

# High Speed Two Phase 2a (West Midlands - Crewe)

## Background Information and Data: Map book

Ecology (EC-02, EC-04, EC-05, EC-10, EC-11, EC-12)



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Department  
for Transport

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Map series name	EC-02 - Phase 1 Habitat (1:10,000)	EC-04 - Amphibians	EC-05 - Bat - Roost	EC-10 - Phase 2 Habitat Survey	EC-11 - Other Protected and Notable Species (1)	EC-12 - Other Protected and Notable Species (2)
<b>Map series description</b>	<i>This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the CCB, the information is based on available desk study and interpretation of aerial photography.</i>	<i>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 conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.</i>	<i>This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.</i>	<i>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).</i>	<i>This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.</i>	<i>This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.</i>
<b>Community Area name</b>						
CA1 Fradley to Colton	✓	✓	✓	✓	✗	✗
CA2 Colwich to Yarlet	✓	✓	✓	✓	✗	✓
CA3 Stone and Sywnnerton	✓	✓	✓	✓	✗	✓
CA4 Whitmore Heath to Madeley	✓	✓	✓	✓	✓	✓
CA5 South Cheshire	✓	✓	✓	✗	✓	✓

## Mapping explanatory notes

This map book is part of the background information and data (BID) for Phase 2a of the proposed High Speed Two (HS2) rail network between the West Midlands and Crewe. It presents supplementary ecological baseline information for the scheme to inform the Supplementary Environmental Statement and the Additional Provision Environmental Statement.

### 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

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### Chainage

The maps presented have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+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 this map book are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the right hand side of the page, and Crewe to the left.

High Speed Two Phase 2a (West Midlands - Crewe)  
Background Information and Data  
**Data dictionary and definitions**

## Data dictionary and definitions

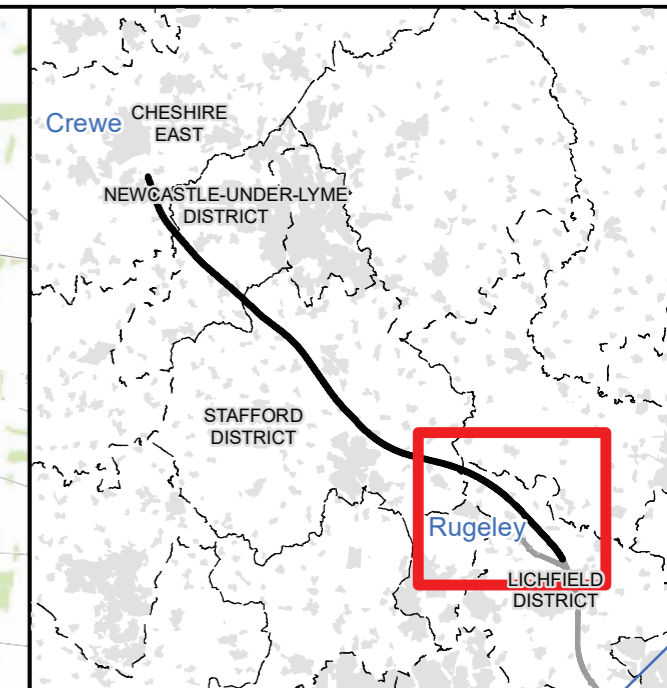
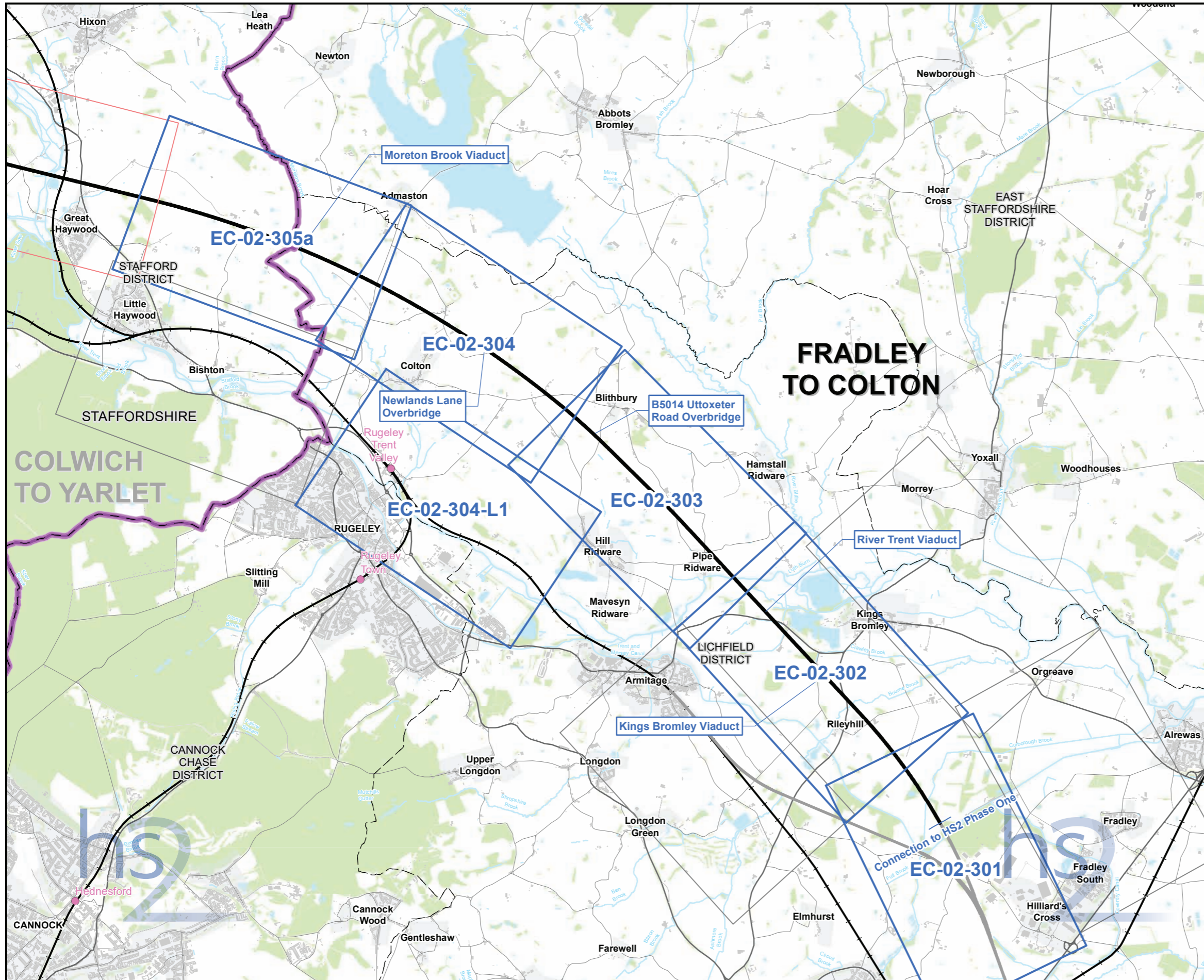
Legend features	Definition	Source	Copyright
250m radius from all water bodies where presence of Great Crested Newts is confirmed.	250m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
50m radius from all water bodies where presence of Great Crested Newts is confirmed.	50m 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 Great Crested Newts is confirmed.	500m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
Aquatic invertebrate: Aquatic invertebrate survey location	Location of aquatic invertebrate survey.	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 Proposed Scheme has been split into 5 sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form.
Confirmed bat roost – building: Hibernation roost Maternity roost Other roost Multiple roost types  Potential to support roosting bats – buildings: High Moderate	Locations where bat roost survey has been completed within buildings. Buildings are categorised into those with potential to support bat roosts (high and medium potential) and those that have confirmed roosts. Confirmed roosts are further categorised into Hibernation, Maternity, Other or Multiple roosts.	High Speed Two (HS2) Ltd	
Confirmed bat roost – trees: Hibernation roost Maternity roost Other roost Multiple roost types  Potential to support roosting bats – trees: High Moderate	Locations where bat roost survey has been completed within trees. Trees are categorised into those with potential to support bat roosts (high and medium potential) and those that have confirmed roosts. Confirmed roosts are further categorised into Hibernation, Maternity, Other or Multiple roosts.	High Speed Two (HS2) Ltd	
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form.
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 boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the



Legend features	Definition	Source	Copyright
			organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form.
Ditch vegetation survey	Extent of Ditch vegetation surveys.	High Speed Two (HS2) Ltd	
Dormouse: Nest tube survey and/or nut search conducted and presence confirmed Nest tube survey and/or nut search conducted and no signs of dormouse identified Site identified as potentially suitable for dormouse but no access available	Extent of Dormouse survey using nest tube and/or nut search. Those areas where access was available either had confirmed presence or no signs were found.	High Speed Two (HS2) Ltd	
Fish: Fish survey location	Location where fish survey was conducted.	High Speed Two (HS2) Ltd	
Great Crested Newt (GCN) survey locations	Results from Great Crested Newt pond surveys.	High Speed Two (HS2) Ltd	
'Important' hedgerow confirmed by field survey Possible 'Important' hedgerow - no access available for survey	Location of those hedgerows that have been identified as 'important hedgerows' or possible 'important hedgerows' under the wildlife and landscape criteria in the Hedgerows Regulations (2007).	High Speed Two (HS2) Ltd	
Lake habitat	Extent of lake habitat surveys.	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	
National Vegetation Classification survey	Extent of National Vegetation Classification surveys.	High Speed Two (HS2) Ltd	
Otter: Active otter holt Potential otter holt	Location of active otter holts and potential otter holts found during field survey.	High Speed Two (HS2) Ltd	
Otter terrestrial habitat	Areas of terrestrial habitat within 100m of the Proposed Scheme that are identified as having 'high' potential to act as otter breeding sites (i.e. those ranked as having a score of 5 on the scale devised by Chanin).	High Speed Two (HS2) Ltd	
Phase 1 Habitat survey data	Results from Phase1 habitat surveys.	High Speed Two (HS2) Ltd	
Pond survey: Pond survey – national pond survey Pond survey – PSYM Pond survey – rapid assessment method	Location and type of pond surveys conducted.	High Speed Two (HS2) Ltd	
River corridor survey extent	Extent of river corridor surveys.	High Speed Two (HS2) Ltd	
River habitat survey extent	Extent of river habitat surveys.	High Speed Two (HS2) Ltd	
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Terrestrial invertebrate: Terrestrial invertebrate survey extent	Extent of terrestrial invertebrate survey.	High Speed Two (HS2) Ltd	
Water body	Any mass of water having definite hydrological, physical, chemical and biological characteristics.	Ordnance Survey	© Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form.

Legend features	Definition	Source	Copyright
Water vole: Water vole survey undertaken – presence confirmed Water vole survey undertaken – assumed absent Watercourse potentially suitable for water vole – no or limited access for survey	Extent of water vole survey. Those areas where access was available either had confirmed presence or water voles were assumed absent.	High Speed Two (HS2) Ltd	
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.	Environment Agency	© Environment Agency copyright and/or database right 2017. All rights reserved.
White clawed crayfish: Manual search and/or trapping conducted and presence confirmed Manual search and/or trapping conducted and assumed absent Site identified as potentially suitable but no access available	Location where white clawed crayfish survey was conducted. Location categorised as to whether presence was confirmed, assumed absent or no access was available.	High Speed Two (HS2) Ltd	
Woodland (not verified by survey) Woodland (verified by survey)	Woodland areas derived from Ordnance Survey MasterMap data.	Ordnance Survey	© Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form.

High Speed Two Phase 2a (West Midlands - Crewe)  
Background Information and Data  
**EC-02 - Phase 1 habitat (1:10,000)**



**Map Series Information:**

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the CCB, the information is based on available desk study and interpretation of aerial photography.

