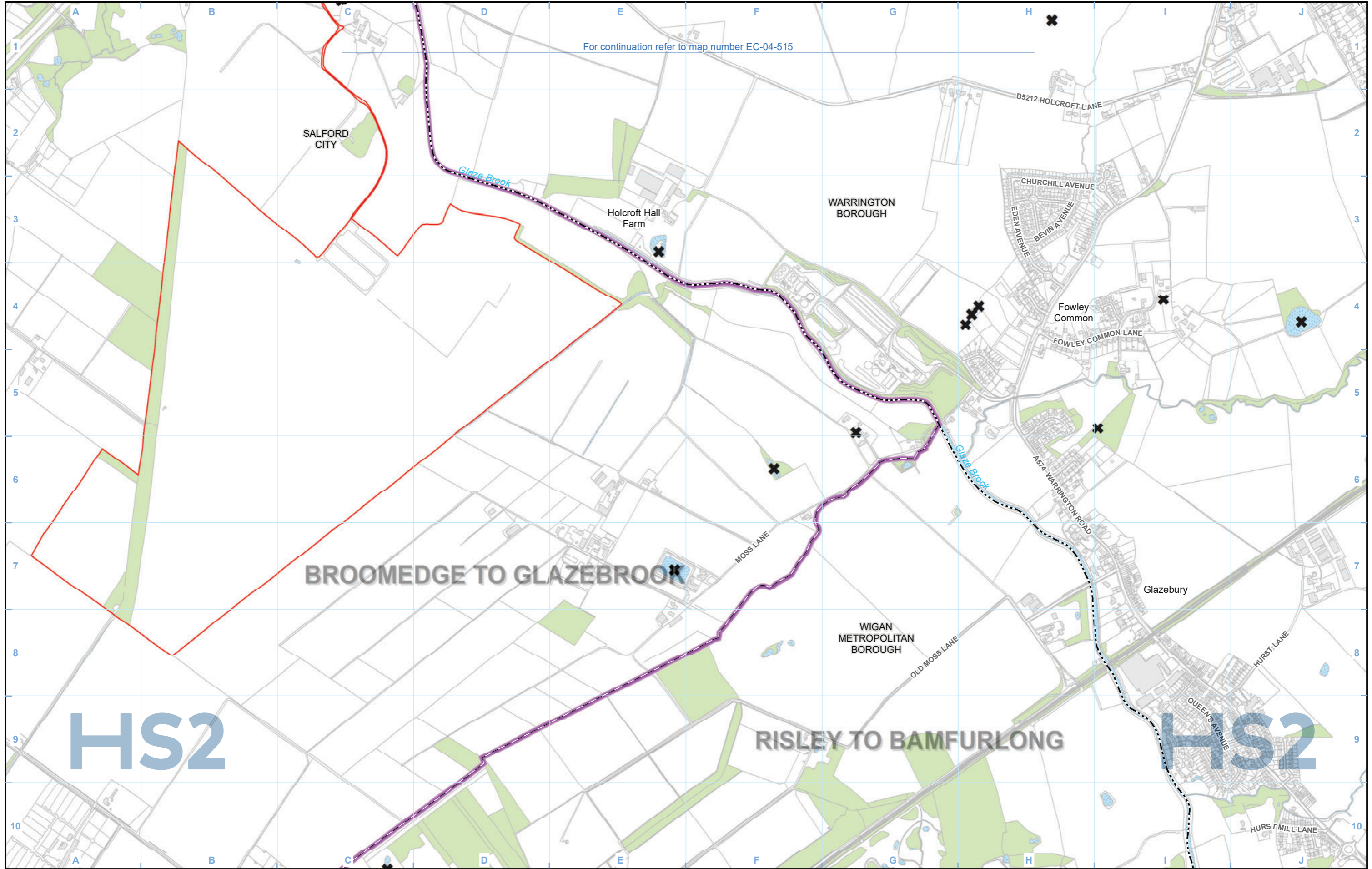
WIGAN METROPOLITAN BOROUGH

RISLEY TO BAMFURLONG

Glazebury

HS2

HS2



Legend

	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	Scaped out - no survey required

Map Number	EC-04-515-R1
Map Name	Amphibians
	Community Area MA05: Risley to Bamfurlong

HS2

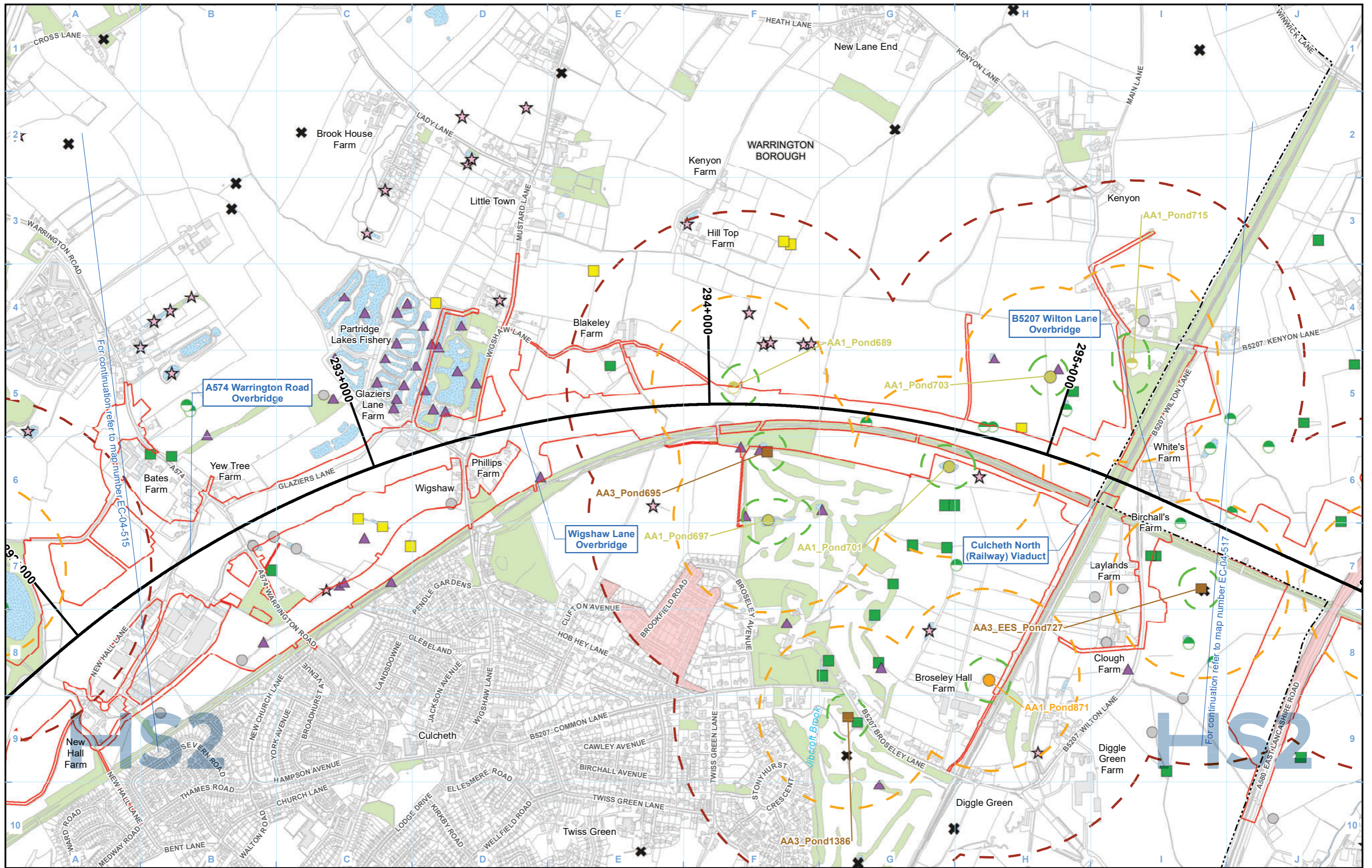
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Note: GCN = Great Crested Newts



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive
 - eDNA survey complete - GCN present
 - eDNA survey complete - GCN assumed absent
 - GCN present (6 visits) - medium population (11 - 99 adults)
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - GCN present (6 visits) - small population (1 - 10 adults)
 - GCN present (less than 6 visits) - small population (1 - 10 adults)
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-515

For continuation refer to map number EC-04-517

Map Number
EC-04-516

Map Name
Amphibians

Community Area MA05:
Risley to Bamfurlong

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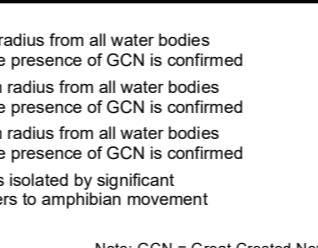
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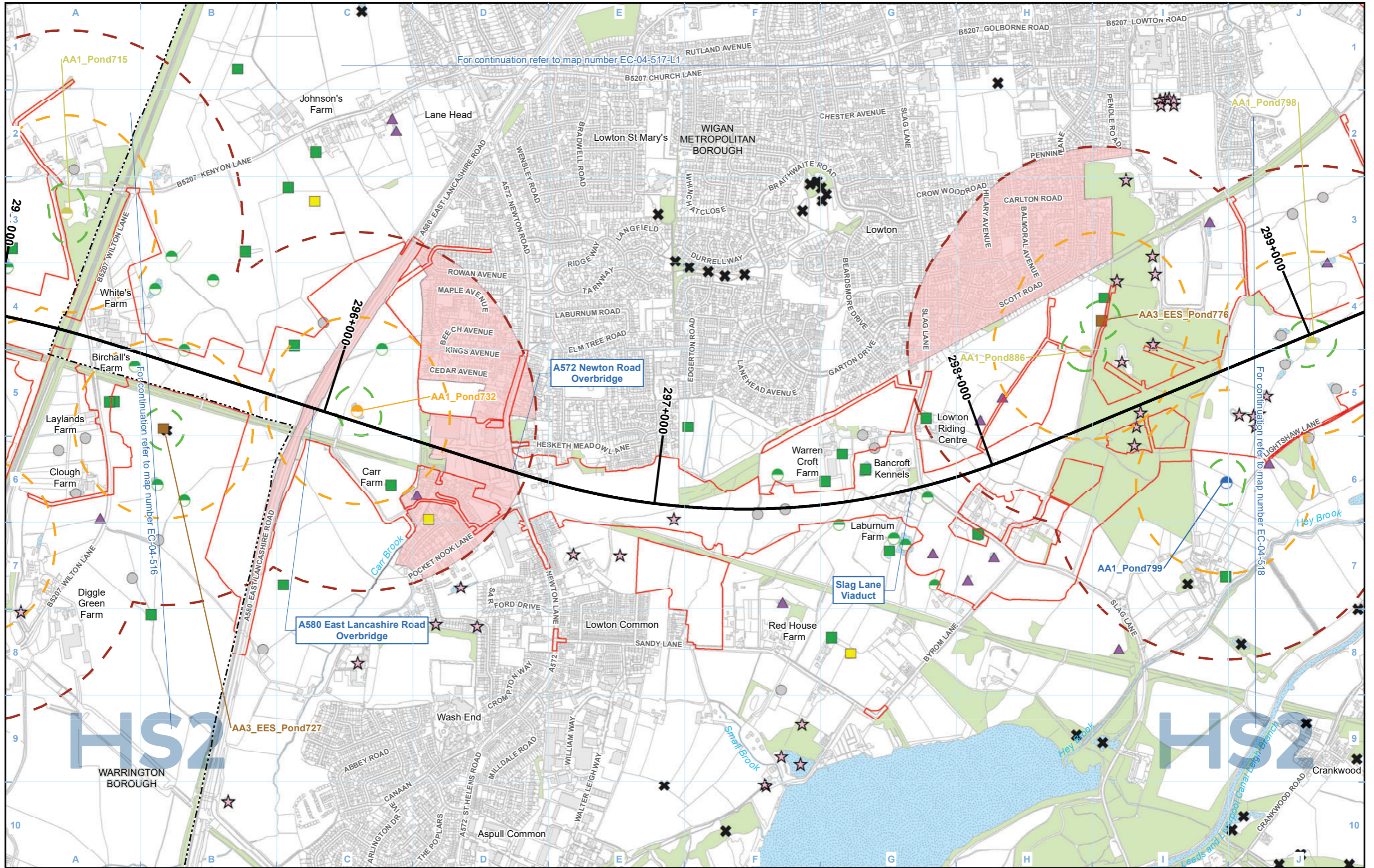
Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 08/08/21

Note: GCN = Great Crested Newts





For continuation refer to map number EC-04-517-L1

For continuation refer to map number EC-04-518

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive

- eDNA survey complete - GCN present
- eDNA survey complete - GCN assumed absent
- GCN present (less than 6 visits) - medium population (11 - 99 adults)
- GCN present (less than 6 visits) - small population (1 - 10 adults)

- GCN confirmed present - no size class determined
- Survey complete, GCN assumed absent
- Survey incomplete, no GCN found
- Scoped in - Habitat Suitability Index (HSI)/walkover only

- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number: EC-04-517

Map Name: Amphibians

Community Area MA05: Risley to Bamfurlong

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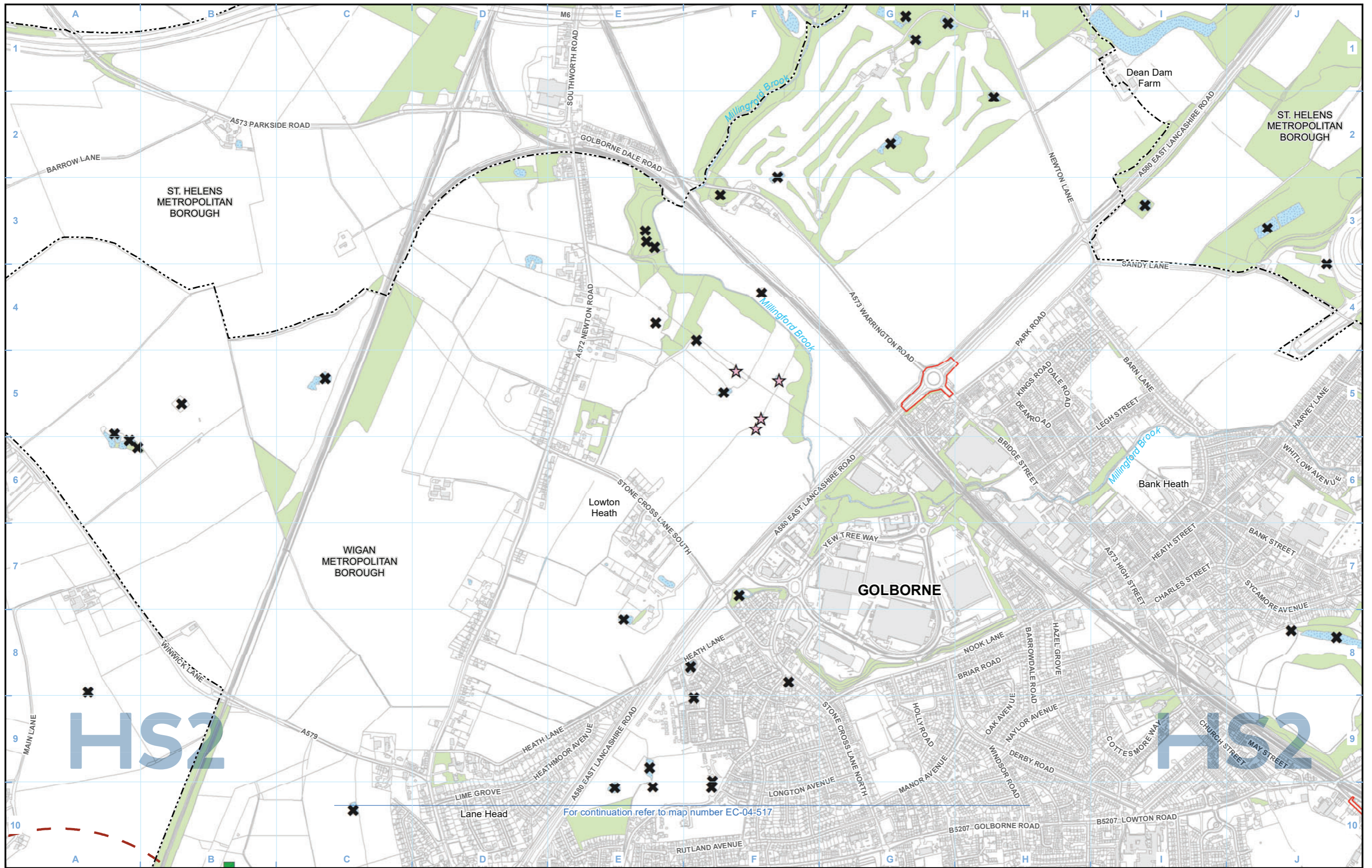
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Date: 08/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres



For continuation refer to map number EC-04-517

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- eDNA survey complete - GCN assumed absent
- Scoped in - no access permission
- Scoped out - no survey required
- 500m radius from all water bodies where presence of GCN is confirmed

Note: GCN = Great Crested Newts

Map Number: EC-04-517-L1

Map Name: Amphibians

Community Area MA05: Risley to Bamfurlong

HS2

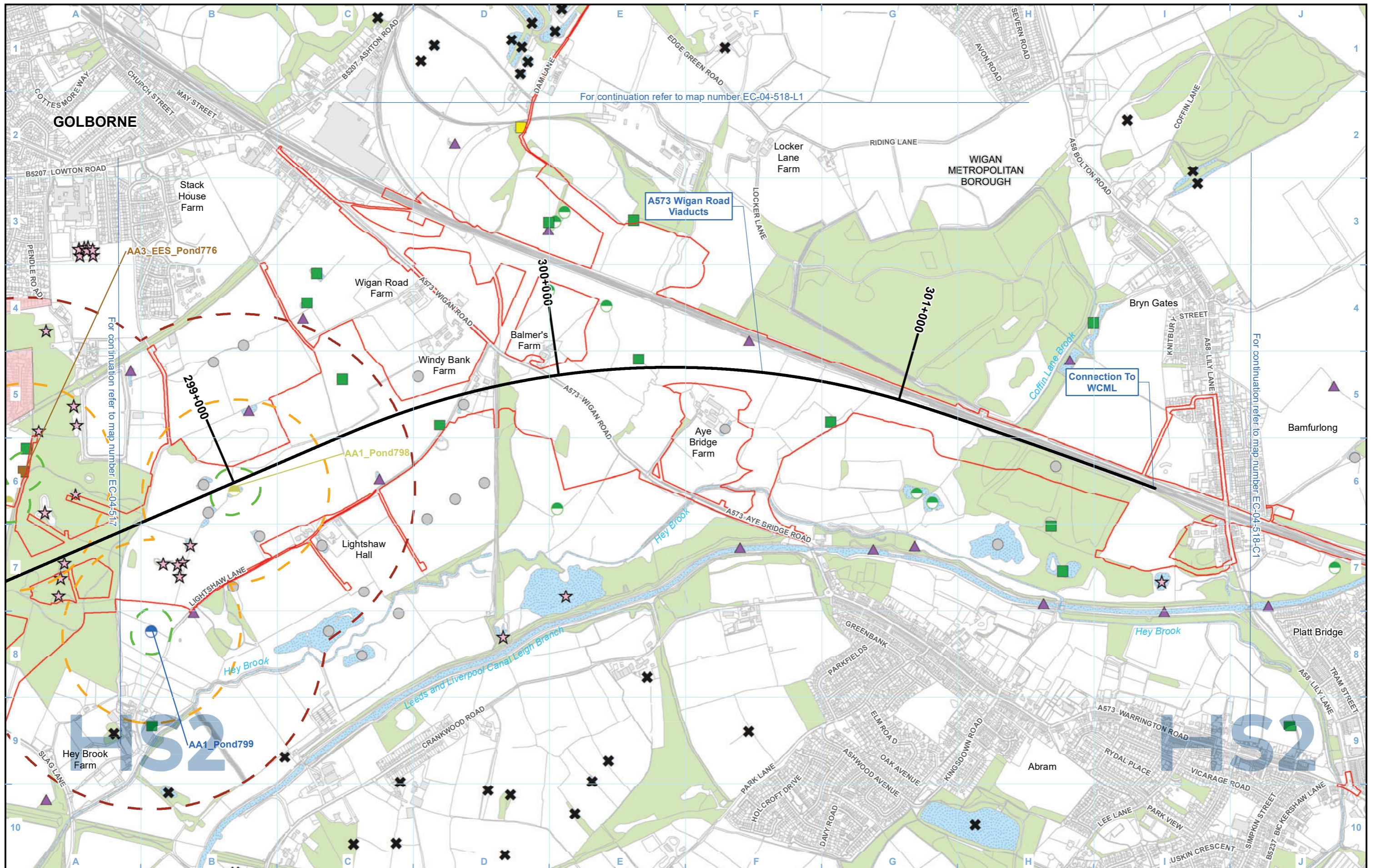
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Date: 08/08/21



For continuation refer to map number EC-04-518-L1

For continuation refer to map number EC-04-517

For continuation refer to map number EC-04-518-C1

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive
 - eDNA survey complete - GCN present
 - eDNA survey complete - GCN assumed absent
 - GCN present (less than 6 visits) - small population (1 - 10 adults)
 - GCN confirmed present - no size class determined
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

- Scoped in - Habitat Suitability Index (HSI)/walkover only
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

Map Number
EC-04-518

Map Name
Amphibians

Community Area MA05:
Risley to Bamfurlong

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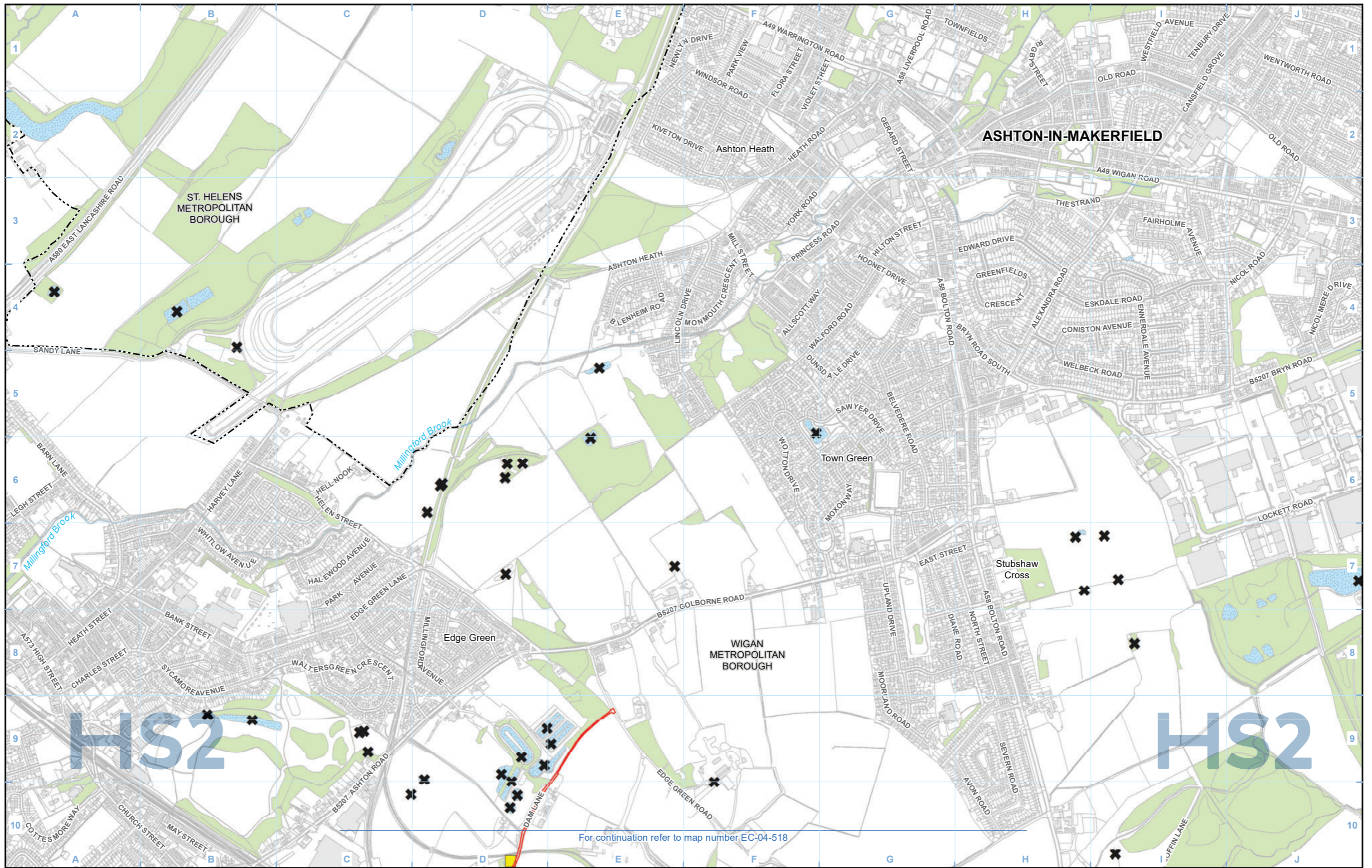
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Date: 08/08/21

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Note: GCN = Great Crested Newts



For continuation refer to map number EC-04-518

Legend					
	Route in tunnel		District/Borough boundary		Scoped out - no survey required
	Route on surface		Watercourse		Water body
	Depot, station, headhouse or portal building		Woodland (not verified by survey)		eDNA survey complete - result inconclusive
	Land potentially required during construction		Community area boundary		County boundary

Map Number	EC-04-518-L1
Map Name	Amphibians
Community Area MA05: Risley to Bamfurlong	

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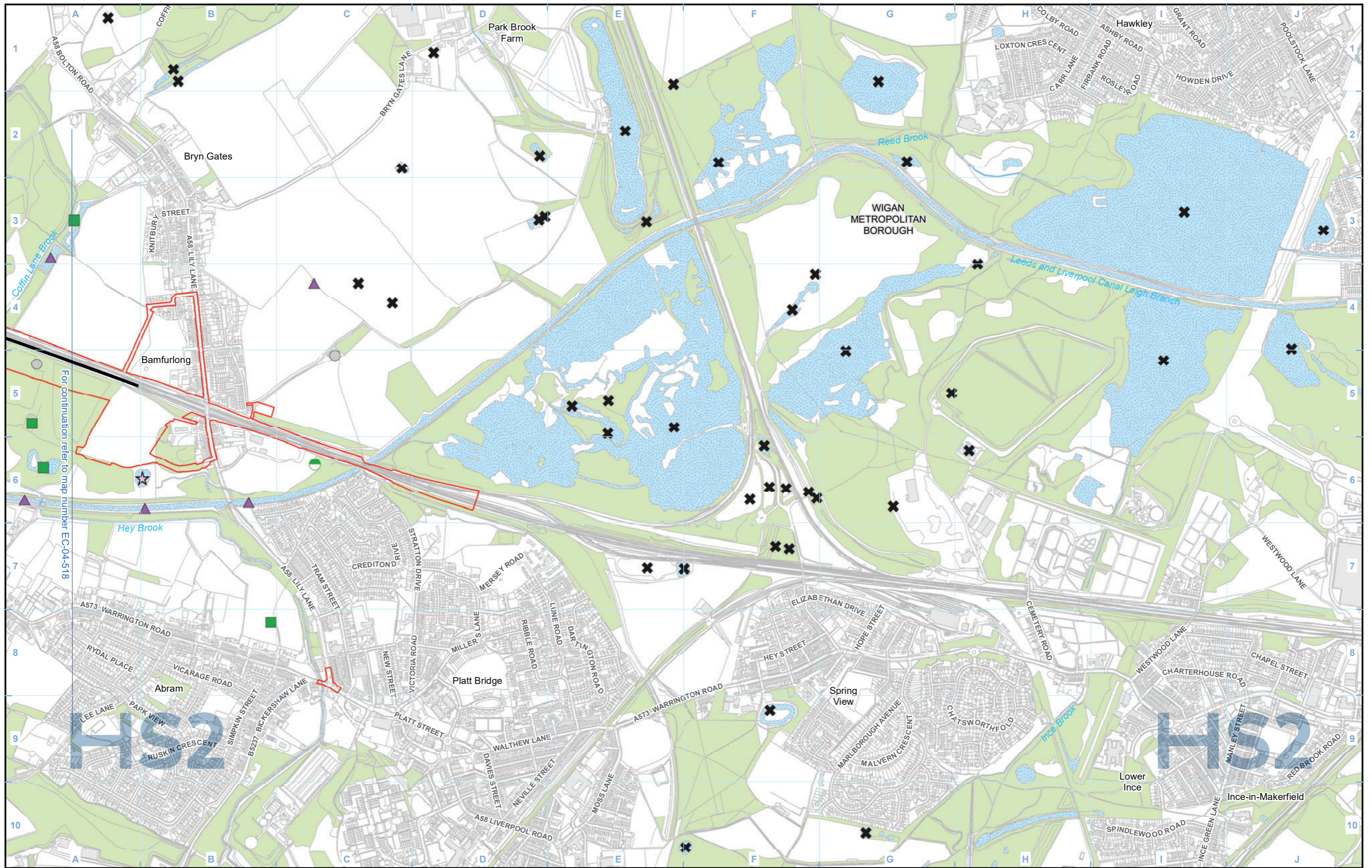
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Date: 08/08/21

Note: GCN = Great Crested Newts



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - GCN assumed absent
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required

Map Number: EC-04-518-C1

Map Name: Amphibians

Community Area MA05: Risley to Bamfurlong

Note: GCN = Great Crested Newts

Map Number: EC-04-518-C1

Map Name: Amphibians

Community Area MA05: Risley to Bamfurlong

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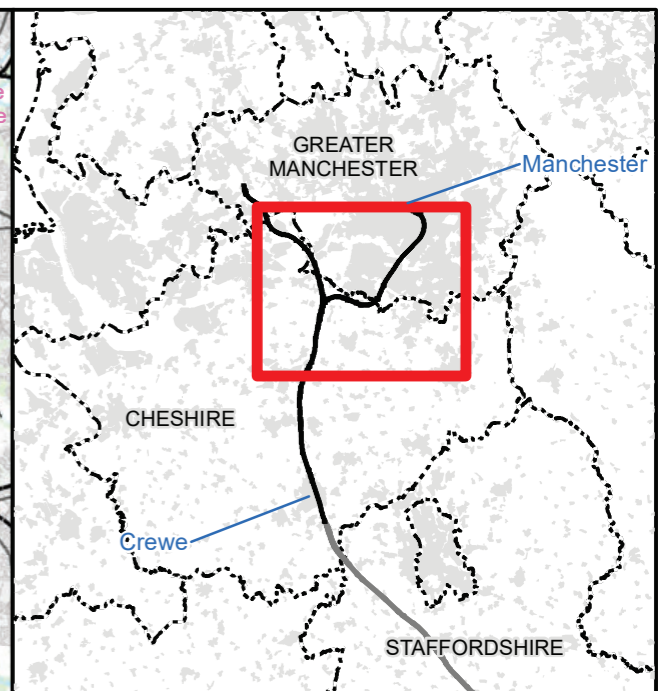
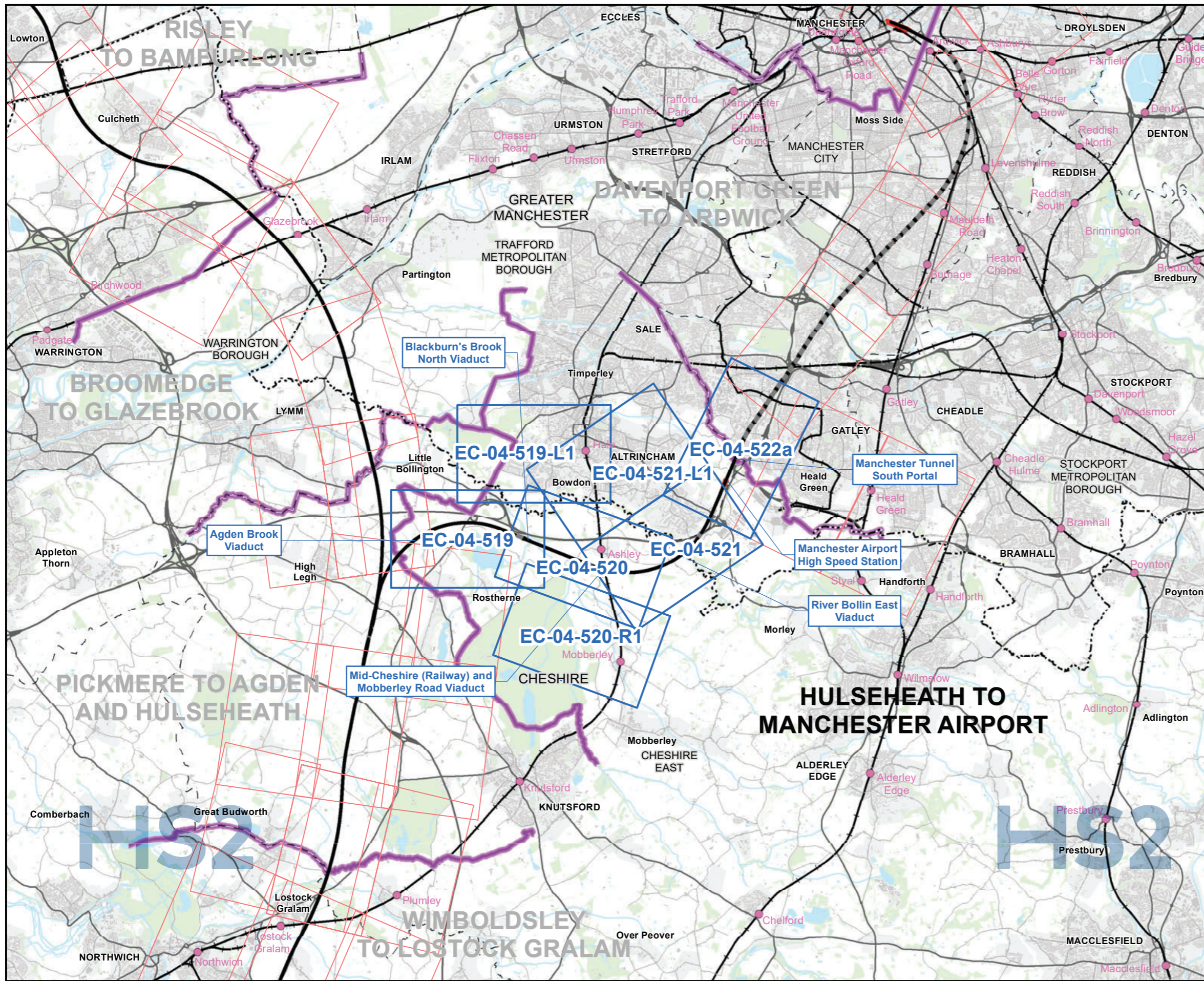
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Date: 08/08/21

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Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.

Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-04-INDEX-MA06
Map Name	Index Map of: Amphibians
Community Area MA06: Hulseheath to Manchester Airport	

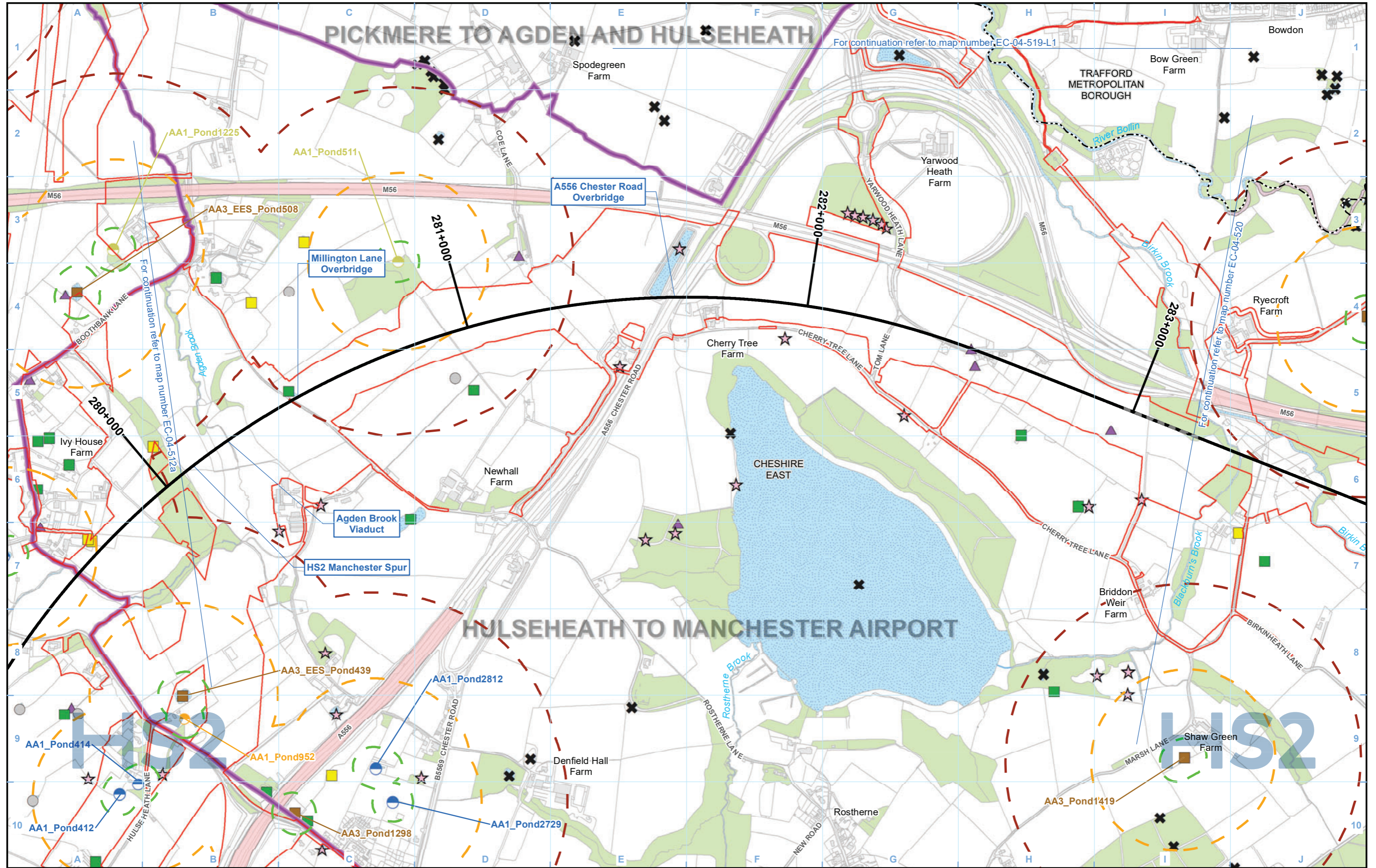
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Legend	
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	eDNA survey complete - result inconclusive
	eDNA survey complete - GCN present
	eDNA survey complete - GCN assumed absent
	GCN present (less than 6 visits) - medium population (11 - 99 adults)
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	50m radius from all water bodies where presence of GCN is confirmed
	250m radius from all water bodies where presence of GCN is confirmed
	500m radius from all water bodies where presence of GCN is confirmed
	Areas isolated by significant barriers to amphibian movement

Map Number	EC-04-519
Map Name	Amphibians
Community Area MA06: Hulseheath to Manchester Airport	

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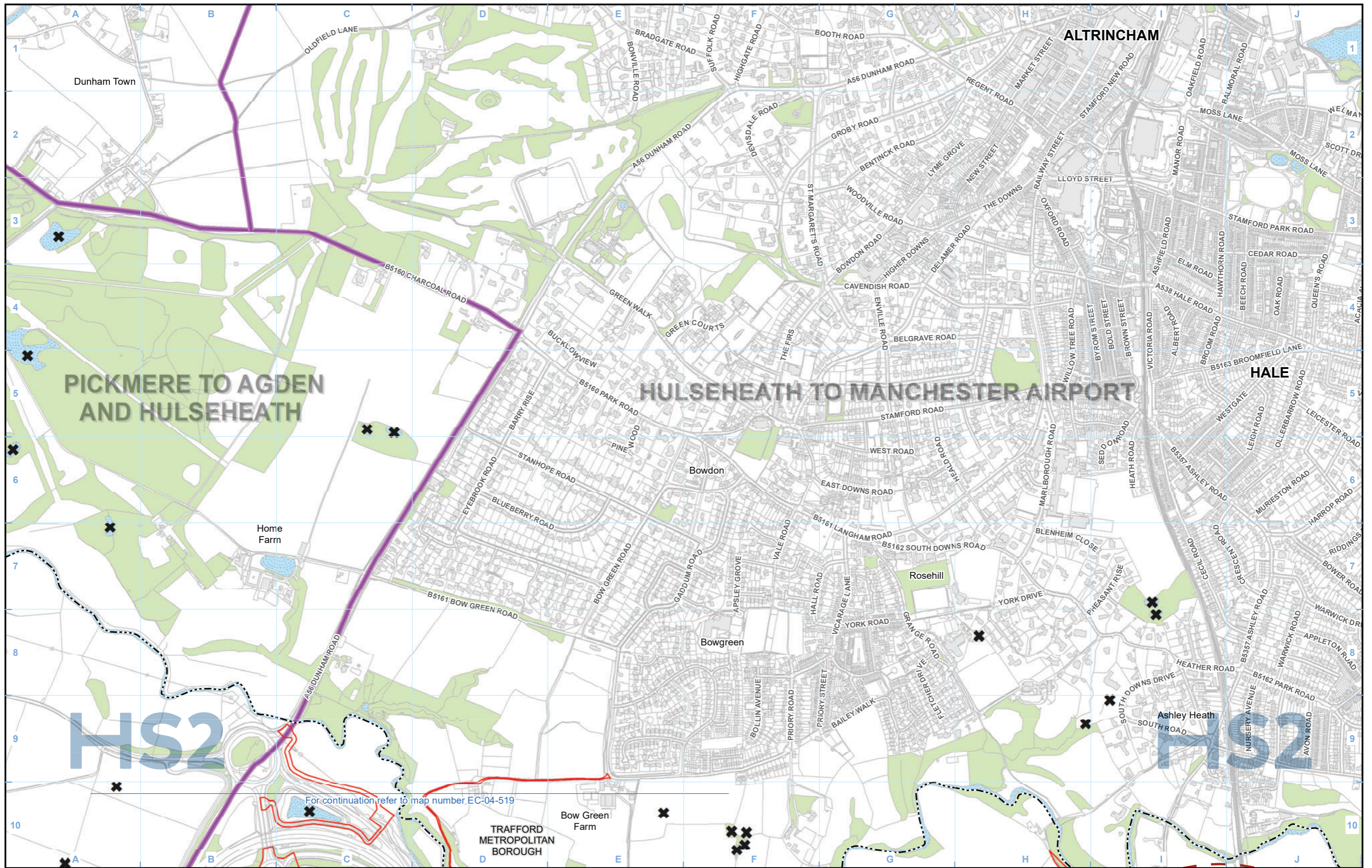
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Date: 08/08/21

Note: GCN = Great Crested Newts



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Scoped out - no survey required
- 500m radius from all water bodies where presence of GCN is confirmed