**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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-02-INDEX-CA1
Map Name	Index Map of: Phase 1 Habitat (1:10,000) SES and AP ES
	Community Area 1: Fradley to Colton

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

















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




## Phase 1 Habitat survey legend

### Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

### Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

### Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Number EC-02-Legend

Map Name Phase 1 Habitat  
(1:10,000)  
SES and AP ES



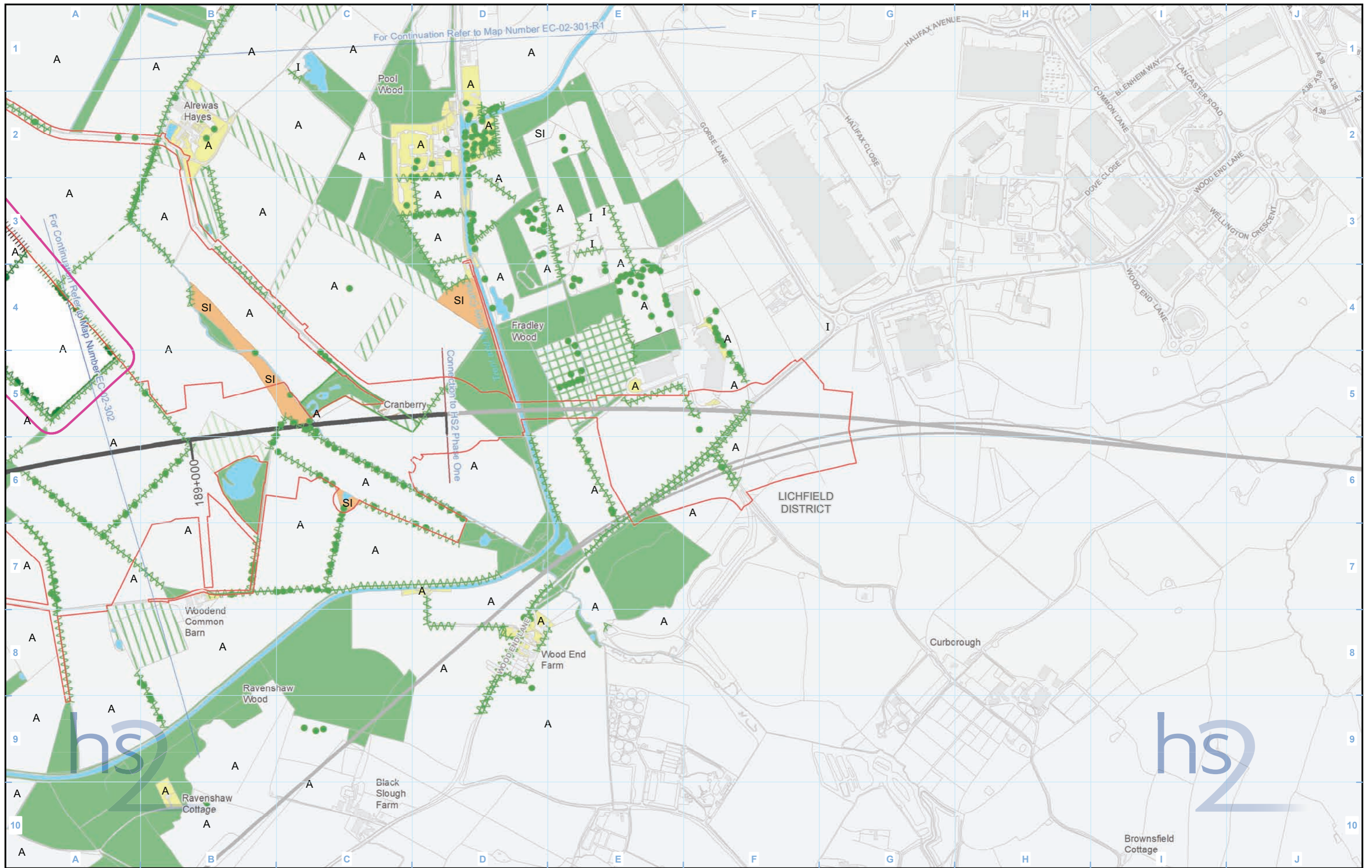
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**Legend**

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- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number: **EC-02-301**

Map Name: **Phase 1 Habitat (1:10,000) SES and AP ES**

Community Area 1: **Fradley to Colton**

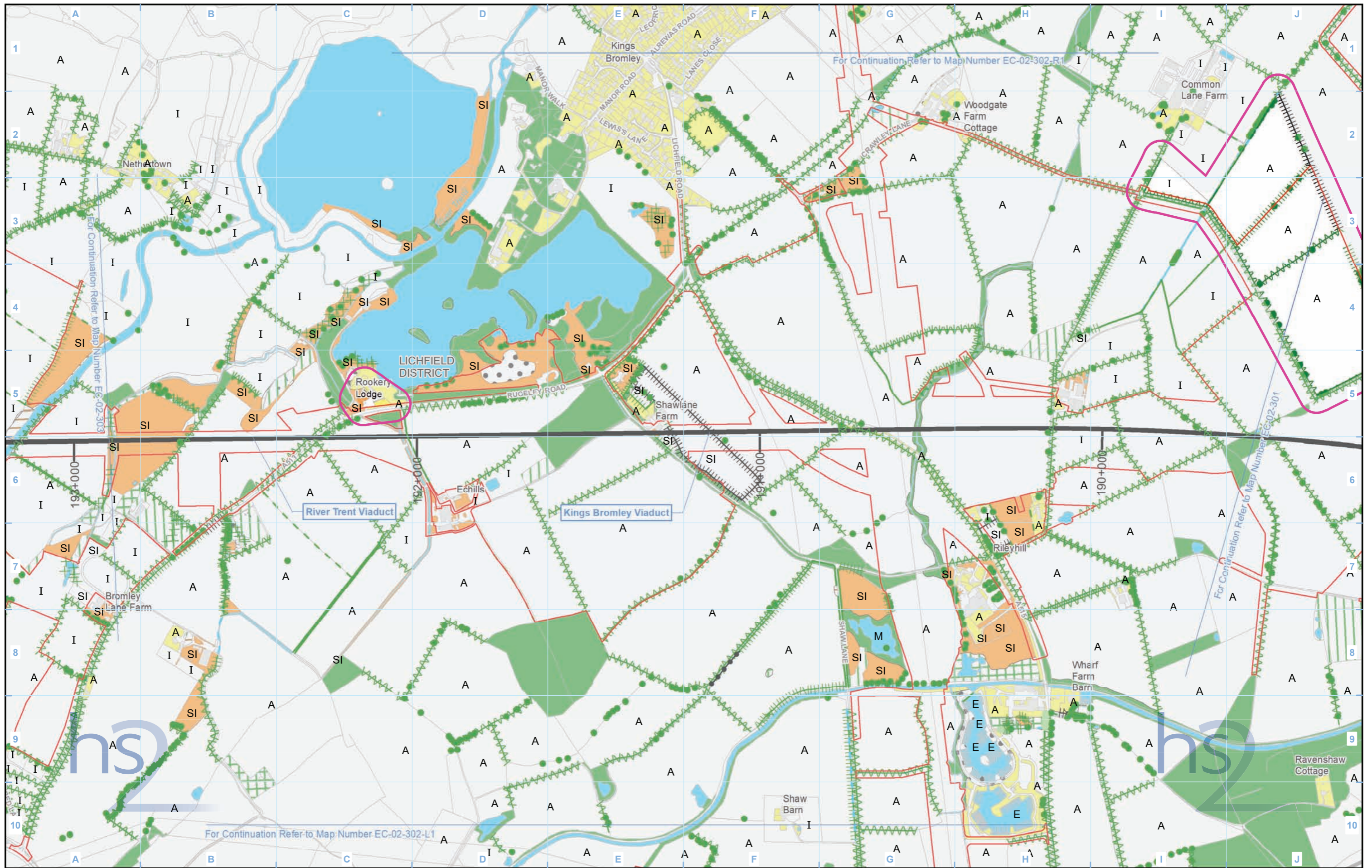
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- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

- Area contains new survey data

Map Number  
**EC-02-302**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 1:  
Fradley to Colton

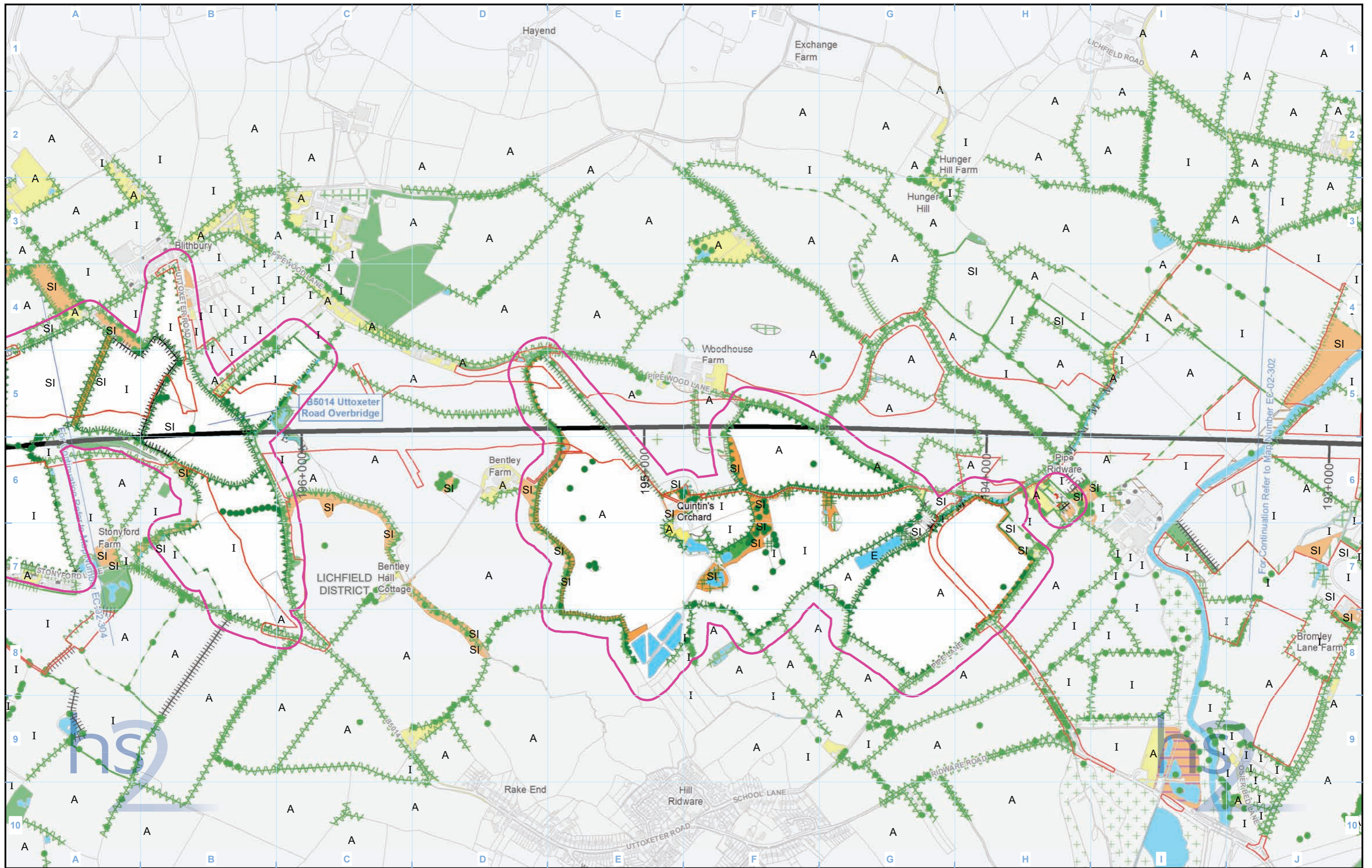
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**Legend**

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Area contains new survey data
- Community area boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number  
**EC-02-303**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 1:  
Fradley to Colton

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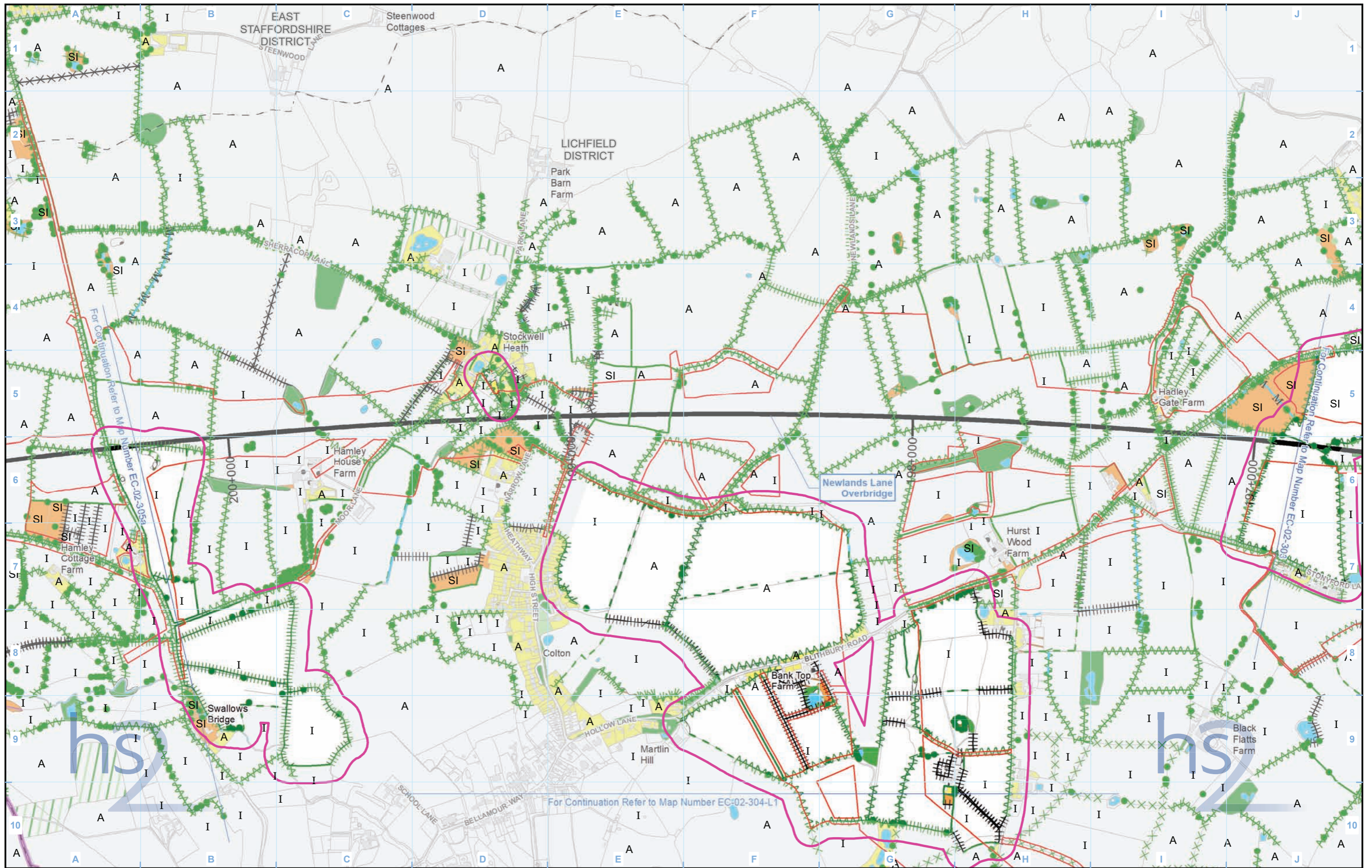
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Date: 13/02/18