For continuation refer to map number EC-04-519

TRAFFORD METROPOLITAN BOROUGH

Bow Green Farm

Note: GCN = Great Crested Newts

Map Number EC-04-519-L1

Map Name Amphibians

Community Area MA06:
Hulseheath to Manchester Airport

HS2

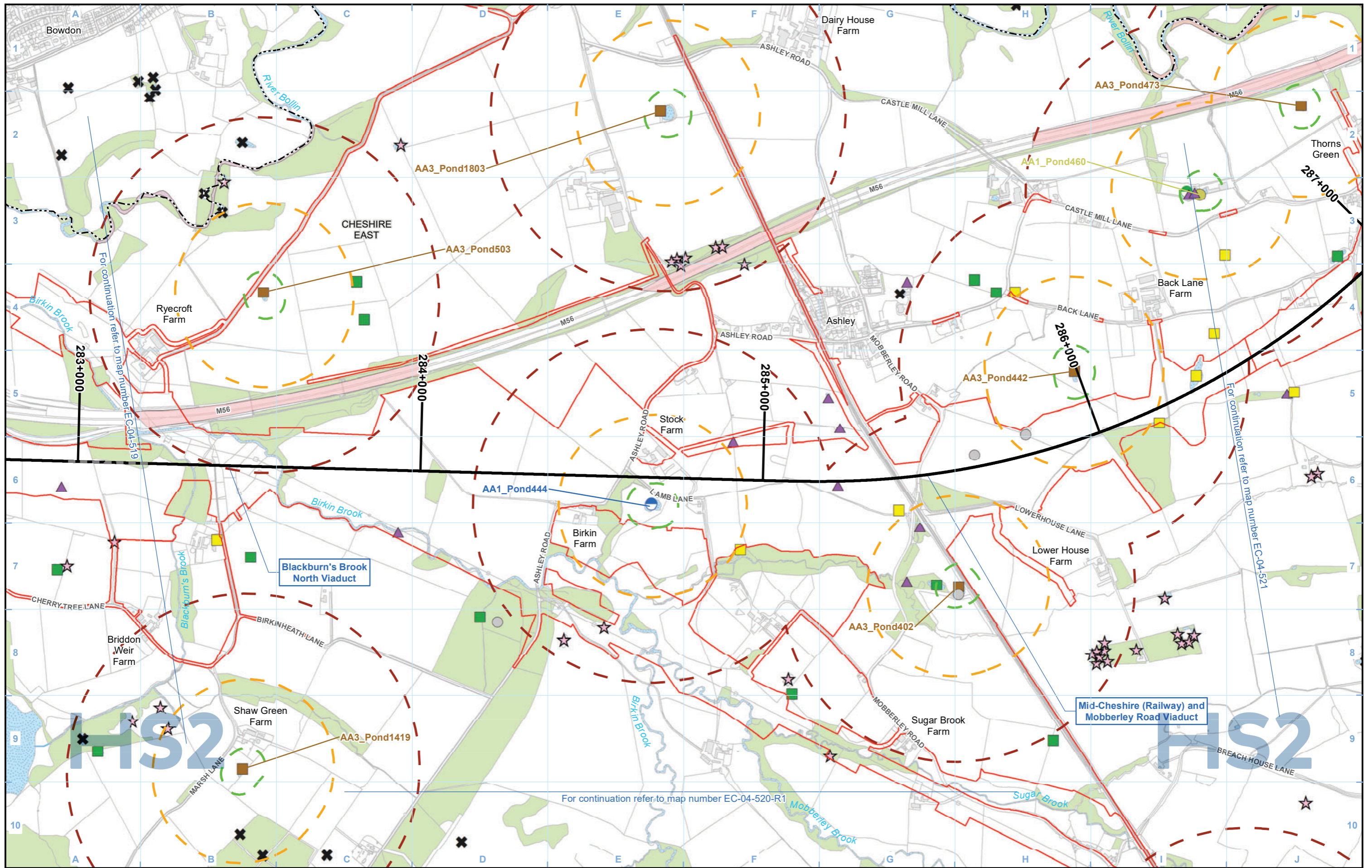
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive
 - eDNA survey complete - GCN present
 - eDNA survey complete - GCN assumed absent
 - GCN present (6 visits) - small population (1 - 10 adults)
 - GCN confirmed present - no size class determined
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-519

For continuation refer to map number EC-04-521

For continuation refer to map number EC-04-520-R1

Map Number: EC-04-520

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

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Date: 08/08/21

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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Scale at A3: 1:10,000

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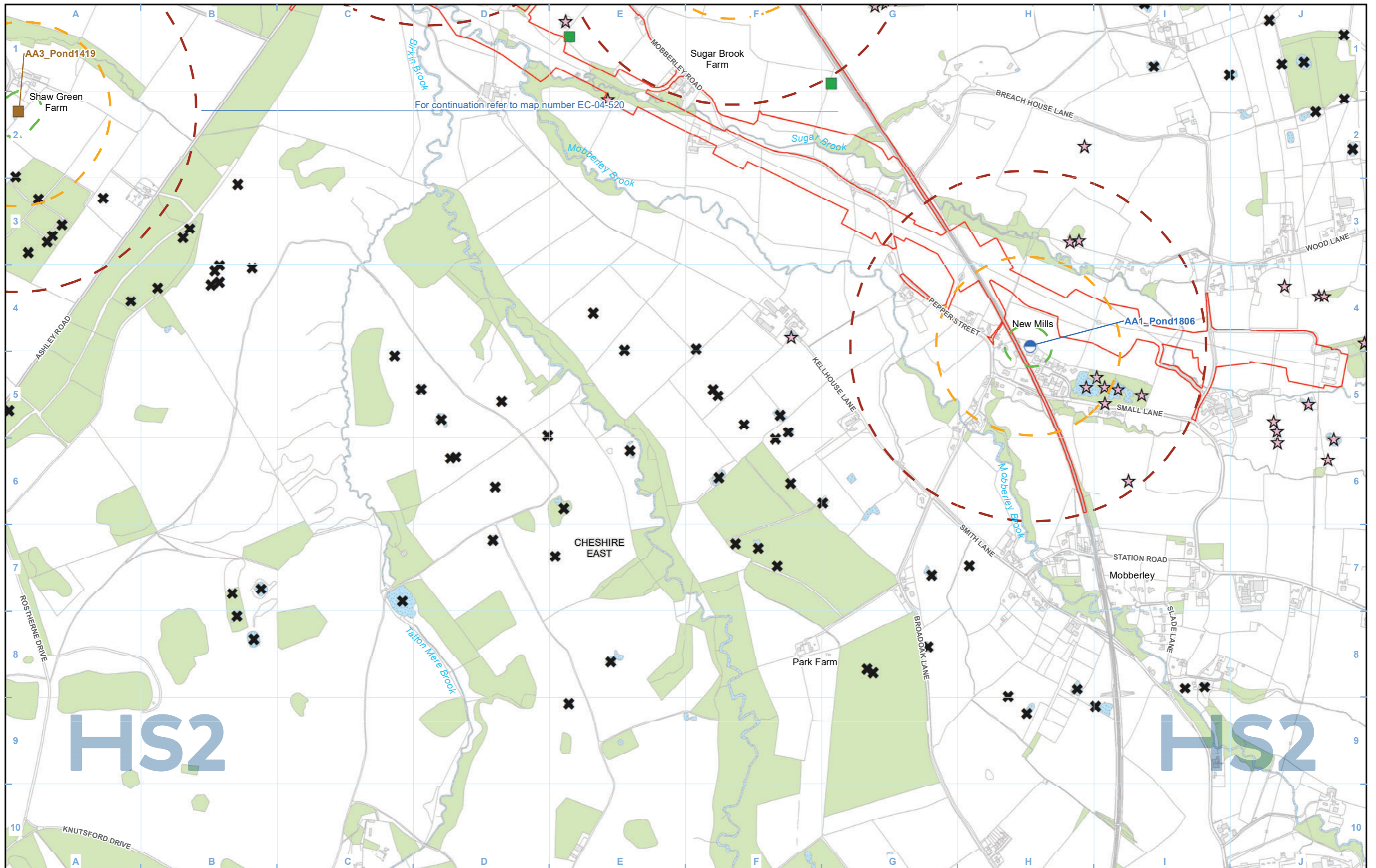
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0 100 200 300 400 Metres

Scale at A3: 1:10,000

0 100 200 300 400 Metres

Note: GCN = Great Crested Newts



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- eDNA survey complete - GCN present

- eDNA survey complete - GCN assumed absent
- GCN confirmed present - no size class determined
- Scoped in - no access permission
- Scoped out - no survey required

- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed

Note: GCN = Great Crested Newts

Map Number: EC-04-520-R1
 Map Name: Amphibians
 Community Area MA06:
 Hulseheath to Manchester Airport

HS2

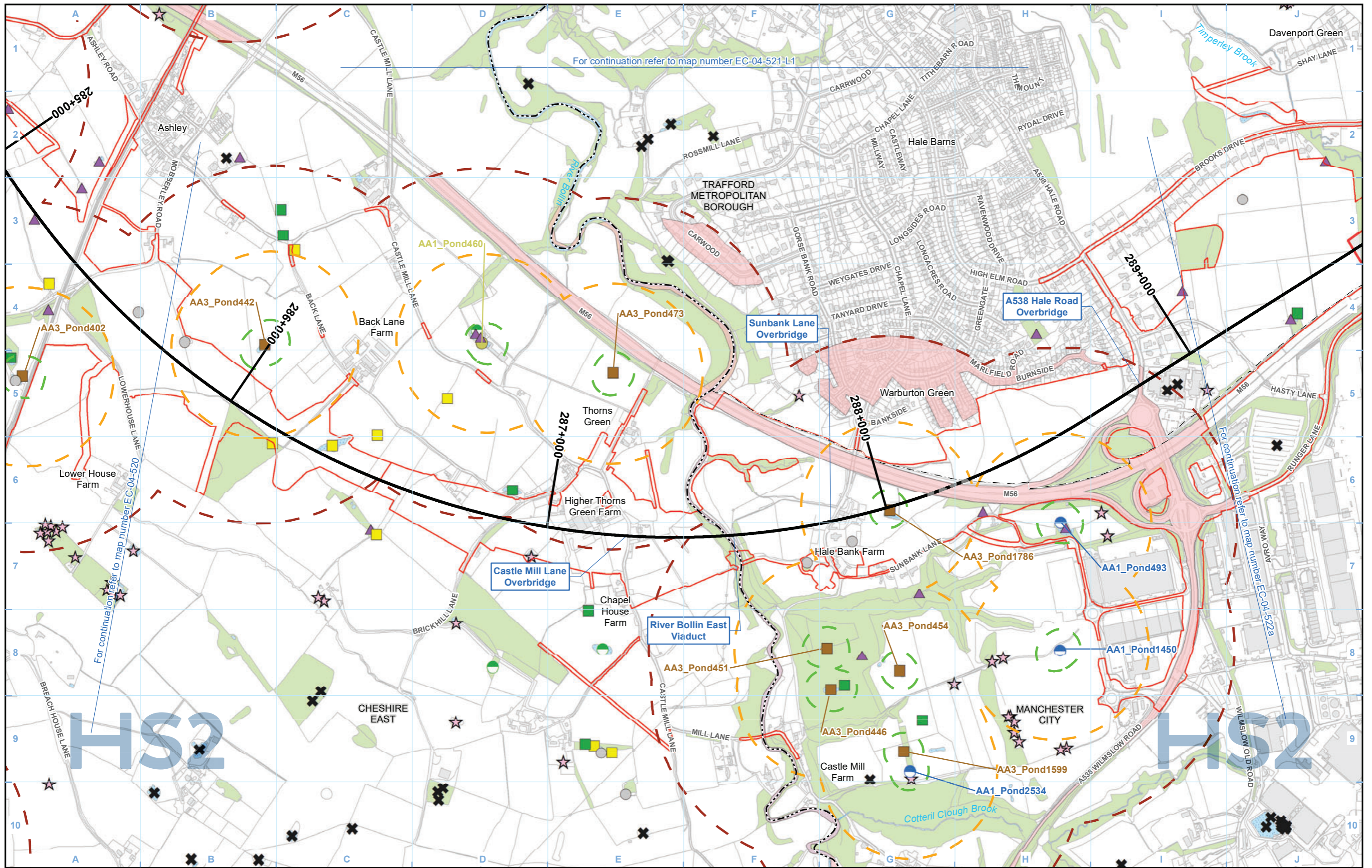
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - result inconclusive
 - eDNA survey complete - GCN present
 - eDNA survey complete - GCN assumed absent
 - GCN present (6 visits) - small population (1 - 10 adults)
 - GCN confirmed present - no size class determined
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI) walkover only
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

Map Number: EC-04-521

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

Map Number: EC-04-521

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

Map Number: EC-04-521

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

Map Number: EC-04-521

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

Map Number: EC-04-521

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

Map Number: EC-04-521

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

Map Number: EC-04-521

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

Map Number: EC-04-521

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

Map Number: EC-04-521

Map Name: Amphibians

Community Area MA06: Hulseheath to Manchester Airport

Note: GCN = Great Crested Newts

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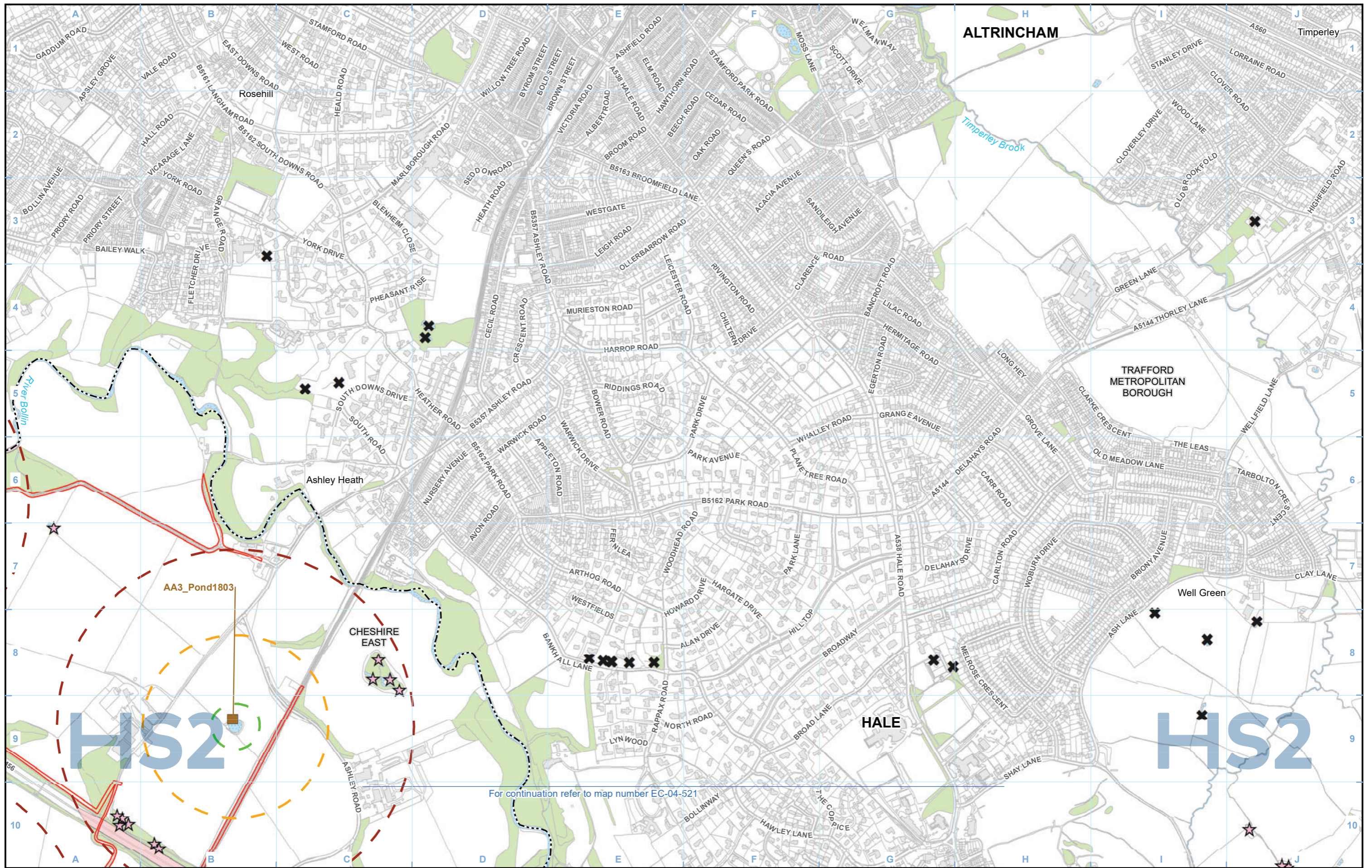
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Date: 08/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- eDNA survey complete - GCN present
- Scoped in - no access permission
- Scoped out - no survey required
- 50m radius from all water bodies where presence of GCN is confirmed
- 250m radius from all water bodies where presence of GCN is confirmed
- 500m radius from all water bodies where presence of GCN is confirmed
- Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-521

Note: GCN = Great Crested Newts

Map Number: EC-04-521-L1

Map Name: Amphibians

Community Area MA06:
Hulseheath to Manchester Airport

HS2

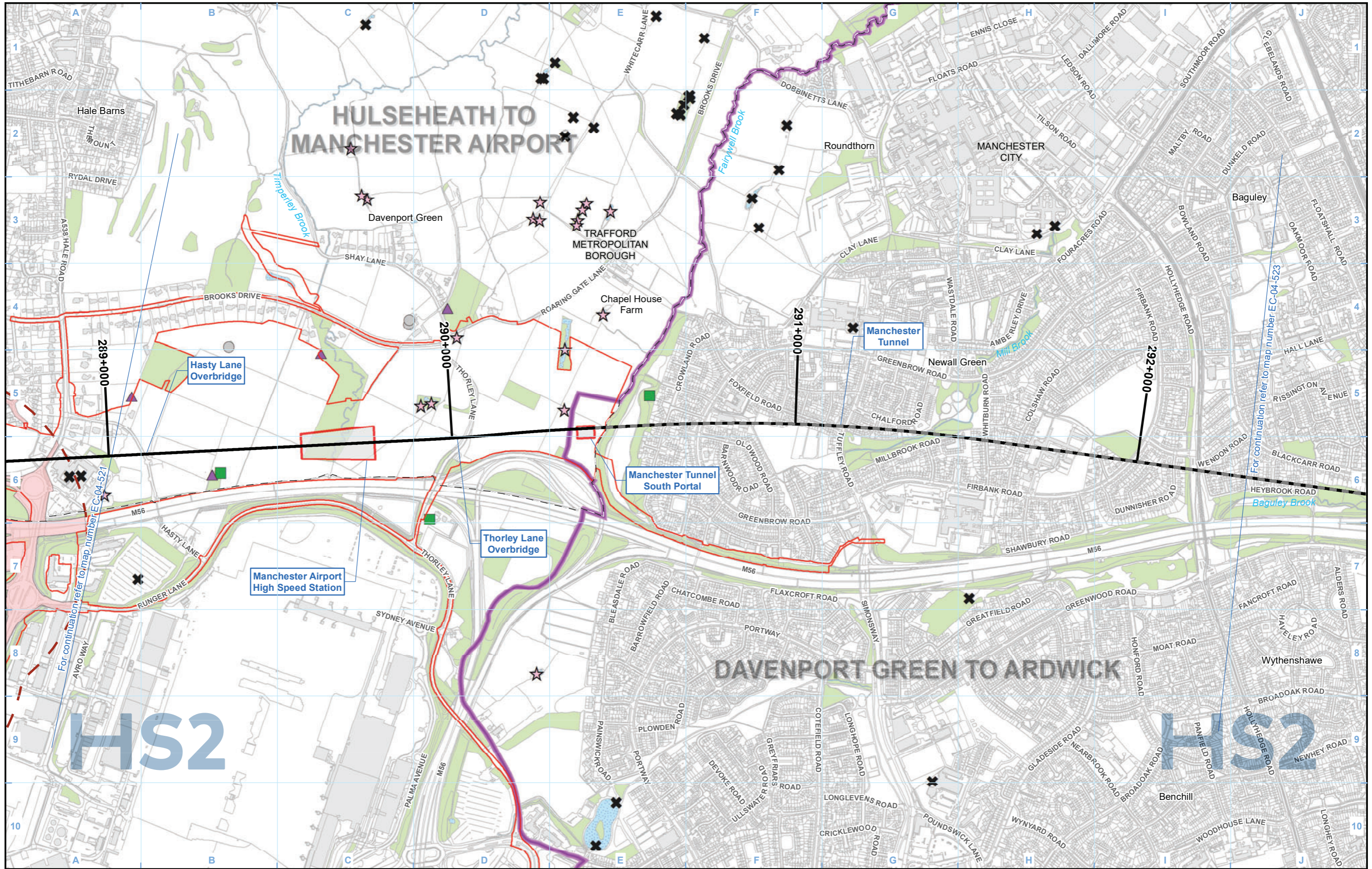
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003610-P01

Date: 08/08/21



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - ★ Scoped in - no access permission
 - ✖ Scoped out - no survey required
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number: EC-04-522a
 Map Name: Amphibians
 Community Area MA06:
 Hulseheath to Manchester Airport

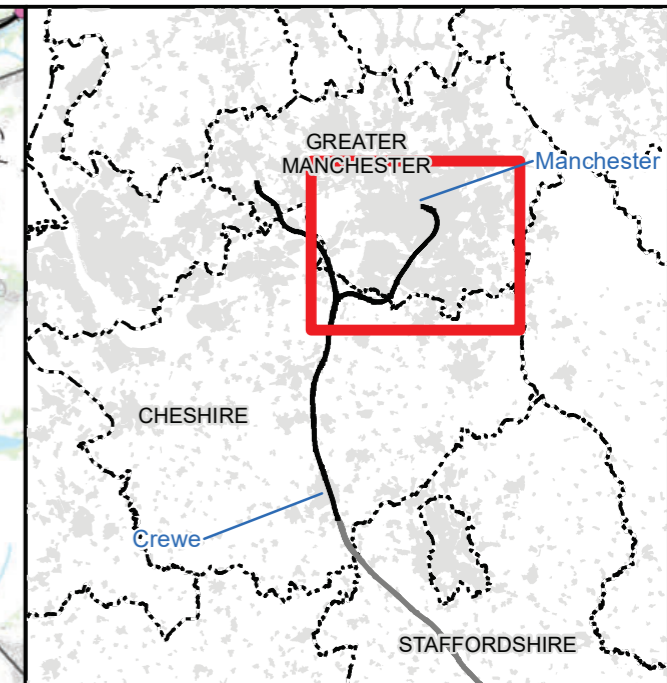
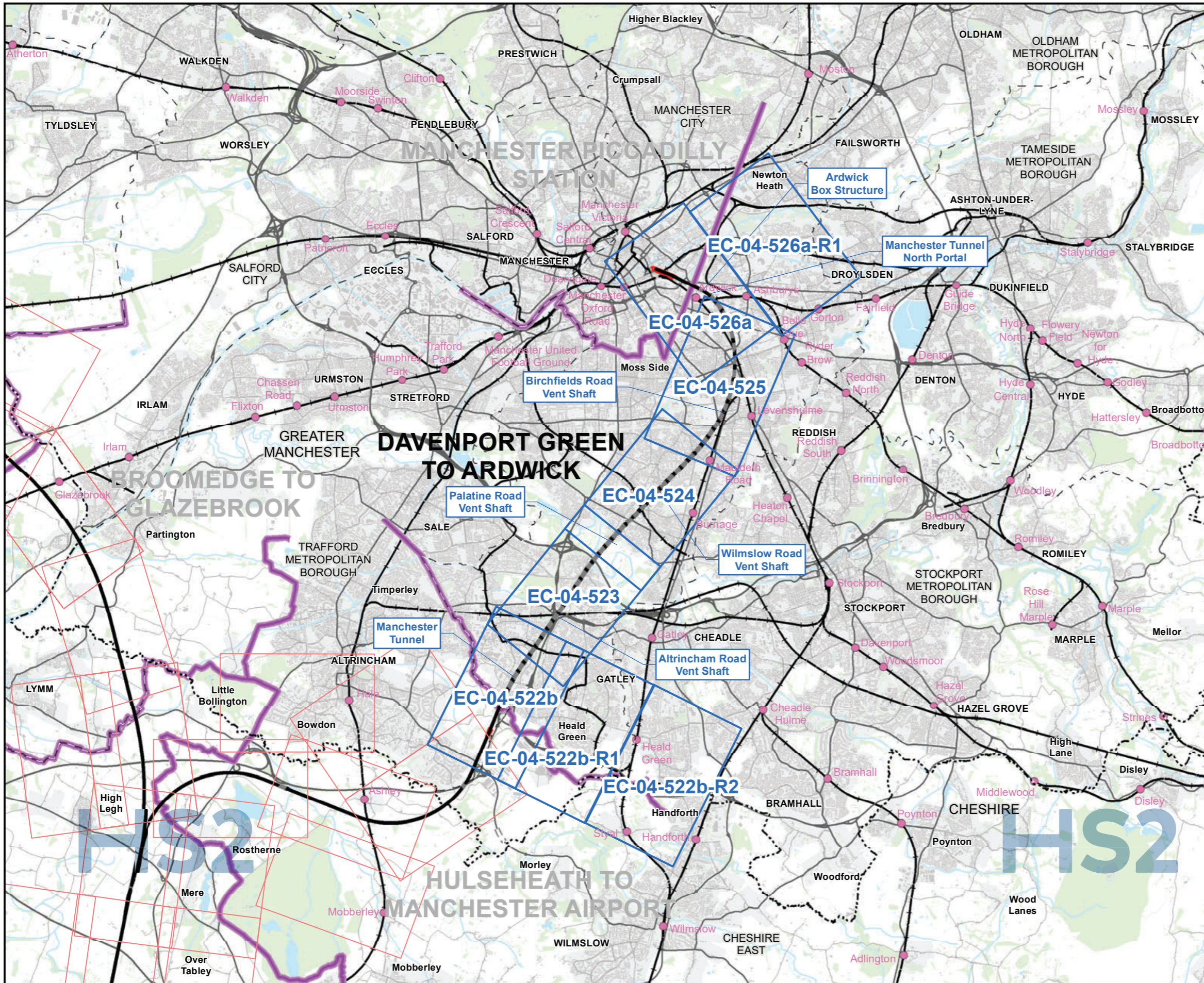
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Doc Number: 2DE01-MWJ-EV-MAP-M000-000972-P01
 Date: 08/08/21



Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets not included in this community area

Map Number	EC-04-INDEX-MA07
Map Name	Index Map of: Amphibians
	Community Area MA07: Davenport Green to Ardwick

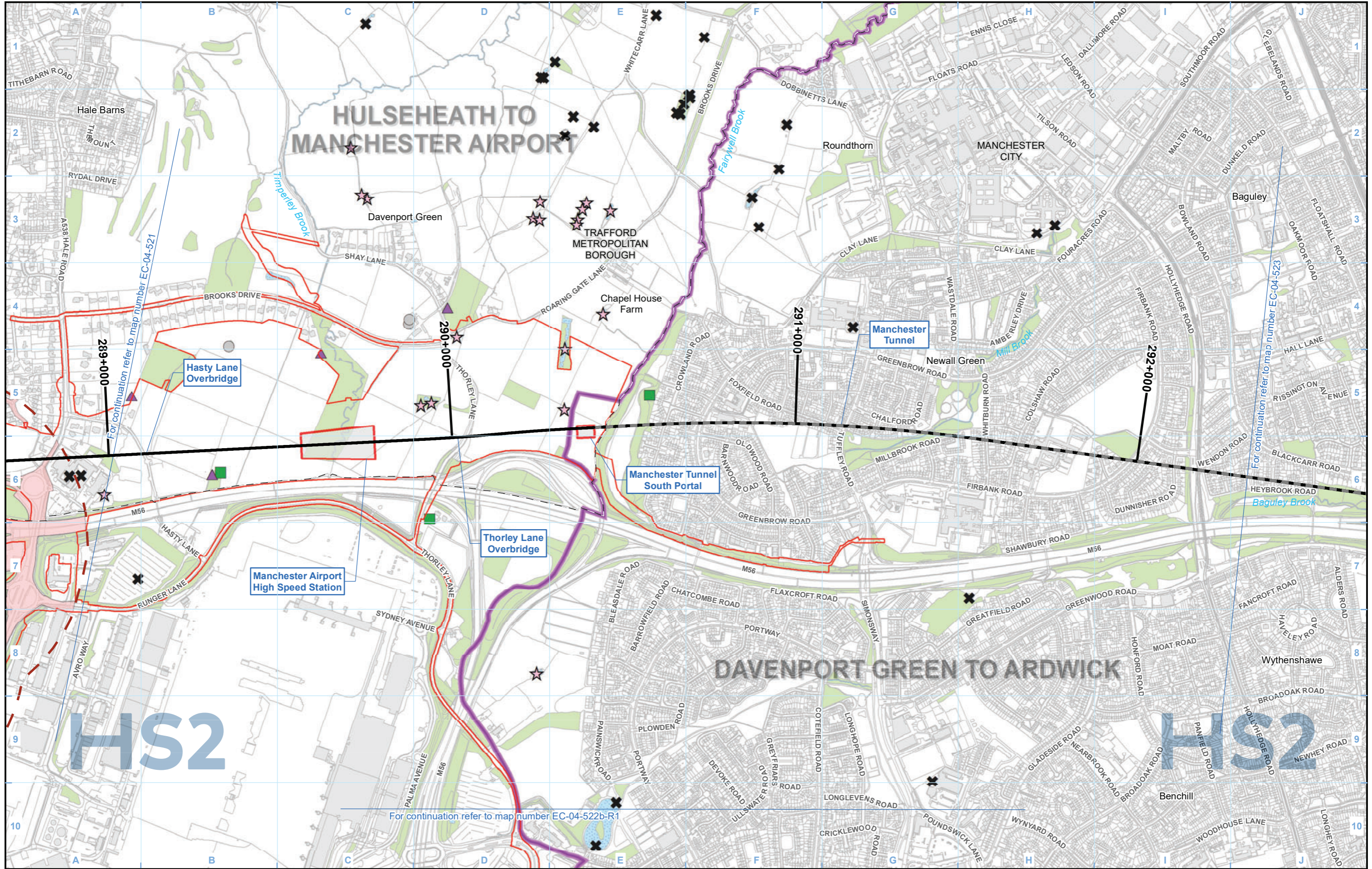
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - ★ Scoped in - no access permission
 - ✕ Scoped out - no survey required
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

Map Number: EC-04-522b
 Map Name: Amphibians
 Community Area MA07: Davenport Green to Ardwick

Note: GCN = Great Crested Newts

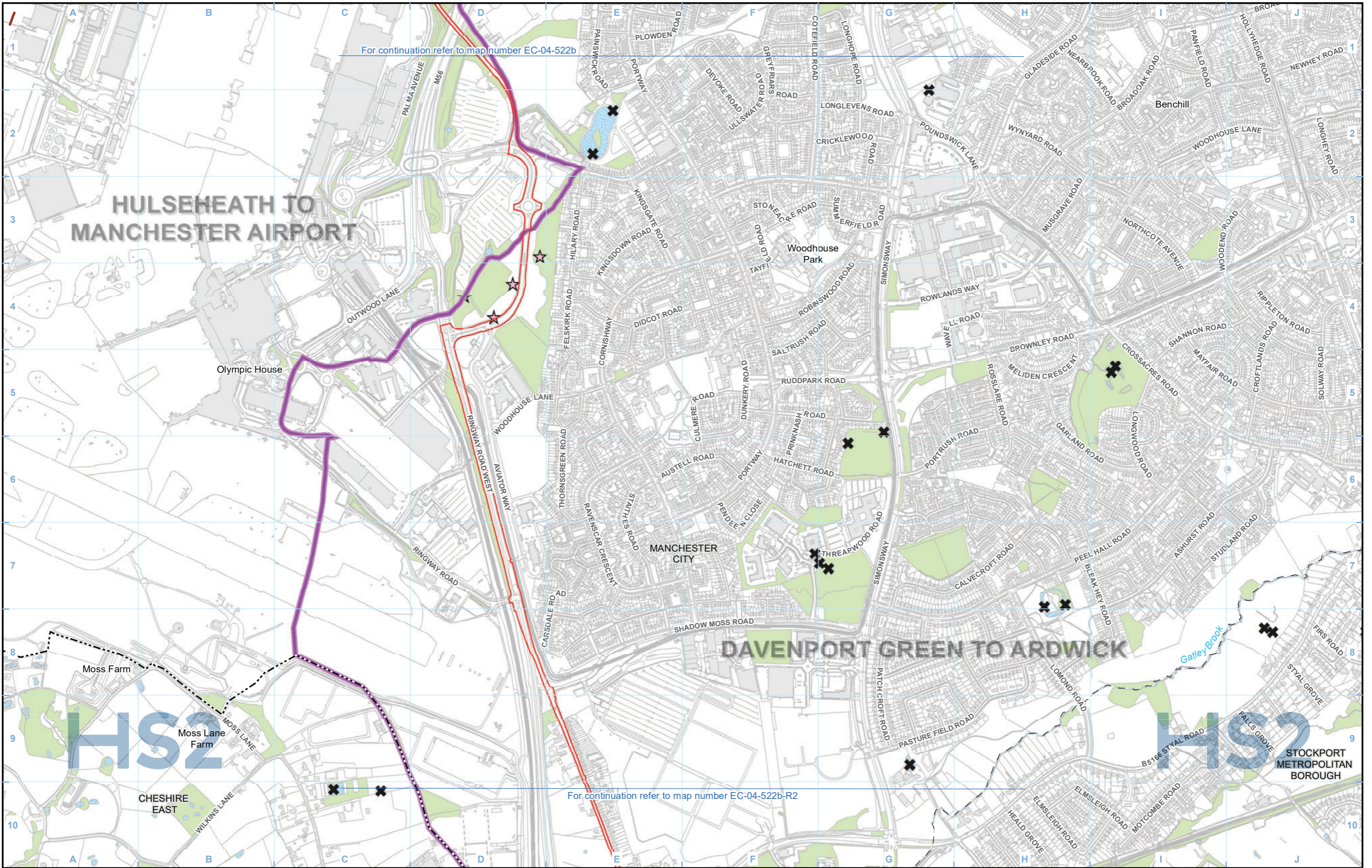
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Date: 08/08/21



For continuation refer to map number EC-04-522b

For continuation refer to map number EC-04-522b-R2

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Scoped in - no access permission
 - Scoped out - no survey required
 - 500m radius from all water bodies where presence of GCN is confirmed

Note: GCN = Great Crested Newts

Map Number	EC-04-522b-R1
Map Name	Amphibians
	Community Area MA07: Davenport Green to Ardwick

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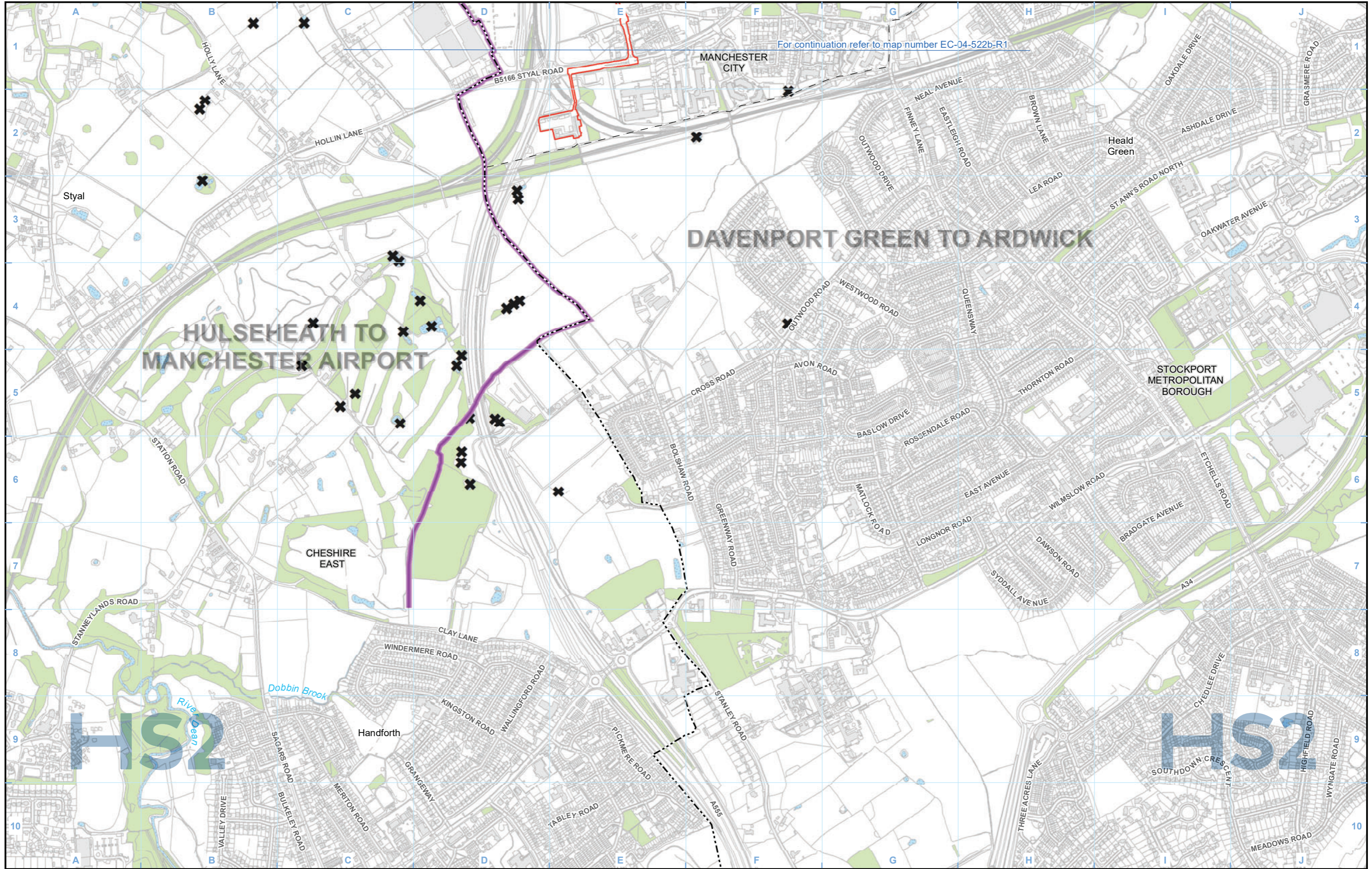
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003050-P01

Scale at A3: 1:10,000

Date: 08/08/21

For continuation refer to map number EC-04-522b-R1



HULSEHEATH TO MANCHESTER AIRPORT

DAVENPORT GREEN TO ARDWICK

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Scoped out - no survey required

Map Number EC-04-522b-R2

Map Name Amphibians

Community Area MA07: Davenport Green to Ardwick

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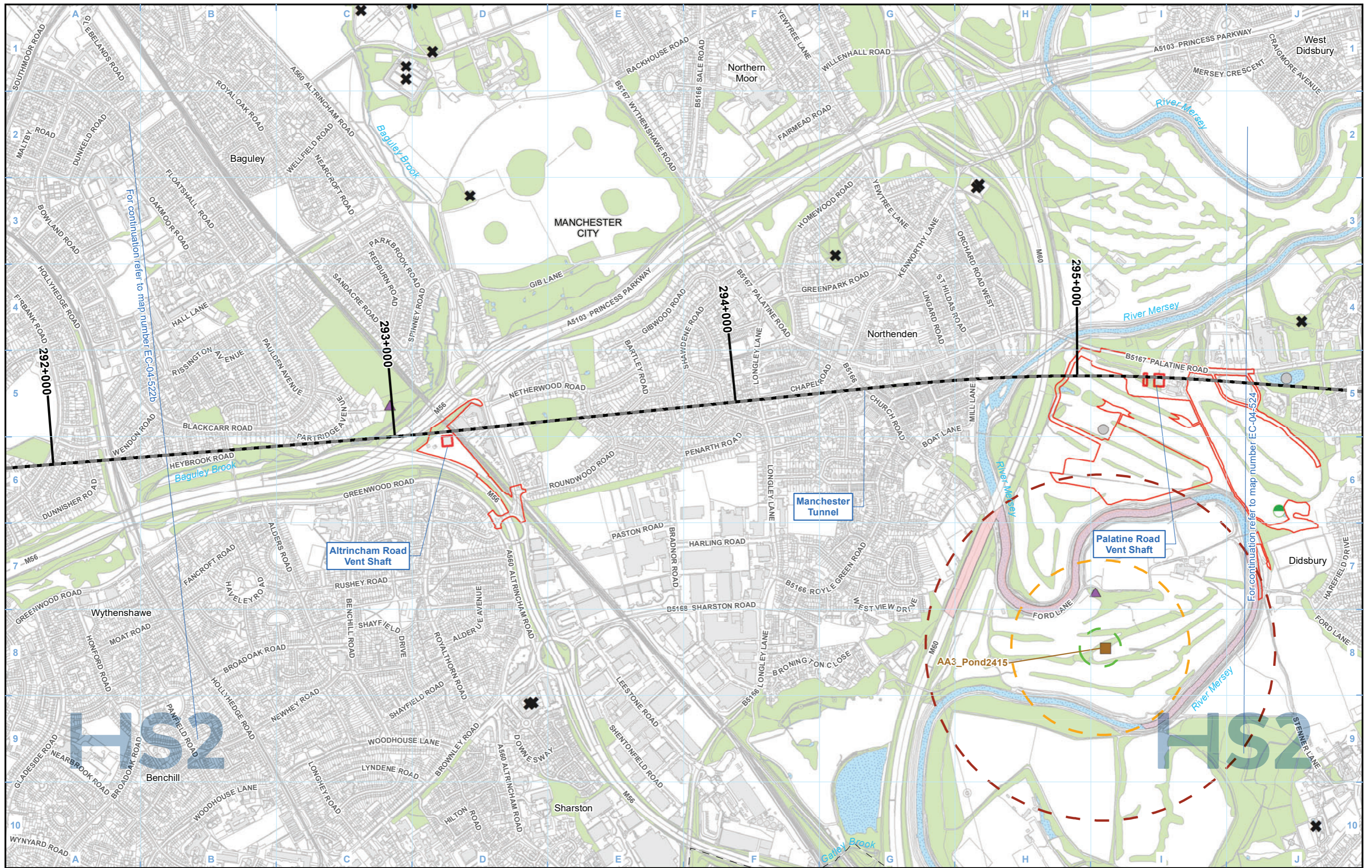
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Date: 08/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres

Note: GCN = Great Crested Newts



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - GCN present
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

For continuation refer to map number EC-04-522b

For continuation refer to map number EC-04-524

Map Number EC-04-523

Map Name Amphibians

Community Area MA07: Davenport Green to Ardwick

Scale at A3: 1:10,000

Doc Number: 2DE01-MWJ-EV-MAP-M000-000974-P01

Date: 08/08/21

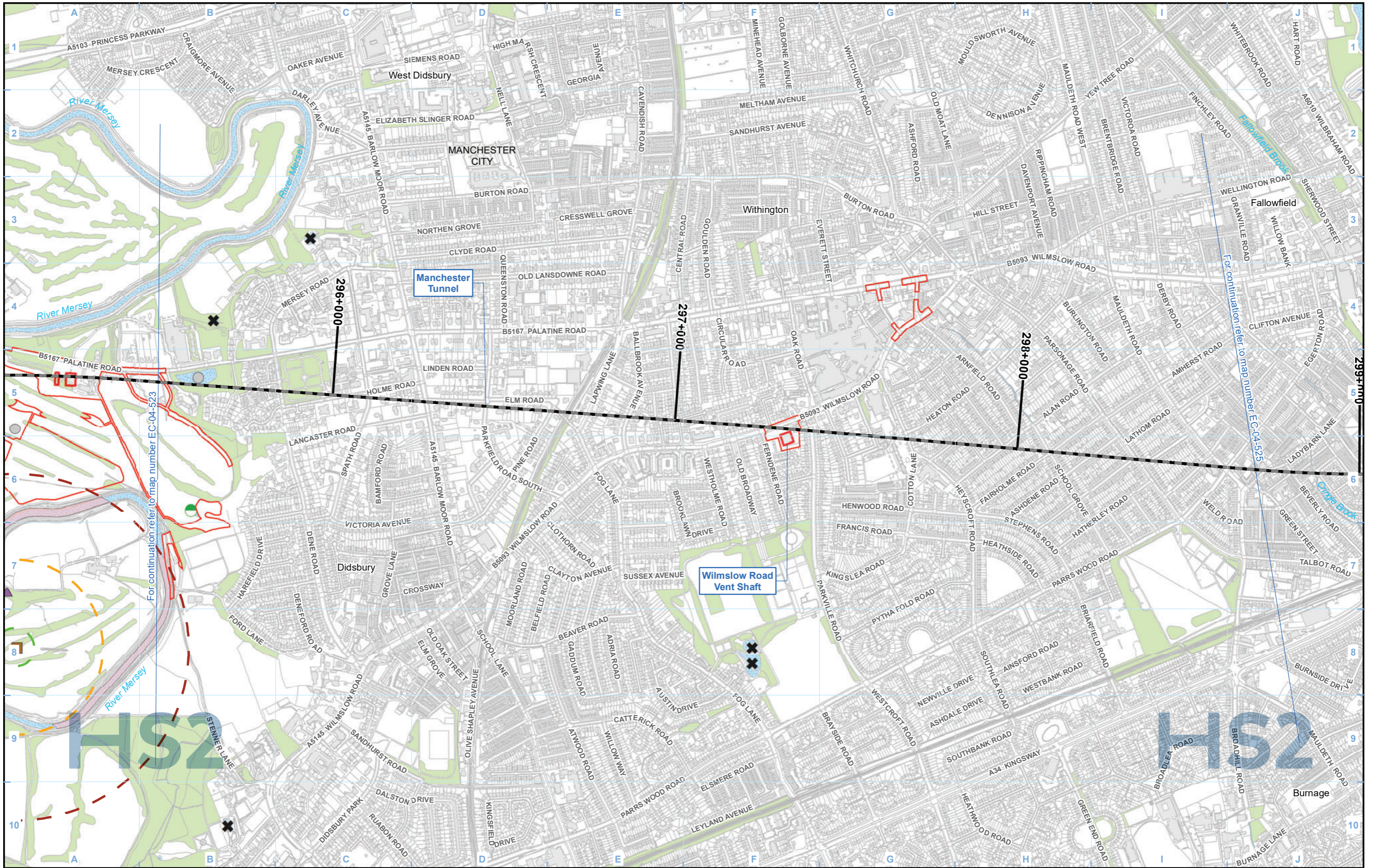
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Note: GCN = Great Crested Newts