**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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number  
**EC-02-304**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 1:  
Fradley to Colton

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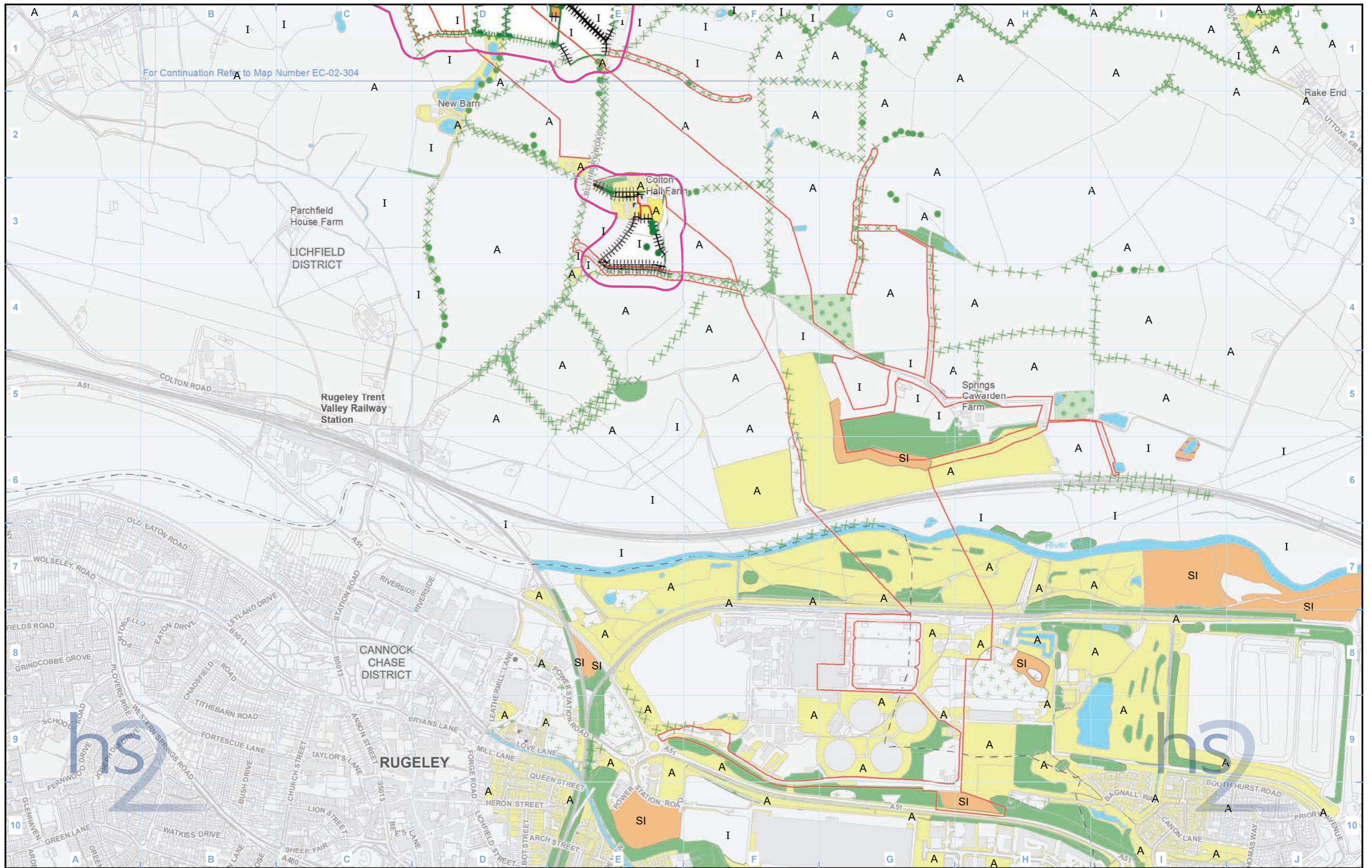
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For Continuation Refer to Map Number EC-02-304

**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

For full legend please refer to EC-02 - Legend page

- Area contains new survey data

Map Number **EC-02-304-L1**

Map Name **Phase 1 Habitat (1:10,000) SES and AP ES**

Community Area 1:  
Fradley to Colton

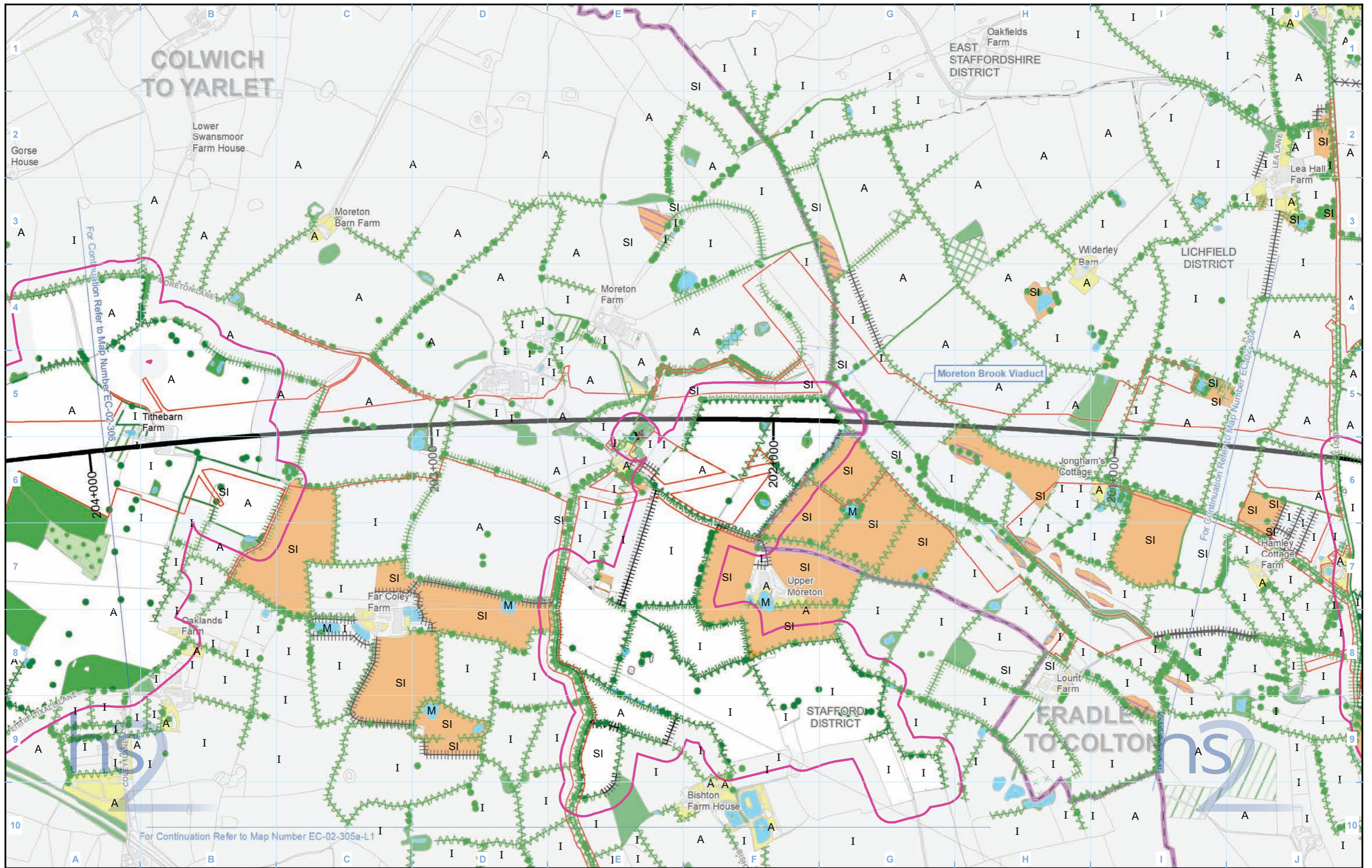
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**Legend**

- 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

For full legend please refer to EC-02 - Legend page

Area contains new survey data

Map Number  
**EC-02-305a**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 1:  
Fradley to Colton

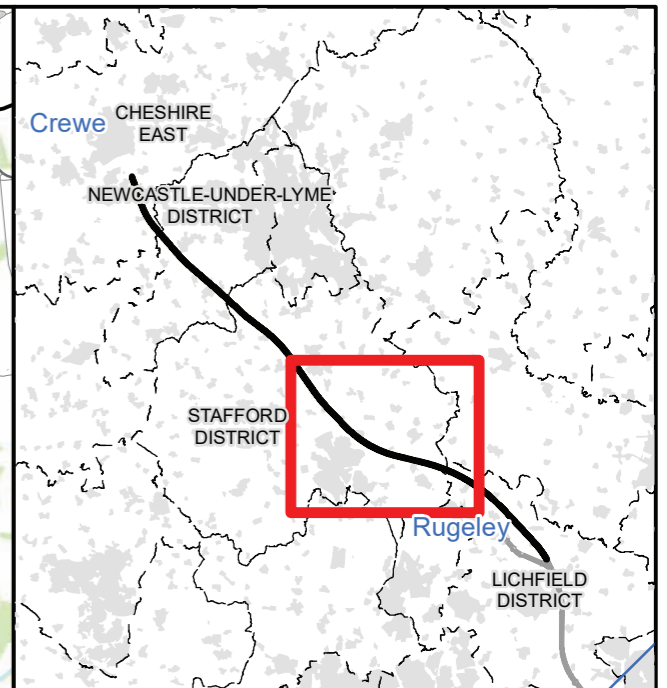
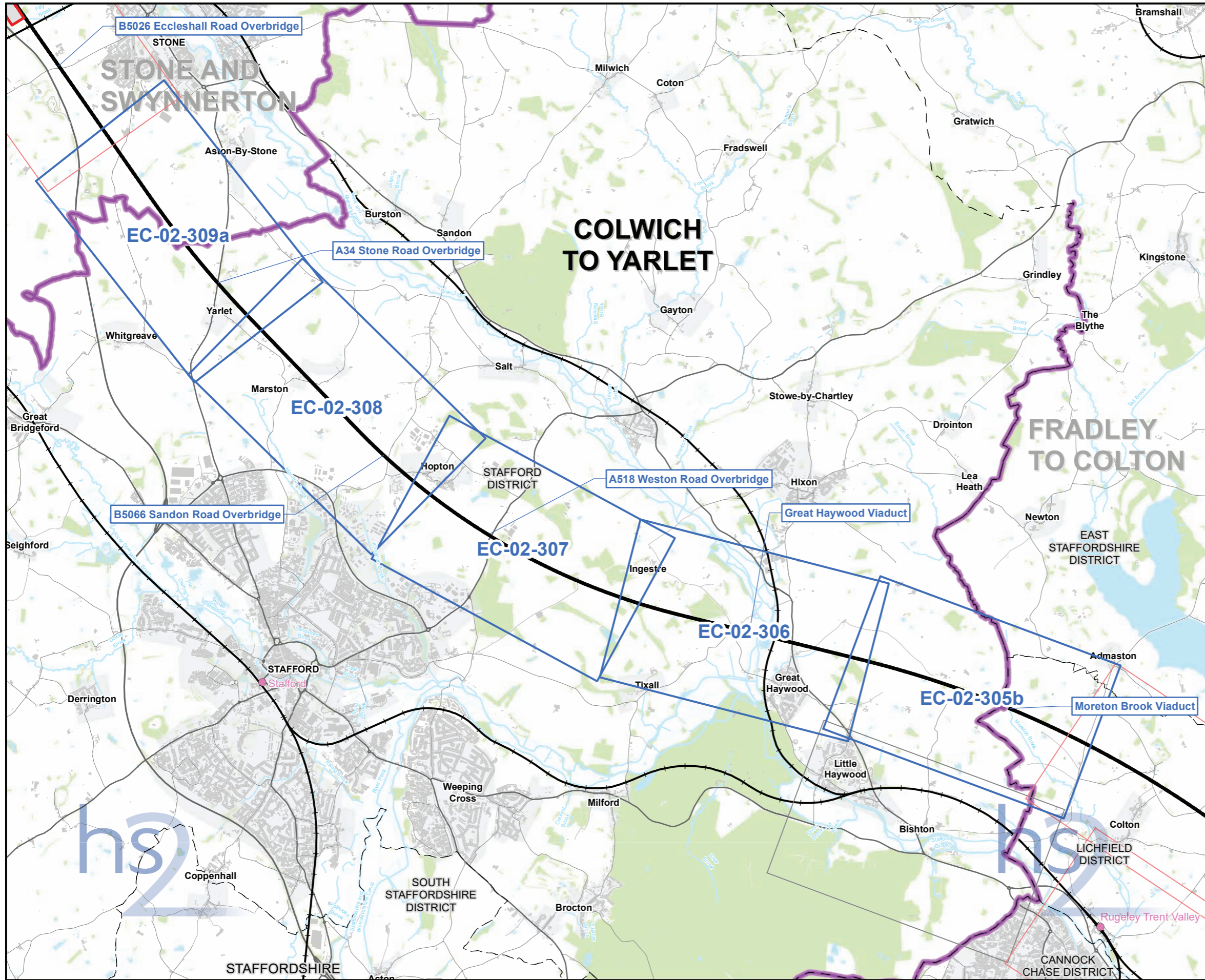
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**Map Series Information:**

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the CCB, the information is based on available desk study and interpretation of aerial photography.