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Scale at A3: 1:10,000



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - eDNA survey complete - GCN present
 - Survey complete, GCN assumed absent
 - Survey incomplete, no GCN found
 - Scoped in - Habitat Suitability Index (HSI)/walkover only
 - Scoped out - no survey required
 - 50m radius from all water bodies where presence of GCN is confirmed
 - 250m radius from all water bodies where presence of GCN is confirmed
 - 500m radius from all water bodies where presence of GCN is confirmed
 - Areas isolated by significant barriers to amphibian movement

Note: GCN = Great Crested Newts

Map Number	EC-04-524
Map Name	Amphibians
Community Area MA07: Davenport Green to Ardwick	

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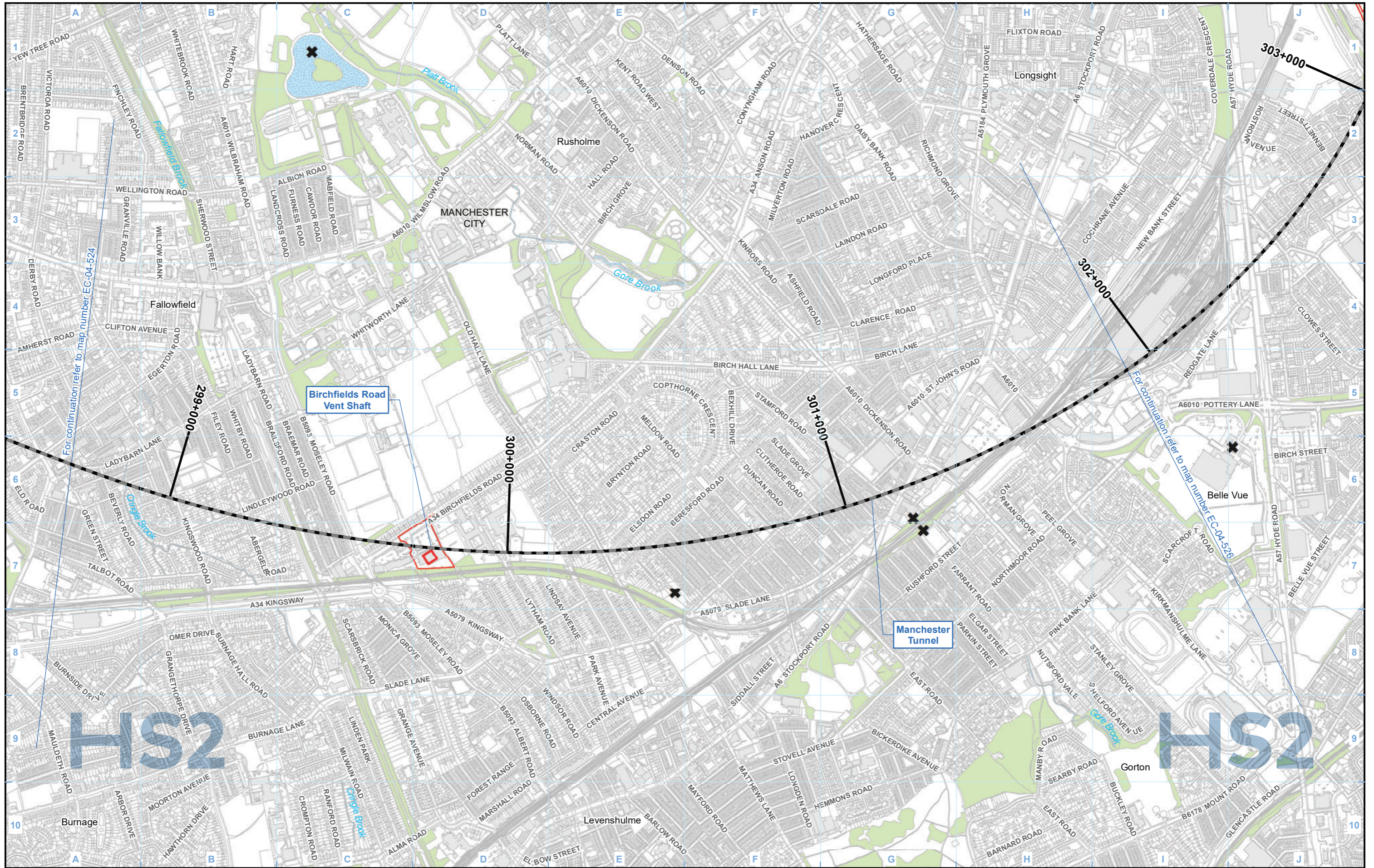
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Doc Number: 2DE01-MWJ-EV-MAP-M000-000975-P01

Scale at A3: 1:10,000

Metres

Date: 08/08/21



Legend

Route in tunnel	District/Borough boundary
Route on surface	Watercourse
Depot, station, headhouse or portal building	Water body
Land potentially required during construction	Woodland (not verified by survey)
Community area boundary	Scoped out - no survey required
County boundary	

Note: GCN = Great Crested Newts

Map Number	EC-04-525
Map Name	Amphibians
	Community Area MA07: Davenport Green to Ardwick

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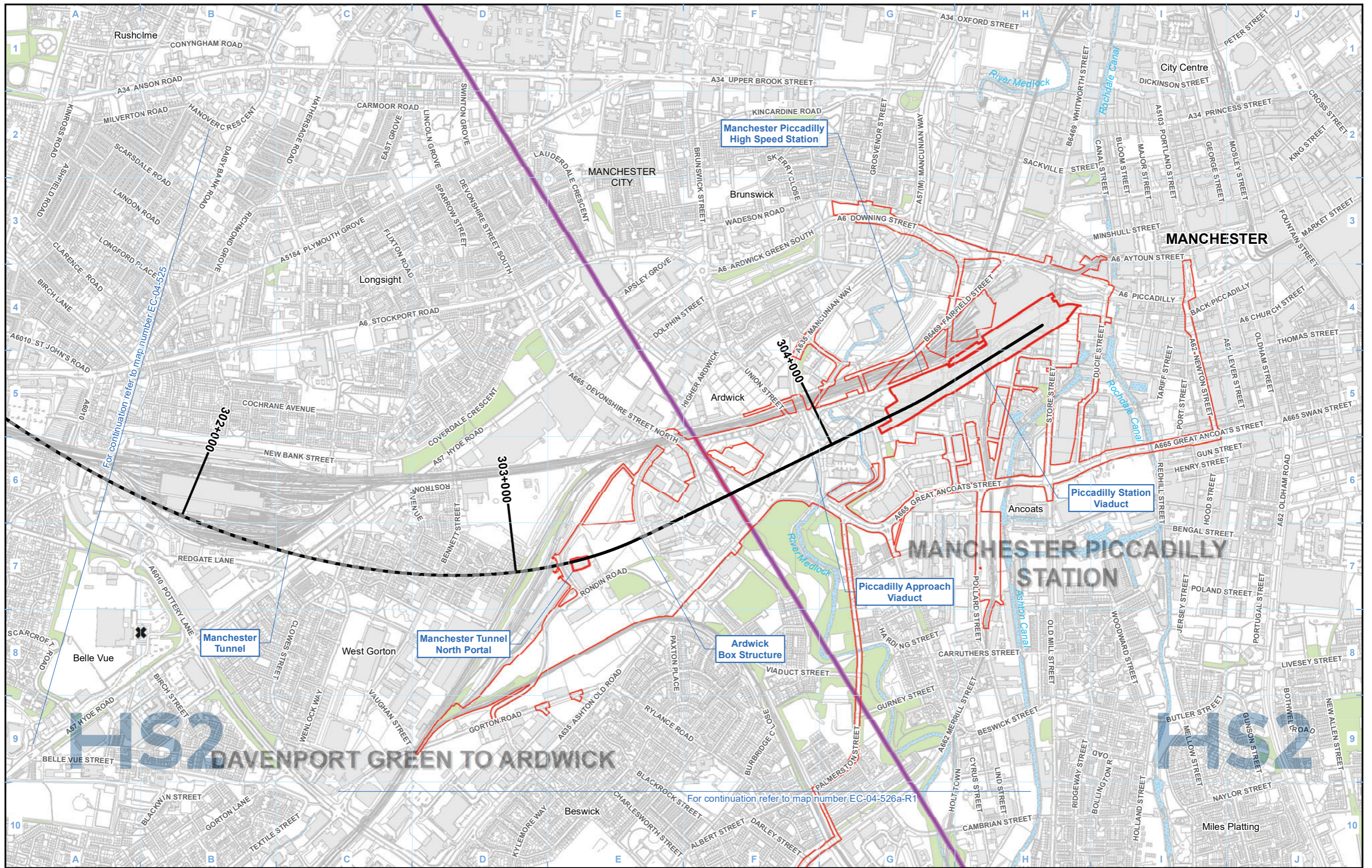
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Date: 08/08/21

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Legend

Route in tunnel	District/Borough boundary
Route on surface	Watercourse
Depot, station, headhouse or portal building	Water body
Land potentially required during construction	Woodland (not verified by survey)
Community area boundary	Scoped out - no survey required
County boundary	

For continuation refer to map number EC-04-325

For continuation refer to map number EC-04-526a-R1

Note: GCN = Great Crested Newts

Map Number	EC-04-526a
Map Name	Amphibians
Community Area	Community Area MA07: Davenport Green to Ardwick

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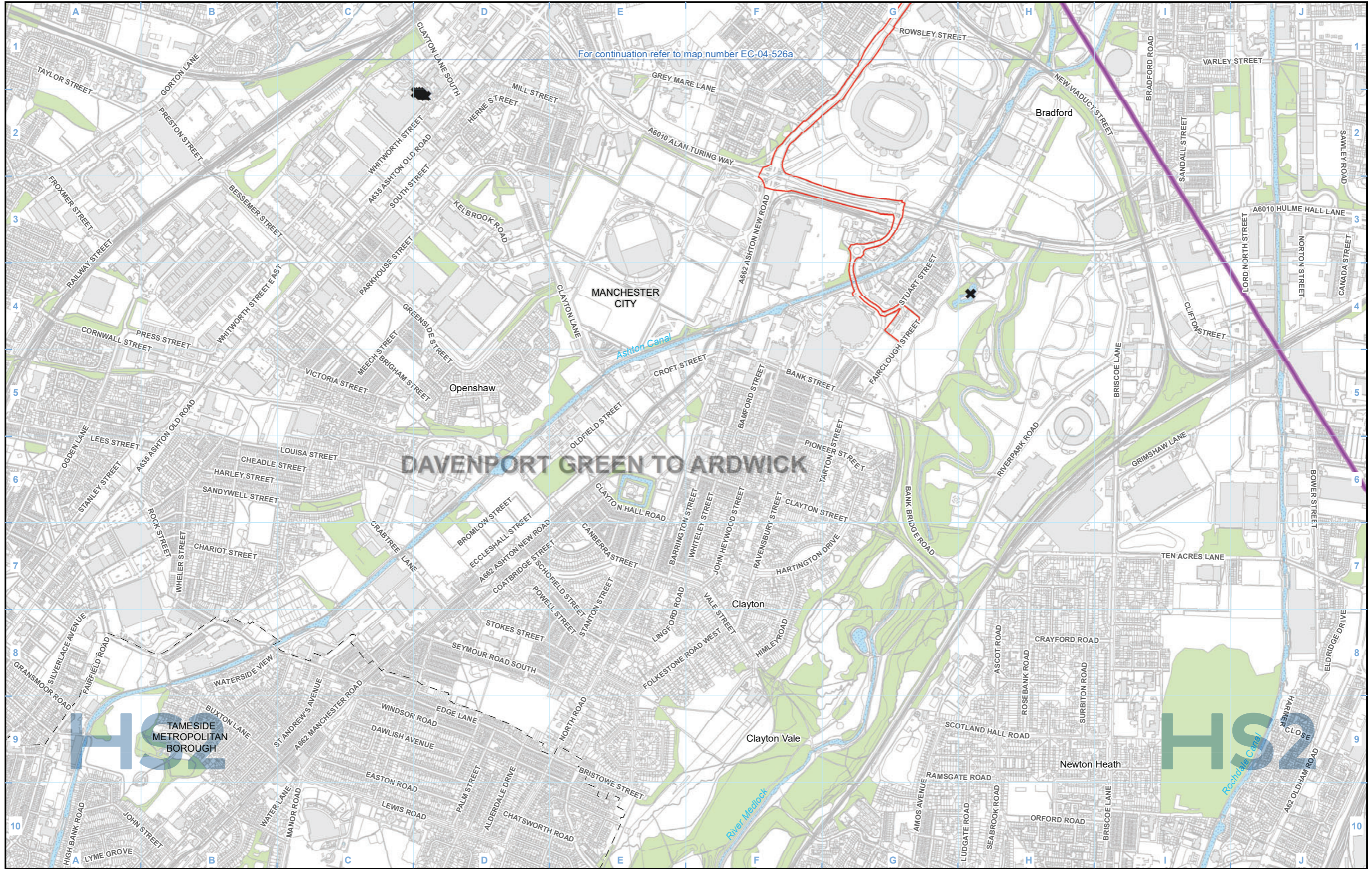
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Doc Number: 2DE01-MWJ-EV-MAP-M000-000977-P01

Date: 08/08/21

For continuation refer to map number EC-04-526a

DAVENPORT GREEN TO ARDWICK



Legend

Map Number	EC-04-526a-R1
Map Name	Amphibians
	Community Area MA07: Davenport Green to Ardwick

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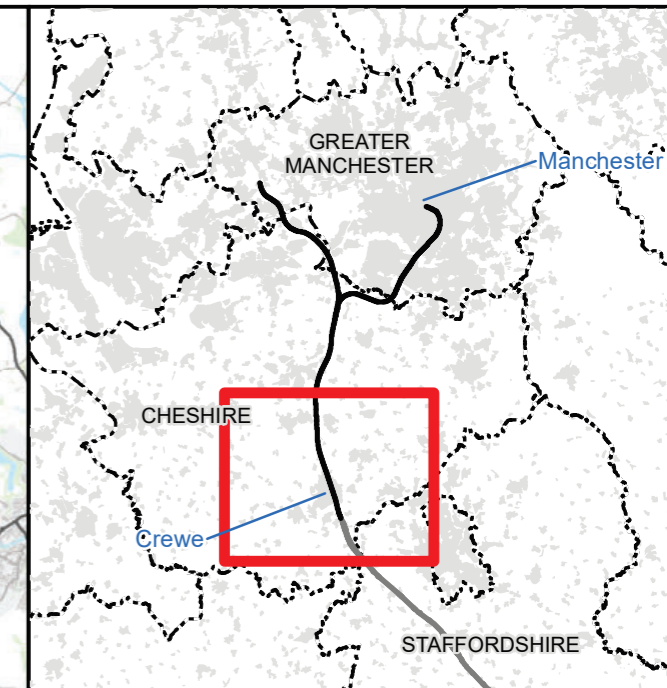
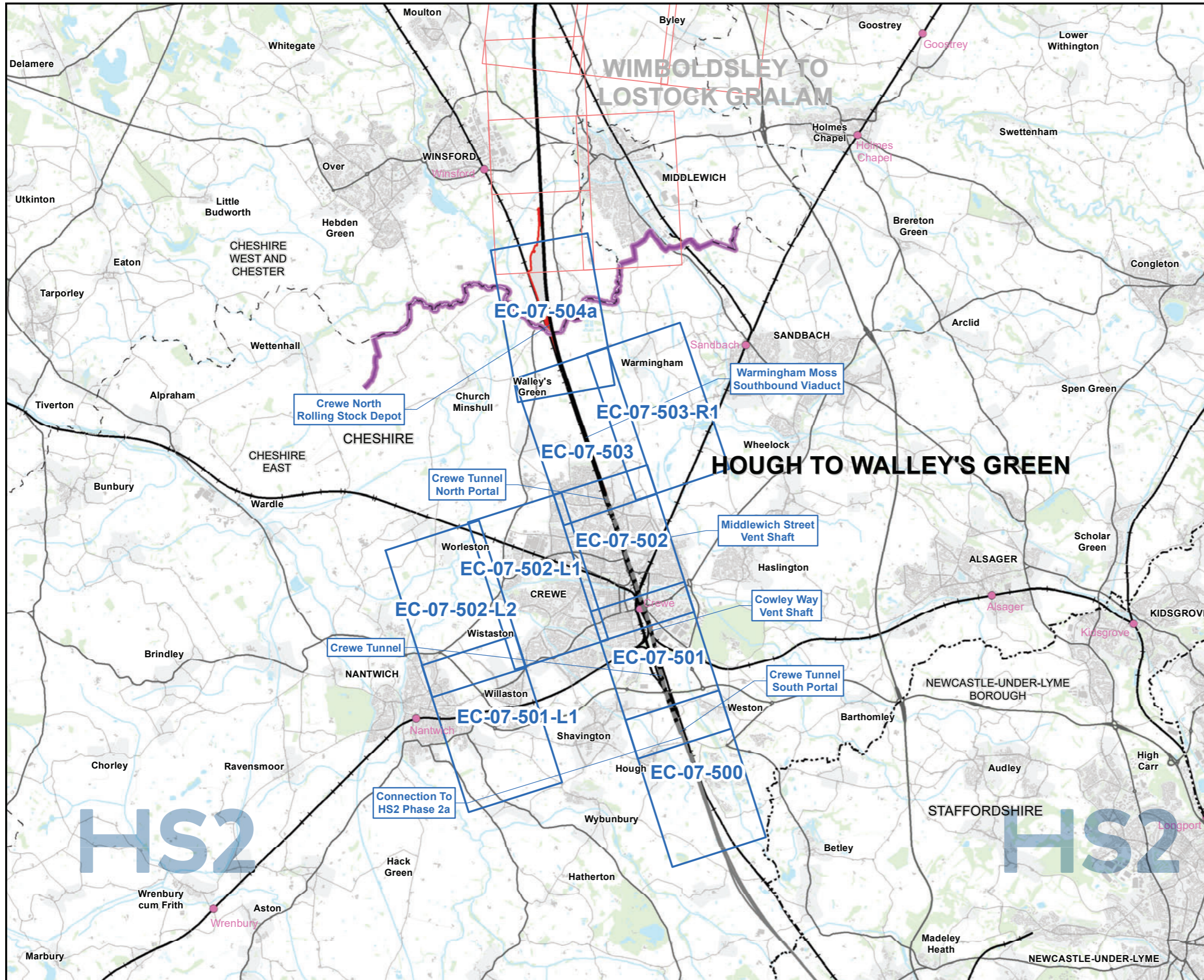
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Date: 08/08/21

Note: GCN = Great Crested Newts

High Speed Rail (Crewe – Manchester)

Background Information and Data
EC-07 - Reptiles



Map Series Information:

This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

Main Map Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	Existing railway station
	County boundary
	District/Borough boundary
	Map sheets included in this community area
	Map sheets not included in this community area

Map Number	EC-07-INDEX-MA01
Map Name	Index Map of: Reptiles
	Community Area MA01: Hough to Walley's Green

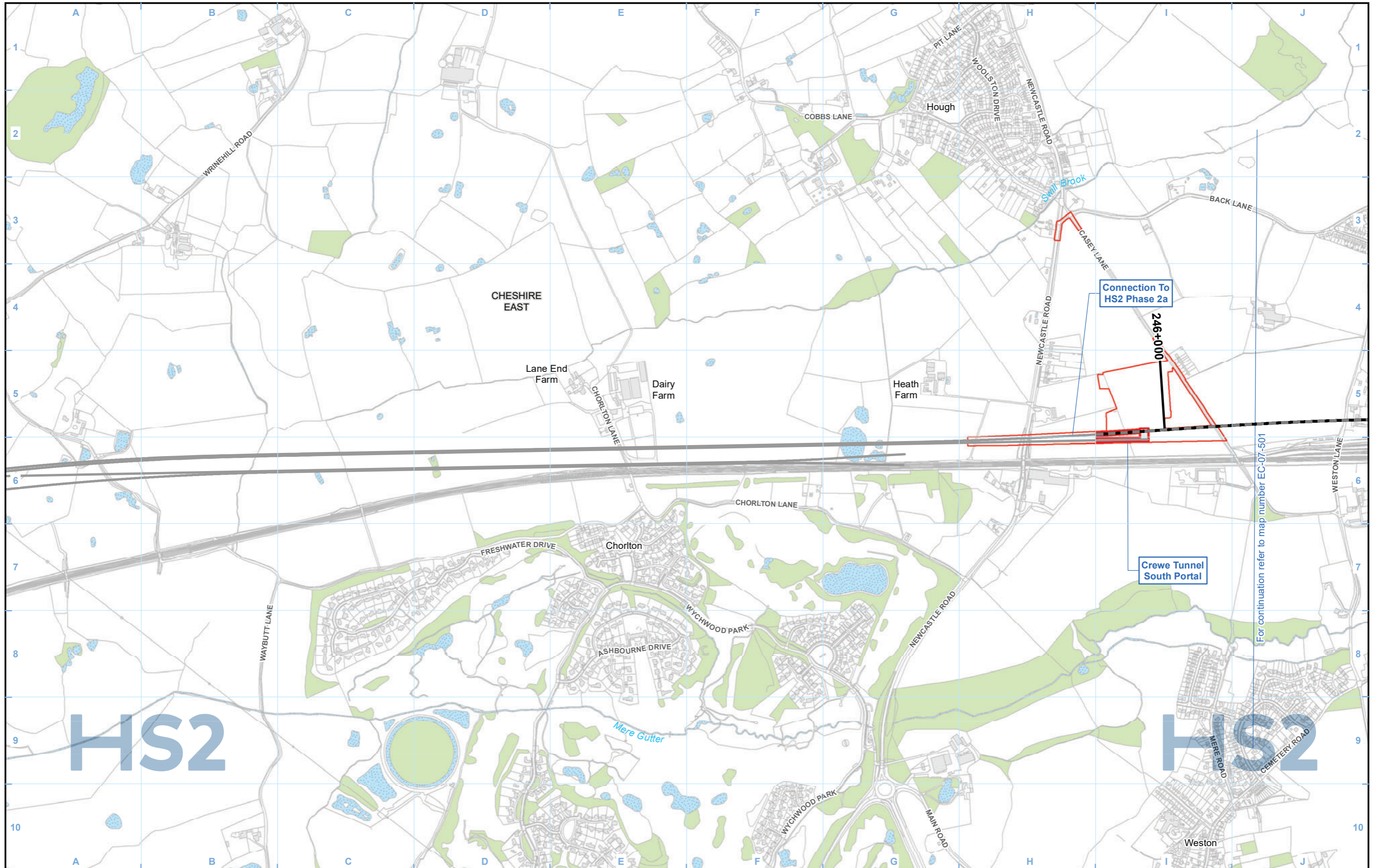
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

Reptiles assumed present as surveys not completed

Presence/absence survey conducted - reptiles assumed absent

Scoping visit only - scoped out

Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-500

Map Name: Reptiles

Community Area MA01:
Hough to Walley's Green

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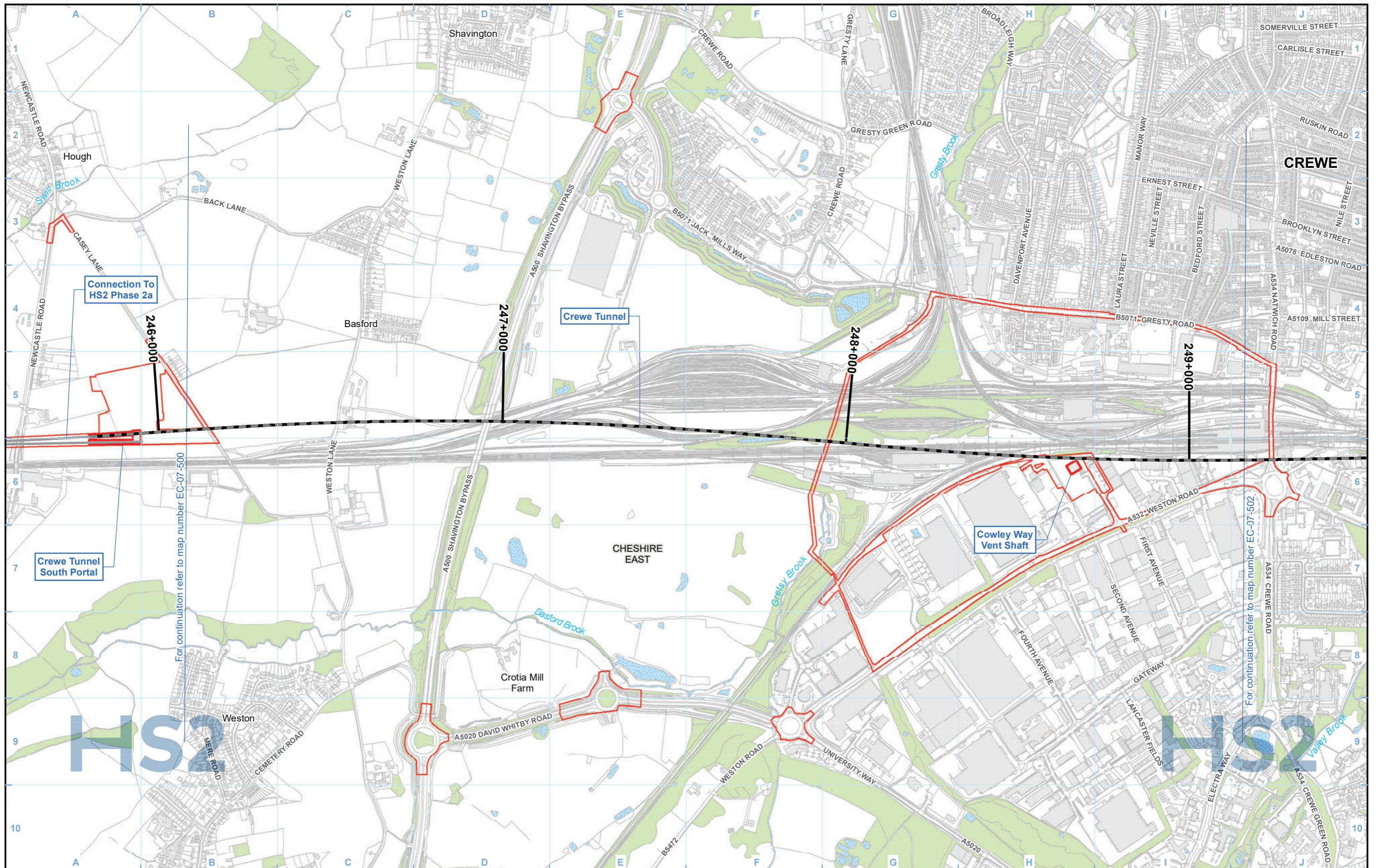
Date: 09/08/21

For continuation refer to map number EC-07-501

Connection To
HS2 Phase 2a

246+000

Crewe Tunnel
South Portal



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-501**

Map Name: **Reptiles**

Community Area MA01:
Hough to Walley's Green

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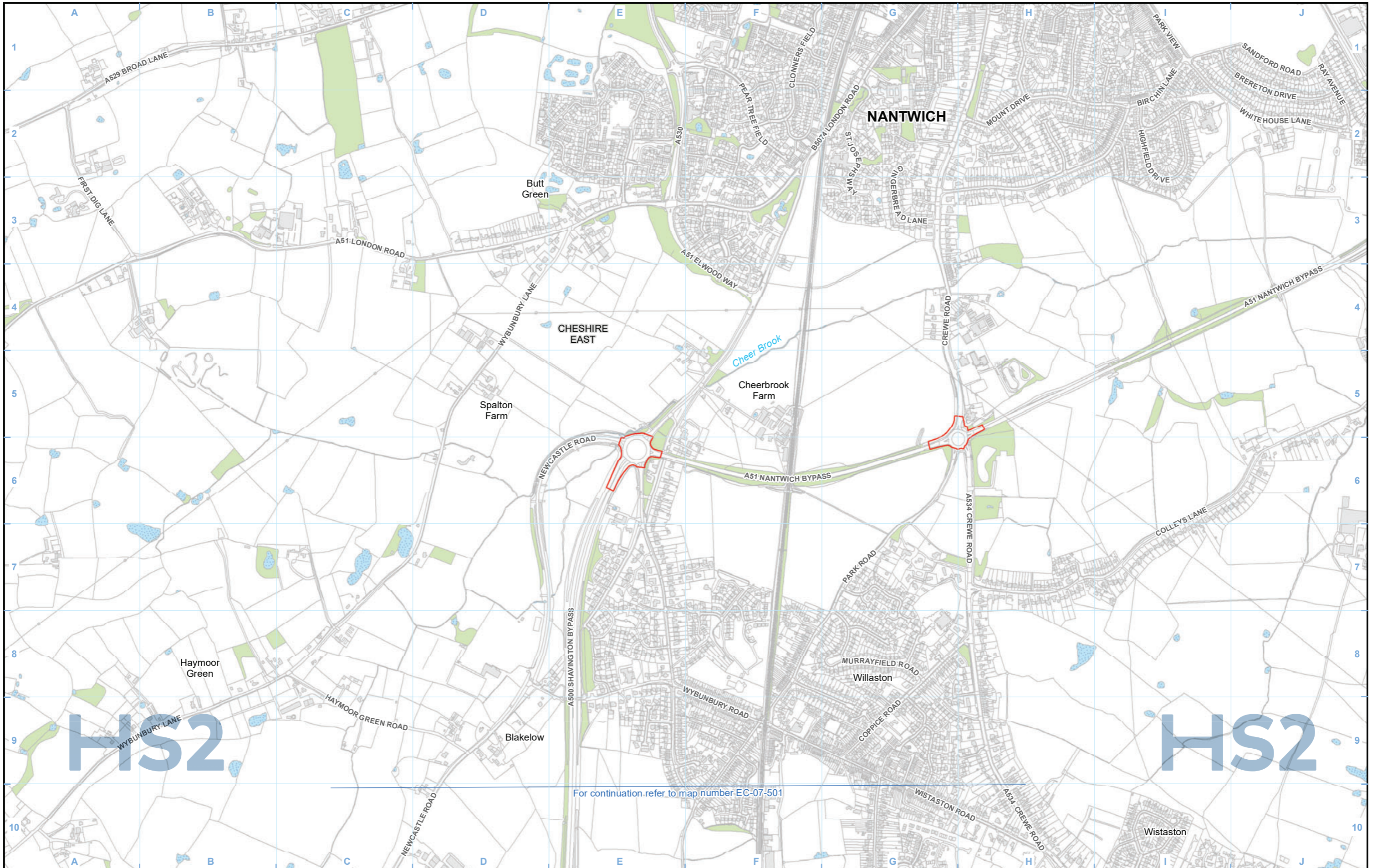
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Date: 09/08/21



For continuation refer to map number EC-07-501

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
High	High	High	High
Medium	Medium	Medium	Medium
Low	Low	Low	Low
Absent	Absent	Absent	Absent

Map Number	EC-07-501-L1
Map Name	Reptiles
	Community Area MA01: Hough to Walley's Green

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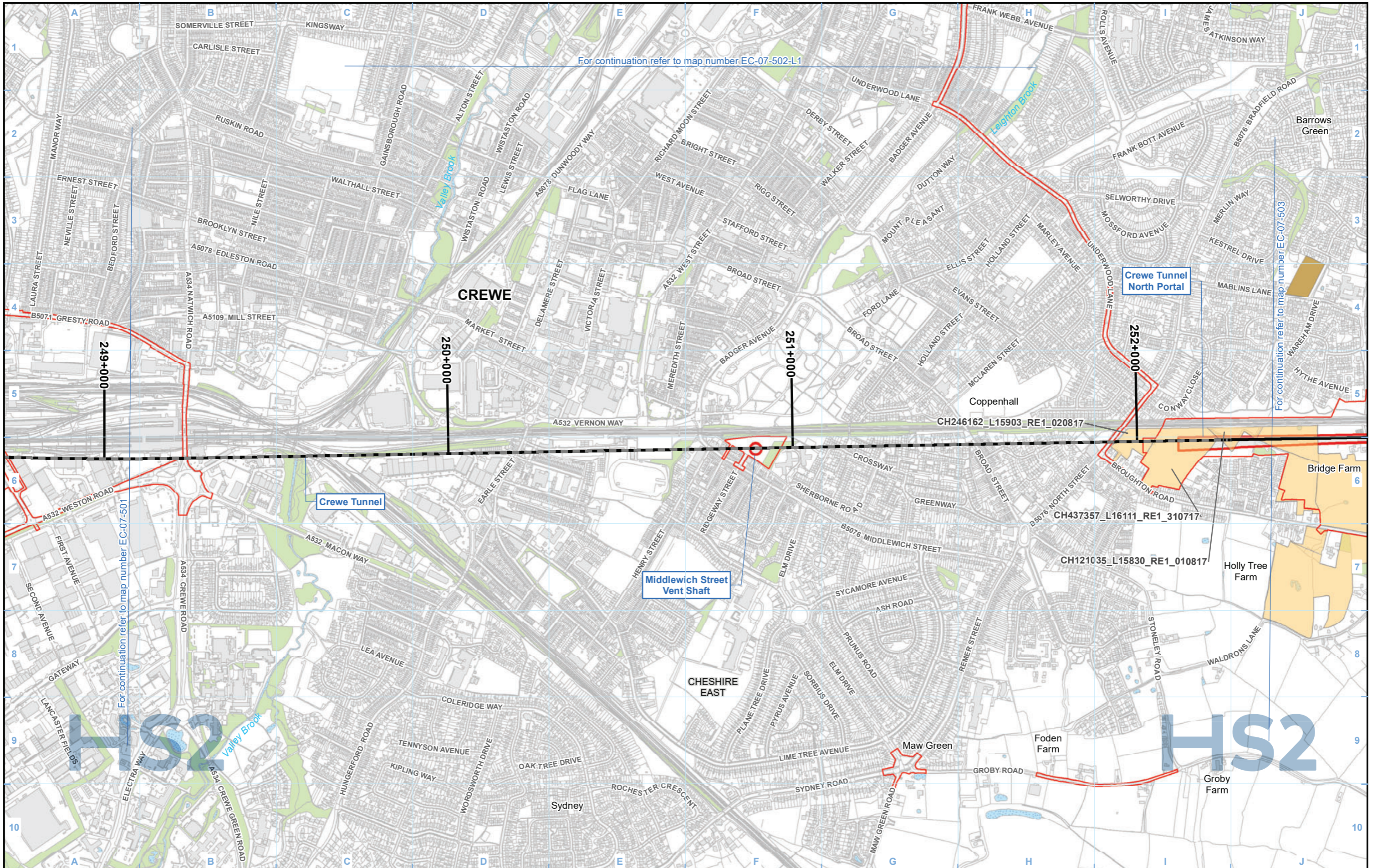
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For continuation refer to map number EC-07-502-L1

For continuation refer to map number EC-07-503

For continuation refer to map number EC-07-501

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common Lizard: Grass Snake: Slow Worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
Map Number EC-07-502		Map Name Reptiles					
Community Area MA01: Hough to Walley's Green		Scale at A3: 1:10,000 		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190 Doc Number: 2DE01-MWJ-EV-MAP-M000-001113-P01 Date: 09/08/21			

For continuation refer to map number EC-07-502-L2

For continuation refer to map number EC-07-502



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-502-L1

Map Name: Reptiles

Community Area MA01:
Hough to Walley's Green

HS2

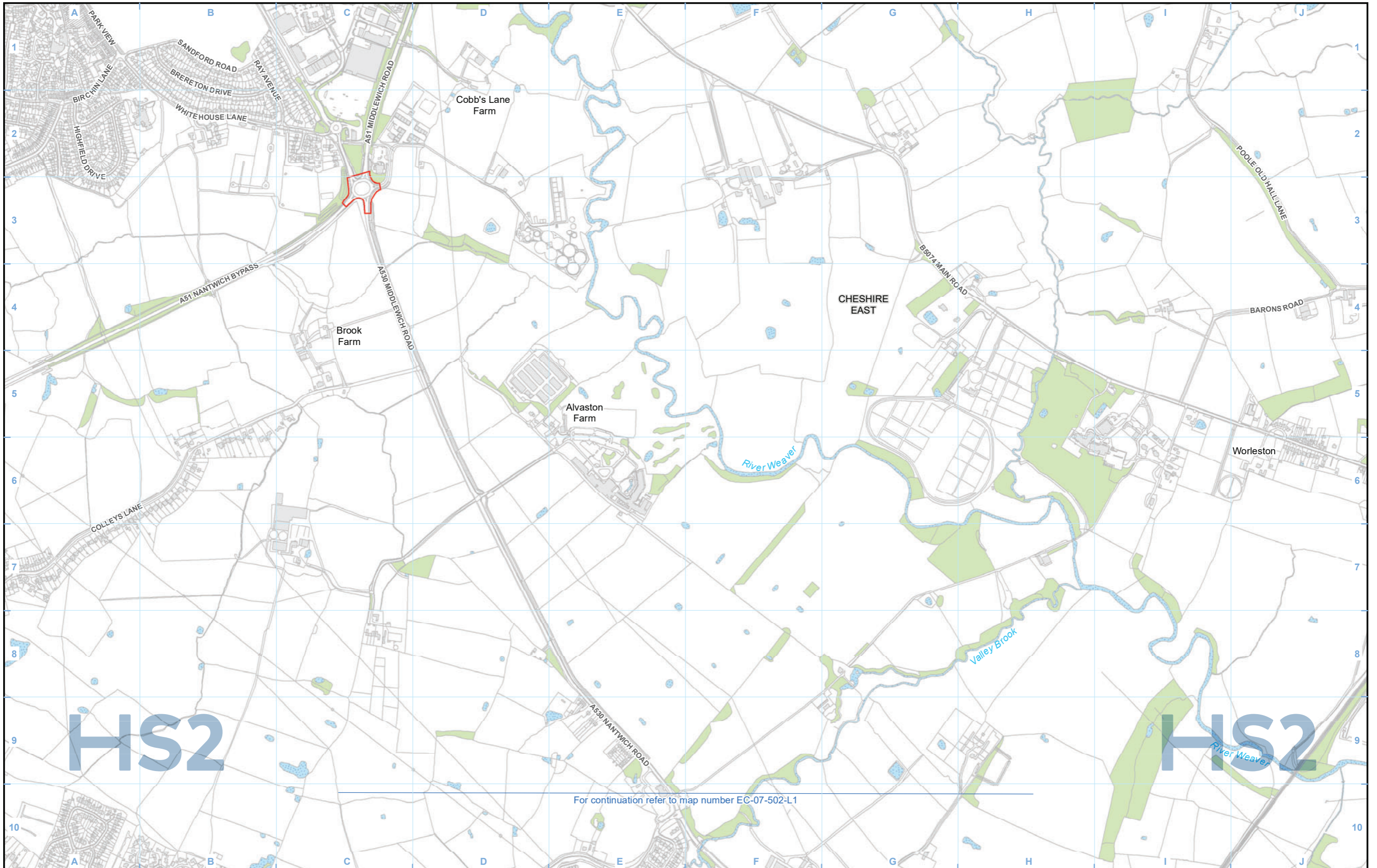
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Date: 09/08/21



For continuation refer to map number EC-07-502-L1

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)

Population size class survey - visits completed	
	Reptiles assumed present as surveys not completed
	Presence/absence survey conducted - reptiles assumed absent
	Scoping visit only - scoped out
	Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:			
Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number	EC-07-502-L2
Map Name	Reptiles
	Community Area MA01: Hough to Walley's Green

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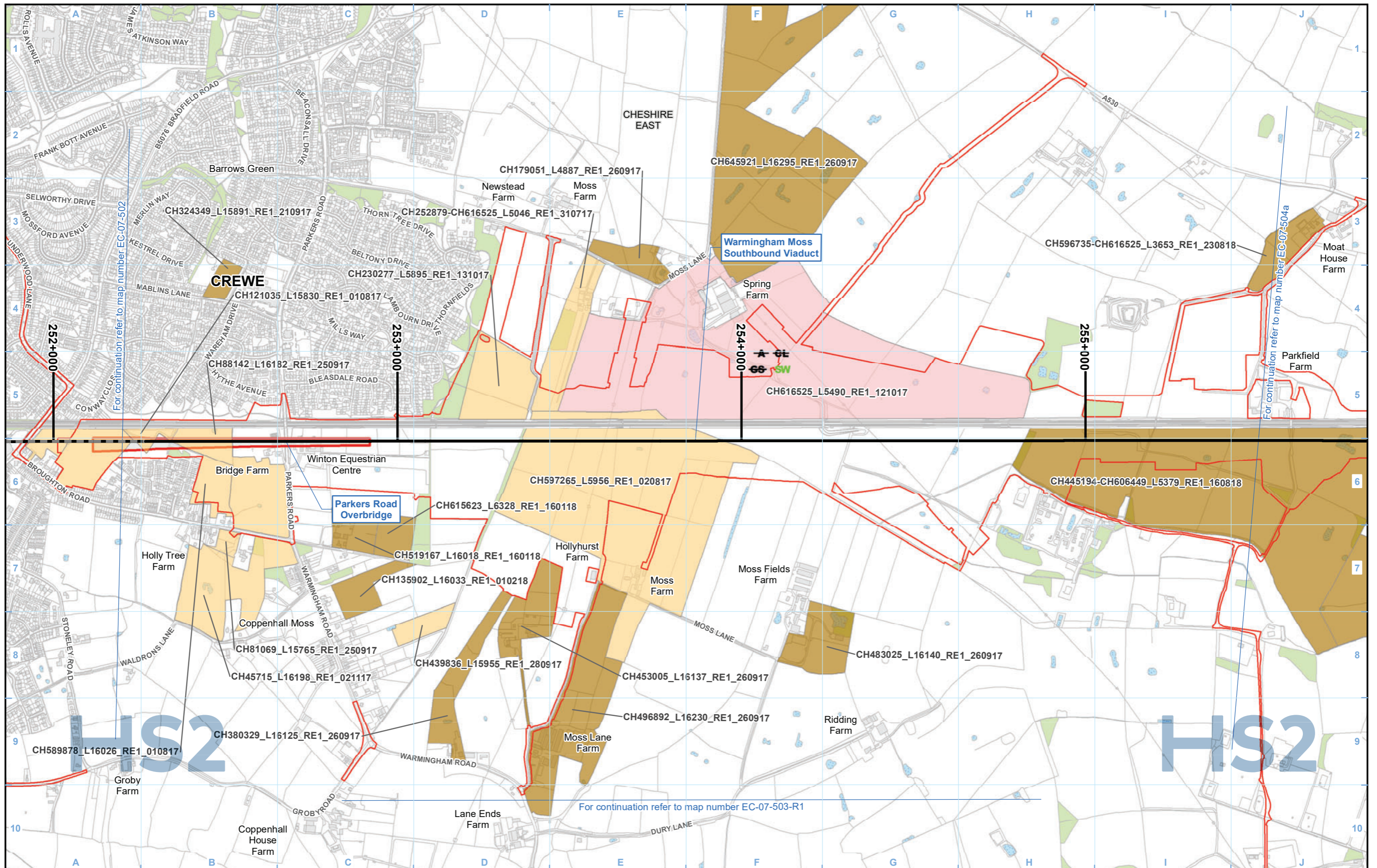
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-503