**Main Map Legend**


 Route in tunnel	 Map sheets included in this community area with amendment
 Route on surface	 Map sheets included in this community area with no amendment
 Depot, station, headhouse or portal building	 Map sheets not included in this community area
 Community area boundary	
 Existing railway station	
 County boundary	
 District/Borough boundary	

Map Number	EC-02-INDEX-CA2
Map Name	Index Map of: Phase 1 Habitat (1:10,000) SES and AP ES
	Community Area 2: Colwich to Yarlet

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

















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Doc Number: 2PT01-ARP-EV-MAP-000-072002-P03 **Date: 13/02/18**



















## Phase 1 Habitat survey legend

### Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

### Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

### Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Number EC-02-Legend

Map Name Phase 1 Habitat  
(1:10,000)  
SES and AP ES



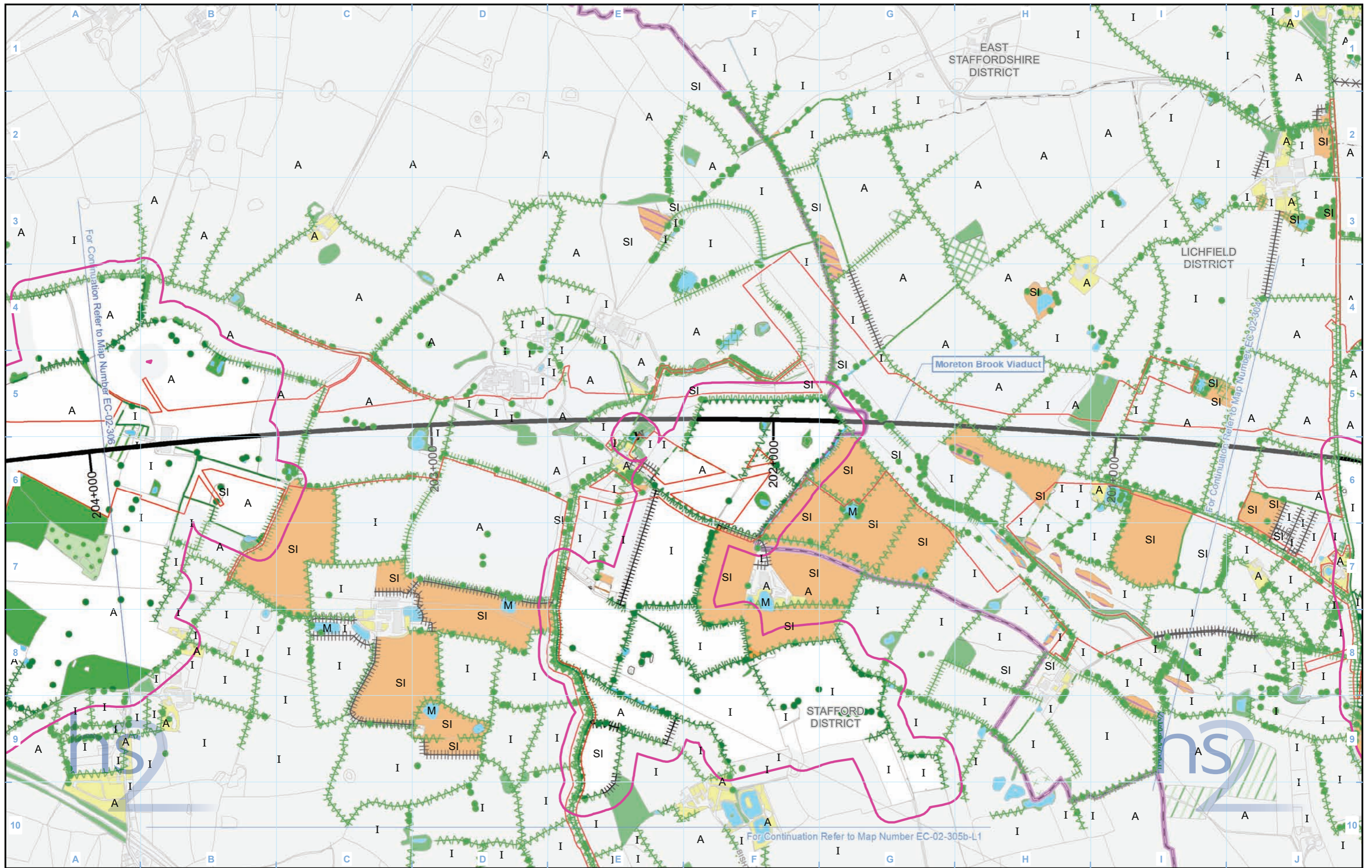
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Date: 13/02/18



**Legend**

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- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number  
**EC-02-305b**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 2:  
Colwich to Yarlet

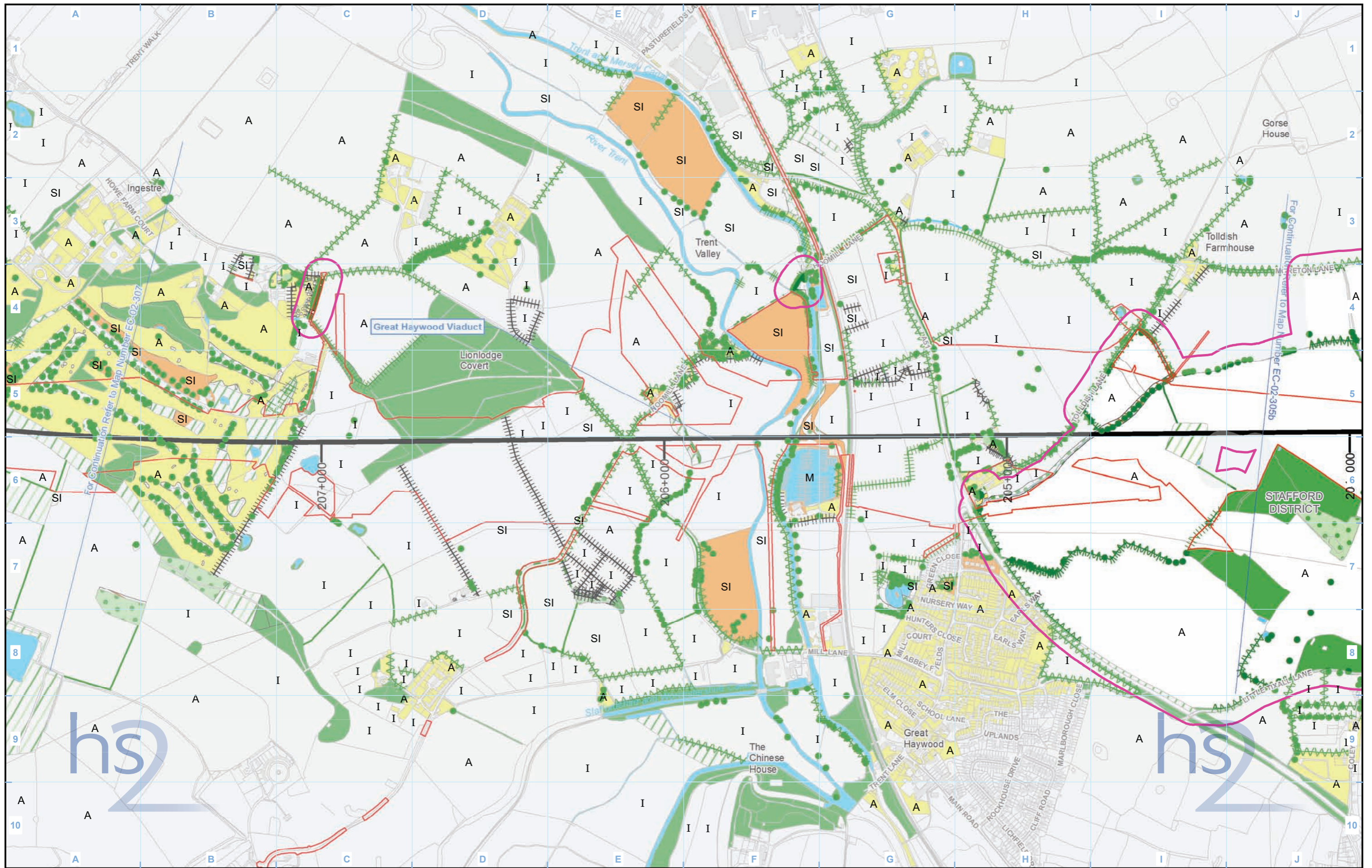
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**Legend**

- 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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number  
**EC-02-306**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 2:  
Colwich to Yarlet

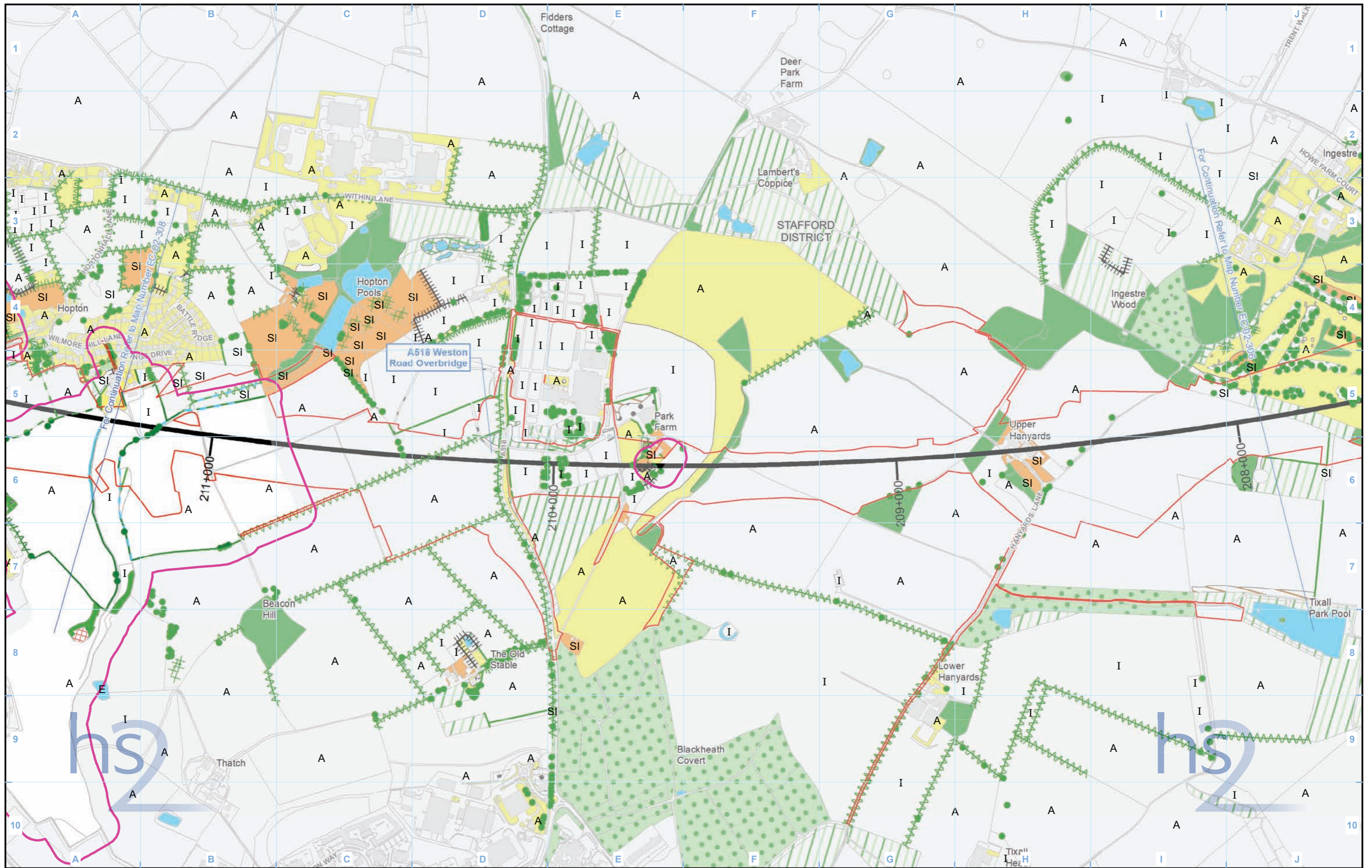
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**Legend**

- 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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-307
Map Name	Phase 1 Habitat (1:10,000) SES and AP ES
Community Area 2: Colwich to Yarlet	

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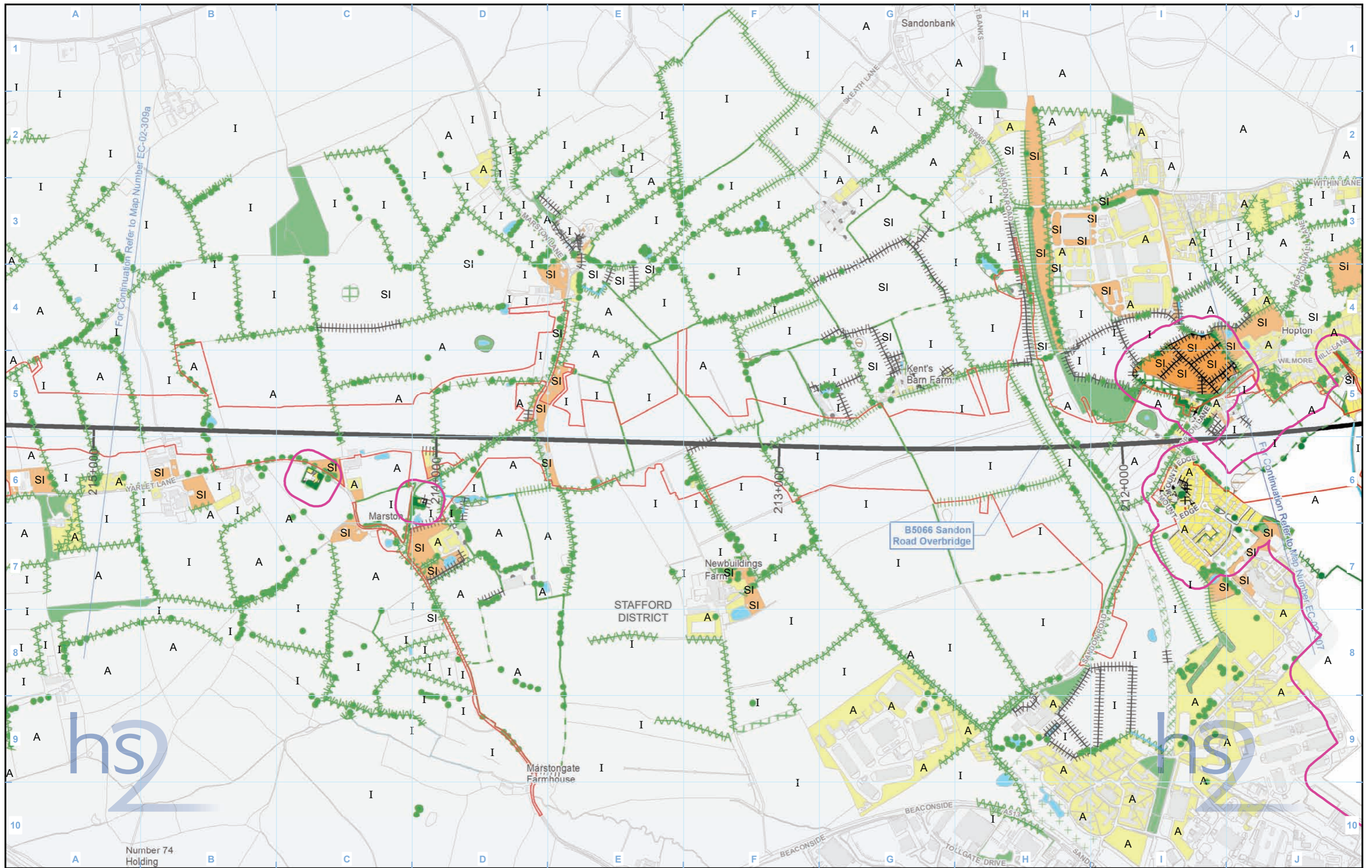
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Doc Number: 2PT01-ARP-EV-MAP-000-072307-P03

Scale at A3: 1:10,000

Date: 13/02/18





**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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number  
**EC-02-308**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 2:  
Colwich to Yarlet

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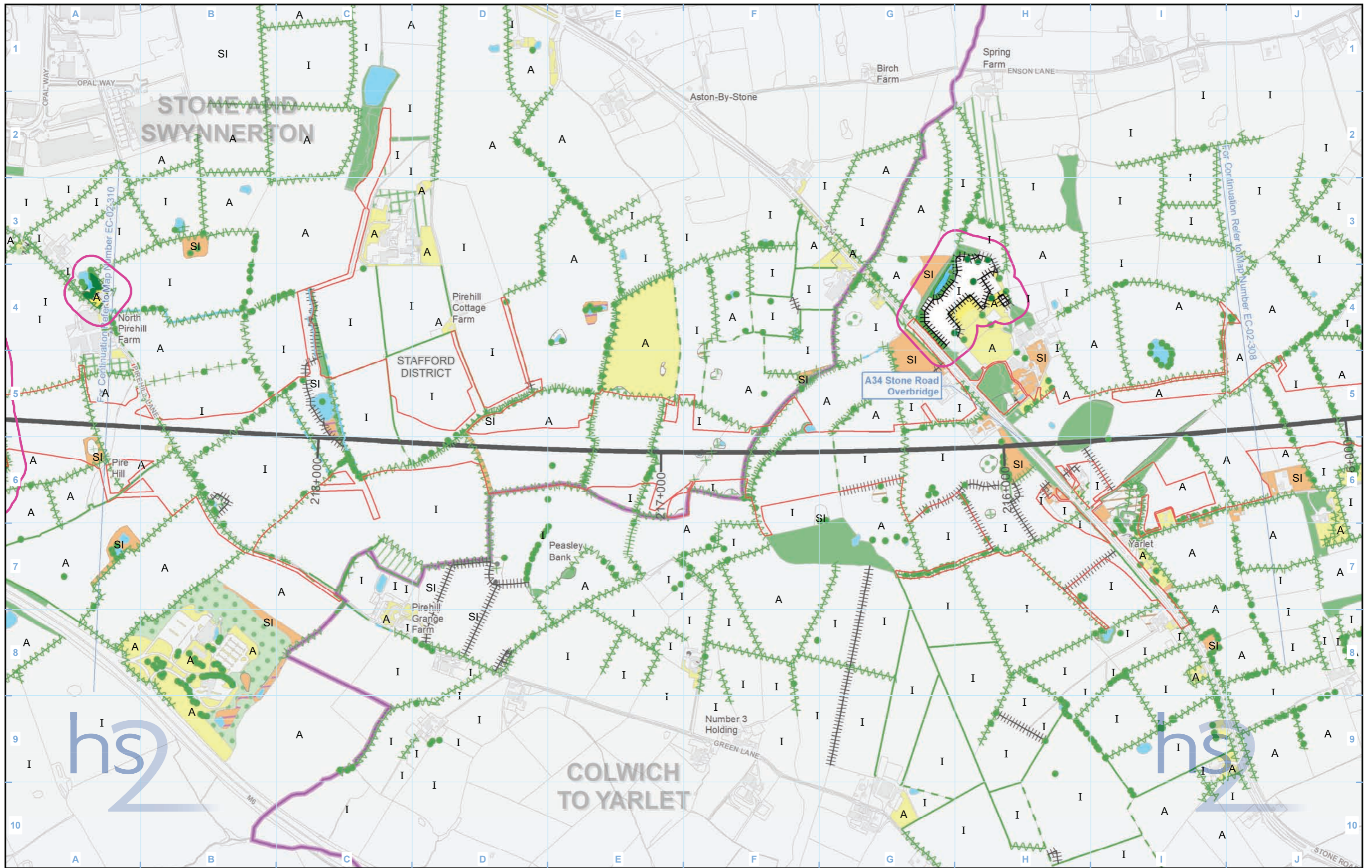
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**Legend**

- 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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-309a

Map Name: Phase 1 Habitat (1:10,000) SES and AP ES

Community Area 2: Colwich to Yarlet

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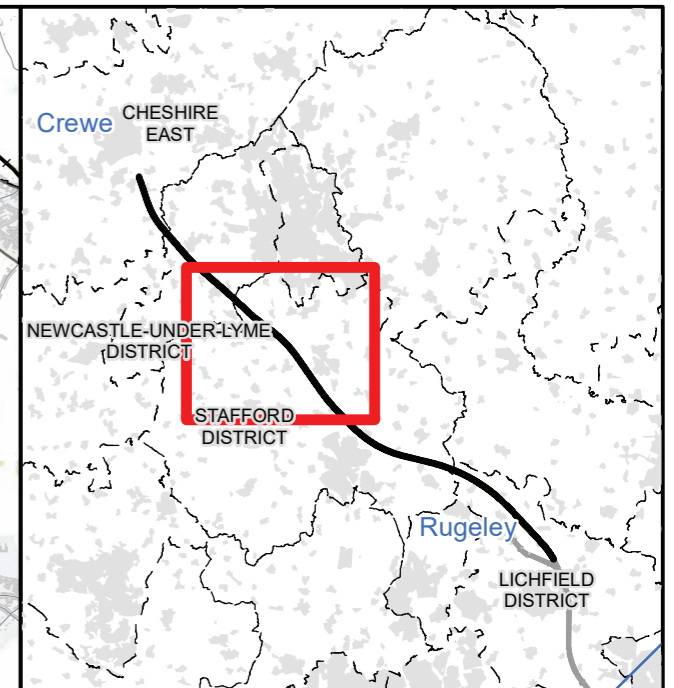
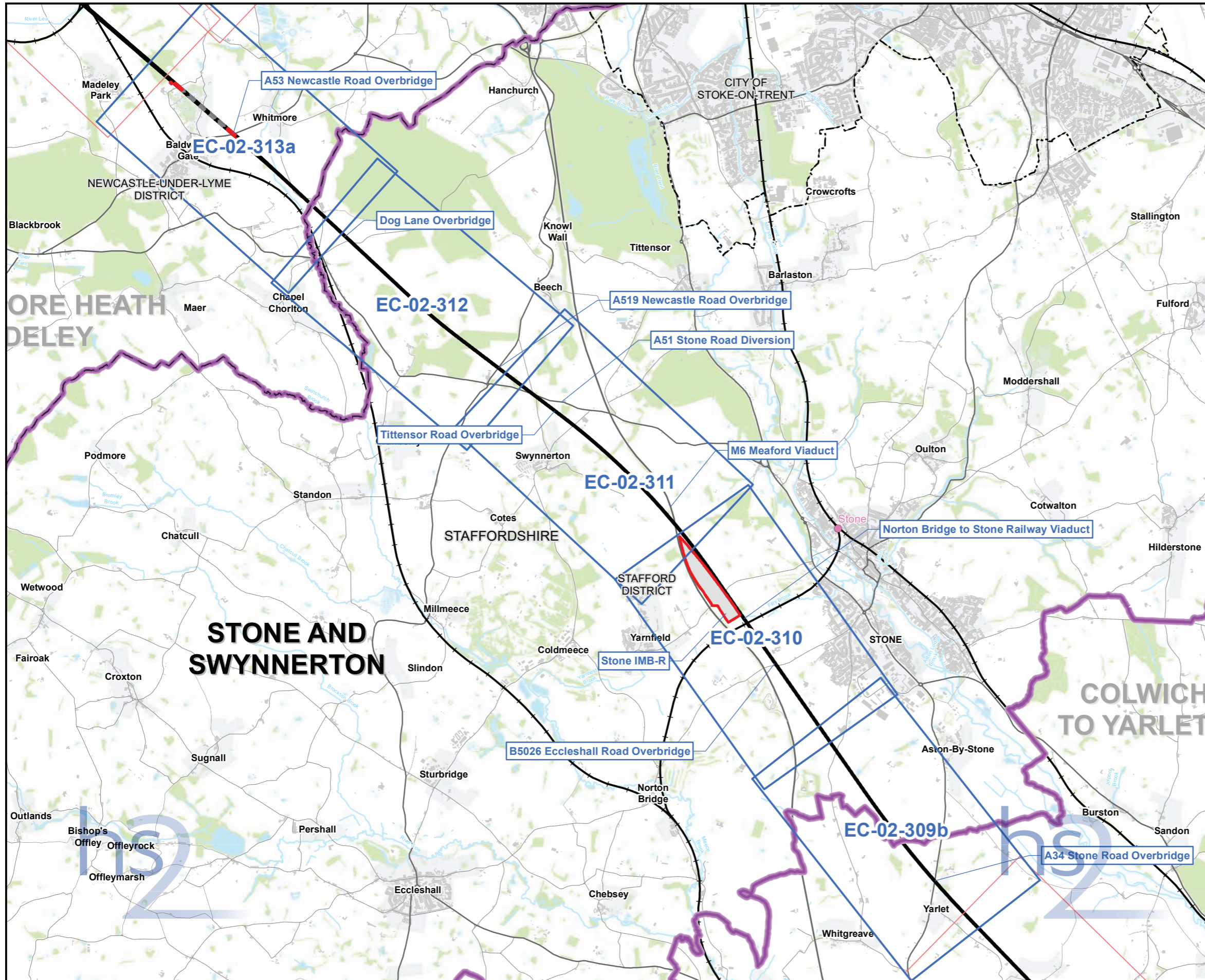
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Doc Number: 2PT01-ARP-EV-MAP-000-072309-P03