Map Name: Reptiles

Community Area MA01:
Hough to Walley's Green

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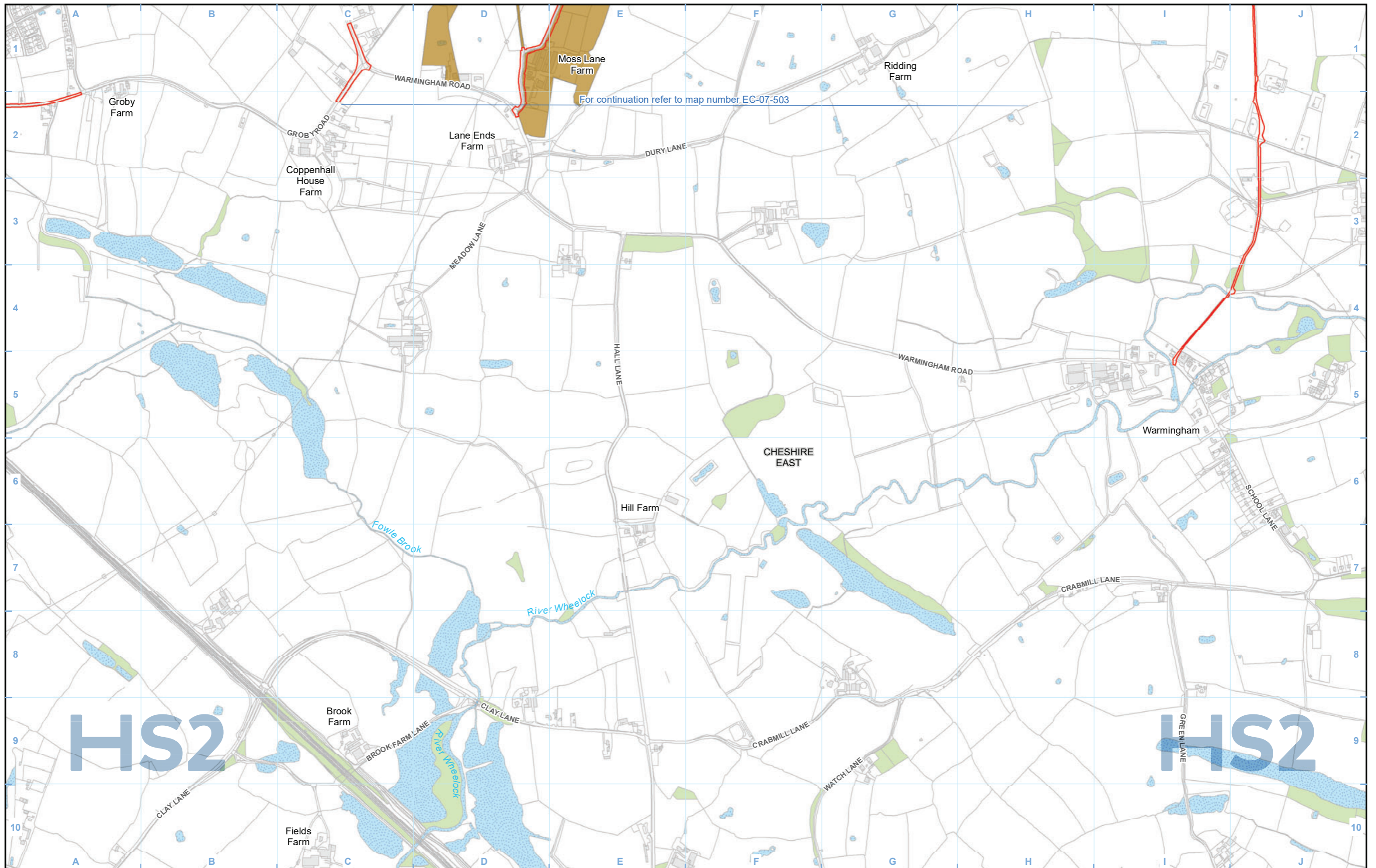
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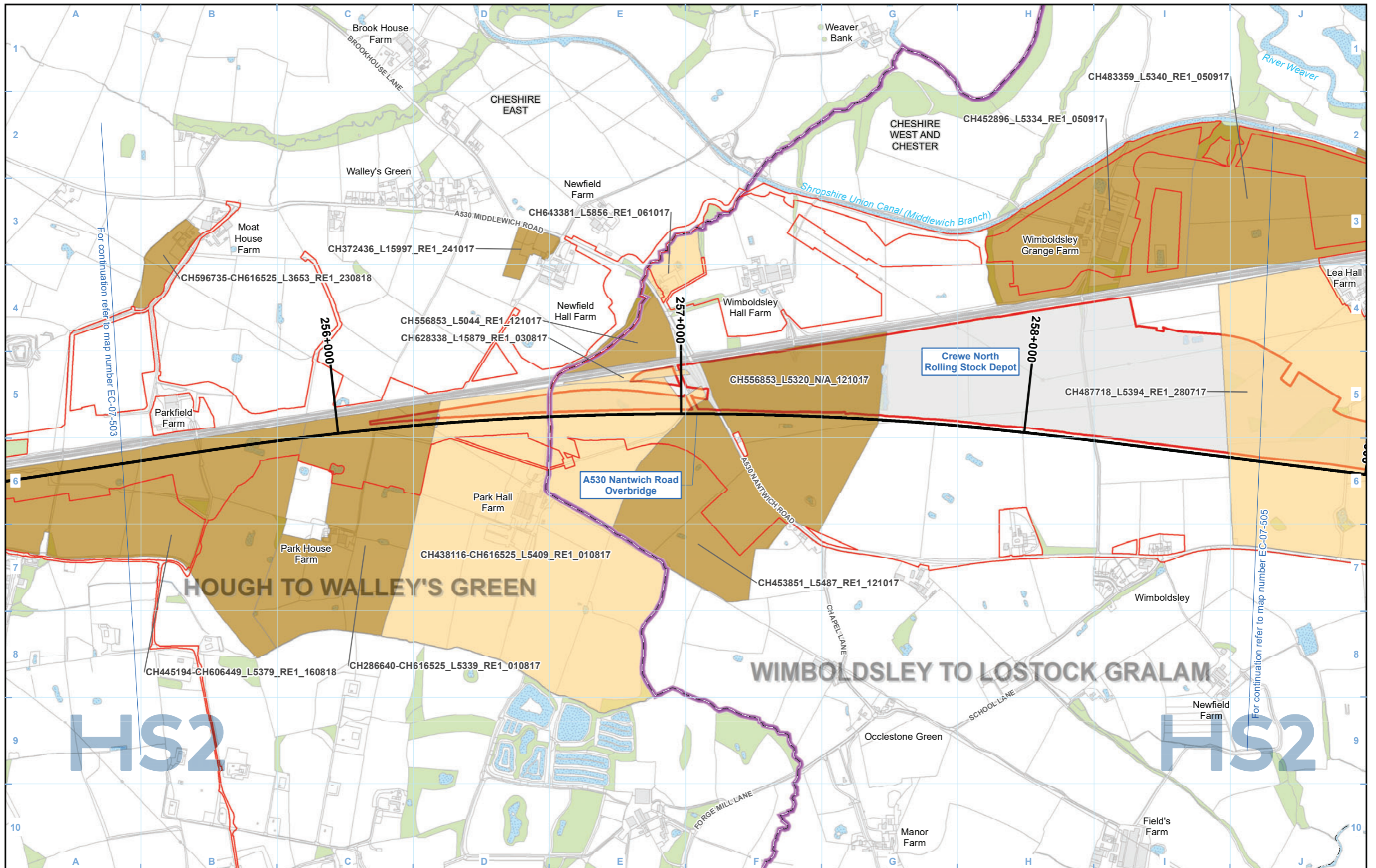


For continuation refer to map number EC-07-503

HS2

HS2

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common Lizard: Grass Snake: Slow Worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
Map Number EC-07-503-R1 Map Name Reptiles		HS2 <small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small> <small>© Crown copyright and database rights 2020 OS 100049190</small> Doc Number: 2DE01-MWJ-EV-MAP-M000-003036-P01		 Scale at A3: 1:10,000 <small>Metres</small>			
Community Area MA01: Hough to Walley's Green		Date: 09/08/21					



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number
EC-07-504a

Map Name
Reptiles

Community Area MA01:
Hough to Walley's Green

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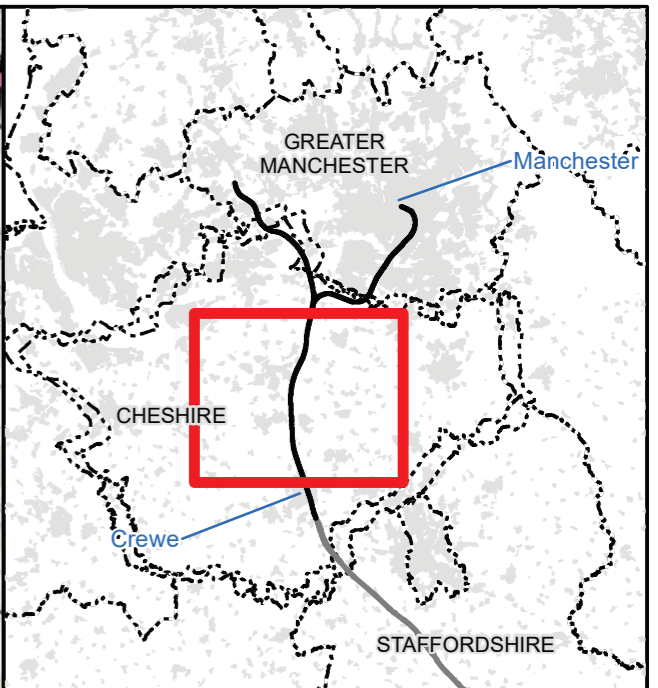
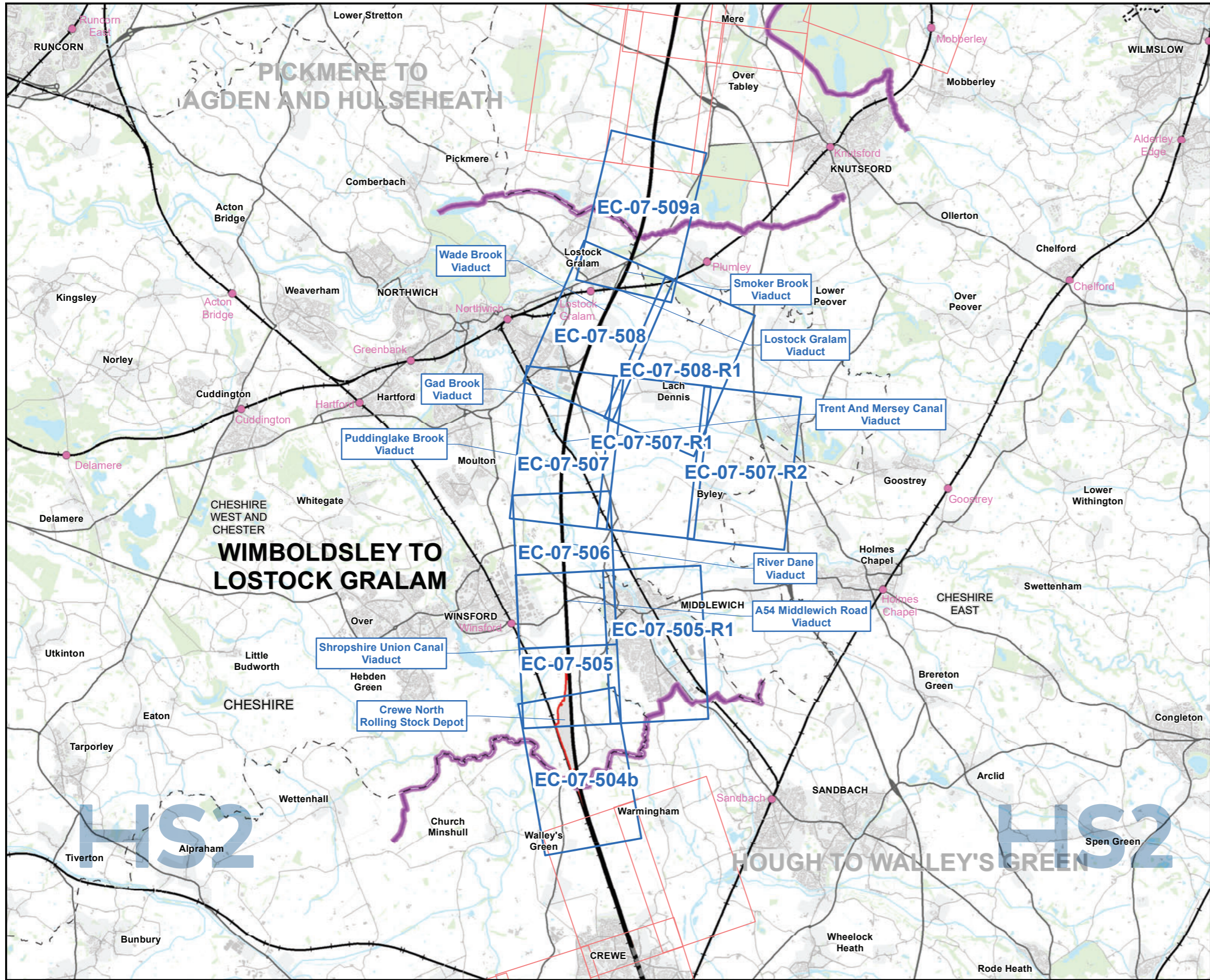
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001115-P01

Date: 09/08/21

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Map Series Information:

This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-07-INDEX-MA02
Map Name	Index Map of: Reptiles
	Community Area MA02: Wimboldsley to Lostock Gralam

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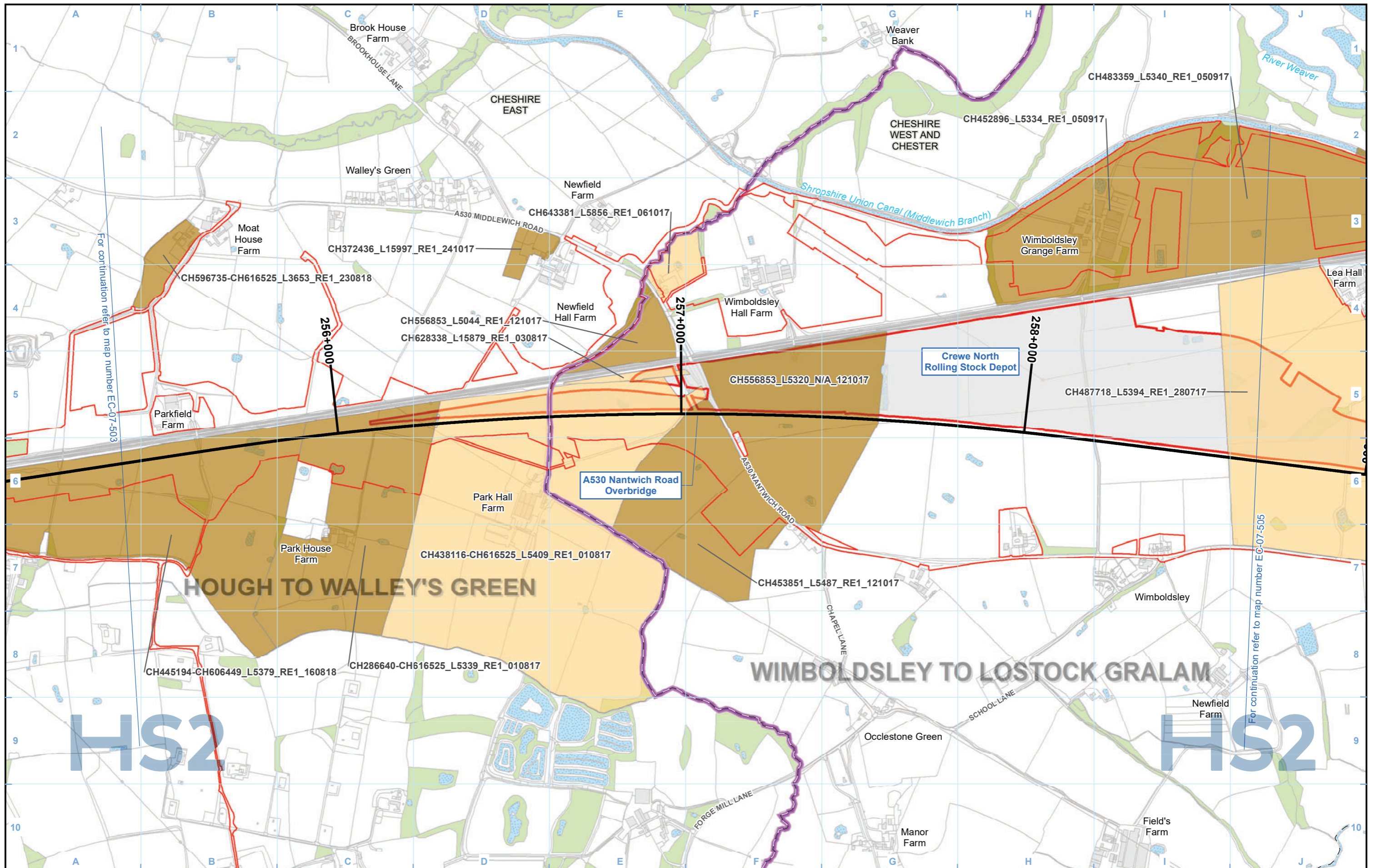
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001148-P01.5 **Date:** 09/08/21

Note: Not all data layers in the legend are represented on every map.



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common Lizard:	Grass Snake:	Slow Worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-504b

Map Name: Reptiles

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

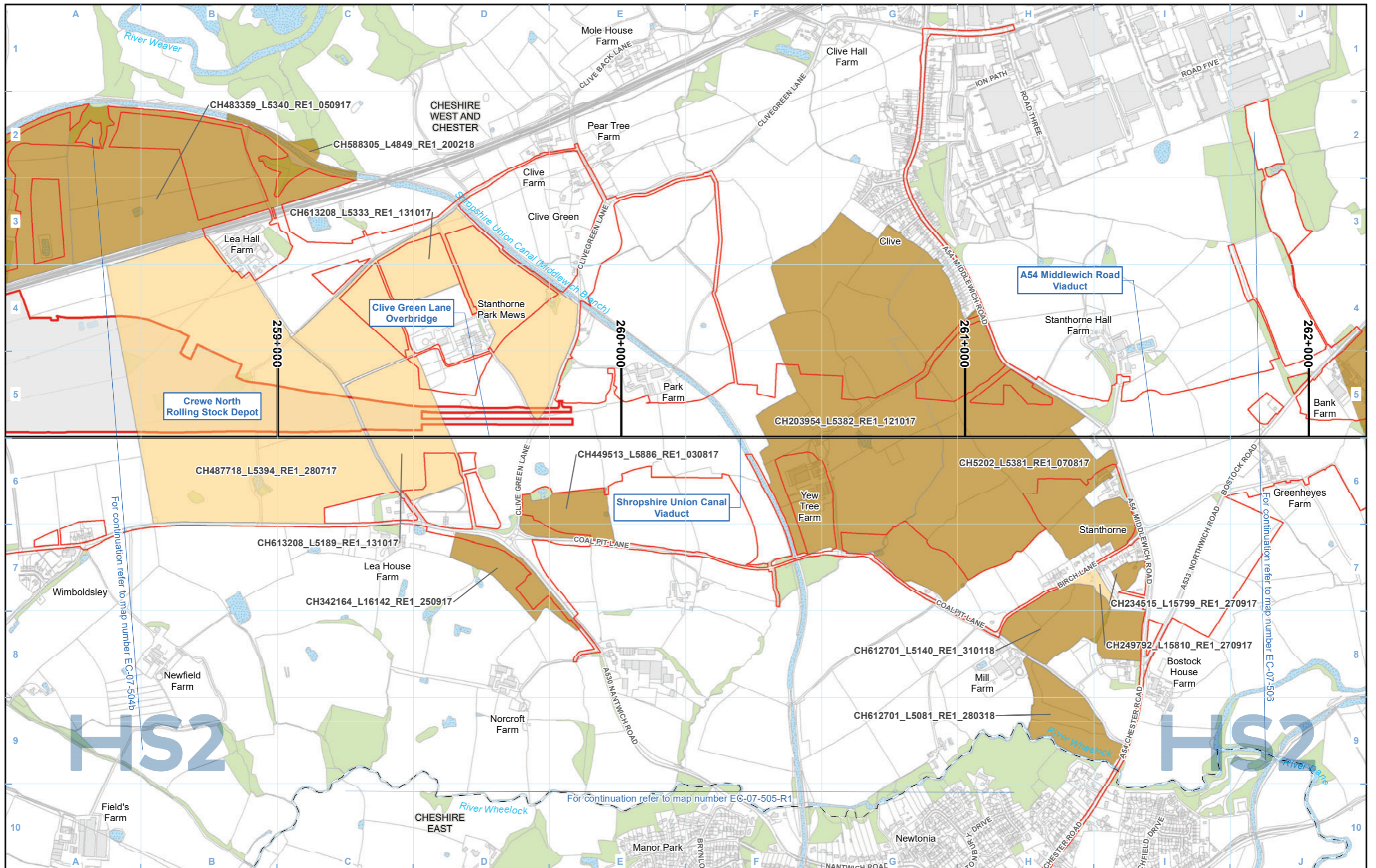
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001116-P01

Date: 09/08/21



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)

- Population size class survey - visits completed**
- Reptiles assumed present as surveys not completed
 - Presence/absence survey conducted - reptiles assumed absent
 - Scoping visit only - scoped out
 - Scoping visit conducted - habitat suitable but no further survey conducted
- Population size class assessment:**
- | | | | |
|-----------------|------------------|------------------|------------------|
| Adder: | Common Lizard: | Grass Snake: | Slow Worm: |
| A High | CL High | GS High | SW High |
| A Medium | CL Medium | GS Medium | SW Medium |
| A Low | CL Low | GS Low | SW Low |
| A Absent | CL Absent | GS Absent | SW Absent |

Map Number
EC-07-505

Map Name
Reptiles

Community Area MA02:
Wimboldsley to Lostock Gralam

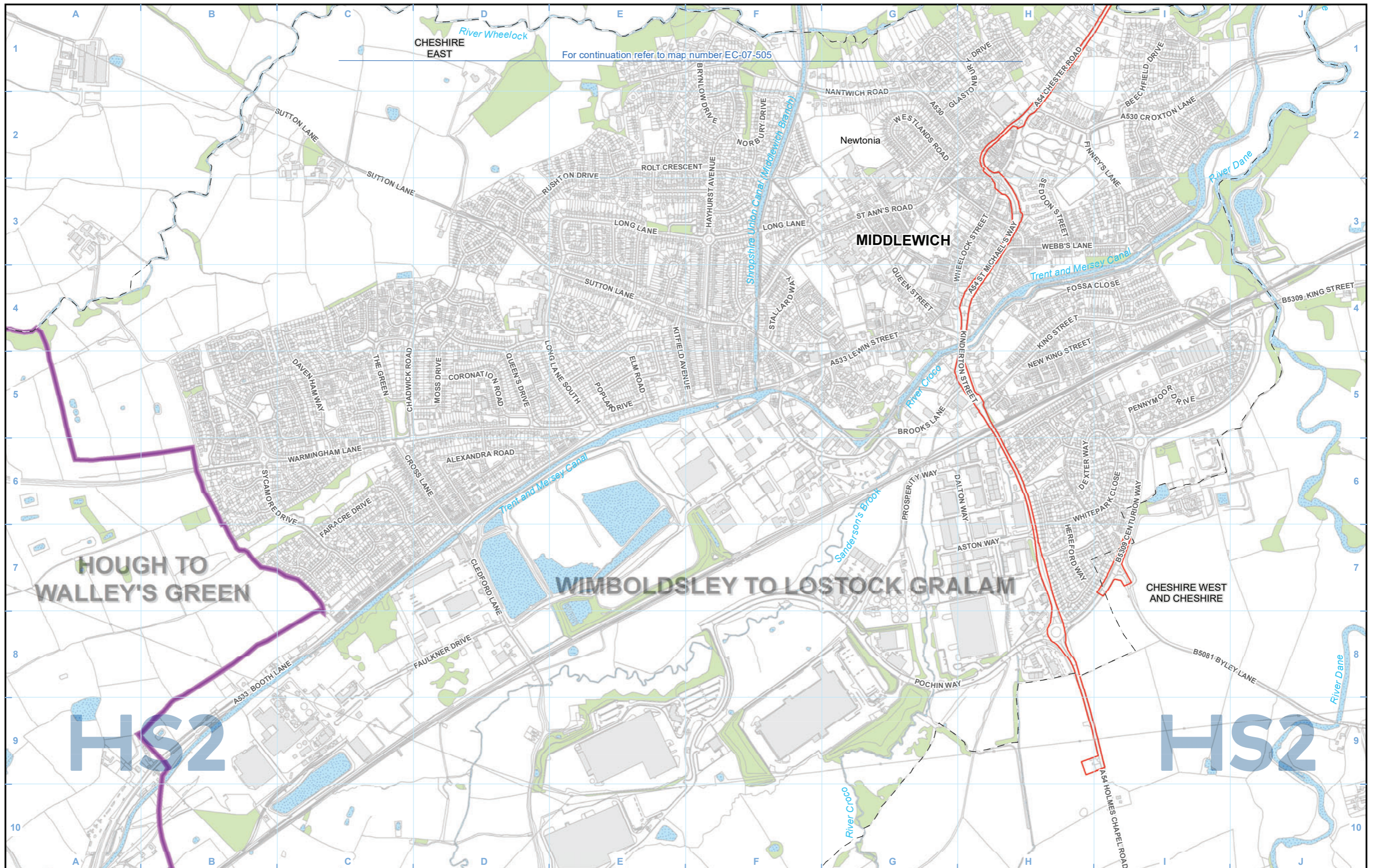
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Scale at A3: 1:10,000

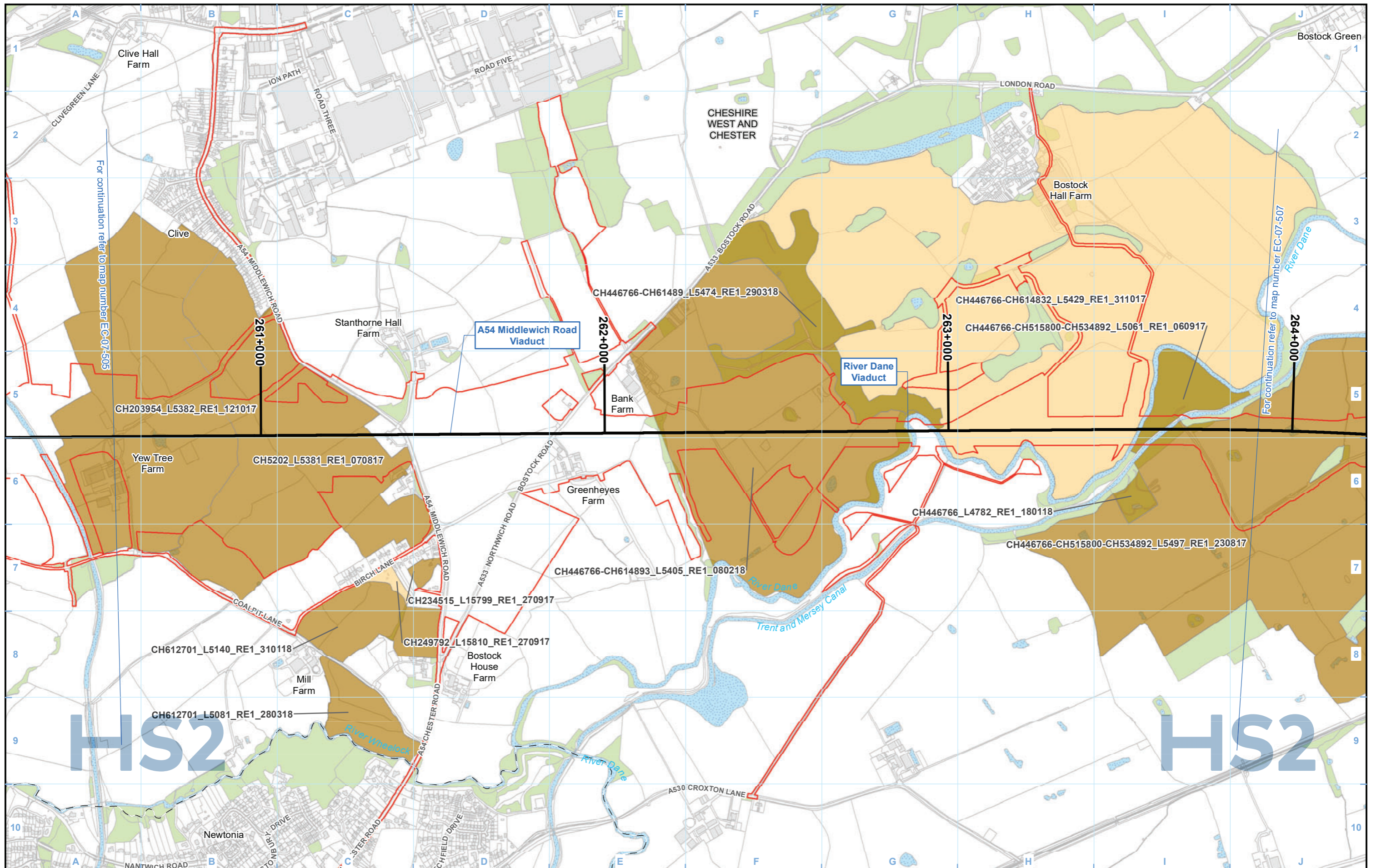
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001117-P01 Date: 09/08/21



For continuation refer to map number EC-07-505

Legend <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 		<ul style="list-style-type: none"> Watercourse Water body Woodland (not verified by survey) 		<ul style="list-style-type: none"> Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted 		Population size class assessment: Adder: Common Lizard: Grass Snake: Slow Worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
Map Number EC-07-505-R1		HS2 <small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		Scale at A3: 1:10,000 					
Map Name Reptiles		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		Date: 09/08/21					
Community Area MA02: Wimboldsley to Lostock Gralam		Doc Number: 2DE01-MWJ-EV-MAP-M000-003037-P01		Date: 09/08/21					



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-506

Map Name: Reptiles

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

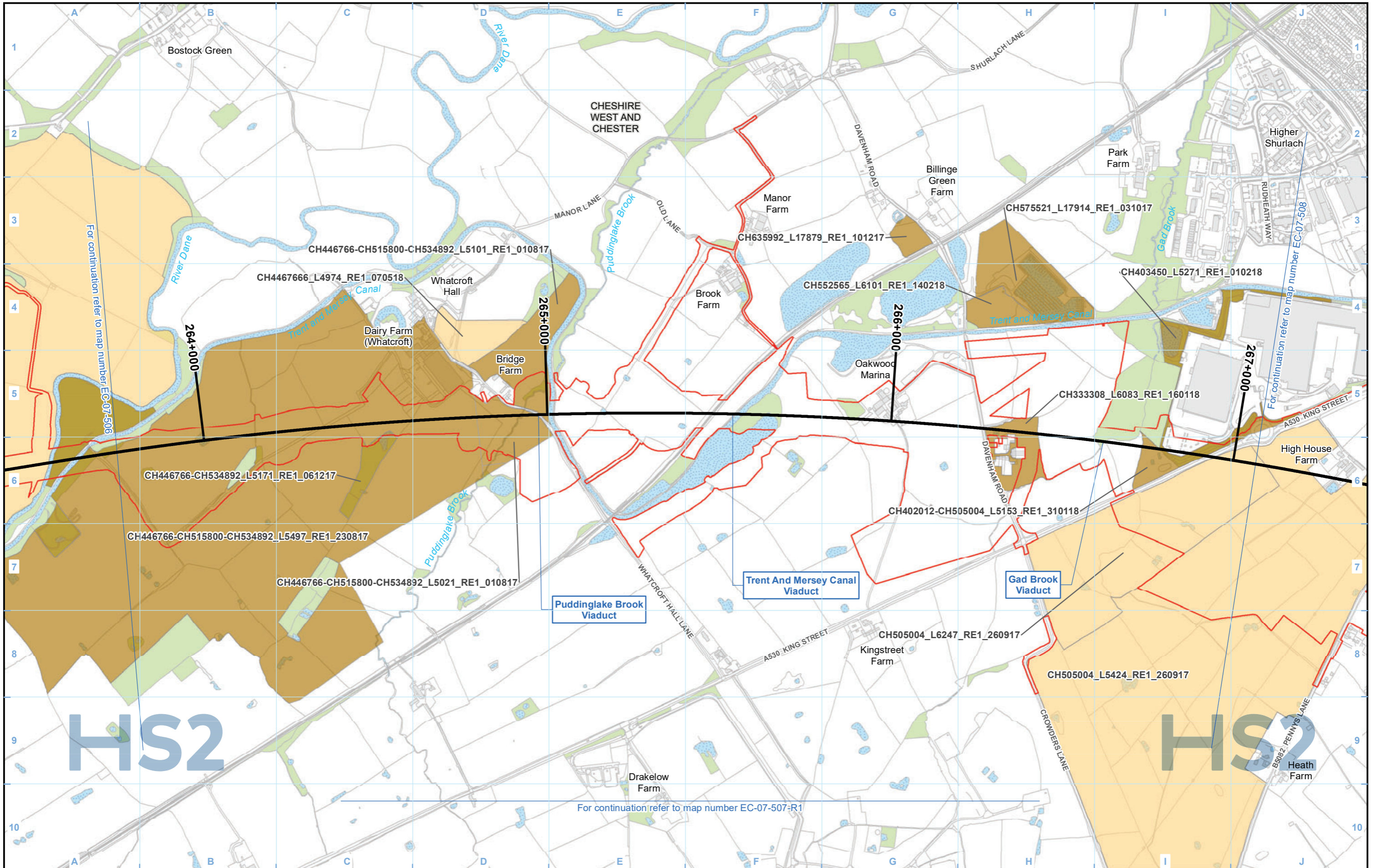
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001118-P01

Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-507**

Map Name: **Reptiles**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

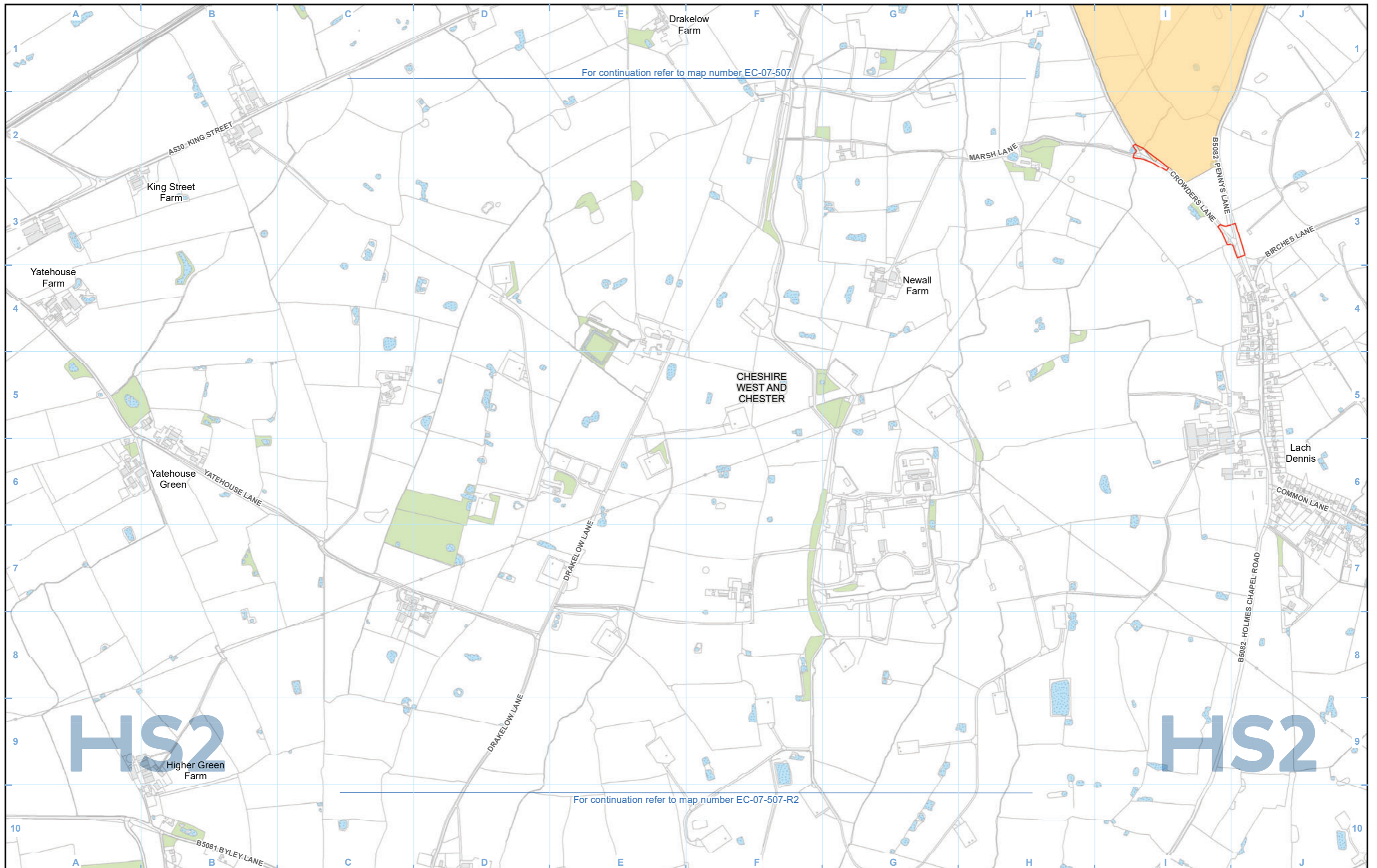
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Date: 09/08/21



For continuation refer to map number EC-07-507

For continuation refer to map number EC-07-507-R2

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common Lizard: Grass Snake: Slow Worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
Map Number EC-07-507-R1				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190			
Map Name Reptiles		Scale at A3: 1:10,000 					
Community Area MA02: Wimboldsley to Lostock Gralam		Doc Number: 2DE01-MWJ-EV-MAP-M000-003038-P01		Date: 09/08/21			

For continuation refer to map number EC-07-507-R1



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-507-R2**

Map Name: **Reptiles**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

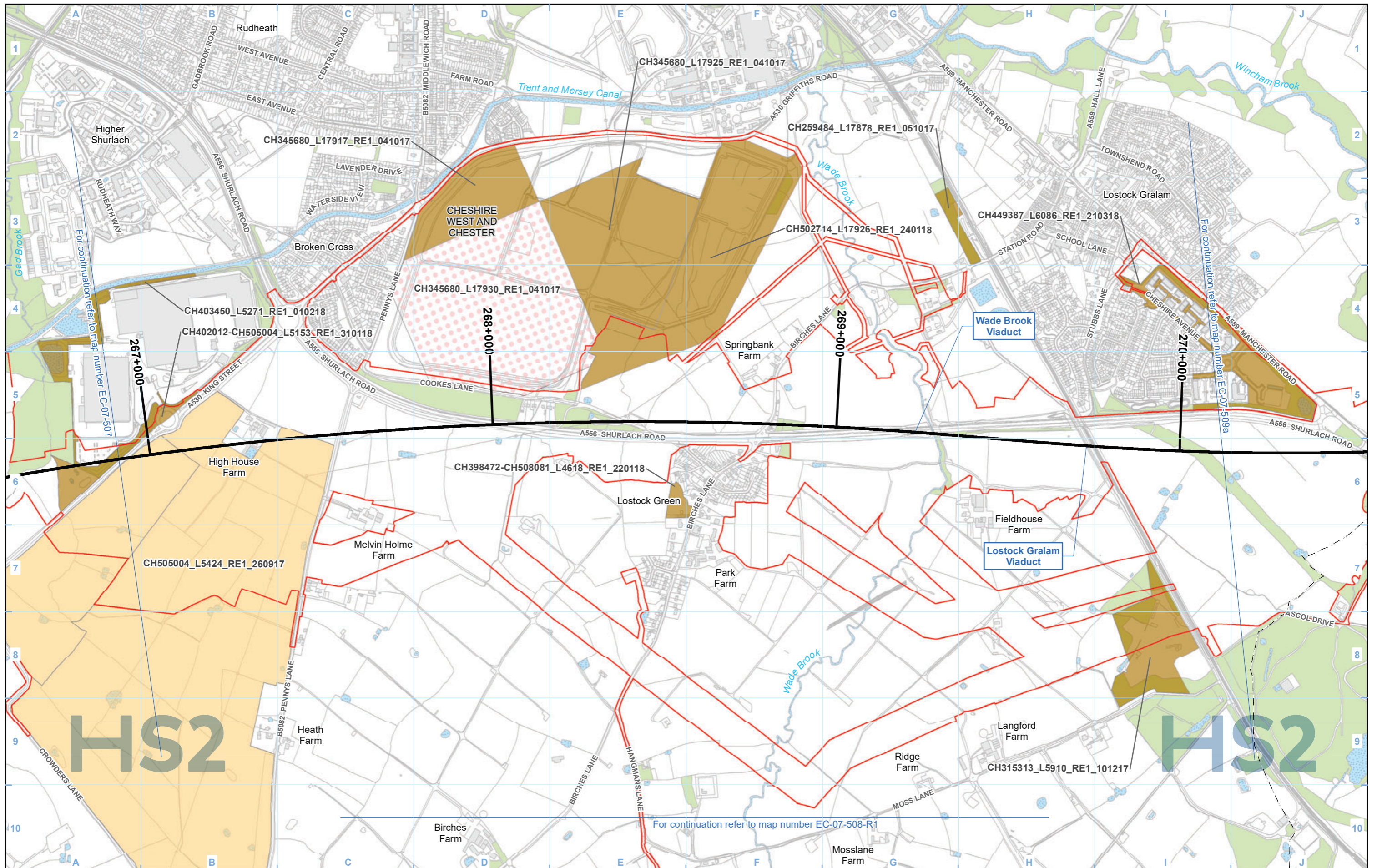
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Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-508**