Date: 13/02/18

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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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-02-INDEX-CA3
Map Name	Index Map of: Phase 1 Habitat (1:10,000) SES and AP ES
	Community Area 3: Stone and Swynnerton

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

















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Doc Number: 2PT01-ARP-EV-MAP-000-072003-P03 **Date: 13/02/18**



















## Phase 1 Habitat survey legend

### Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

### Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

### Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Number EC-02-Legend

Map Name Phase 1 Habitat  
(1:10,000)  
SES and AP ES



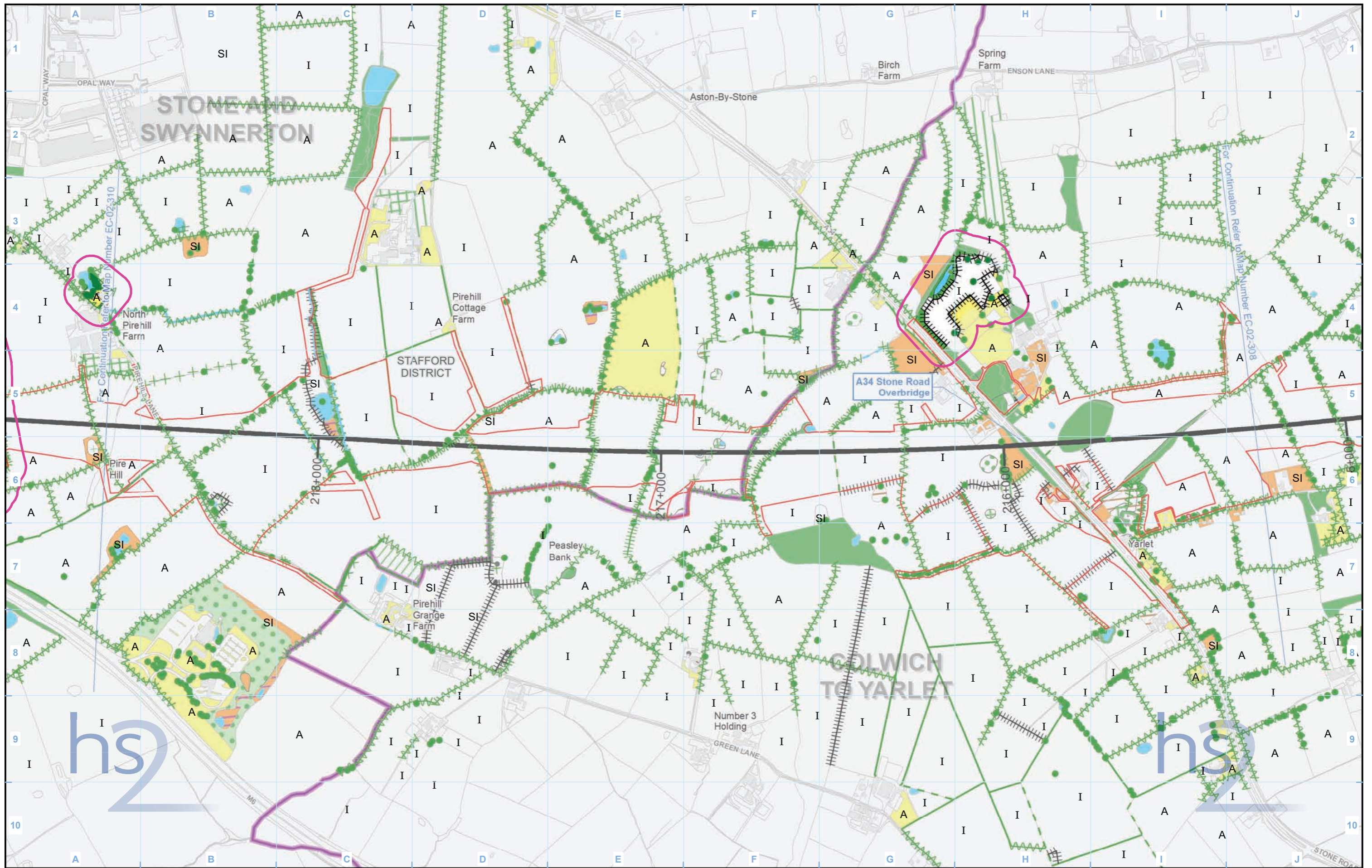
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**Legend**

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

For full legend please refer to EC-02 - Legend page

- Area contains new survey data

Map Number  
**EC-02-309b**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

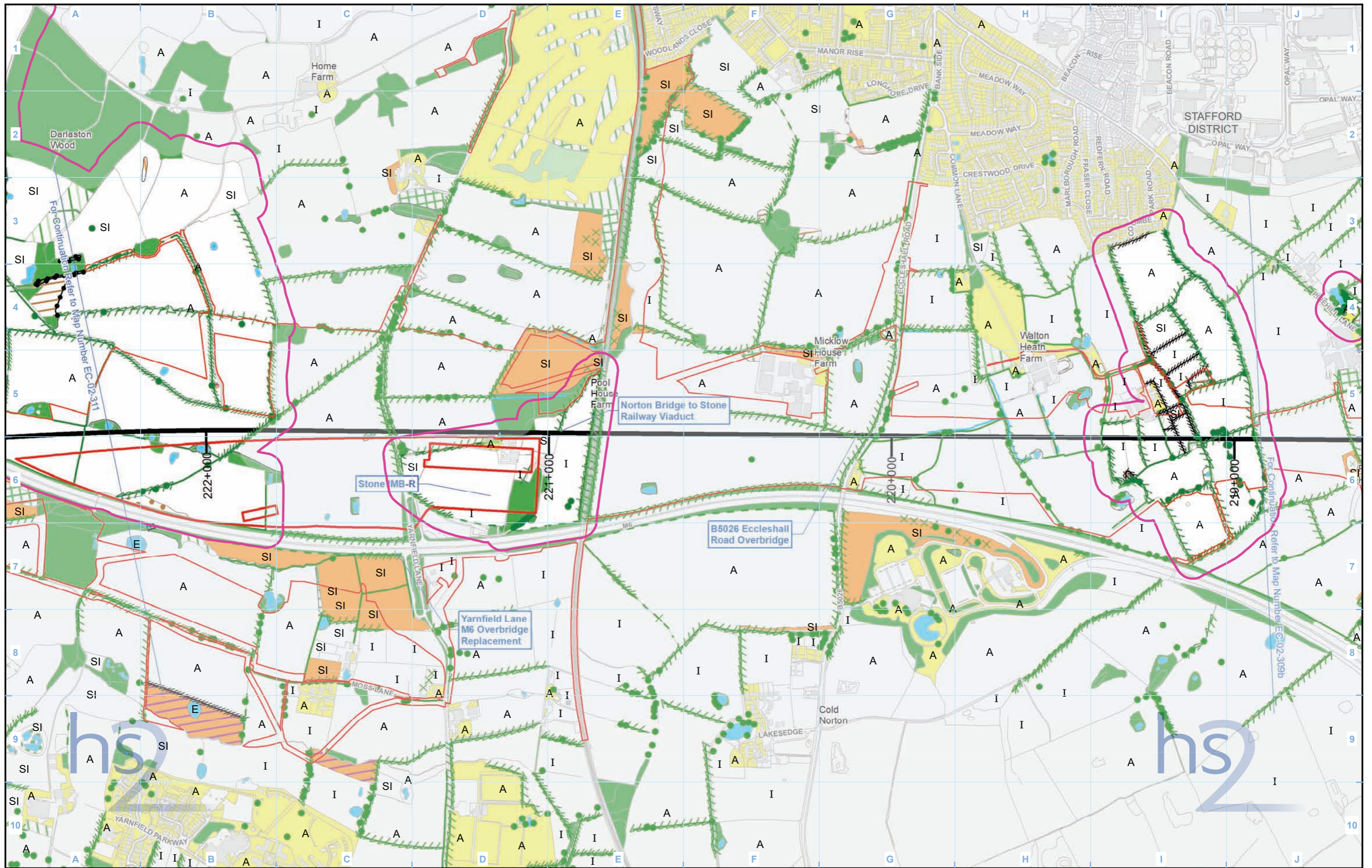
Community Area 3:  
Stone and Swynnerton

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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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number: **EC-02-310**

Map Name: **Phase 1 Habitat (1:10,000) SES and AP ES**

Community Area 3: Stone and Swynnerton

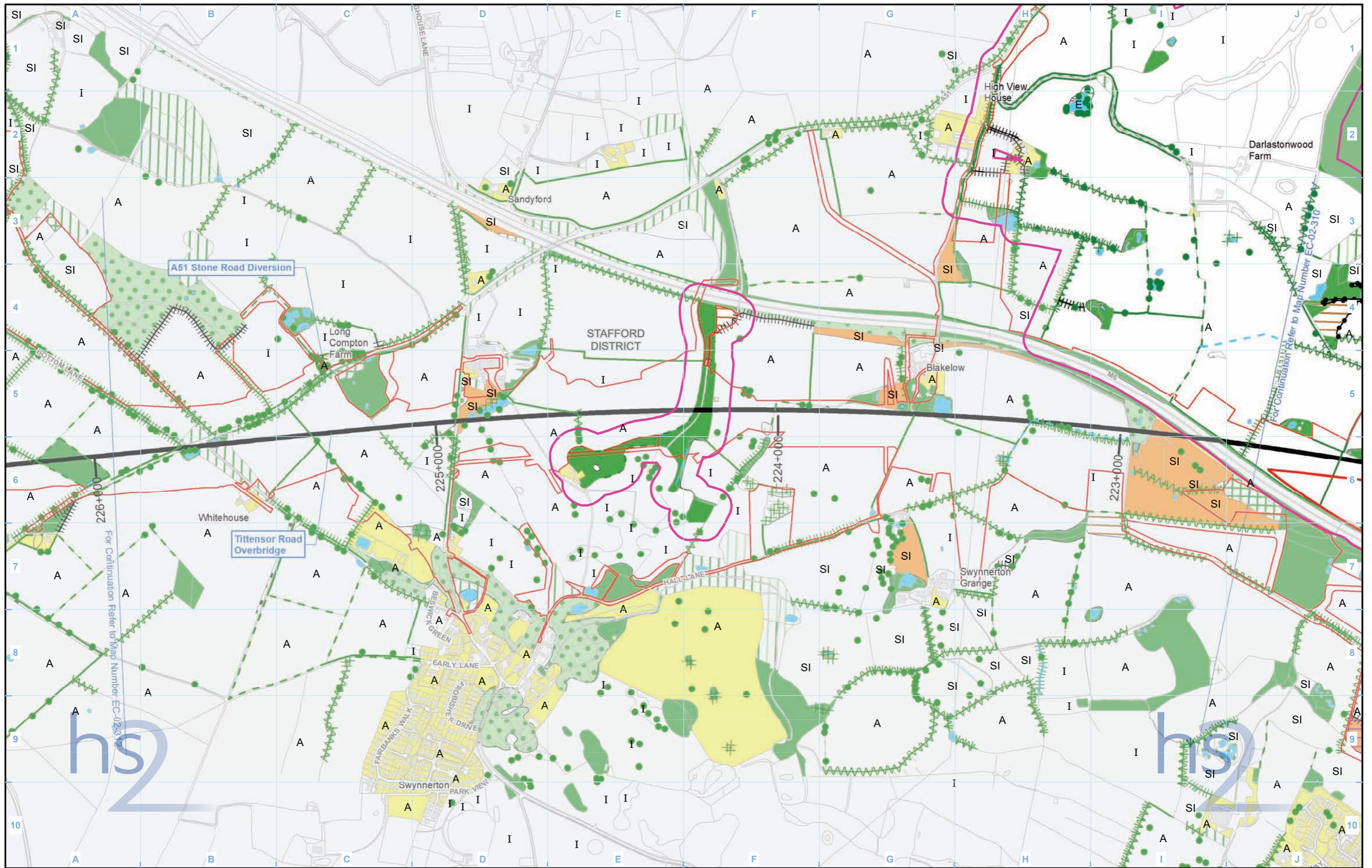
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Doc Number: 2PT01-ARP-EV-MAP-000-072310-P03

Date: 13/02/18



**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

For full legend please refer to EC-02 - Legend page

- Area contains new survey data

Map Number	EC-02-311
Map Name	Phase 1 Habitat (1:10,000) SES and AP ES
	Community Area 3: Stone and Swynnerton