Map Name: **Reptiles**

Community Area MA02:
Wimboldsley to Lostock Gralam

HS2

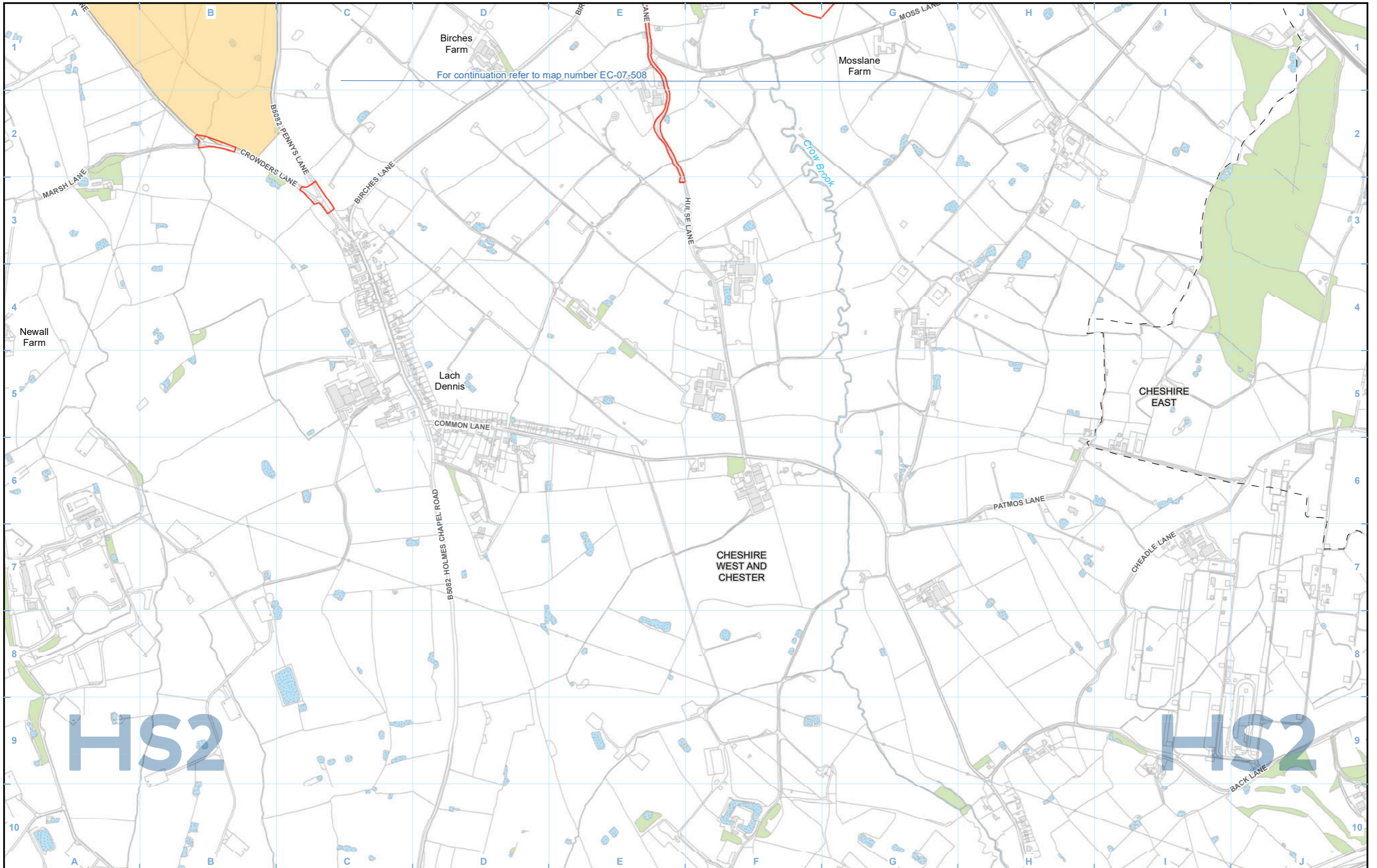
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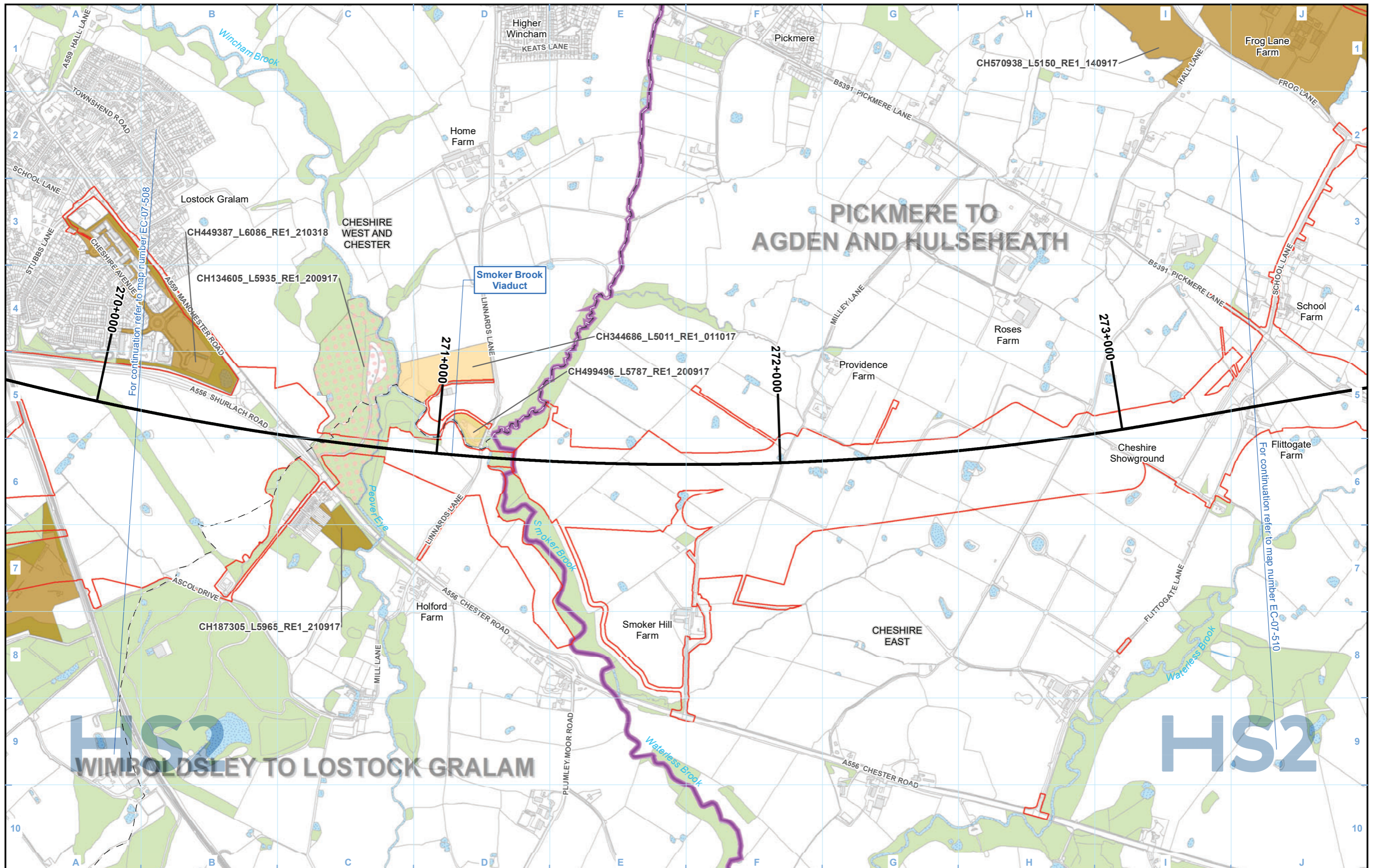
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Date: 09/08/21



For continuation refer to map number EC-07-508

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common Lizard: Grass Snake: Slow Worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
Map Number EC-07-508-R1				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2020 OS 100049190					
Map Name Reptiles		Scale at A3: 1:10,000 		Doc Number: 2DE01-MWJ-EV-MAP-M000-003039-P01 Date: 09/08/21					
Community Area MA02: Wimboldsley to Lostock Gralam									



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common Lizard:	Grass Snake:	Slow Worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-509a

Map Name: Reptiles

Community Area MA02:
Wimboldsley to Lostock Gralam

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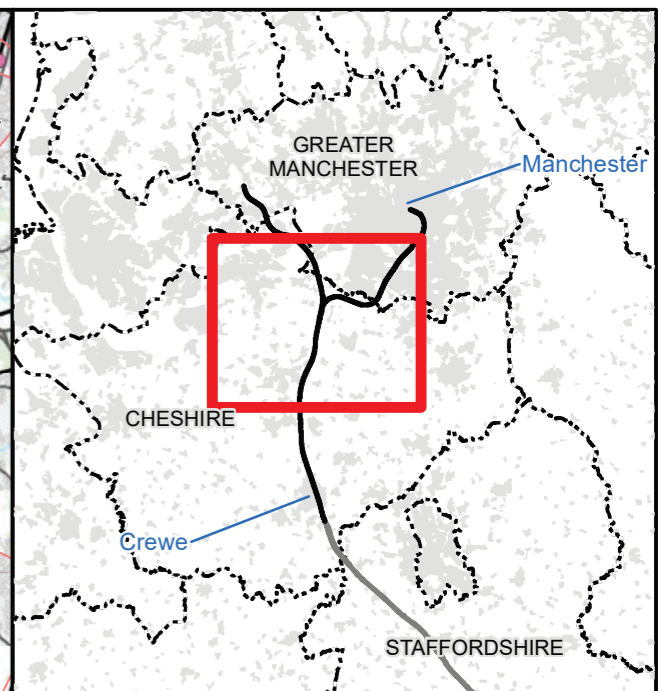
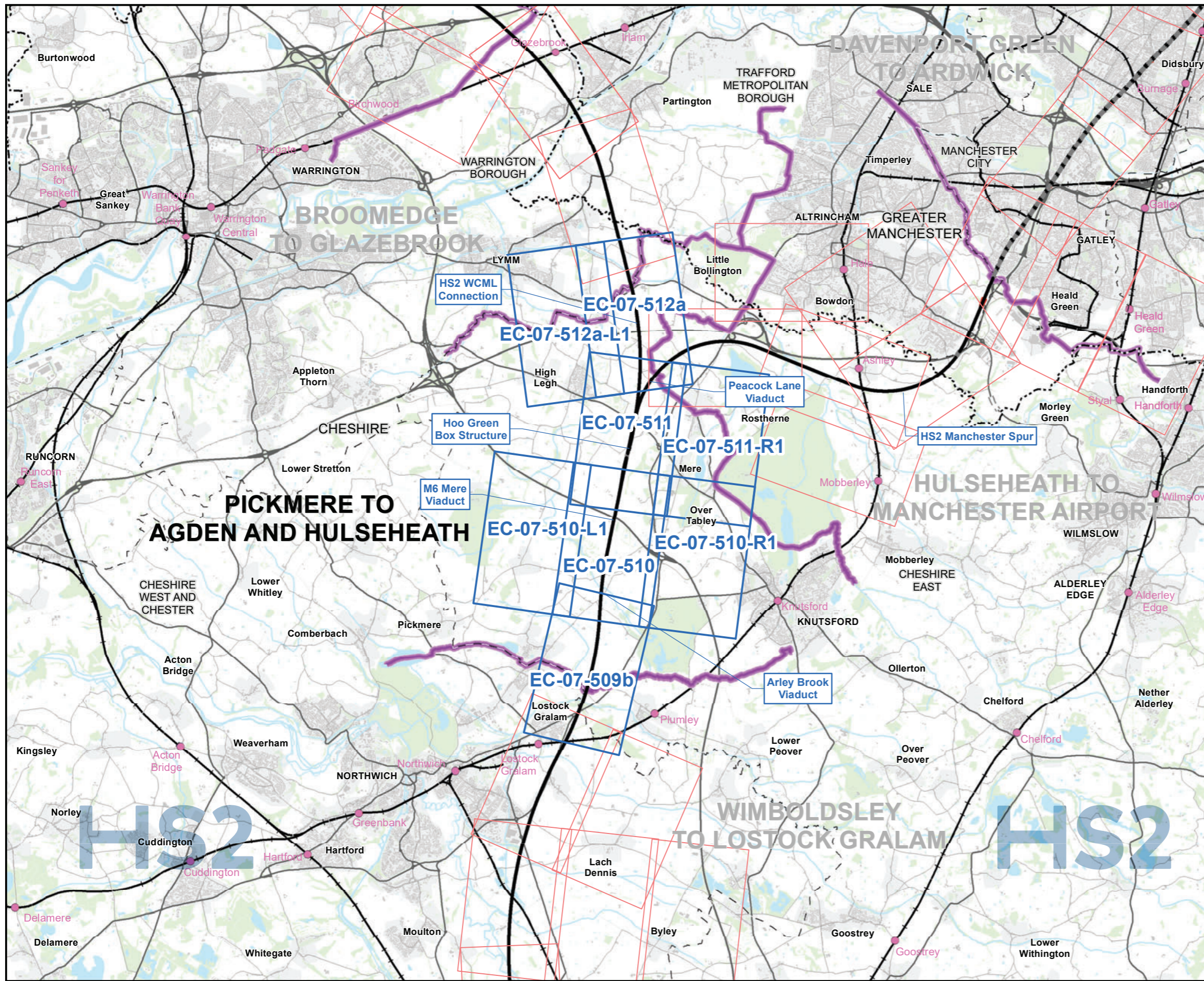
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Date: 09/08/21

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Map Series Information:

This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number EC-07-INDEX-MA03

Map Name
**Index Map of:
Reptiles**

Community Area MA03:
Pickmere to Agden and Hulseheath

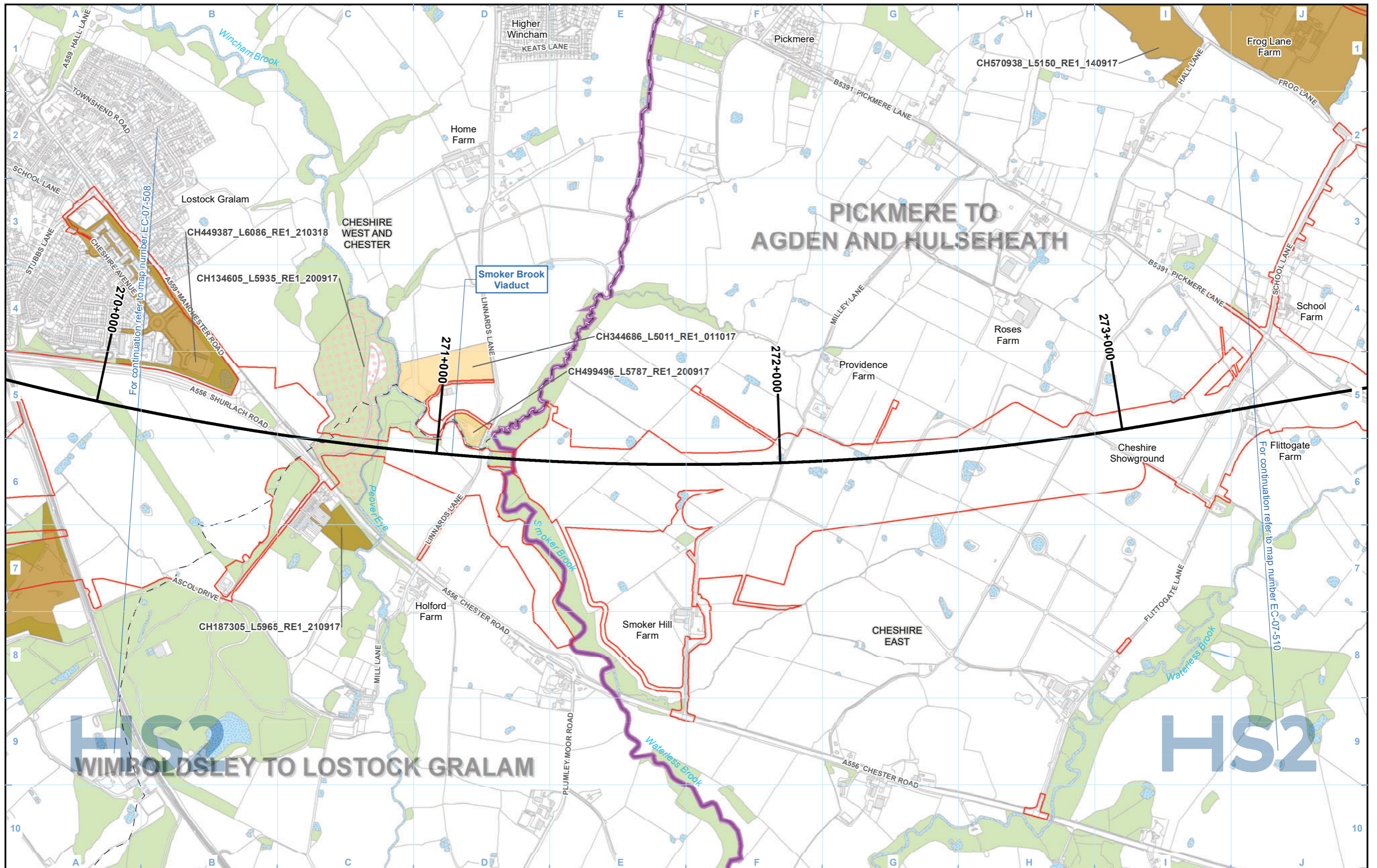
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Legend		Population size class survey - visits completed		Population size class assessment:			
	Route in tunnel		Watercourse		Water body		Woodland (not verified by survey)
	Route on surface		Reptiles assumed present as surveys not completed		Presence/absence survey conducted - reptiles assumed absent		Scoping visit only - scoped out
	Depot, station, headhouse or portal building		Scoping visit conducted - habitat suitable but no further survey conducted		Adder: A High, A Medium, A Low, A Absent		Common Lizard: CL High, CL Medium, CL Low, CL Absent
	Land potentially required during construction		Community area boundary		Grass Snake: GS High, GS Medium, GS Low, GS Absent		Slow Worm: SW High, SW Medium, SW Low, SW Absent
	County boundary		District/Borough boundary				

Map Number	EC-07-509b
Map Name	Reptiles
Community Area MA03: Pickmere to Agden and Hulseheath	

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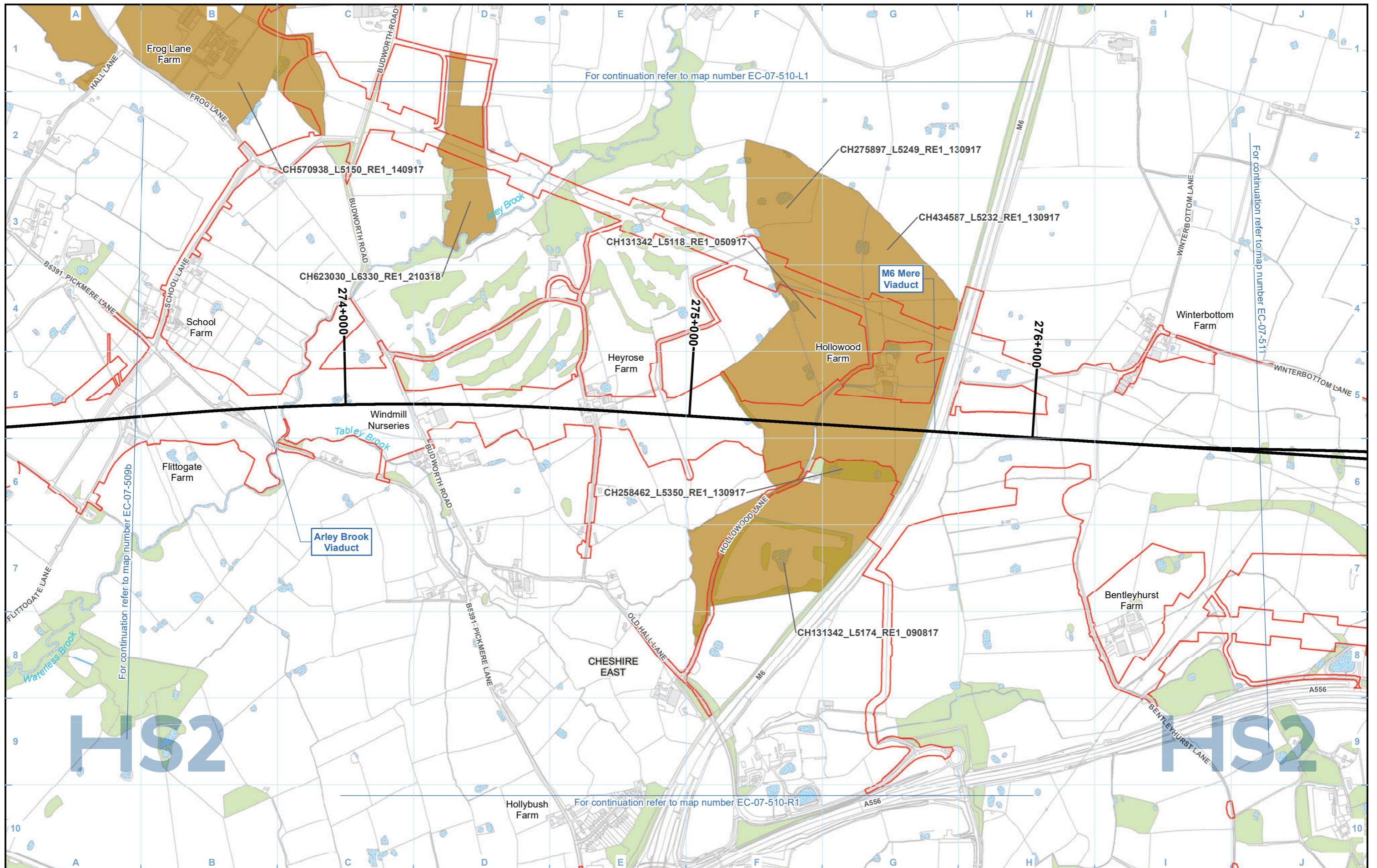
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For continuation refer to map number EC-07-510-L1

For continuation refer to map number EC-07-511

For continuation refer to map number EC-07-510-R1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-510

Map Name: Reptiles

Community Area MA03:
Pickmere to Agden and Hulseath

HS2

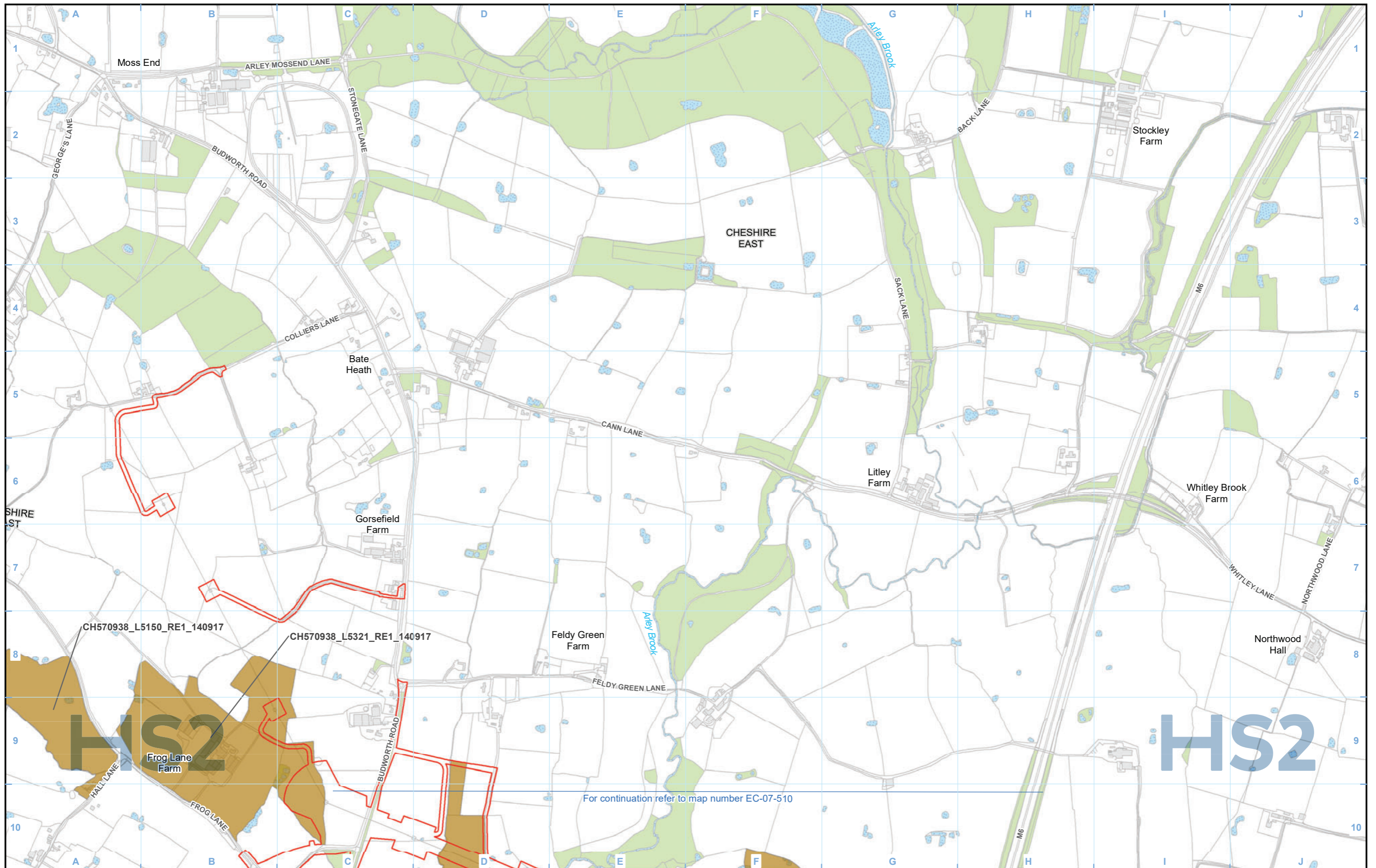
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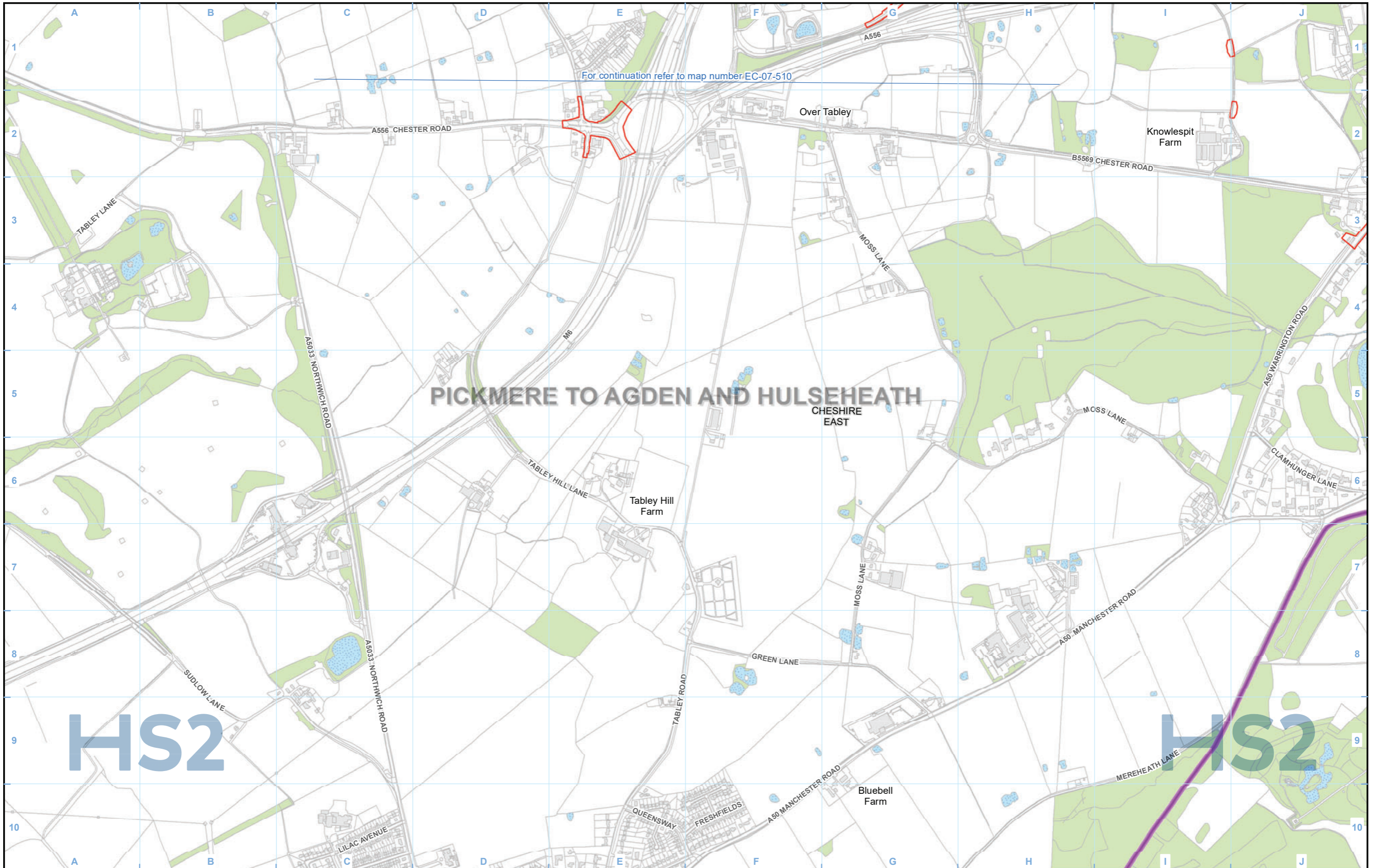
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Date: 09/08/21



For continuation refer to map number EC-07-510

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common Lizard: Grass Snake: Slow Worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
Map Number EC-07-510-L1				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA. © Crown copyright and database rights 2020 OS 100049190 Doc Number: 2DE01-MWJ-EV-MAP-M000-003040-P01 Date: 09/08/21					
Map Name Reptiles		Scale at A3: 1:10,000 							
Community Area MA03: Pickmere to Agden and Hulseheath									



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

Reptiles assumed present as surveys not completed

Presence/absence survey conducted - reptiles assumed absent

Scoping visit only - scoped out

Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-510-R1

Map Name: Reptiles

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

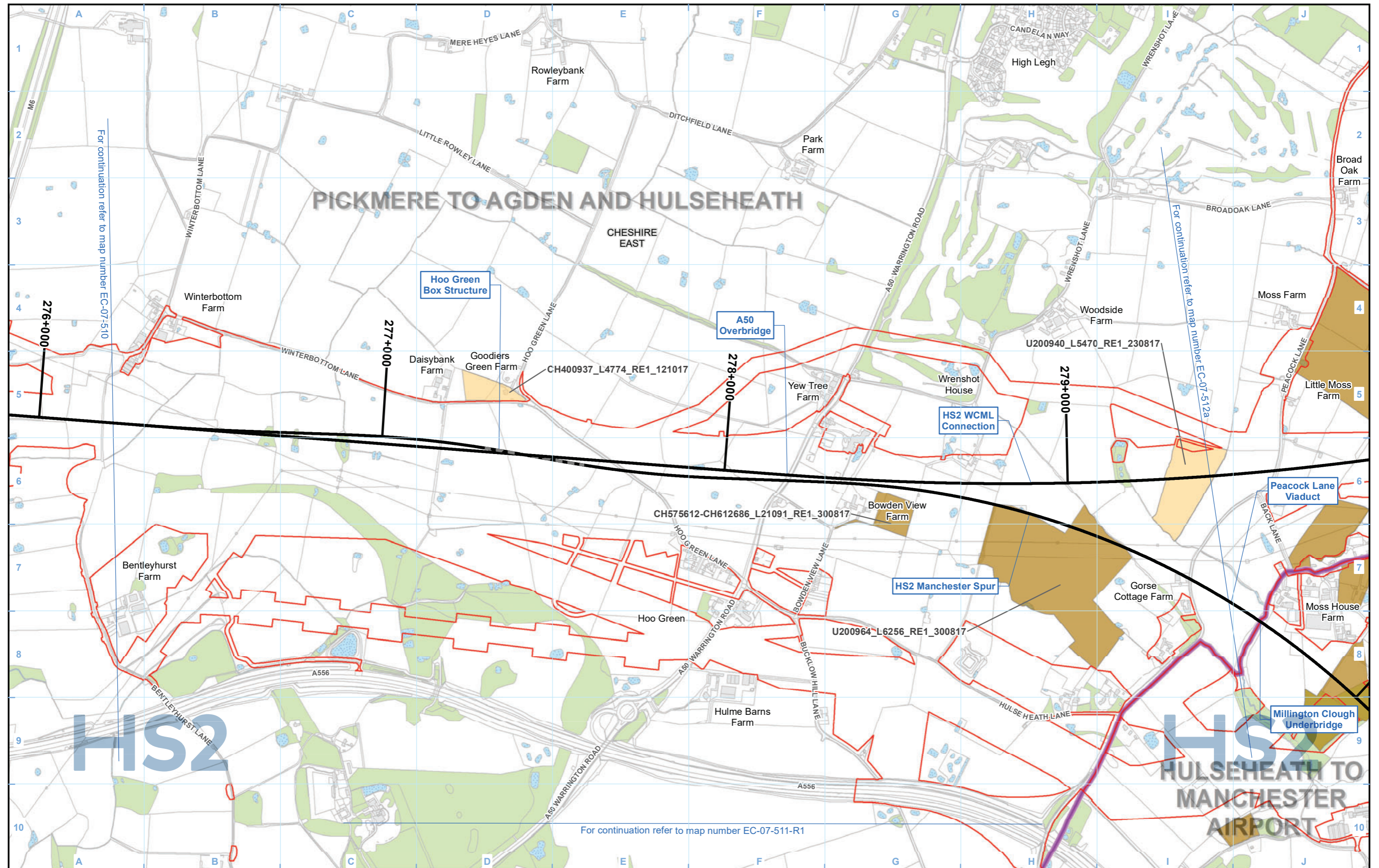
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003041-P01

Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number	EC-07-511
Map Name	Reptiles
Community Area MA03: Pickmere to Agden and Hulseheath	

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Registered office: 2 Snowhill, Queensway,
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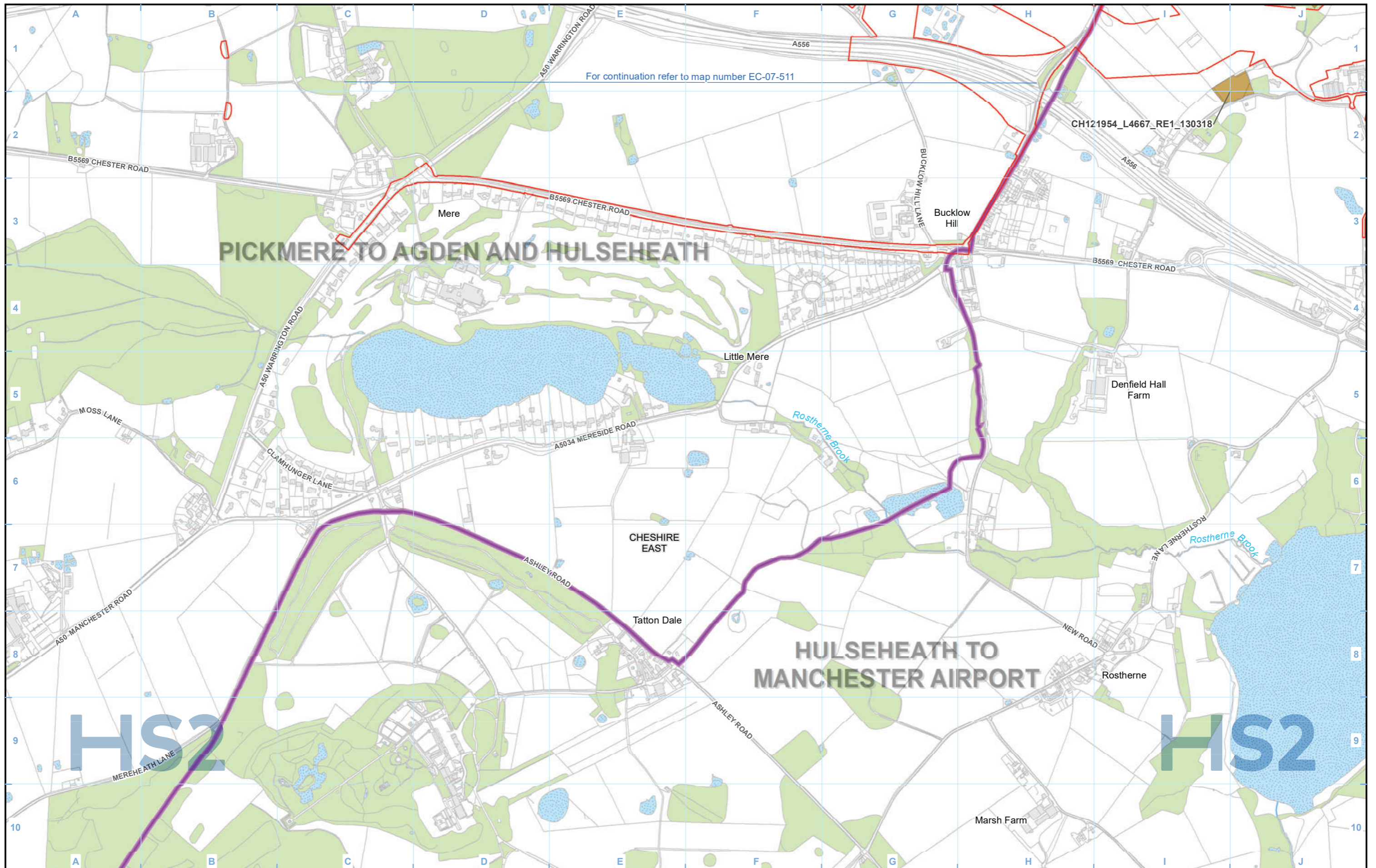
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For continuation refer to map number EC-07-511

CH121954_L4667_RE1_130318

PICKMERE TO AGDEN AND HULSEHEATH

HULSEHEATH TO MANCHESTER AIRPORT

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-511-R1

Map Name: Reptiles

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

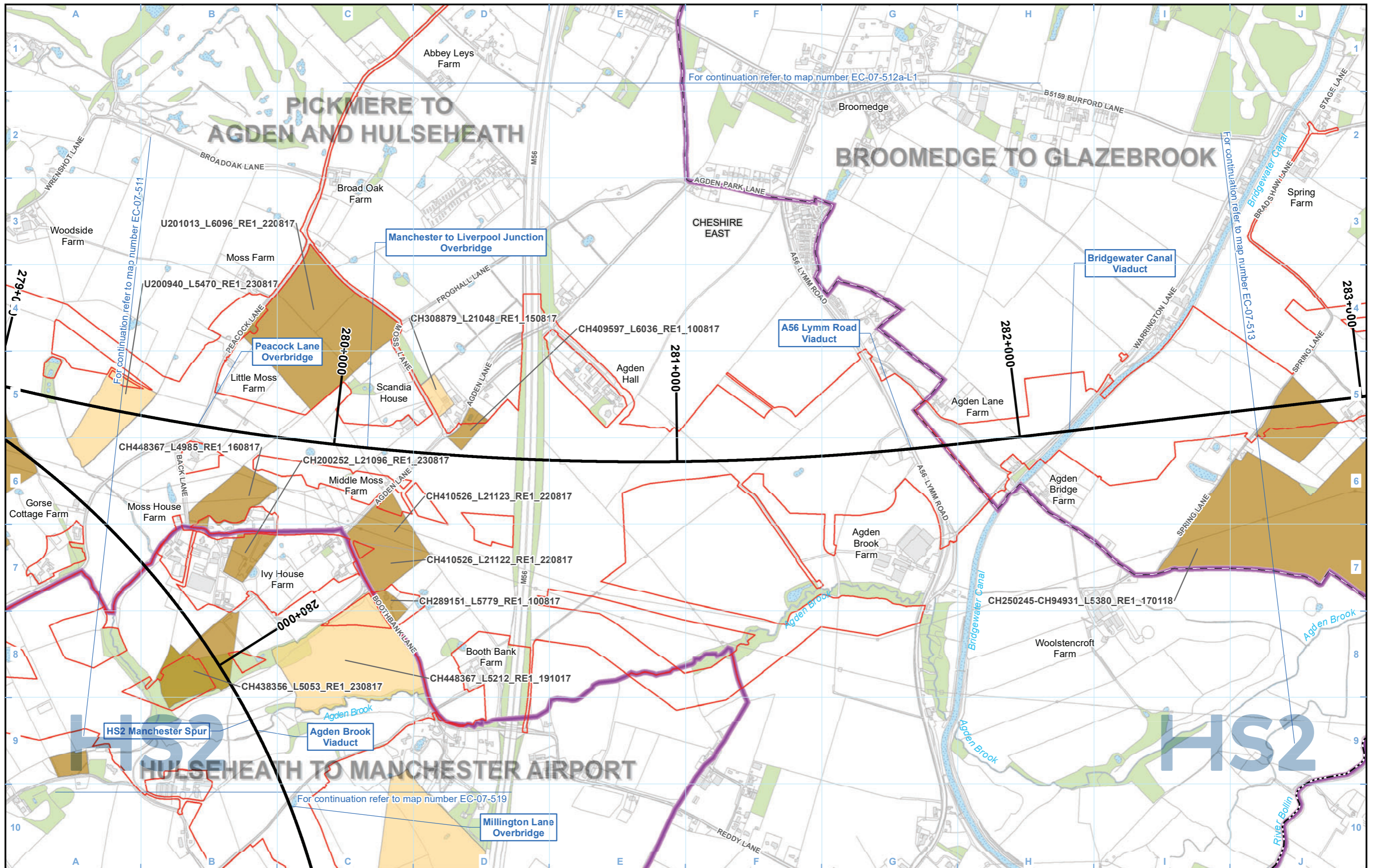
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Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-512a

Map Name: Reptiles

Community Area MA03:
Pickmere to Agden and Hulseheath

HS2

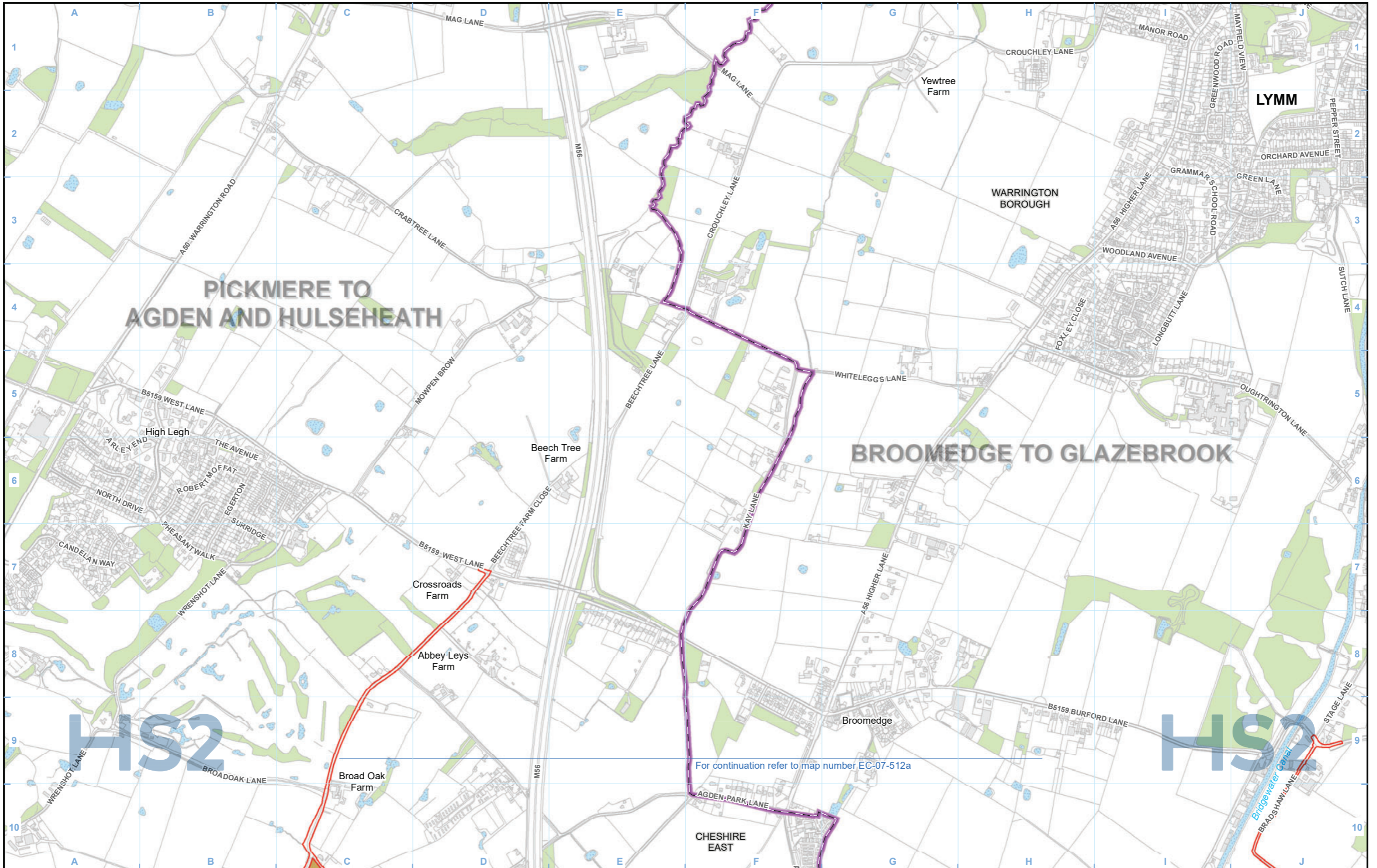
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Date: 09/08/21