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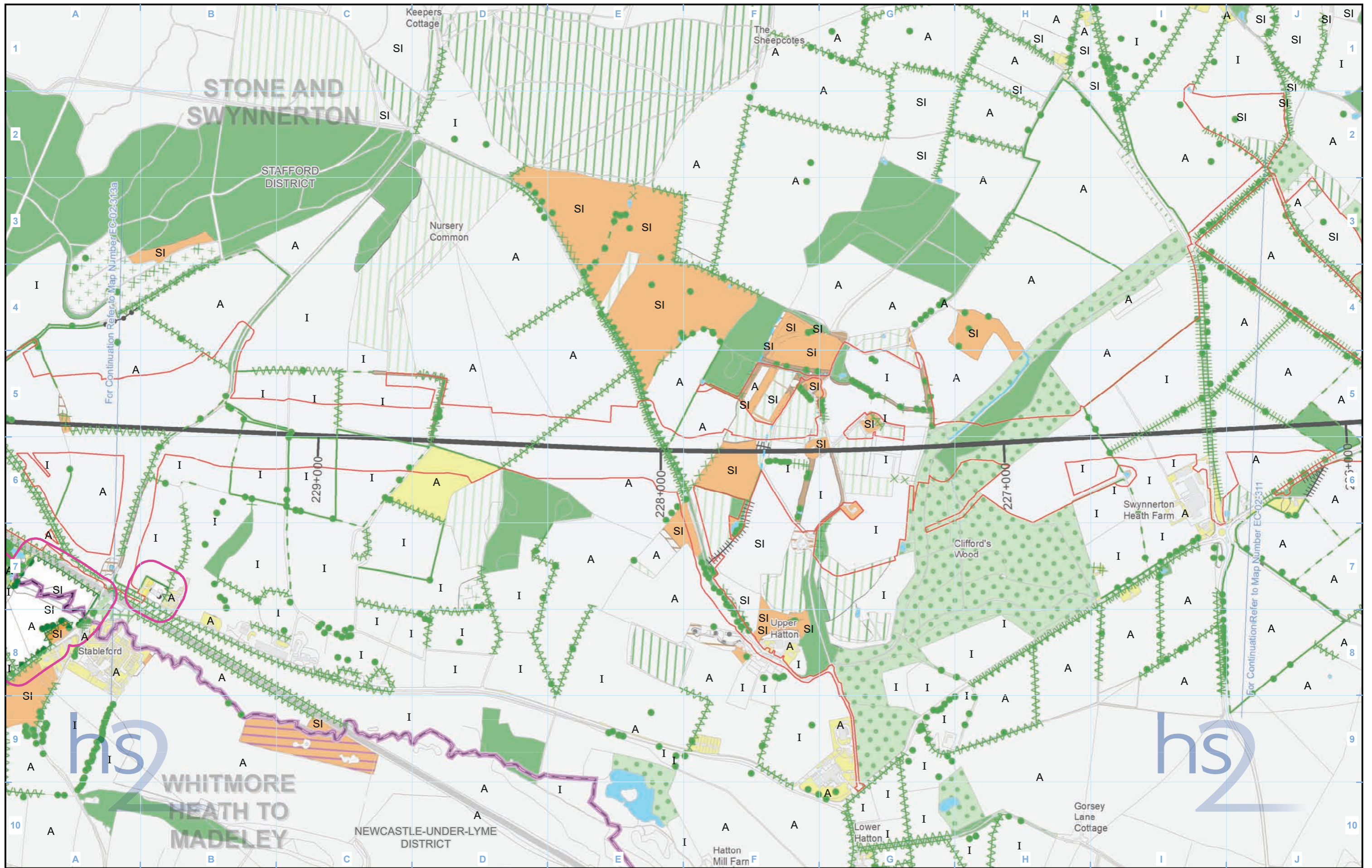
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Scale at A3: 1:10,000

Date: 13/02/18





**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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number	EC-02-312
Map Name	Phase 1 Habitat (1:10,000) SES and AP ES
	Community Area 3: Stone and Swynnerton

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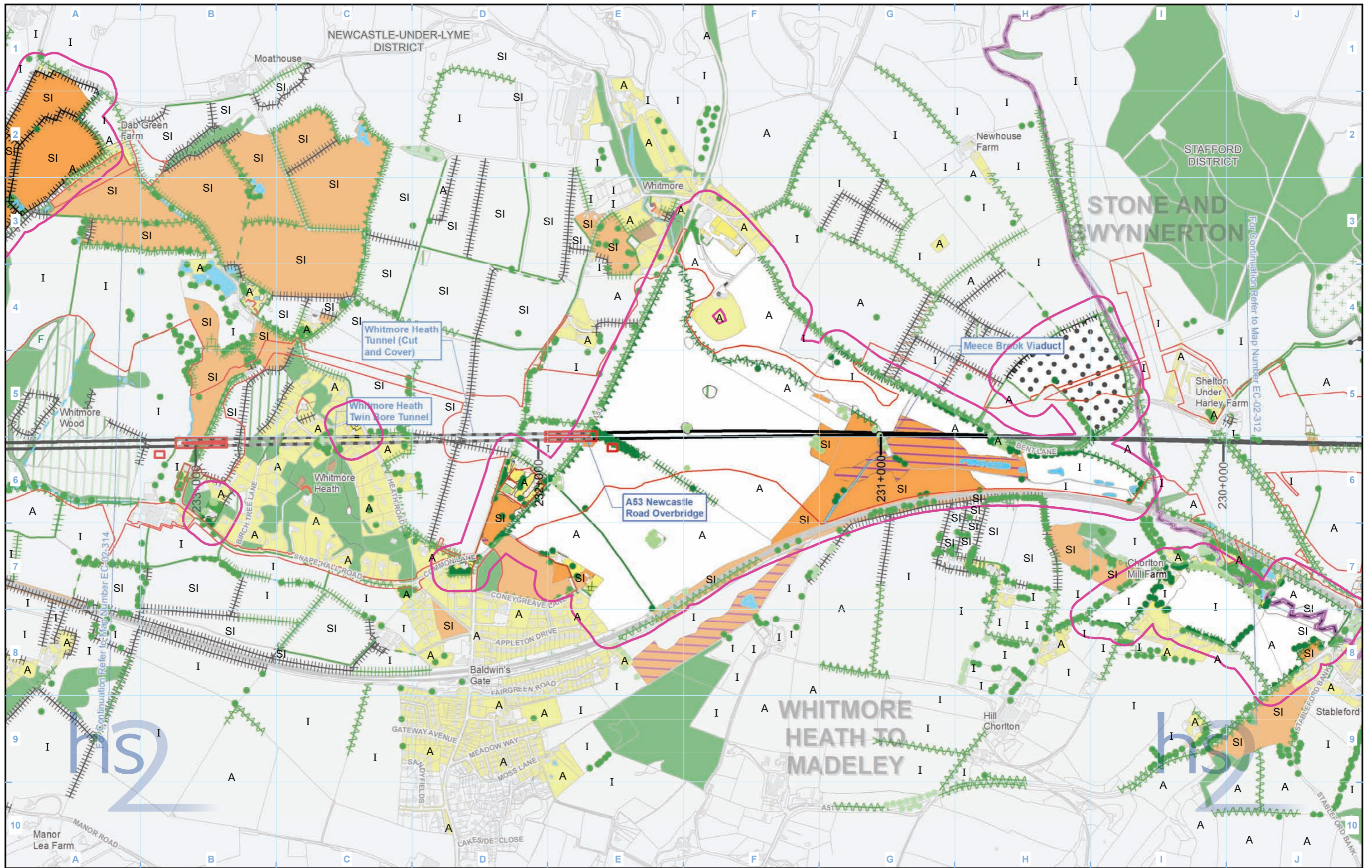
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Scale at A3: 1:10,000

Metres

Date: 13/02/18



**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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number  
**EC-02-313a**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 3:  
Stone and Swynnerton

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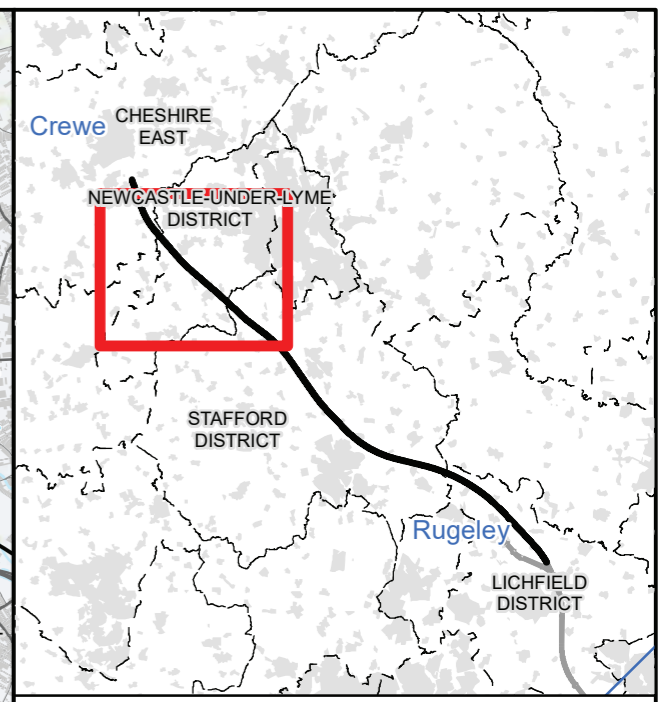
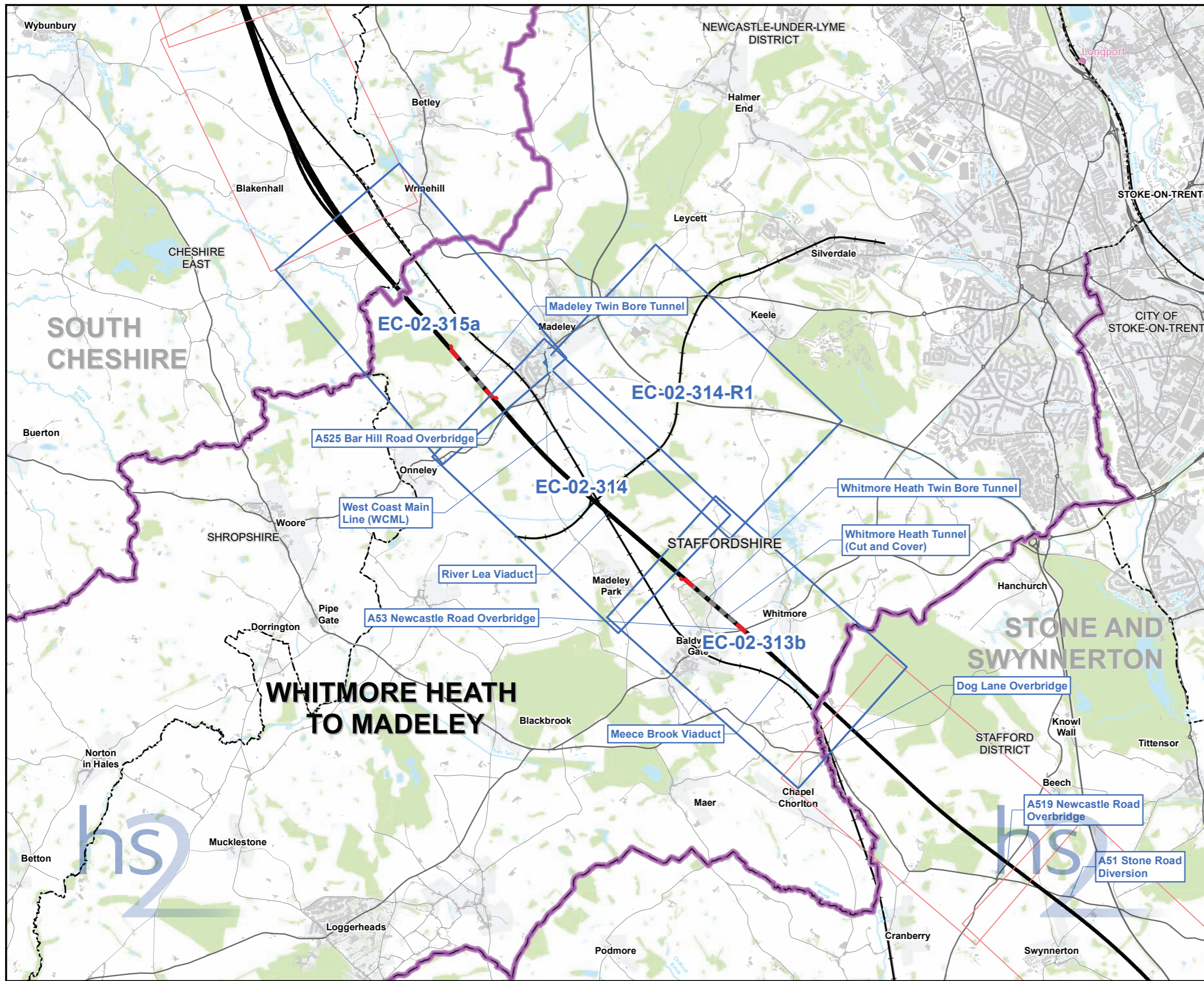
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**Main Map Legend**

- 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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-02-INDEX-CA4
Map Name	Index Map of: Phase 1 Habitat (1:10,000) SES and AP ES
	Community Area 4: Whitmore Heath to Madeley