For continuation refer to map number EC-07-512a

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)

- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-512a-L1

Map Name: Reptiles

Community Area MA03:
Pickmere to Agden and Hulse Heath

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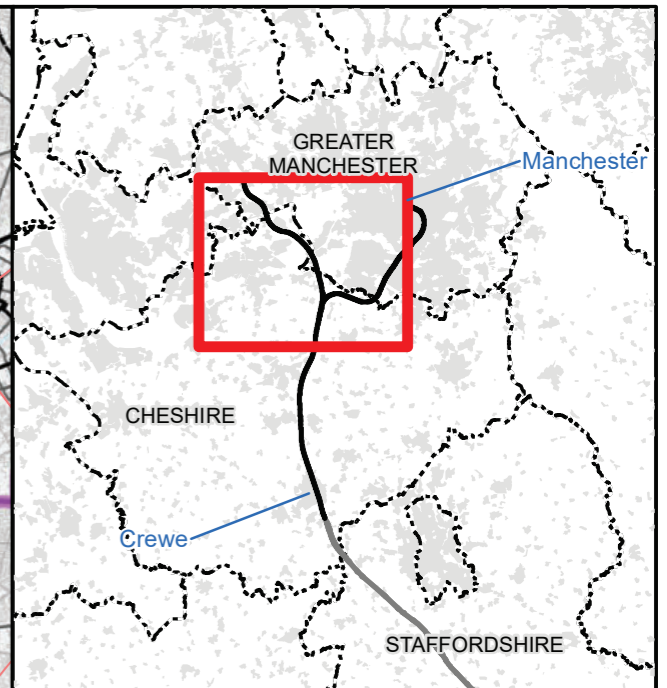
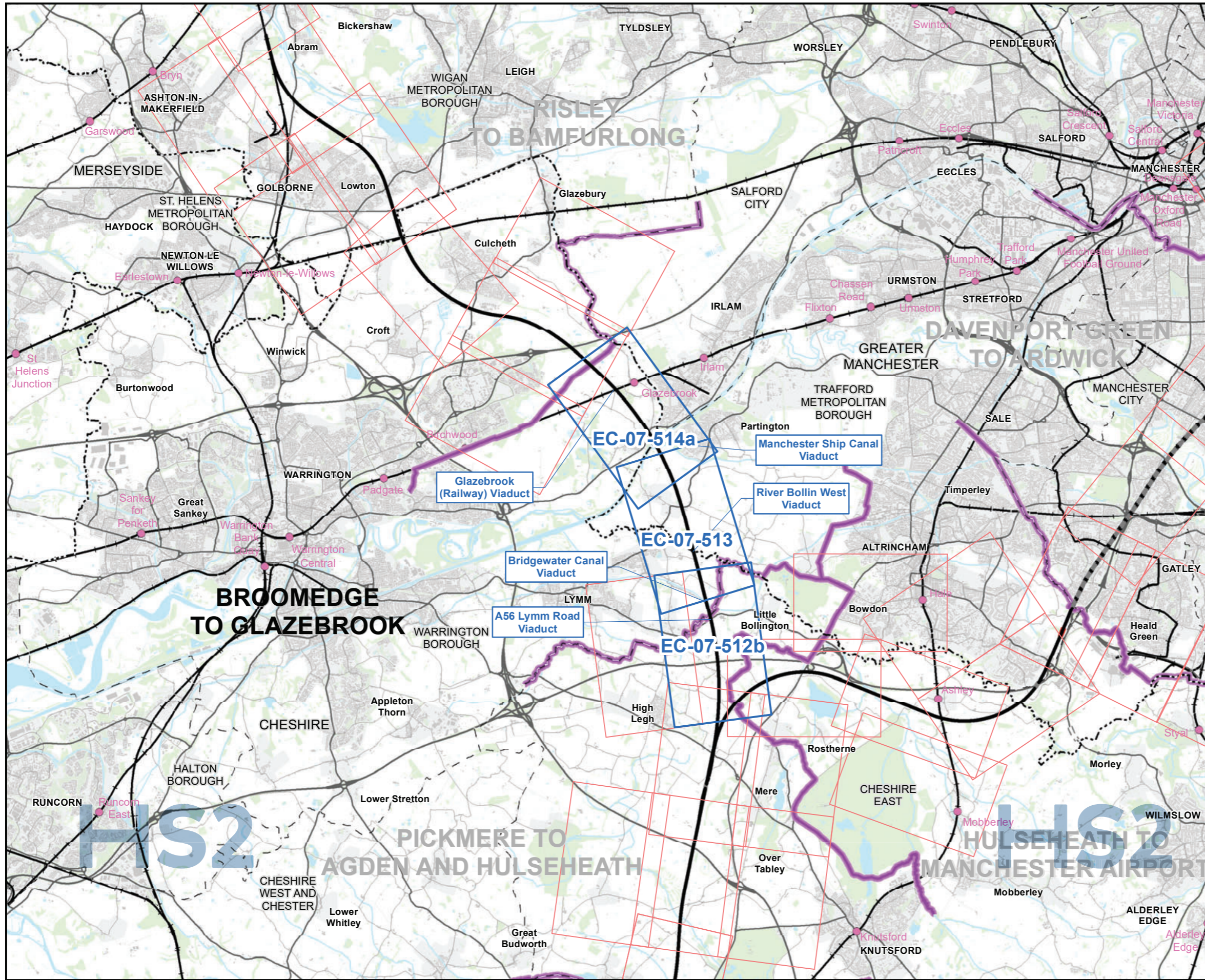
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003042-P01

Date: 09/08/21

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Map Series Information:

This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number EC-07-INDEX-MA04

Map Name
**Index Map of:
Reptiles**

Community Area MA04:
Broomedge to Glazebrook

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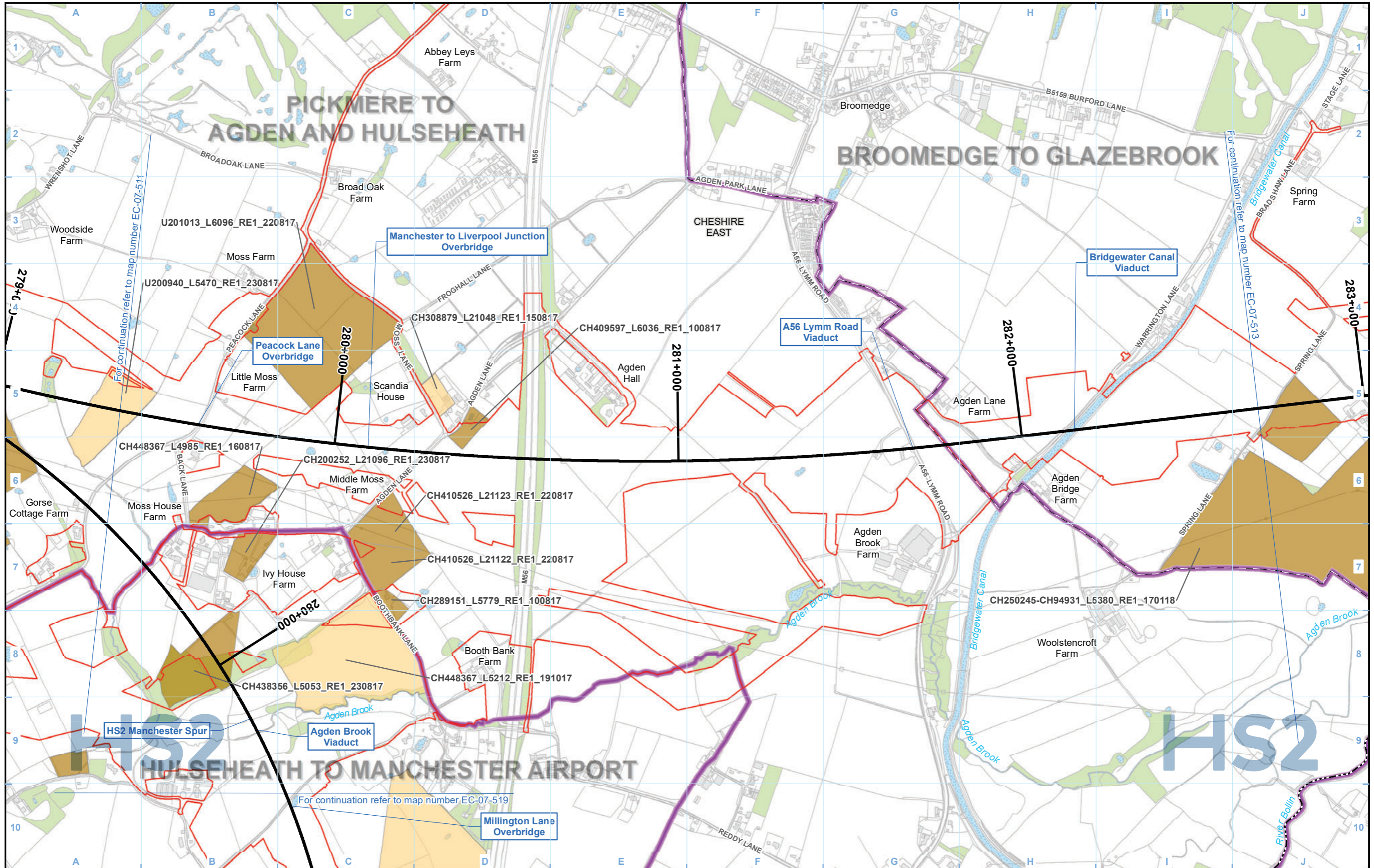
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001150-P01

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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-512b

Map Name: Reptiles

Community Area MA04:
Broomedge to Glazebrook

HS2

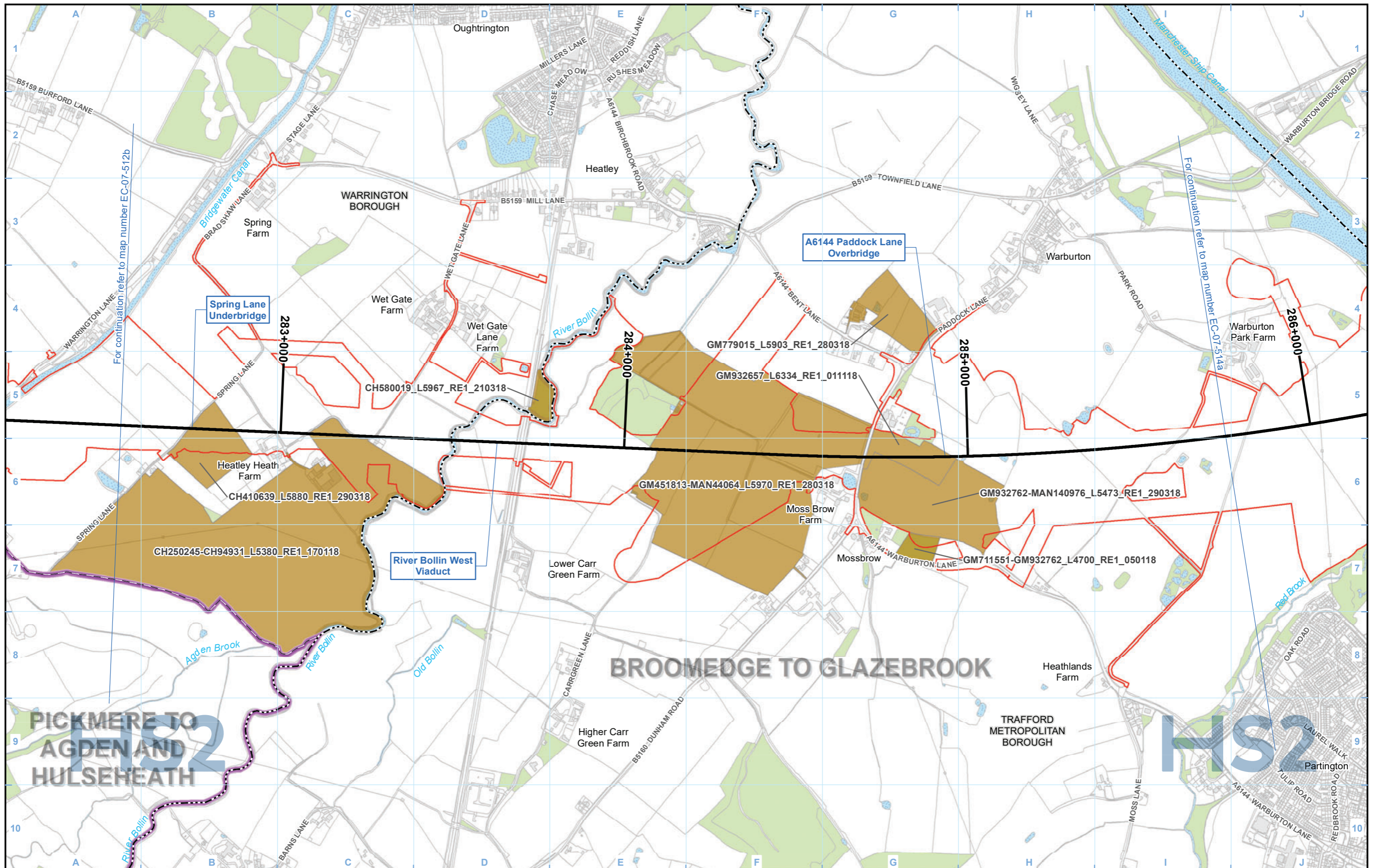
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Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-513

Map Name: Reptiles

Community Area MA04:
Broomedge to Glazebrook

HS2

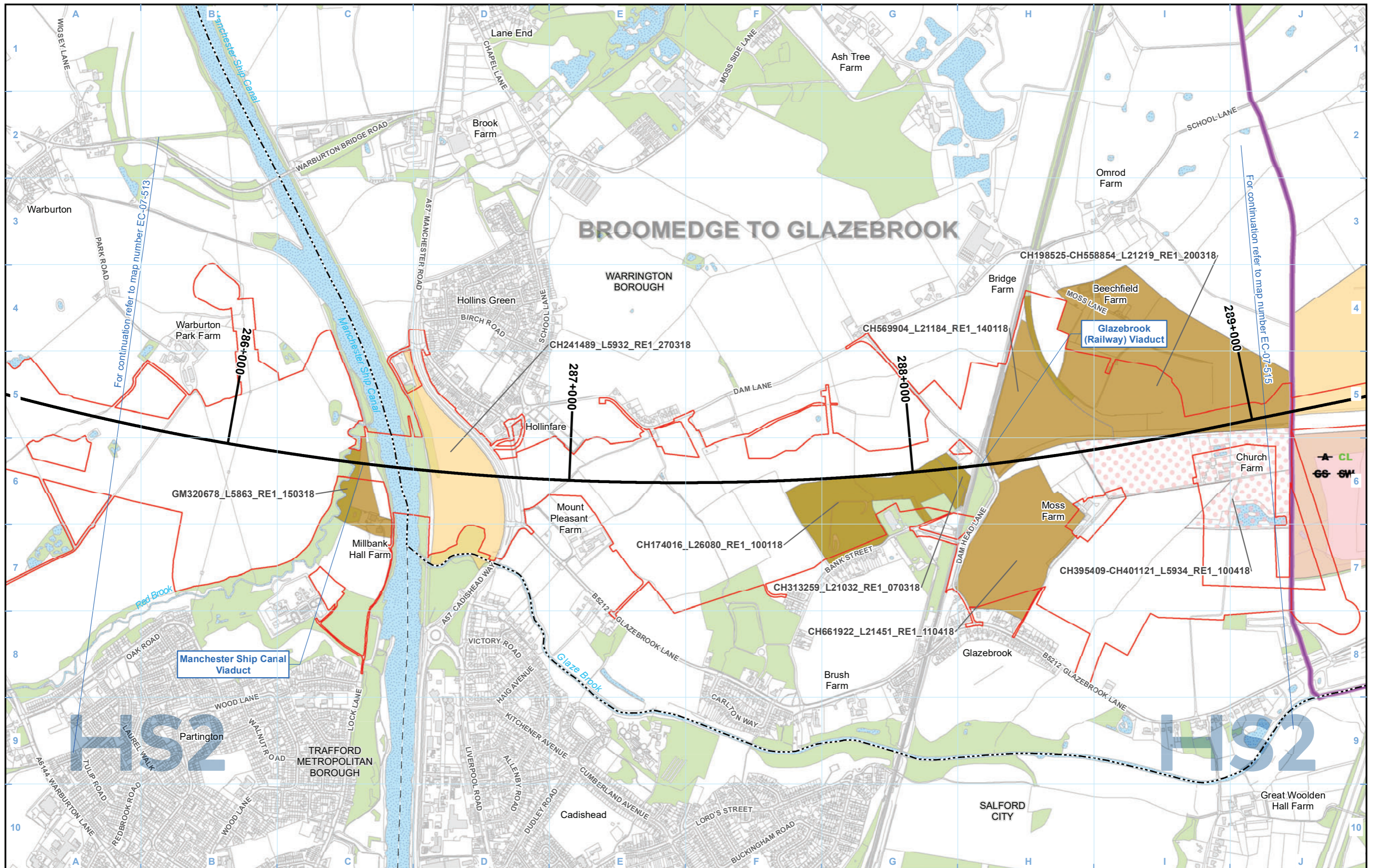
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-514a

Map Name: Reptiles

Community Area MA04: Broomedge to Glazebrook

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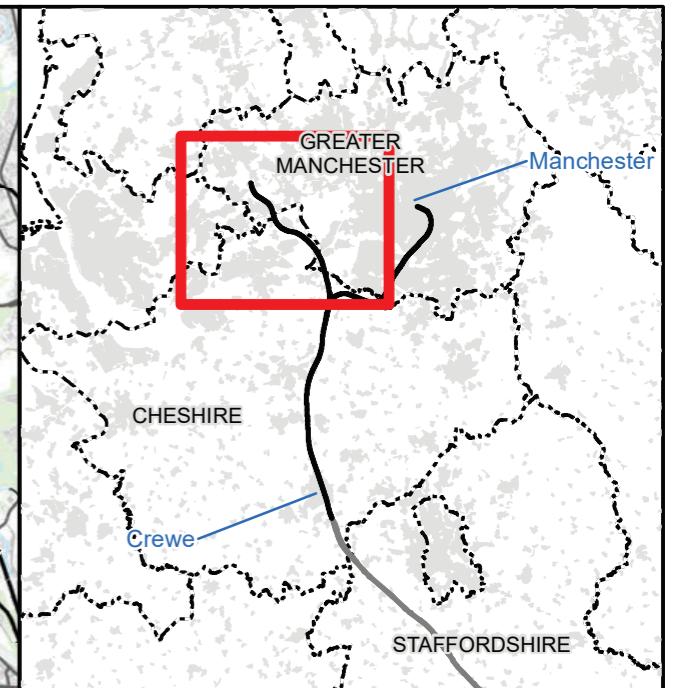
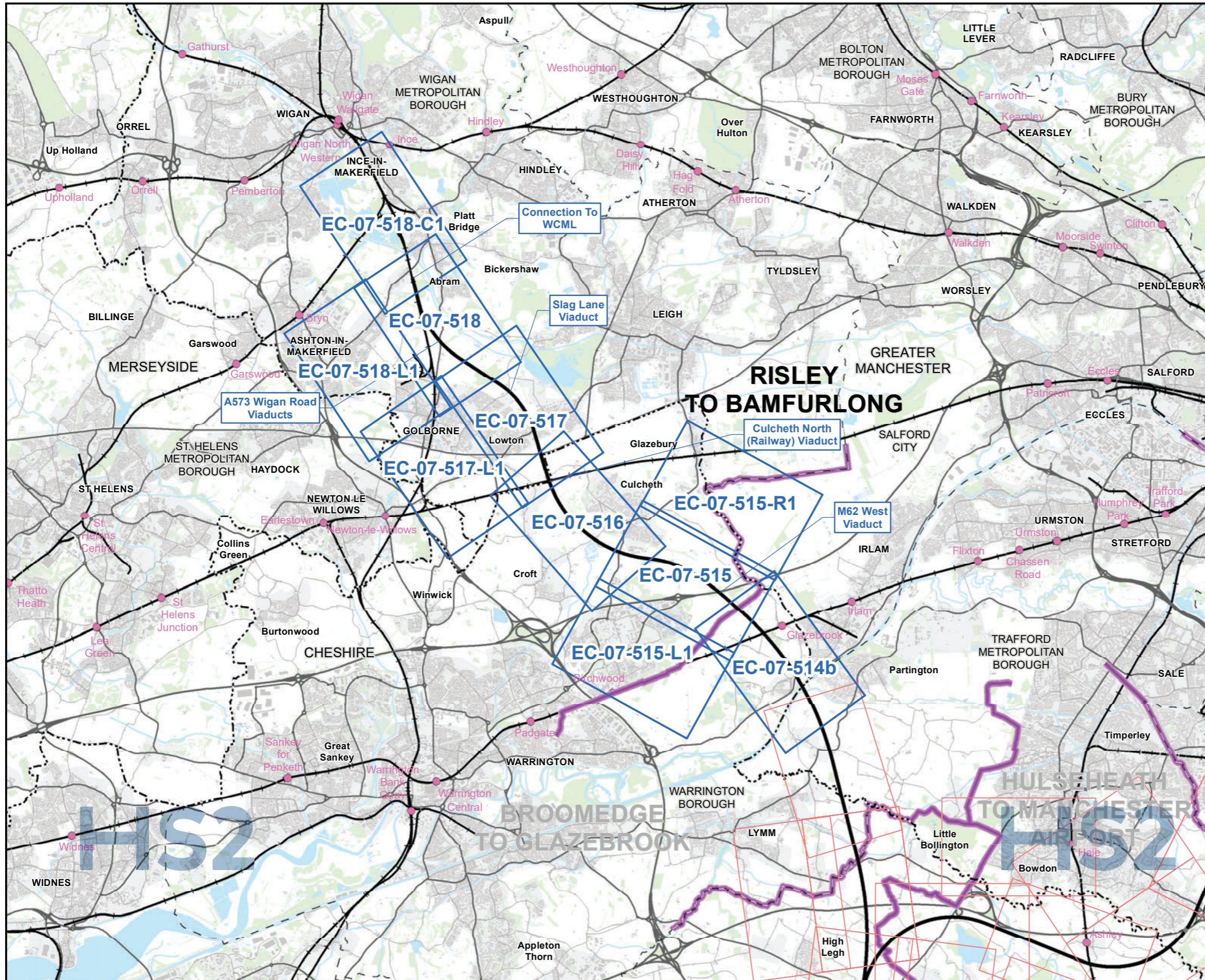
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Map Series Information:

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Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	EC-07-INDEX-MA05
Map Name	Index Map of: Reptiles
	Community Area MA05: Risley to Bamfurlong

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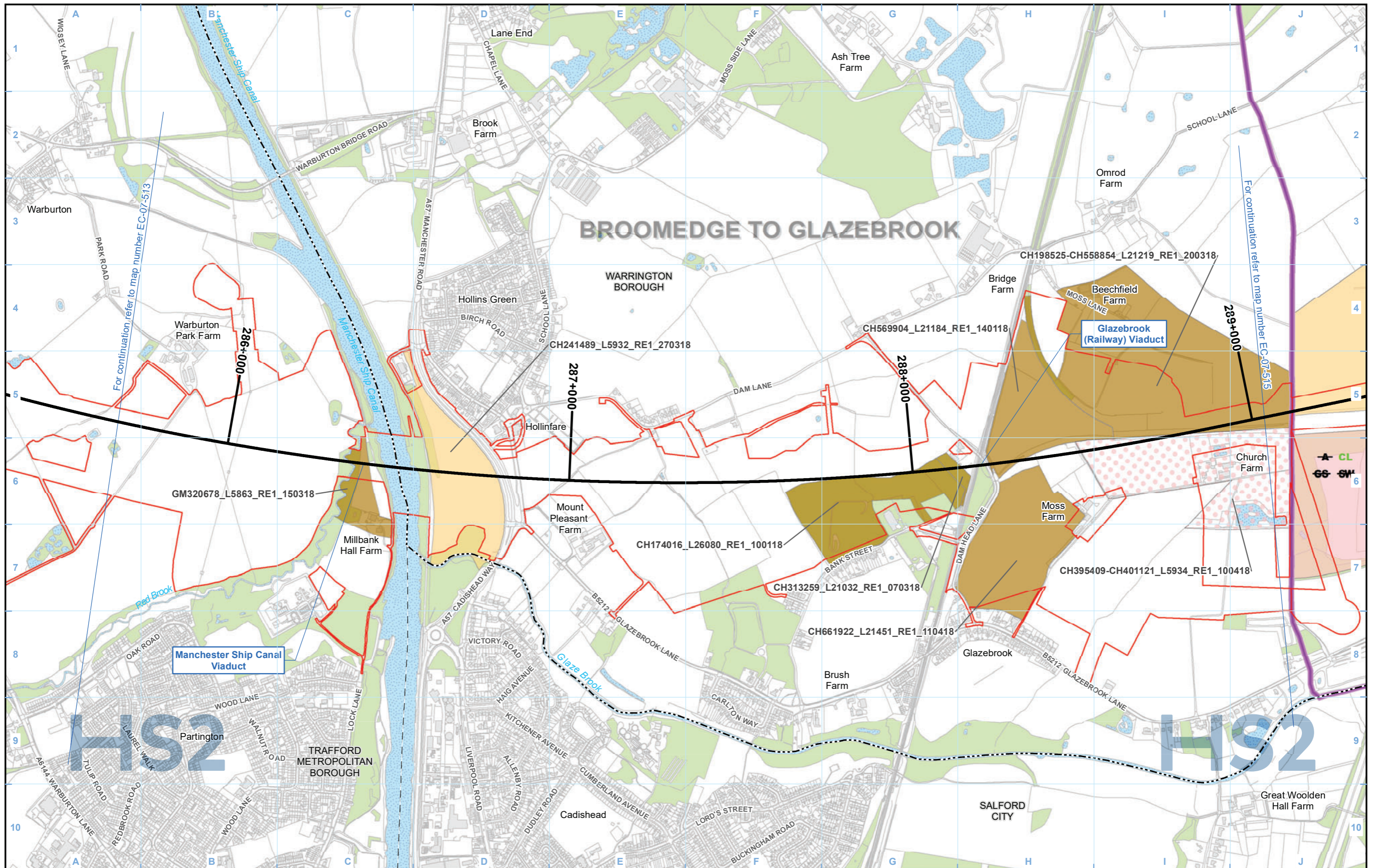
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Scale at A3: 1:100,000

Metres

Date: 09/08/21



Legend		Population size class survey - visits completed		Population size class assessment:			
	Route in tunnel		Population size class survey - visits completed	Adder:	Common Lizard:	Grass Snake:	Slow Worm:
	Route on surface		Reptiles assumed present as surveys not completed	A High	CL High	GS High	SW High
	Depot, station, headhouse or portal building		Presence/absence survey conducted - reptiles assumed absent	A Medium	CL Medium	GS Medium	SW Medium
	Land potentially required during construction		Scoping visit only - scoped out	A Low	CL Low	GS Low	SW Low
	Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Absent	CL Absent	GS Absent	SW Absent
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						

Map Number	EC-07-514b
Map Name	Reptiles
	Community Area MA05: Risley to Bamfurlong

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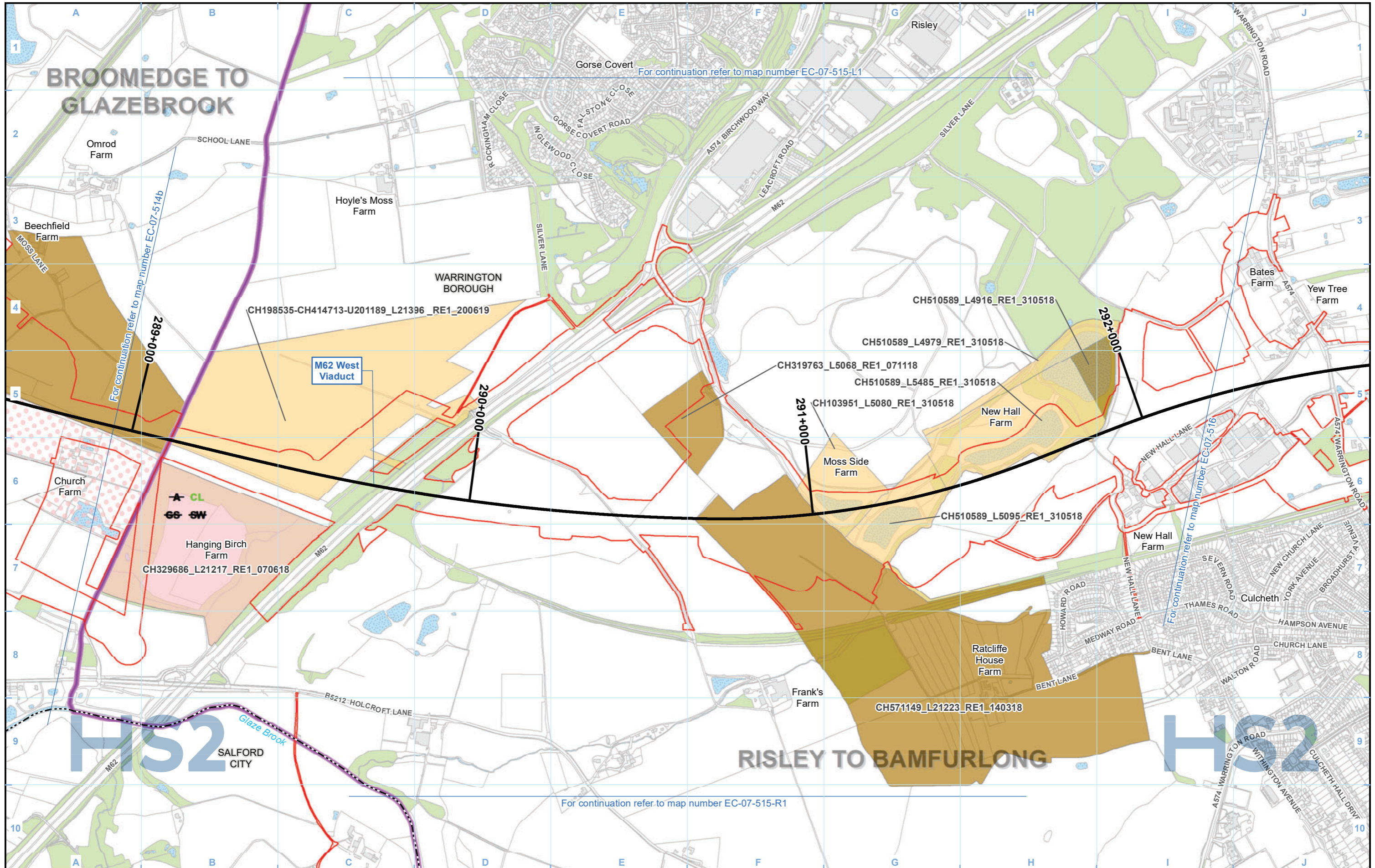
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Metres

Date: 09/08/21

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Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common Lizard:	Grass Snake:	Slow Worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-515

Map Name: Reptiles

Community Area MA05:
Risley to Bamfurlong

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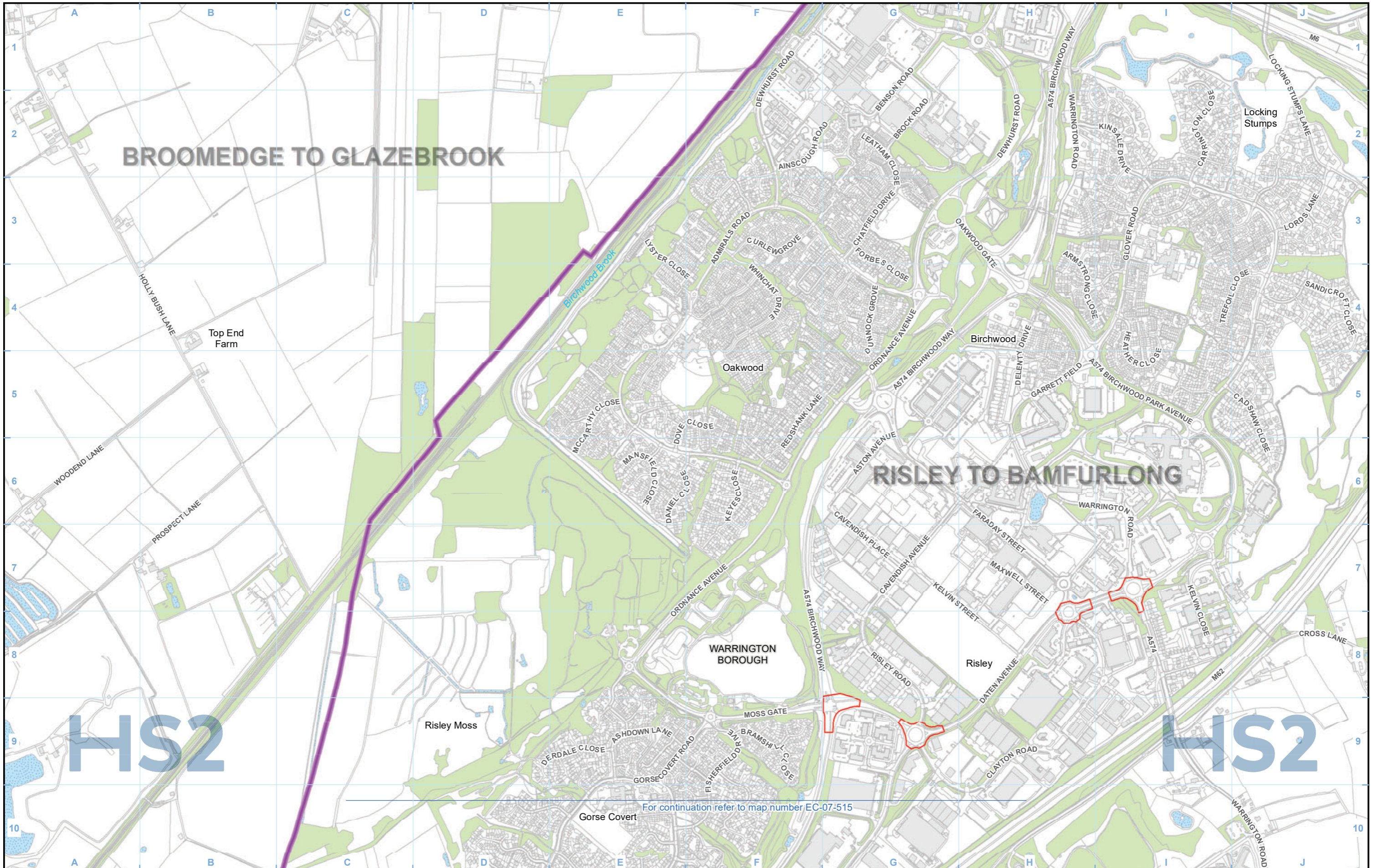
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Date: 09/08/21

BROOMEDGE TO GLAZEBROOK

RISLEY TO BAMFURLONG



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For continuation refer to map number EC-07-515

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-515-L1

Map Name: Reptiles

Community Area MA05:
Risley to Bamfurlong

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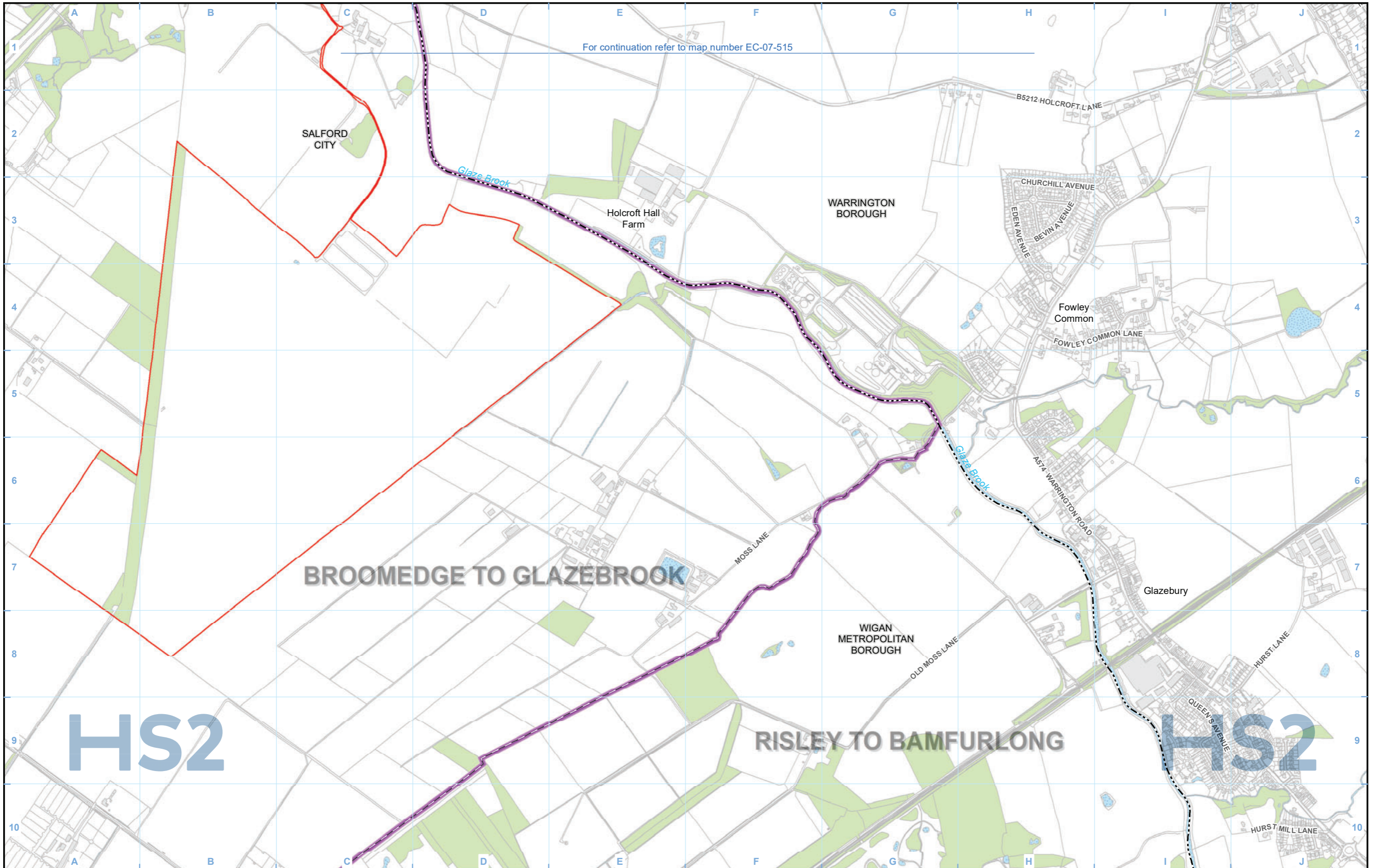
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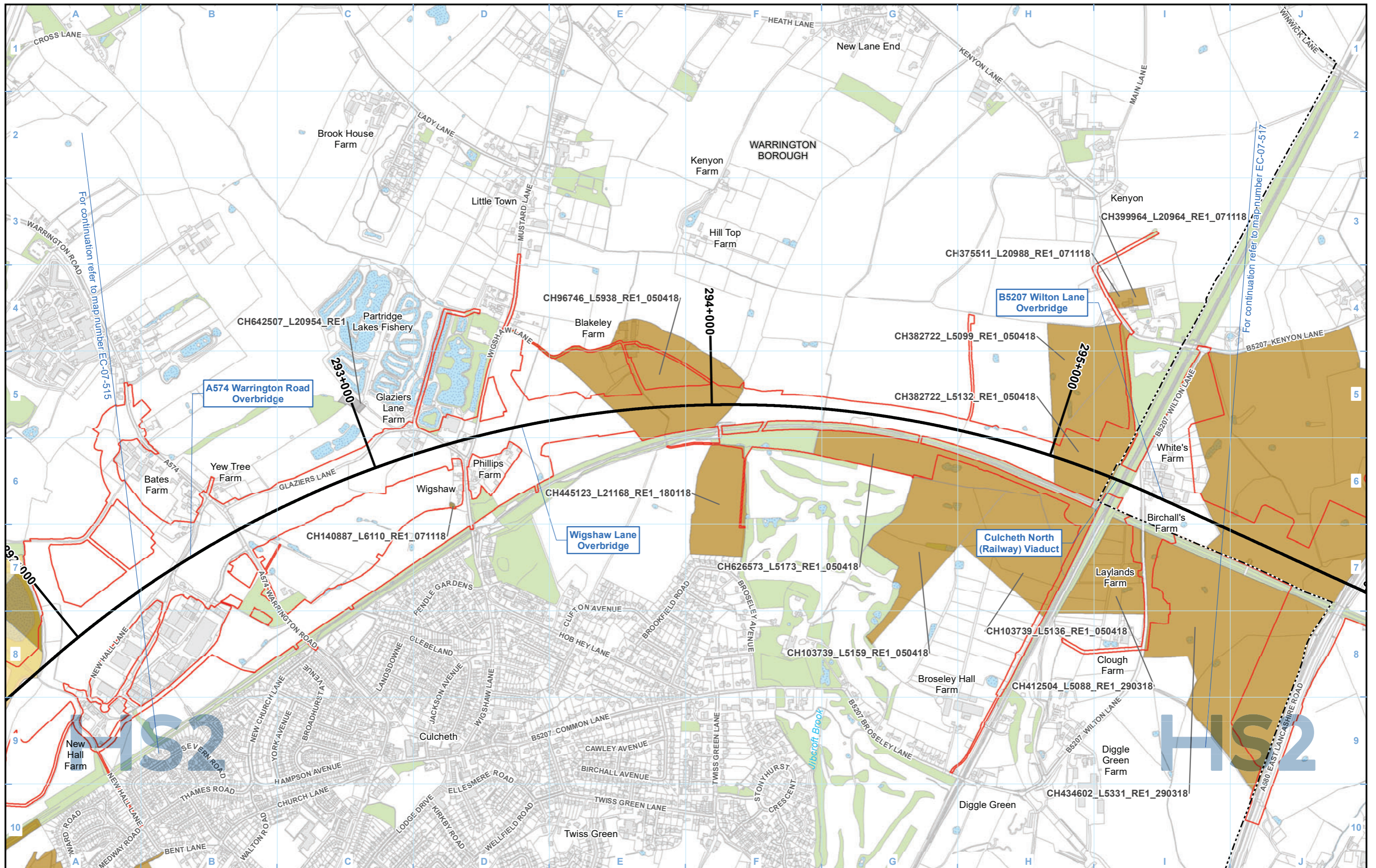
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Date: 09/08/21

For continuation refer to map number EC-07-515



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common Lizard: Grass Snake: Slow Worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
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Map Name Reptiles		Scale at A3: 1:10,000 		Community Area MA05: Risley to Bamfurlong					



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-516

Map Name: Reptiles

Community Area MA05:
Risley to Bamfurlong

HS2

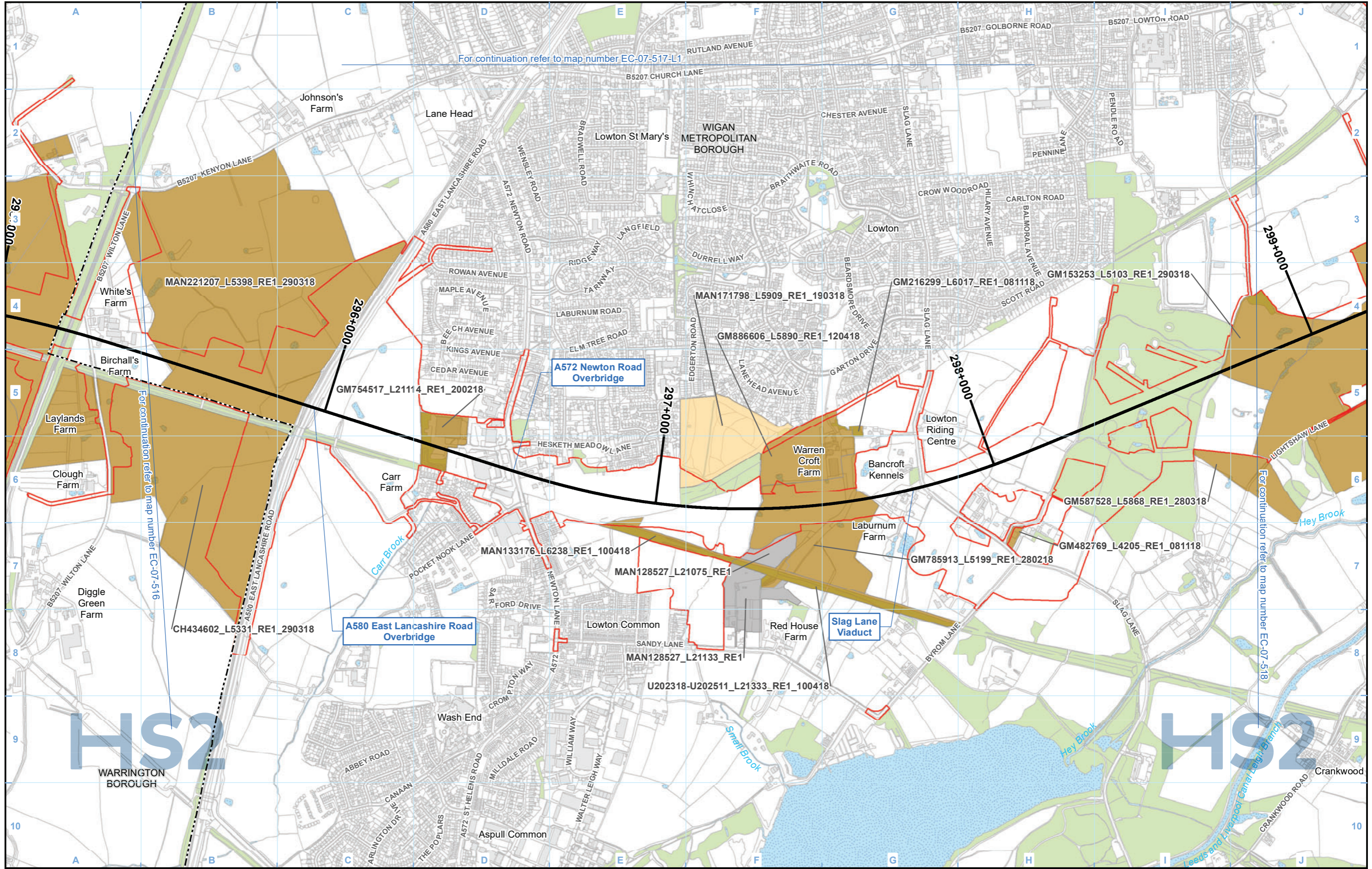
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For continuation refer to map number EC-07-517-L1

For continuation refer to map number EC-07-516

For continuation refer to map number EC-07-518

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Population size class survey - visits completed
 - Reptiles assumed present as surveys not completed
 - Presence/absence survey conducted - reptiles assumed absent
 - Scoping visit only - scoped out
 - Scoping visit conducted - habitat suitable but no further survey conducted

- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

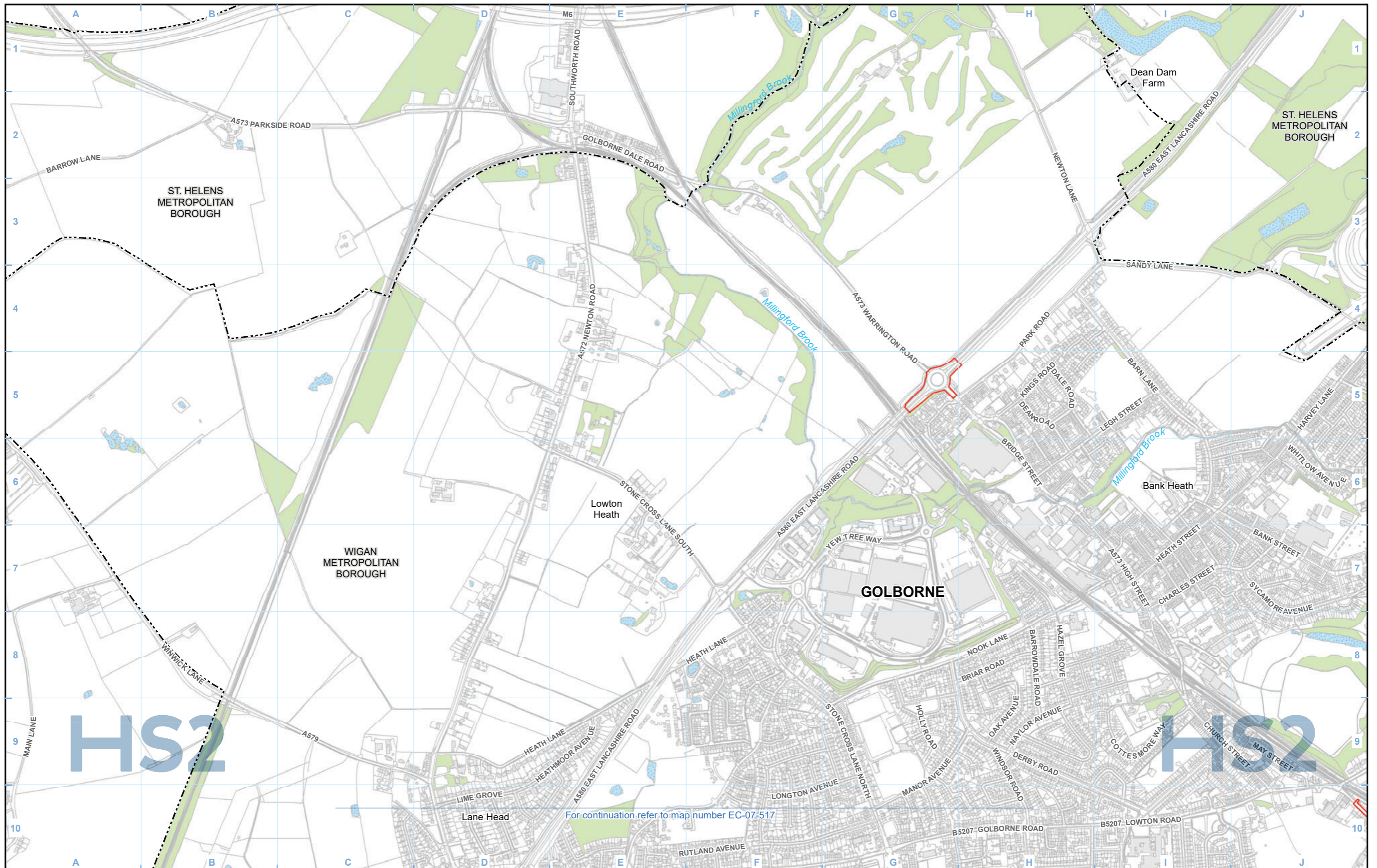
Map Number: EC-07-517
 Map Name: Reptiles
 Community Area MA05:
 Risley to Bamfurlong

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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-517-L1**

Map Name: **Reptiles**

Community Area MA05:
Risley to Bamfurlong

HS2

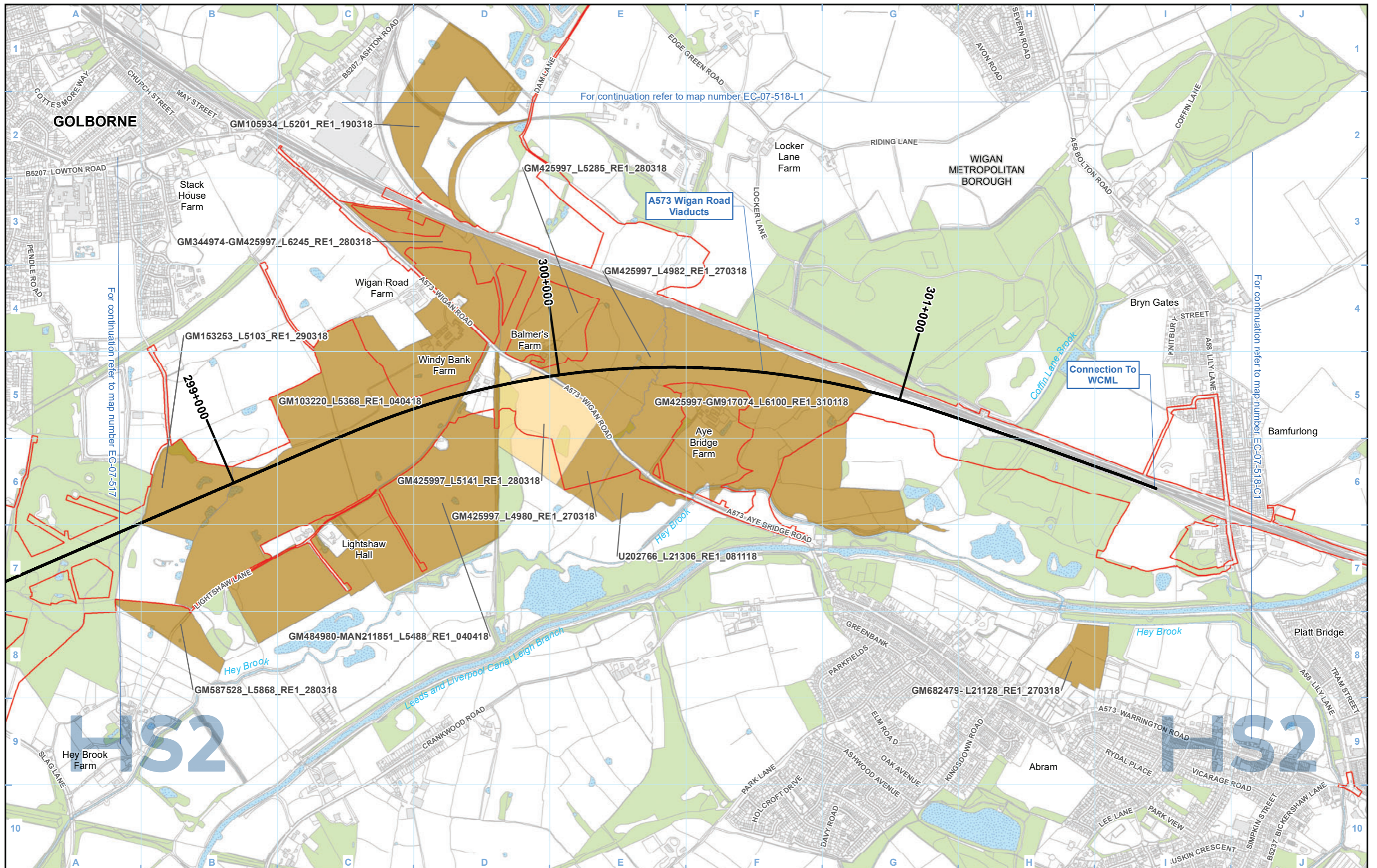
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

Reptiles assumed present as surveys not completed

Presence/absence survey conducted - reptiles assumed absent

Scoping visit only - scoped out

Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-518

Map Name: Reptiles

Community Area MA05: Risley to Bamfurlong

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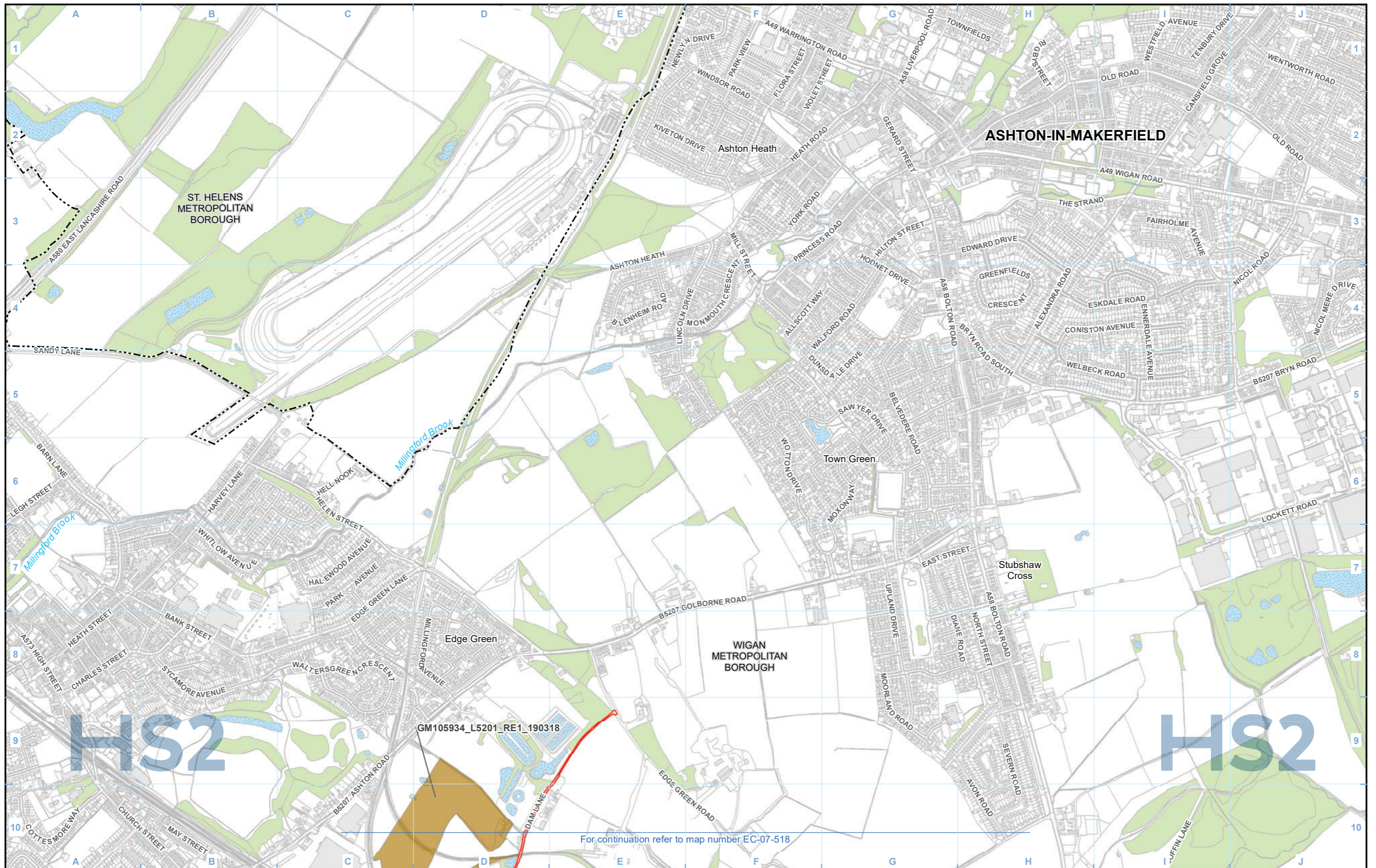
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Metres



For continuation refer to map number EC-07-518

Legend		Population size class survey - visits completed		Population size class assessment:			
	Route in tunnel		Population size class survey - visits completed	Adder:	Common Lizard:	Grass Snake:	Slow Worm:
	Route on surface		Reptiles assumed present as surveys not completed	A High	CL High	GS High	SW High
	Depot, station, headhouse or portal building		Presence/absence survey conducted - reptiles assumed absent	A Medium	CL Medium	GS Medium	SW Medium
	Land potentially required during construction		Scoping visit only - scoped out	A Low	CL Low	GS Low	SW Low
	Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Absent	CL Absent	GS Absent	SW Absent
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						

Map Number	EC-07-518-L1
Map Name	Reptiles
	Community Area MA05: Risley to Bamfurlong

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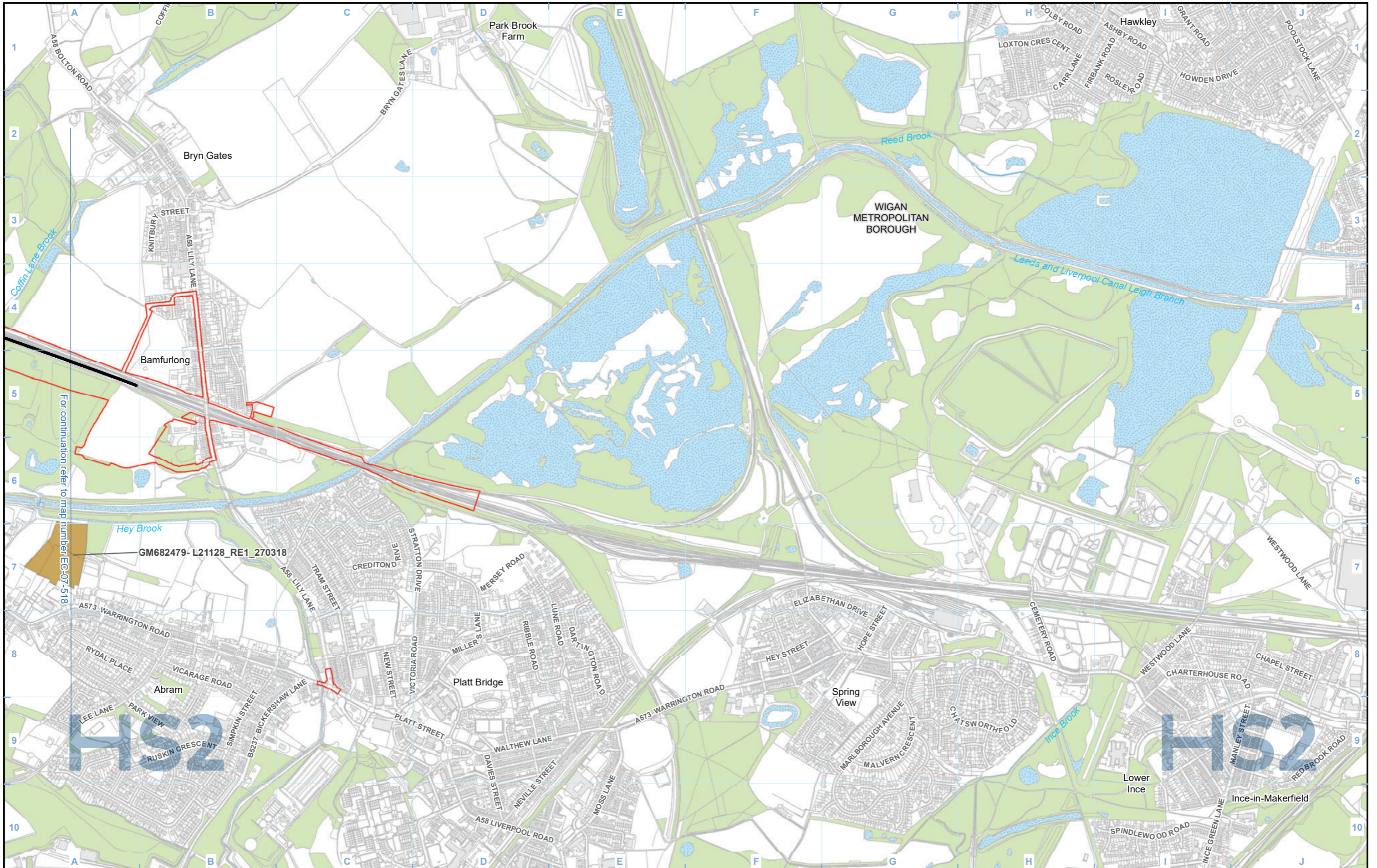
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-518-C1**

Map Name: **Reptiles**

Community Area MA05:
Risley to Bamfurlong

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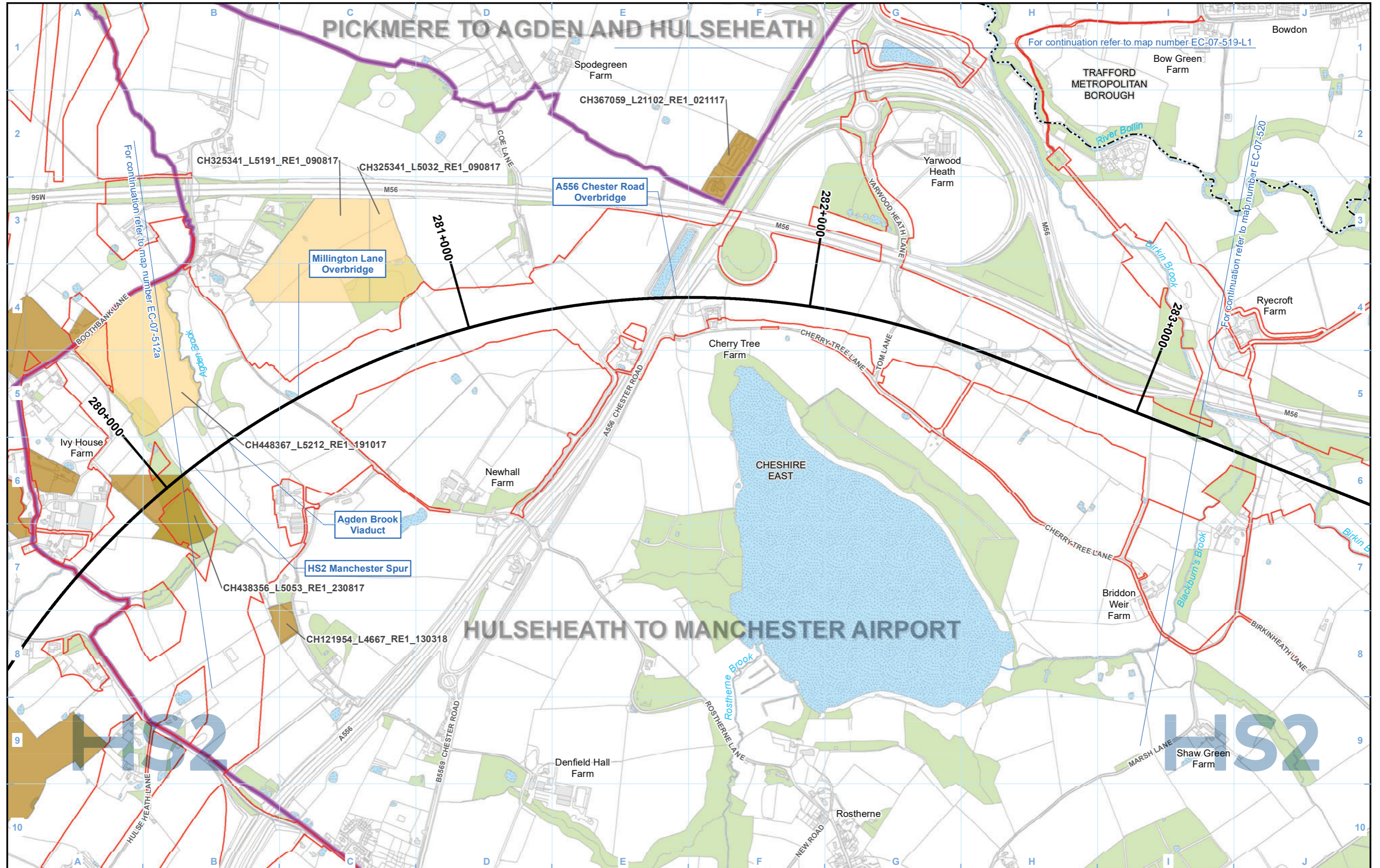
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003046-P01

Date: 09/08/21

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PICKMERE TO AGDEN AND HULSEHEATH



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Population size class survey - visits completed
 - Reptiles assumed present as surveys not completed
 - Presence/absence survey conducted - reptiles assumed absent
 - Scoping visit only - scoped out
 - Scoping visit conducted - habitat suitable but no further survey conducted

- Population size class assessment:**
- | | | | |
|-----------------|------------------|------------------|------------------|
| Adder: | Common Lizard: | Grass Snake: | Slow Worm: |
| A High | CL High | GS High | SW High |
| A Medium | CL Medium | GS Medium | SW Medium |
| A Low | CL Low | GS Low | SW Low |
| A Absent | CL Absent | GS Absent | SW Absent |

Map Number: EC-07-519
 Map Name: Reptiles
 Community Area MA06:
 Hulseheath to Manchester Airport

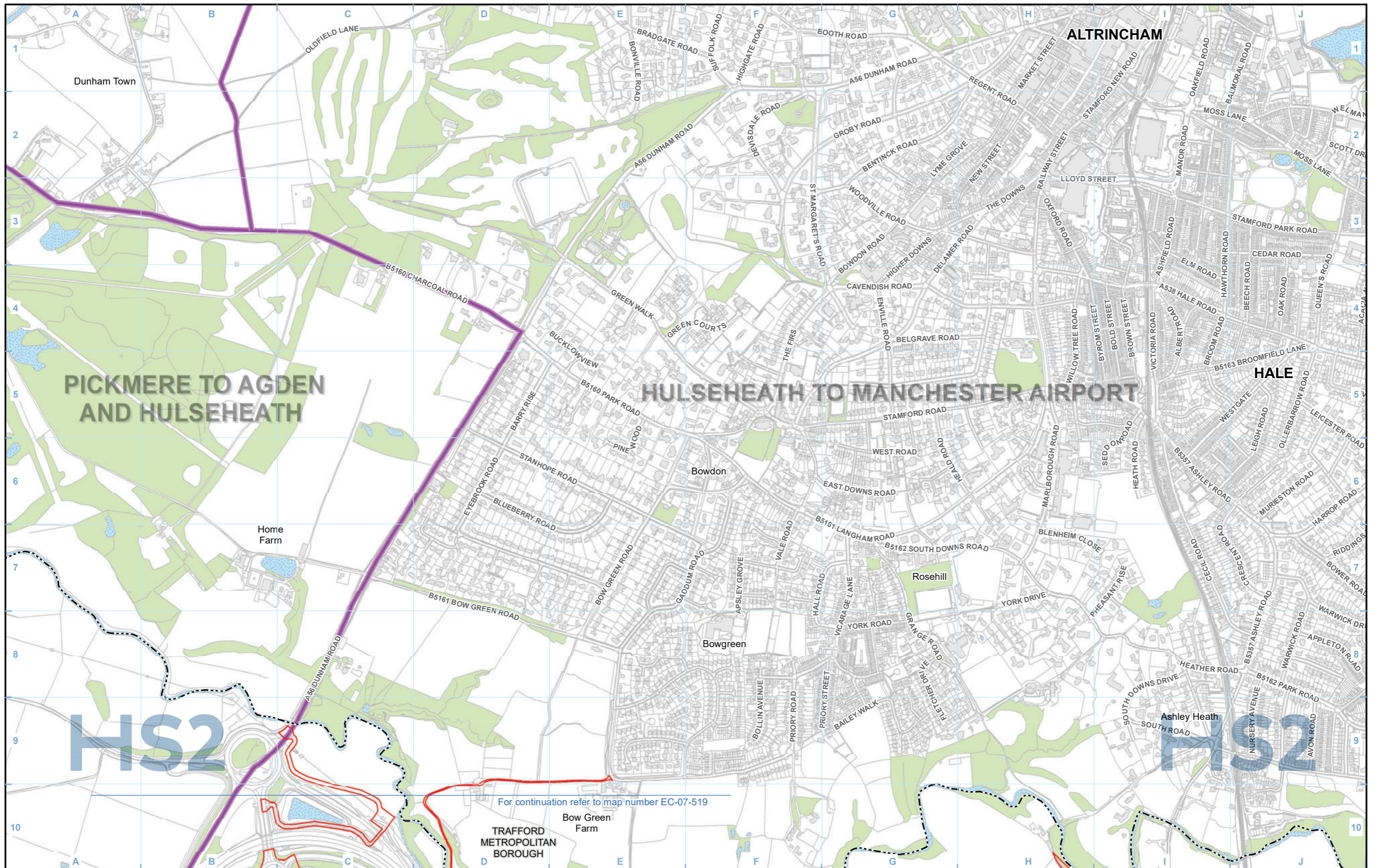
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0 100 200 300 400 Metres

Scale at A3: 1:10,000

Scale at A3: 1:10,000



PICKMERE TO AGDEN AND HULSEHEATH

HULSEHEATH TO MANCHESTER AIRPORT

HS2

HS2

For continuation refer to map number EC-07-519

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common Lizard: Grass Snake: Slow Worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
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Map Number	EC-07-519-L1
Map Name	Reptiles
Community Area MA06: Hulseheath to Manchester Airport	

HS2

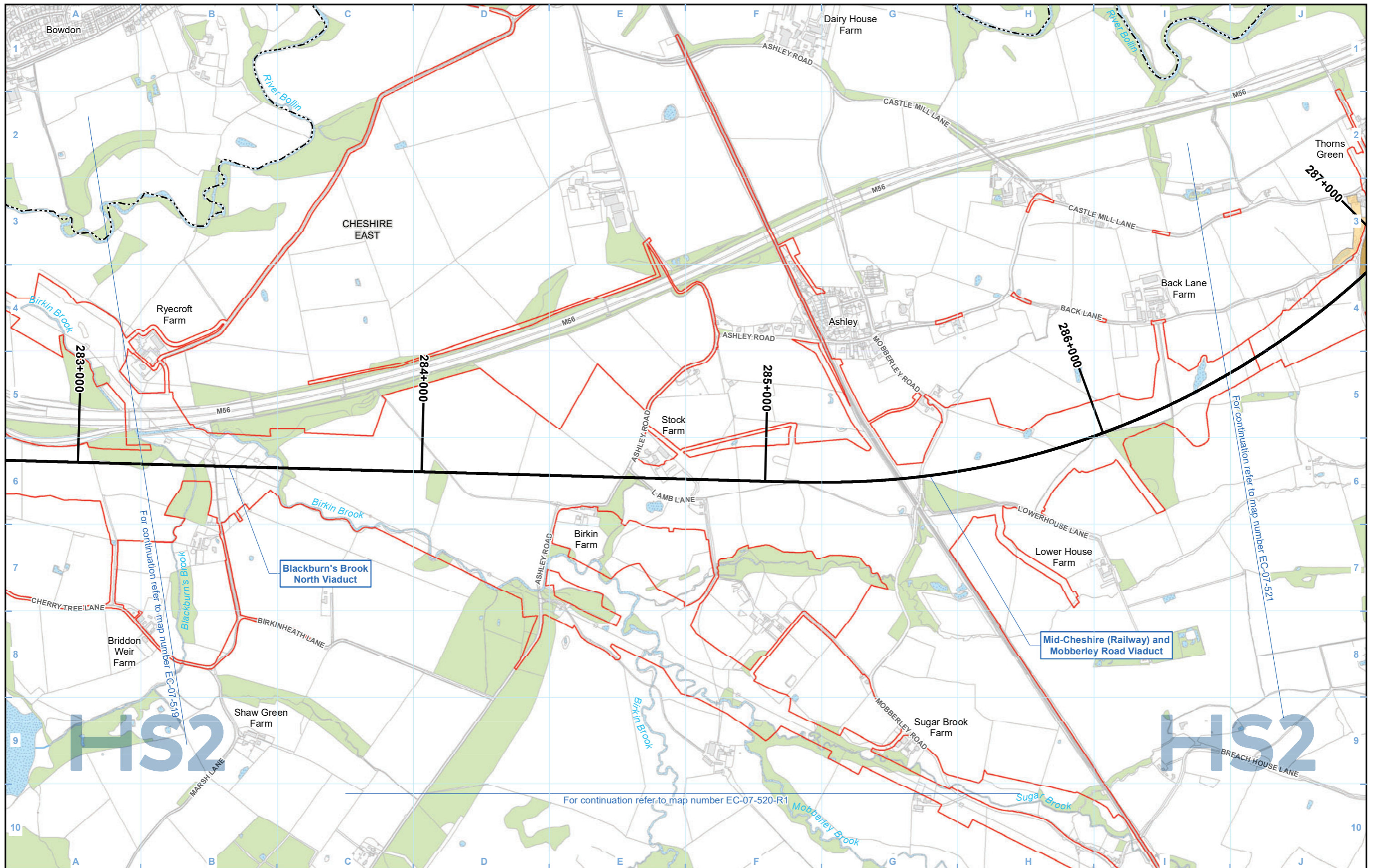
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Doc Number: 2DE01-MWJ-EV-MAP-M000-003058-P01

Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-520**

Map Name: **Reptiles**

Community Area MA06:
Hulseheath to Manchester Airport

HS2

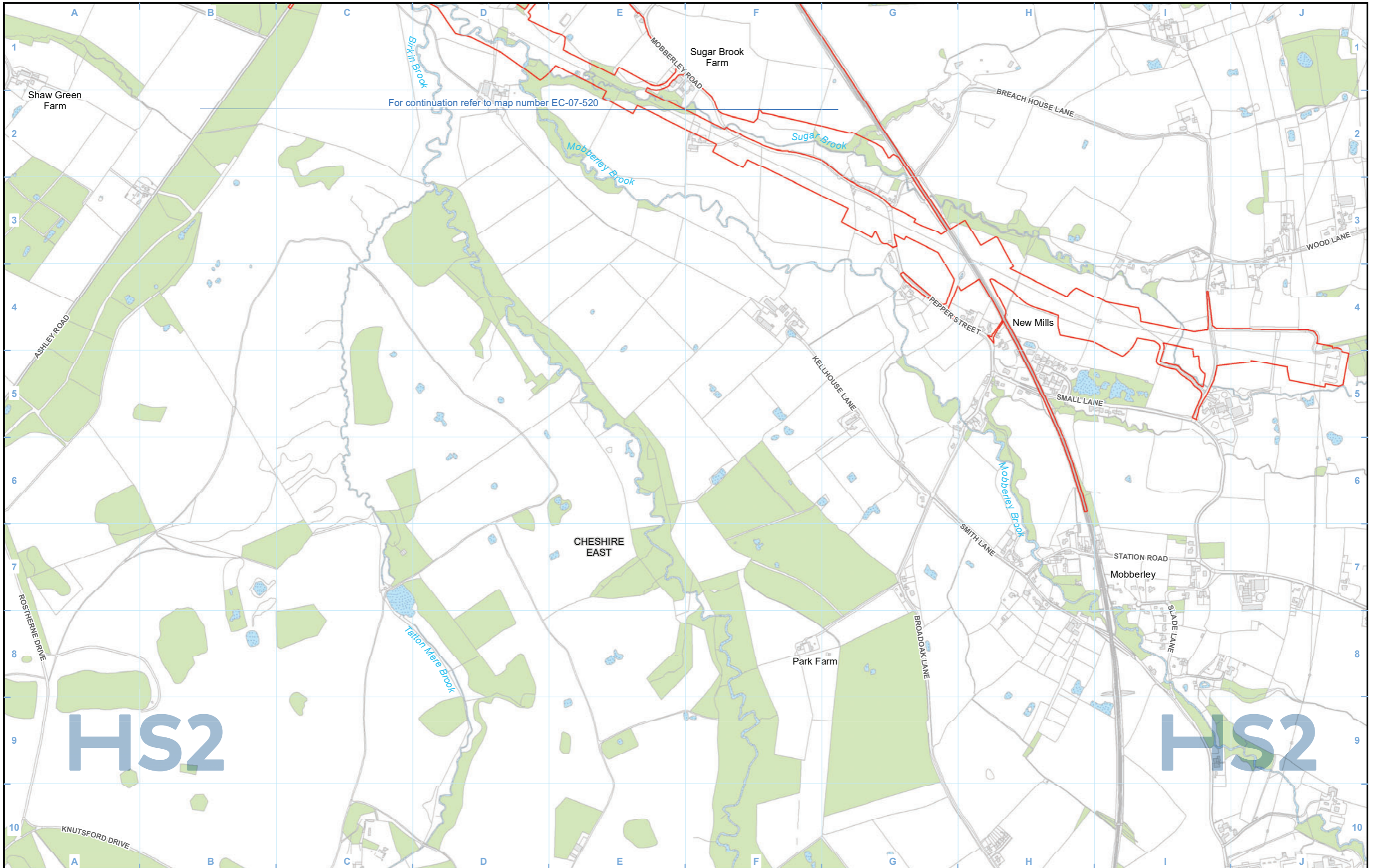
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Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-520-R1

Map Name: Reptiles

Community Area MA06:
Hulseheath to Manchester Airport

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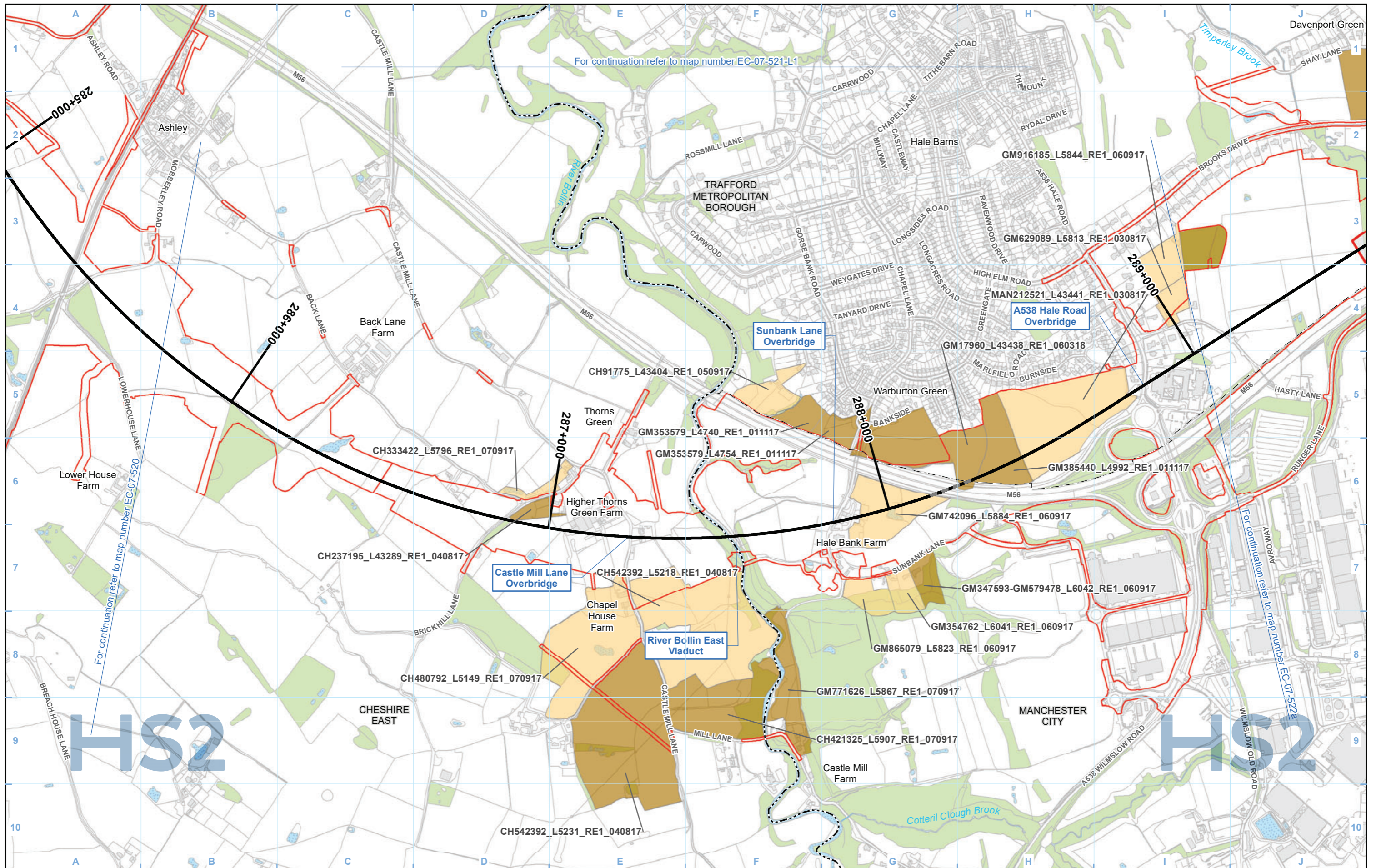
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For continuation refer to map number EC-07-521-L1

For continuation refer to map number EC-07-520

For continuation refer to map number EC-07-522a

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Population size class survey - visits completed
 - Reptiles assumed present as surveys not completed
 - Presence/absence survey conducted - reptiles assumed absent
 - Scoping visit only - scoped out
 - Scoping visit conducted - habitat suitable but no further survey conducted

- Population size class assessment:**
- | | | | |
|-----------------|------------------|------------------|------------------|
| Adder: | Common Lizard: | Grass Snake: | Slow Worm: |
| A High | CL High | GS High | SW High |
| A Medium | CL Medium | GS Medium | SW Medium |
| A Low | CL Low | GS Low | SW Low |
| A Absent | CL Absent | GS Absent | SW Absent |

Map Number	EC-07-521		
Map Name	Reptiles		
	Community Area MA06: Hulseheath to Manchester Airport		

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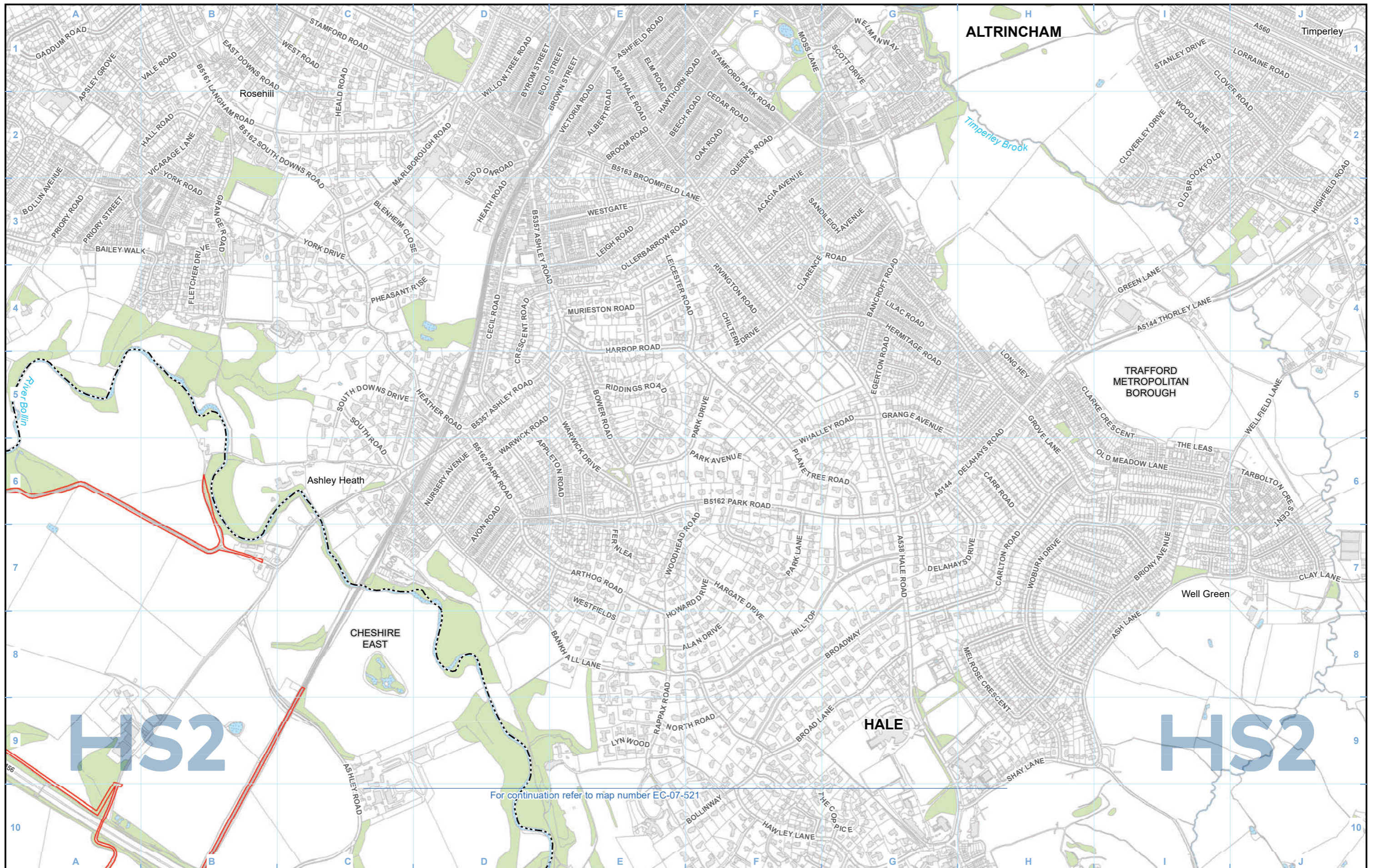
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0 100 200 300 400 Metres



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted – reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-521-L1**

Map Name: **Reptiles**

Community Area MA06:
Hulseheath to Manchester Airport

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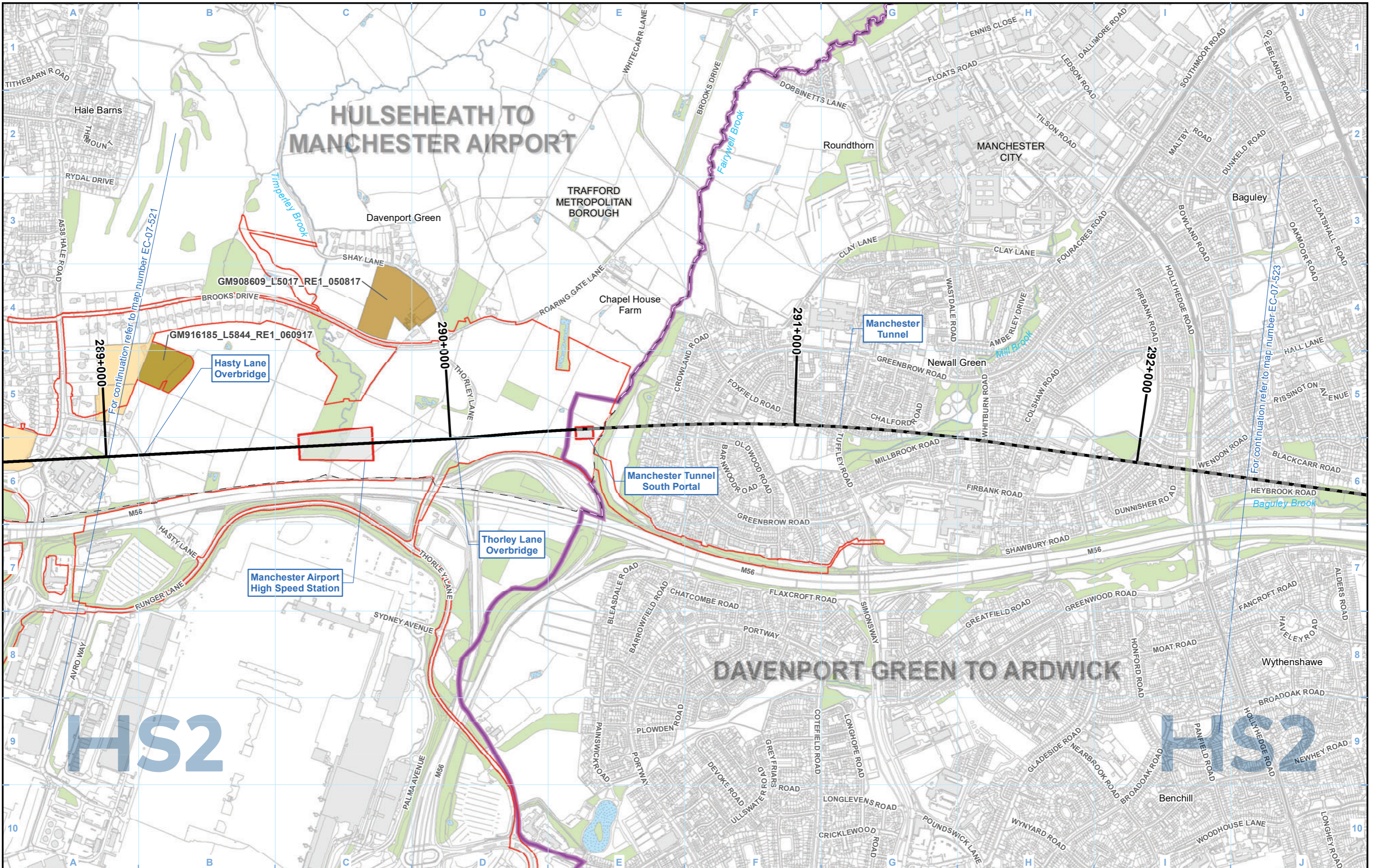
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HULSEHEATH TO MANCHESTER AIRPORT

DAVENPORT GREEN TO ARDWICK

HS2

HS2



Legend

- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Population size class survey - visits completed
 - Reptiles assumed present as surveys not completed
 - Presence/absence survey conducted - reptiles assumed absent
 - Scoping visit only - scoped out
 - Scoping visit conducted - habitat suitable but no further survey conducted
- Population size class assessment:
- | | | | |
|-----------------|------------------|------------------|------------------|
| Adder: | Common Lizard: | Grass Snake: | Slow Worm: |
| A High | CL High | GS High | SW High |
| A Medium | CL Medium | GS Medium | SW Medium |
| A Low | CL Low | GS Low | SW Low |
| A Absent | CL Absent | GS Absent | SW Absent |

Map Number: EC-07-522a

Map Name: Reptiles

Community Area MA06:
Hulseheath to Manchester Airport

HS2

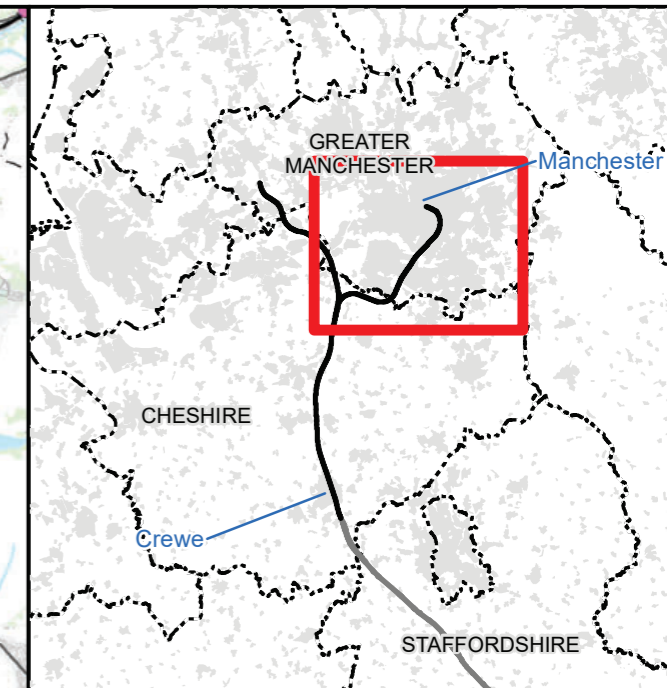
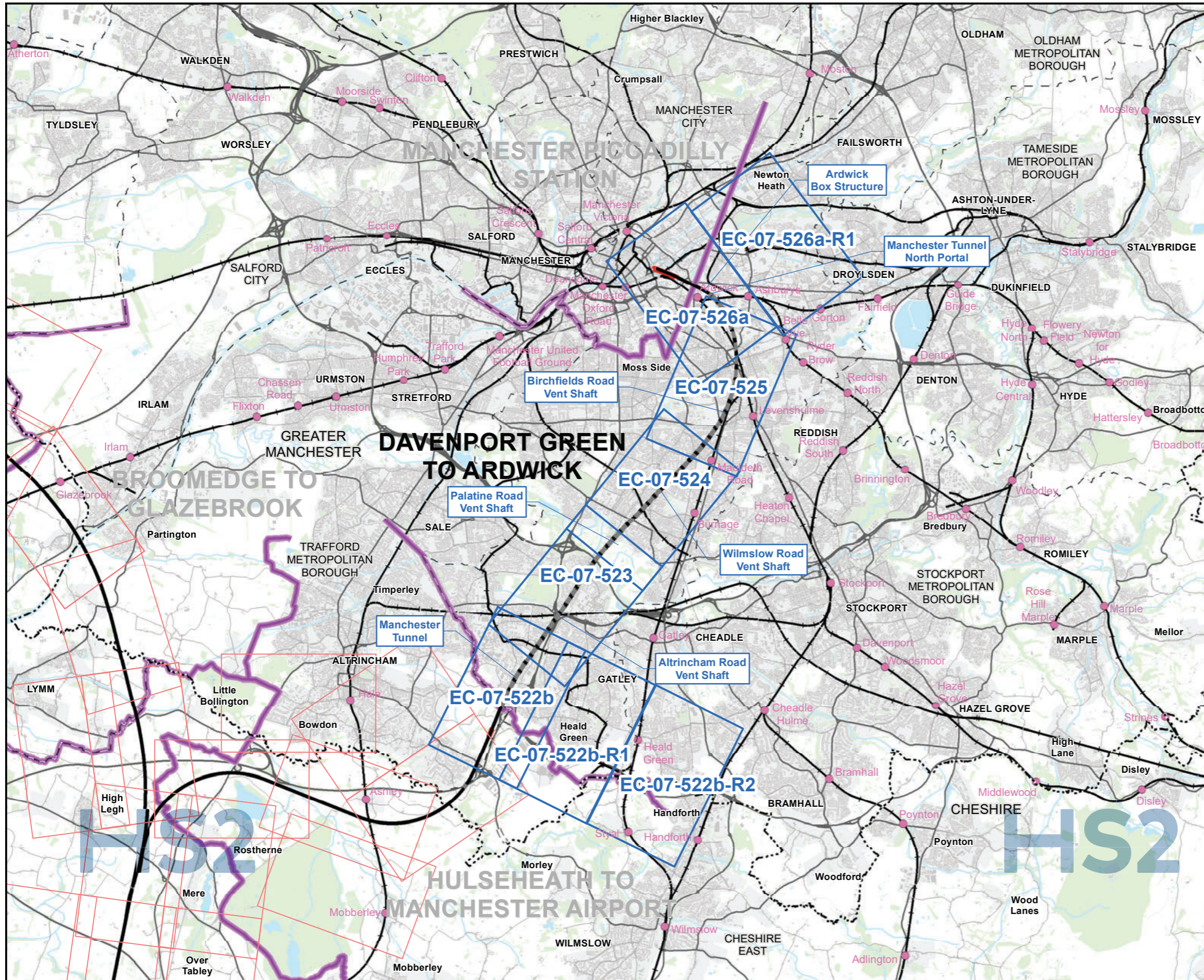
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001137-P01

Date: 09/08/21



Map Series Information:

This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

<p>Main Map Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Community area boundary Existing railway station County boundary District/Borough boundary Map sheets included in this community area Map sheets not included in this community area 	
<p>Map Number EC-07-INDEX-MA07</p>	<p>Map Name Index Map of: Reptiles</p>
<p>Community Area MA07: Davenport Green to Ardwick</p>	

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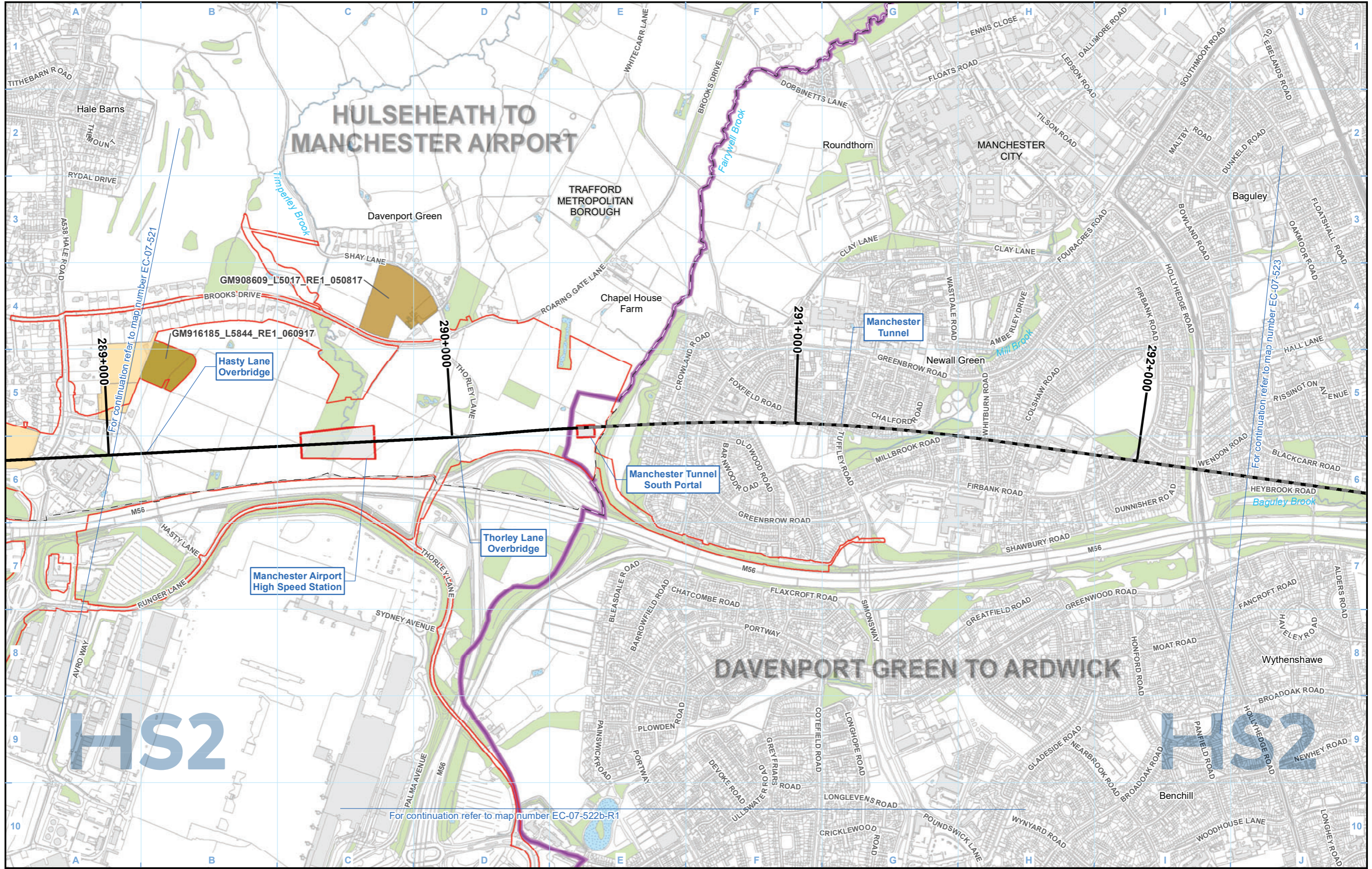
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001153-P01 **Date: 09/08/21**

HULSEHEATH TO MANCHESTER AIRPORT

DAVENPORT GREEN TO ARDWICK



Legend

Route in tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland (not verified by survey)
Land potentially required during construction	
Community area boundary	
County boundary	
District/Borough boundary	

Population size class survey - visits completed	Reptiles assumed present as surveys not completed	Population size class assessment:			
Presence/absence survey conducted - reptiles assumed absent	Scoping visit only - scoped out	Adder:	Common Lizard:	Grass Snake:	Slow Worm:
Scoping visit conducted - habitat suitable but no further survey conducted		A High	CL High	GS High	SW High
		A Medium	CL Medium	GS Medium	SW Medium
		A Low	CL Low	GS Low	SW Low
		A Absent	CL Absent	GS Absent	SW Absent

Map Number	EC-07-522b
Map Name	Reptiles
Community Area MA07: Davenport Green to Ardwick	

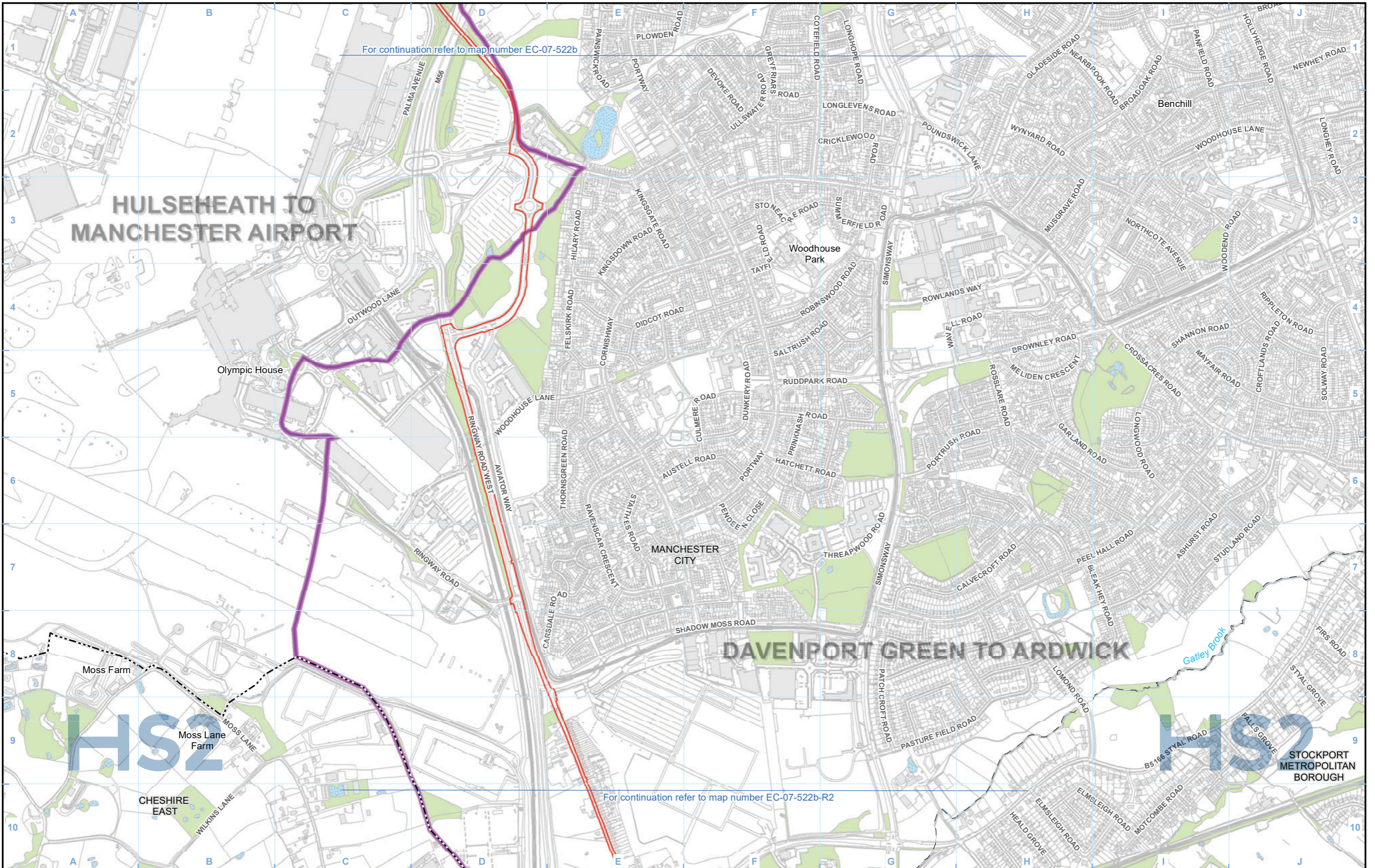
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0 100 200 300 400 Metres

Doc Number: 2DE01-MWJ-EV-MAP-M000-001138-P01 Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-522b-R1

Map Name: Reptiles

Community Area MA07: Davenport Green to Ardwick

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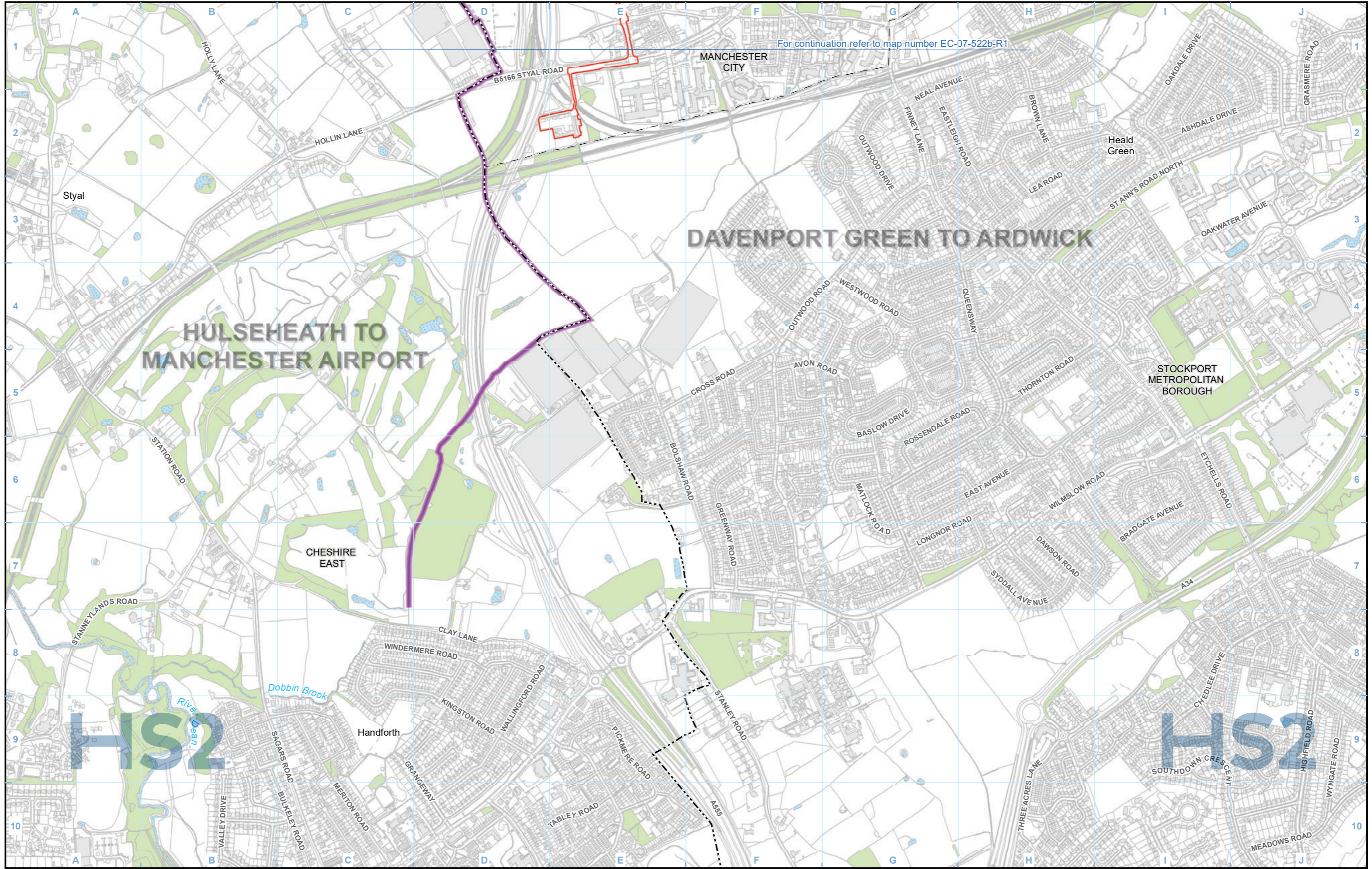
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Date: 09/08/21

Scale at A3: 1:10,000

0 100 200 300 400 Metres

For continuation refer to map number EC-07-522b-R1



HULSEHEATH TO MANCHESTER AIRPORT

DAVENPORT GREEN TO ARDWICK

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland (not verified by survey)

- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-522b-R2

Map Name: Reptiles

Community Area MA07: Davenport Green to Ardwick

HS2

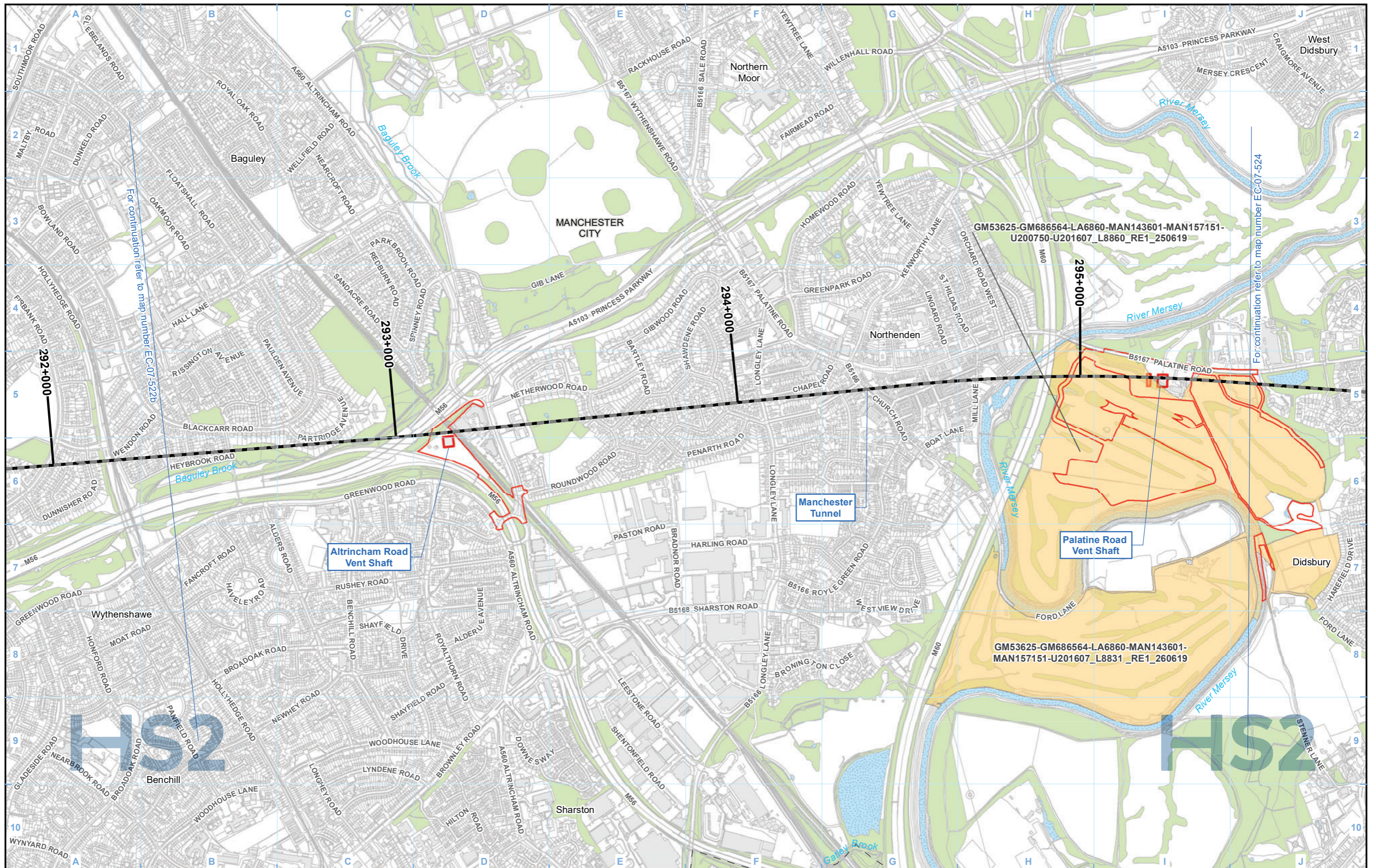
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Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-523

Map Name: Reptiles

Community Area MA07: Davenport Green to Ardwick

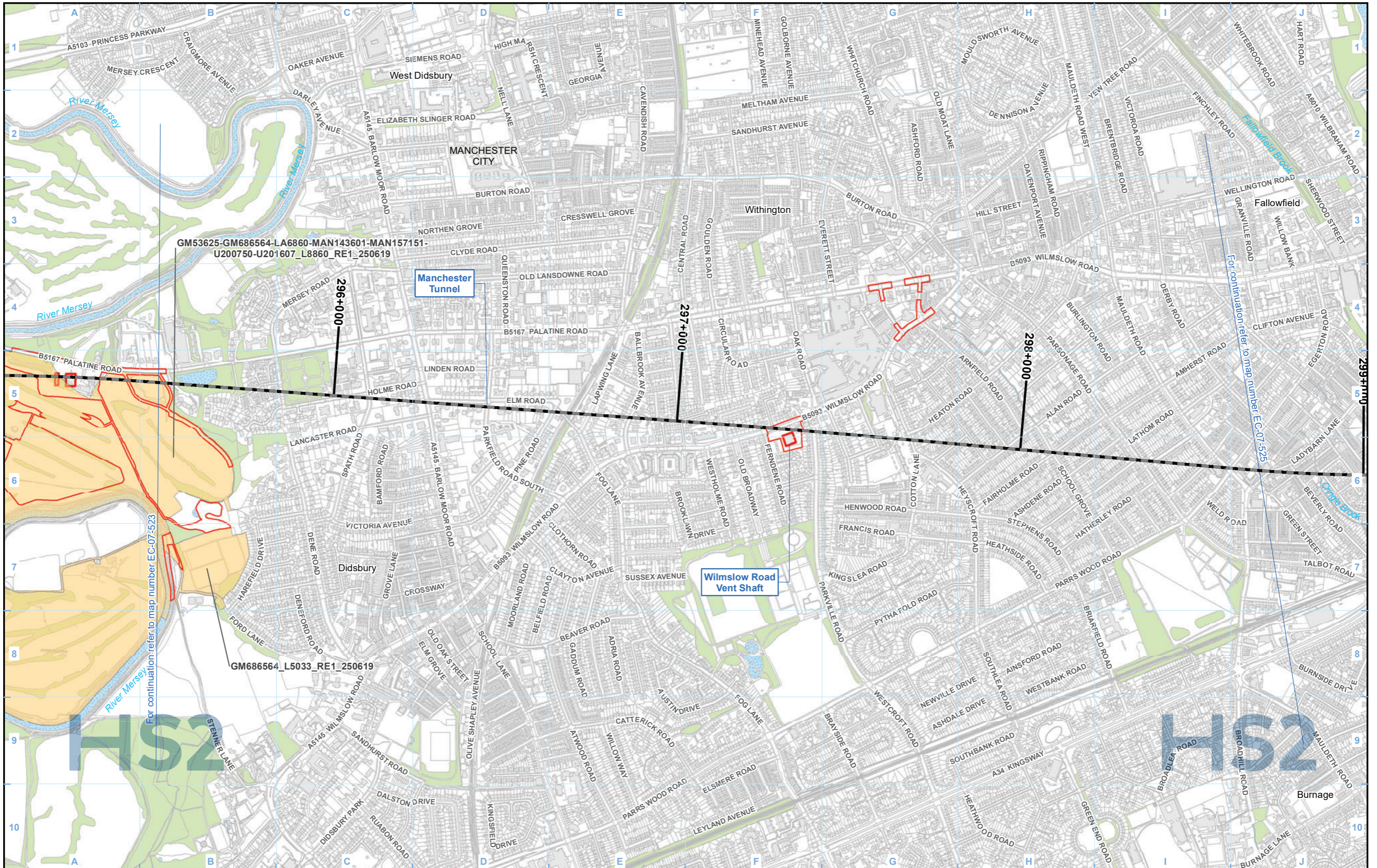
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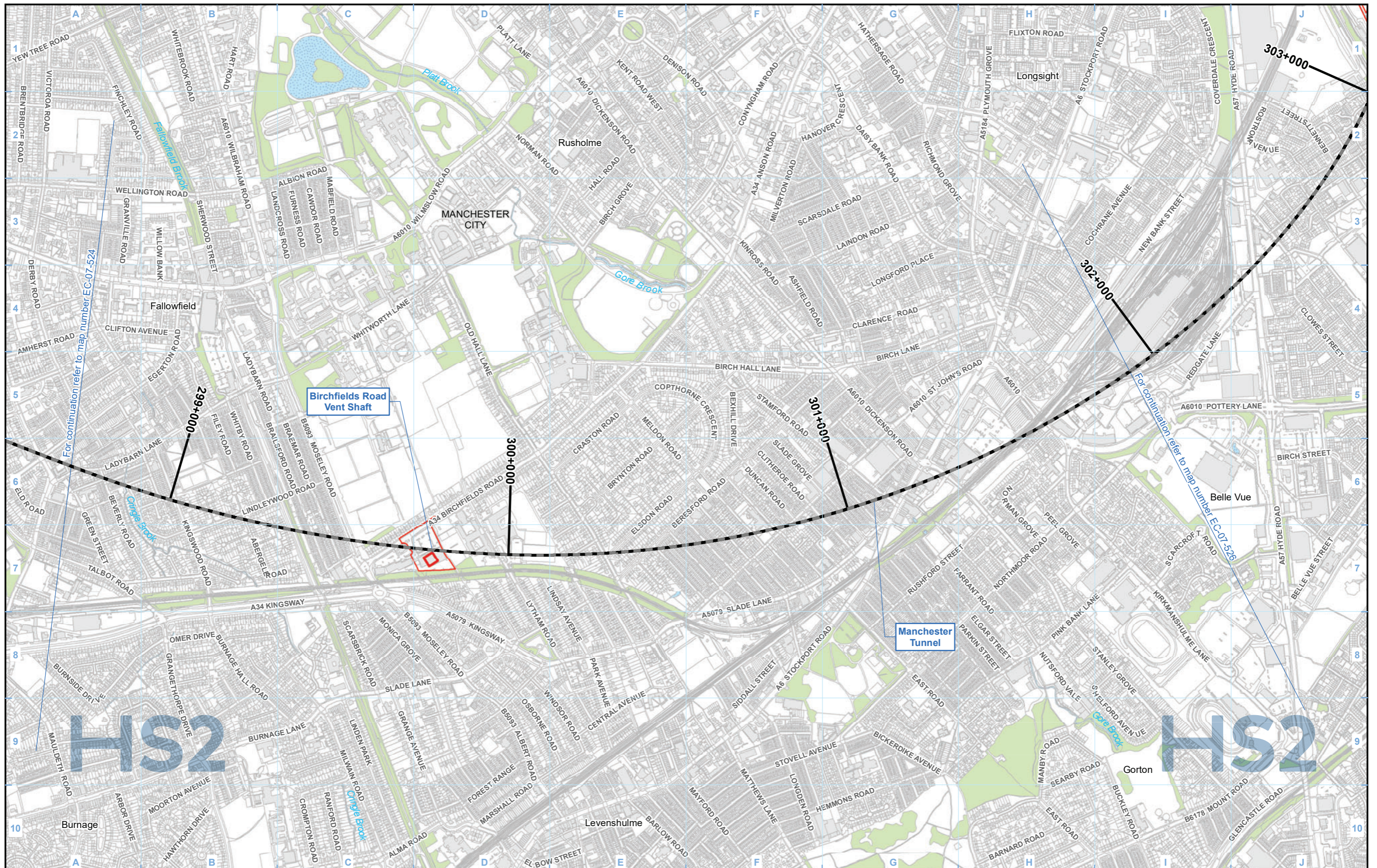
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Doc Number: 2DE01-MWJ-EV-MAP-M000-001139-P01

Date: 09/08/21



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common Lizard: Grass Snake: Slow Worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
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Map Name Reptiles		Scale at A3: 1:10,000 		Doc Number: 2DE01-MWJ-EV-MAP-M000-001140-P01 Date: 09/08/21			
Community Area MA07: Davenport Green to Ardwick							



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-525

Map Name: Reptiles

Community Area MA07: Davenport Green to Ardwick

HS2

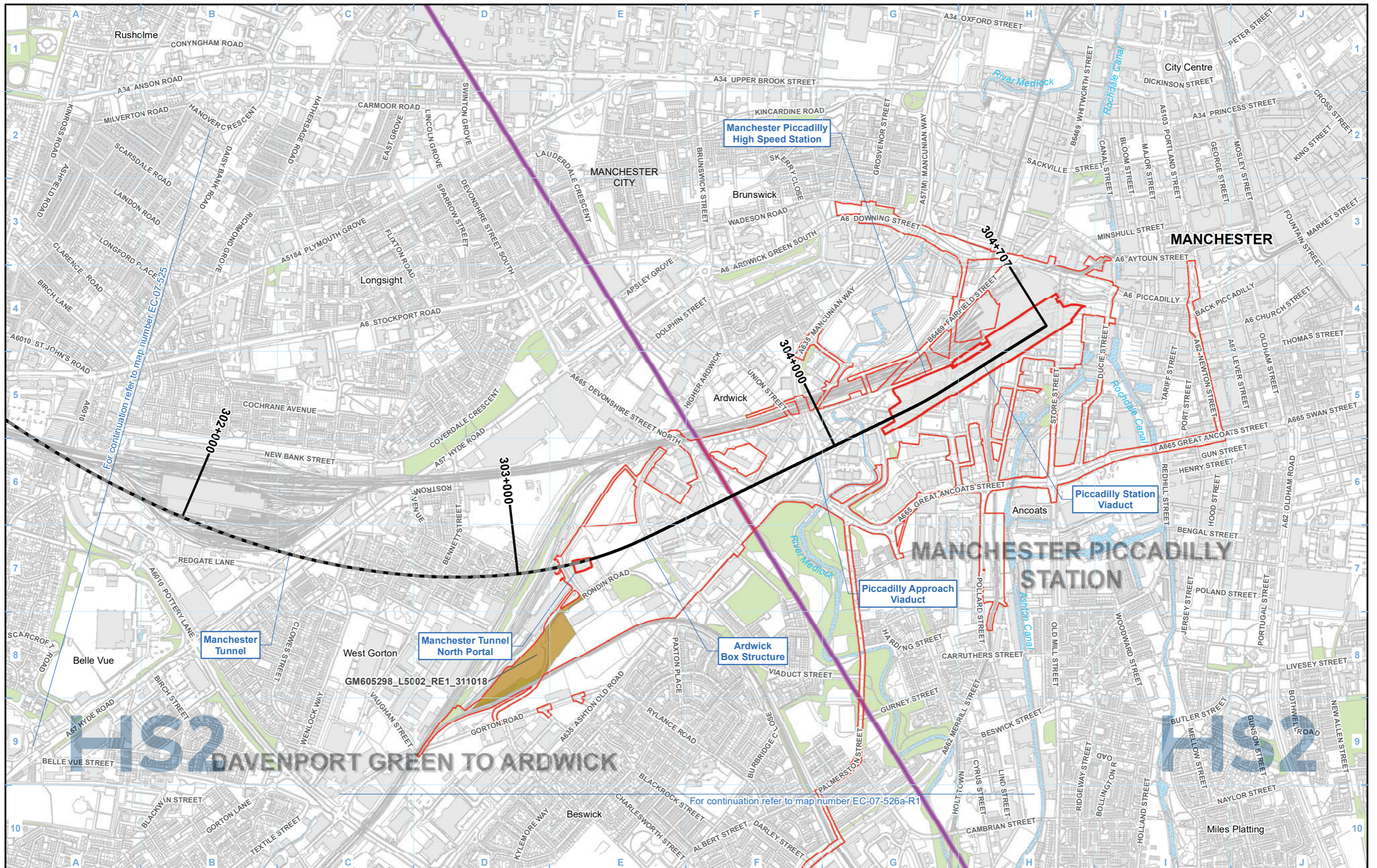
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Date: 09/08/21



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-526a

Map Name: Reptiles

Community Area MA07: Davenport Green to Ardwick

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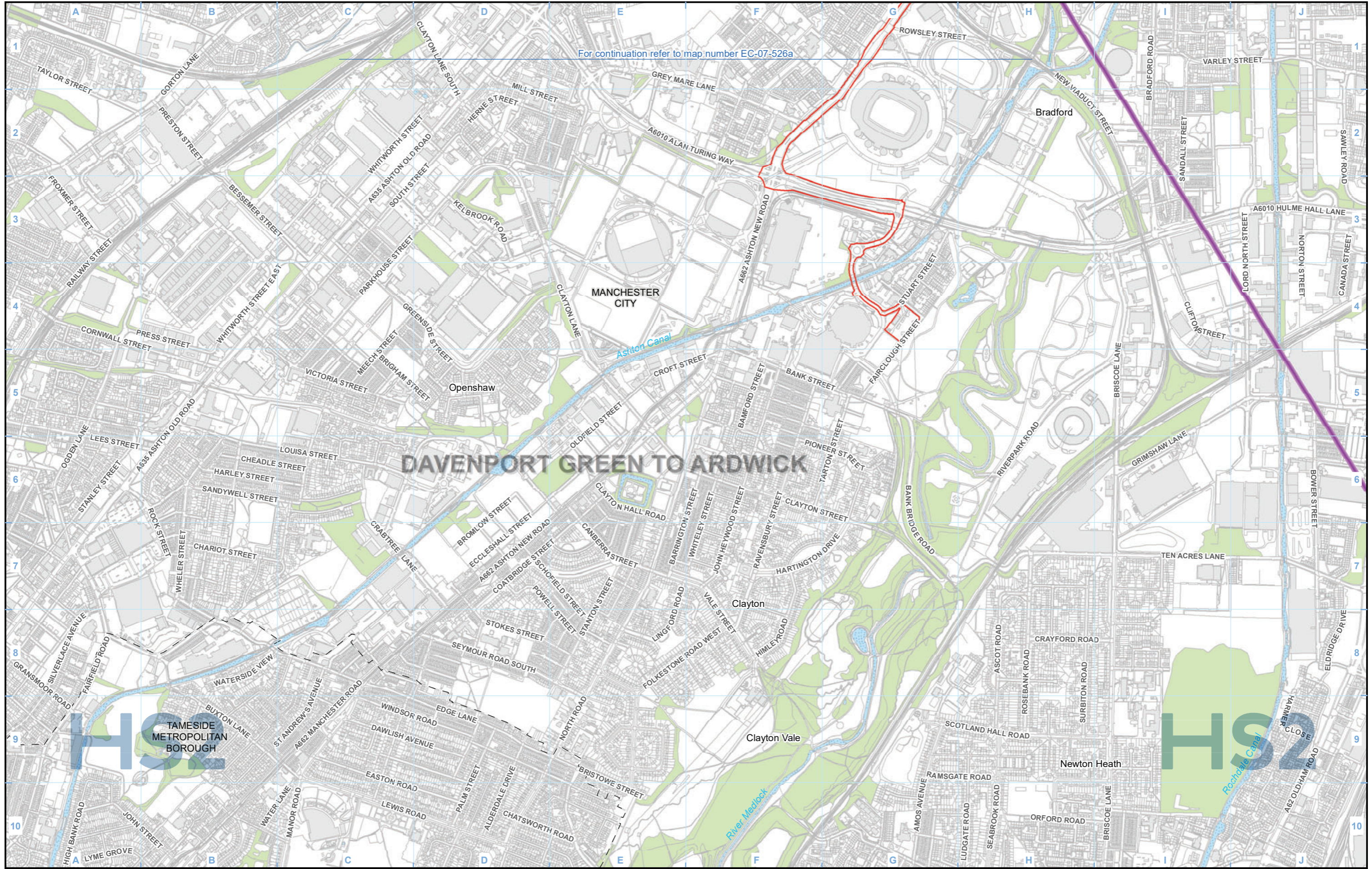
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For continuation refer to map number EC-07-526a



DAVENPORT GREEN TO ARDWICK

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common Lizard:	Grass Snake:	Slow Worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-526a-R1**

Map Name: **Reptiles**

Community Area MA07:
Davenport Green to Ardwick

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