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

















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




## Phase 1 Habitat survey legend

### Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

### Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

### Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Number EC-02-Legend

Map Name Phase 1 Habitat  
(1:10,000)  
SES and AP ES



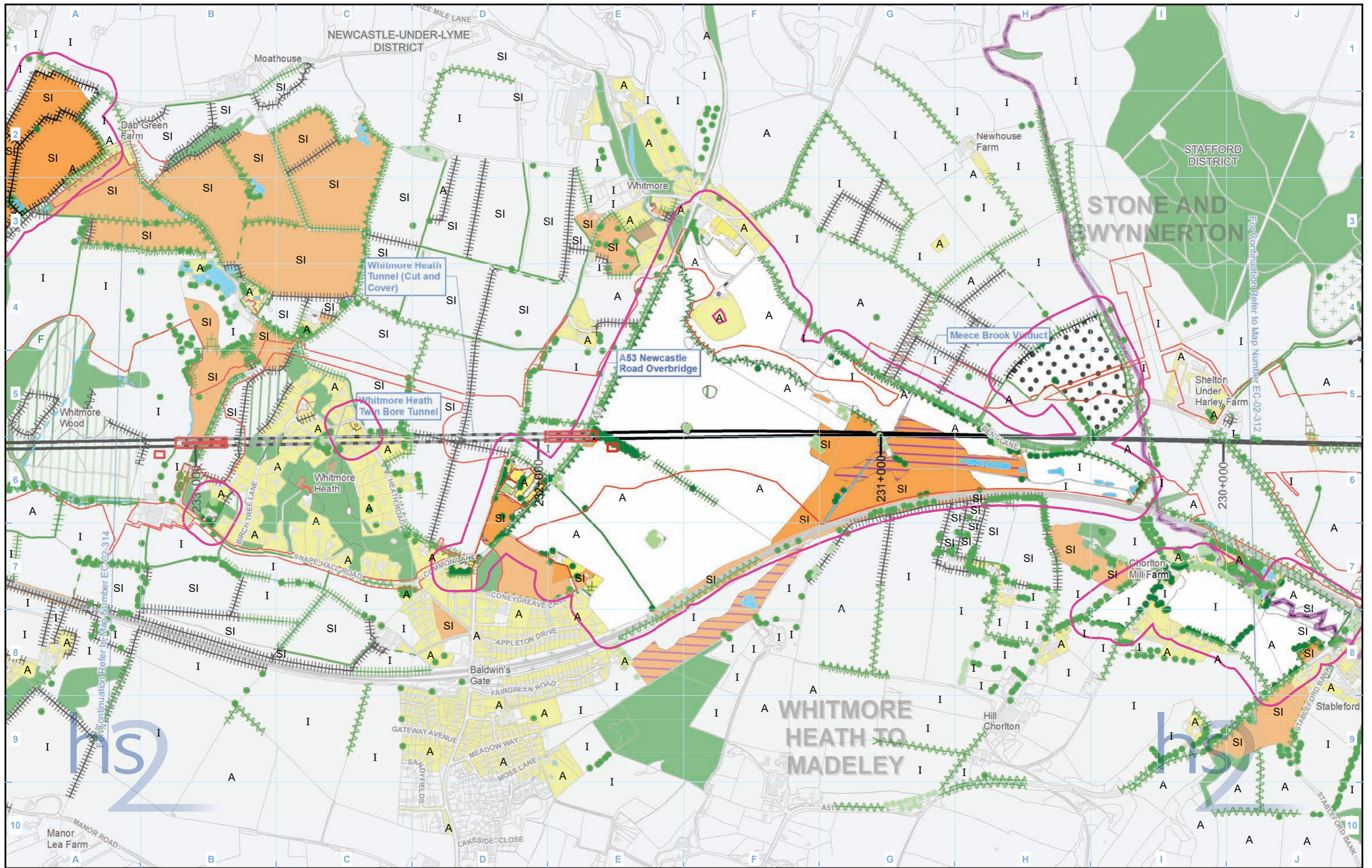
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**Legend**

- 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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number  
**EC-02-313b**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 4:  
Whitmore Heath to Madeley

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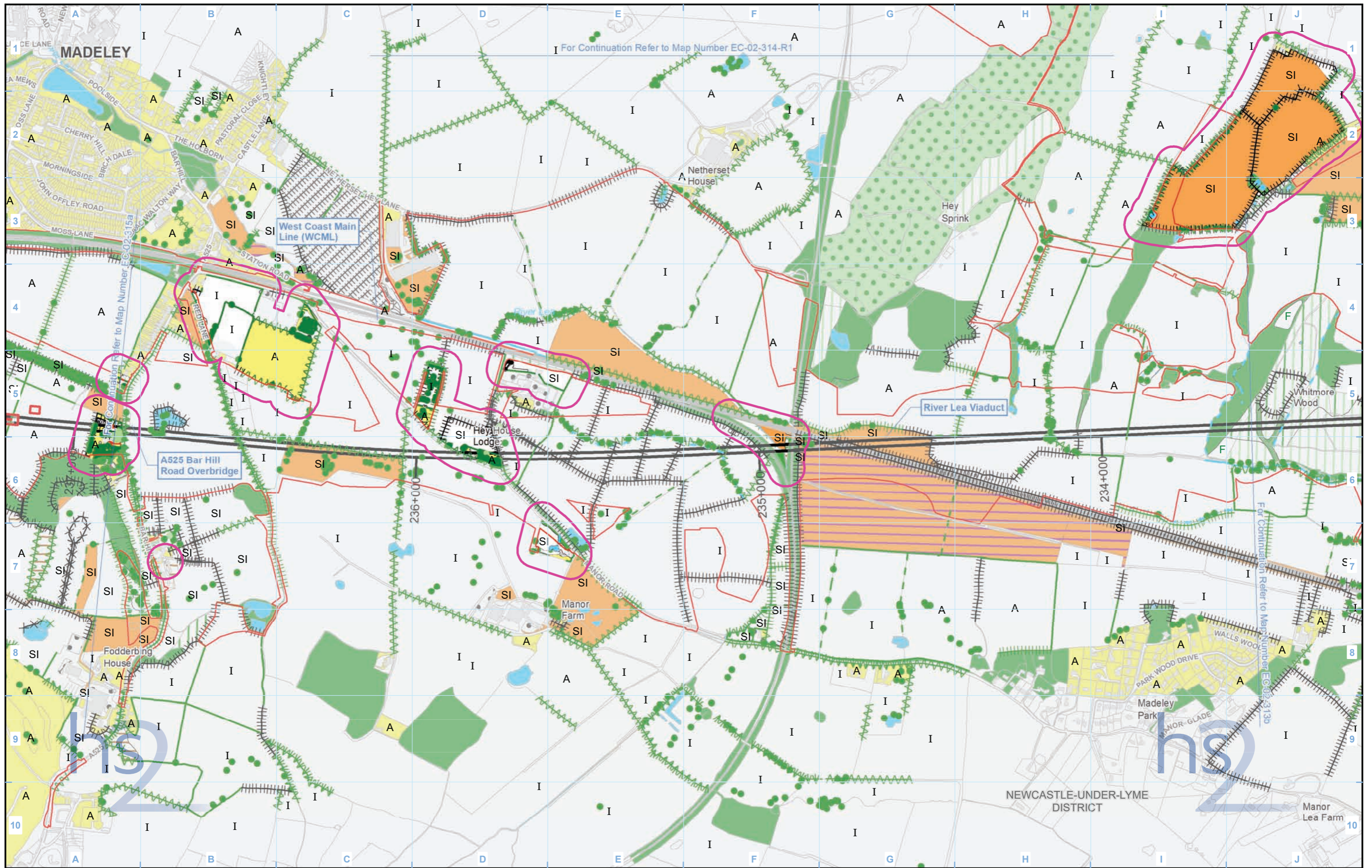
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**Legend**

- 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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-314

Map Name: Phase 1 Habitat (1:10,000) SES and AP ES

Community Area 4: Whitmore Heath to Madeley

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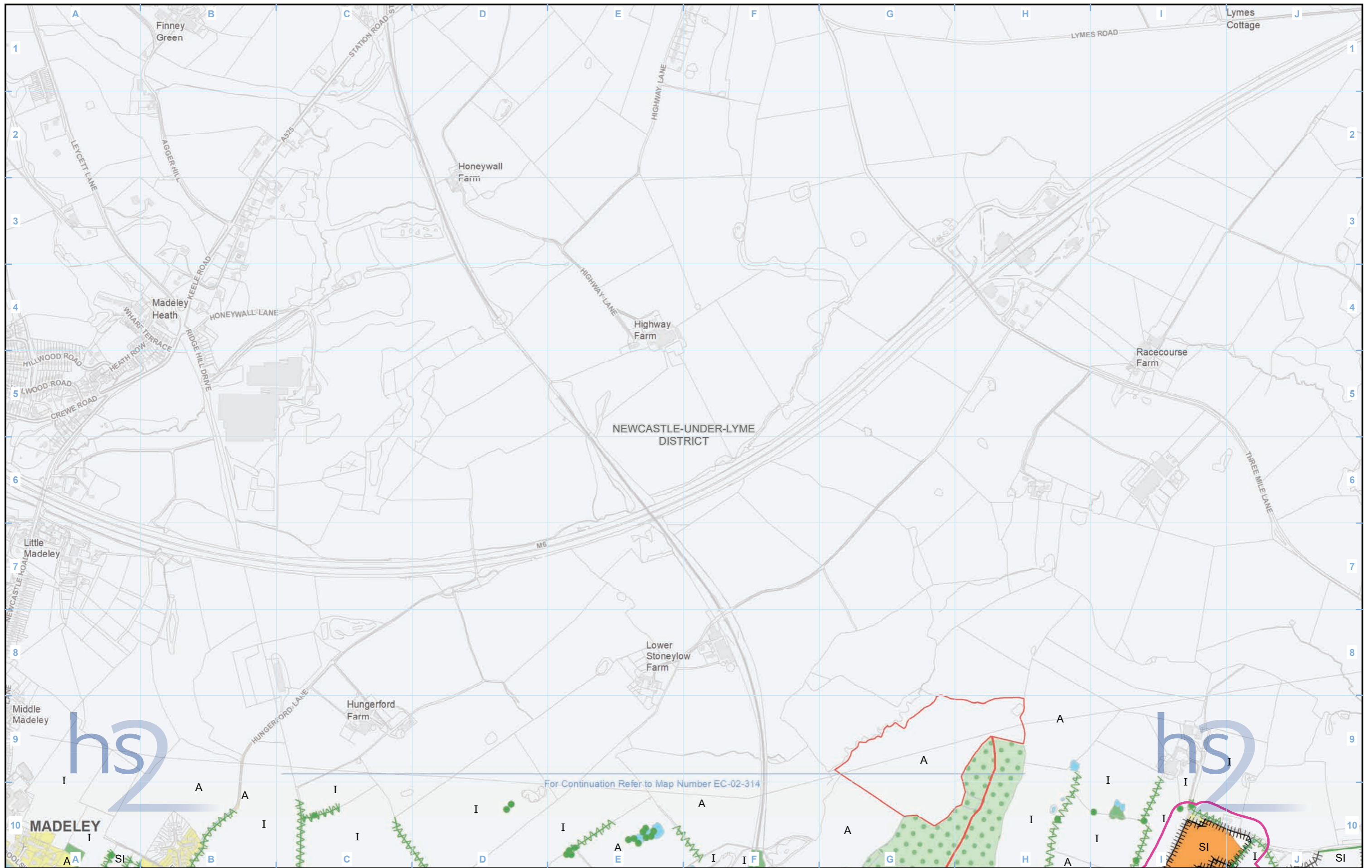
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Doc Number: 2PT01-ARP-EV-MAP-000-072314-P03

Date: 13/02/18



**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

For full legend please refer to EC-02 - Legend page

Area contains new survey data

For Continuation Refer to Map Number EC-02-314

Map Number	EC-02-314-R1
Map Name	Phase 1 Habitat (1:10,000) SES and AP ES
	Community Area 4: Whitmore Heath to Madeley

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Metres

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Date: 13/02/18





**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
- Area contains new survey data

For full legend please refer to EC-02 - Legend page

Map Number: EC-02-315a

Map Name: Phase 1 Habitat (1:10,000) SES and AP ES

Community Area 4: Whitmore Heath to Madeley

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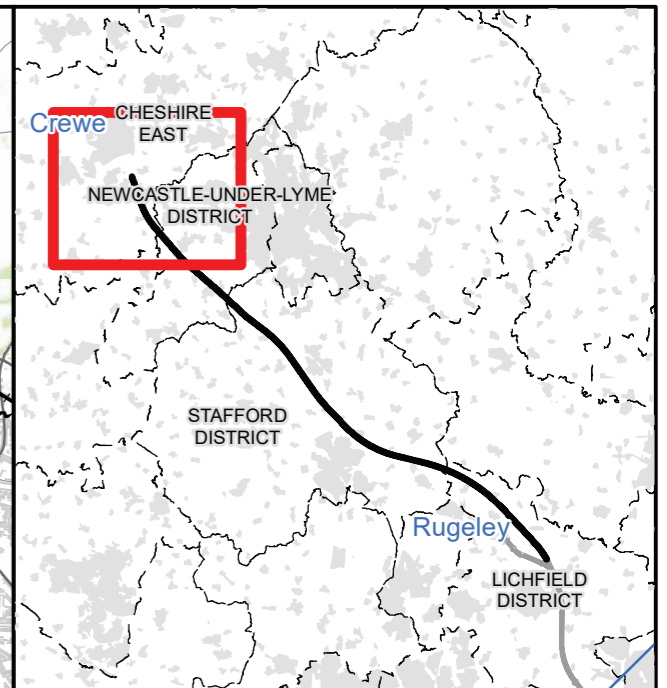
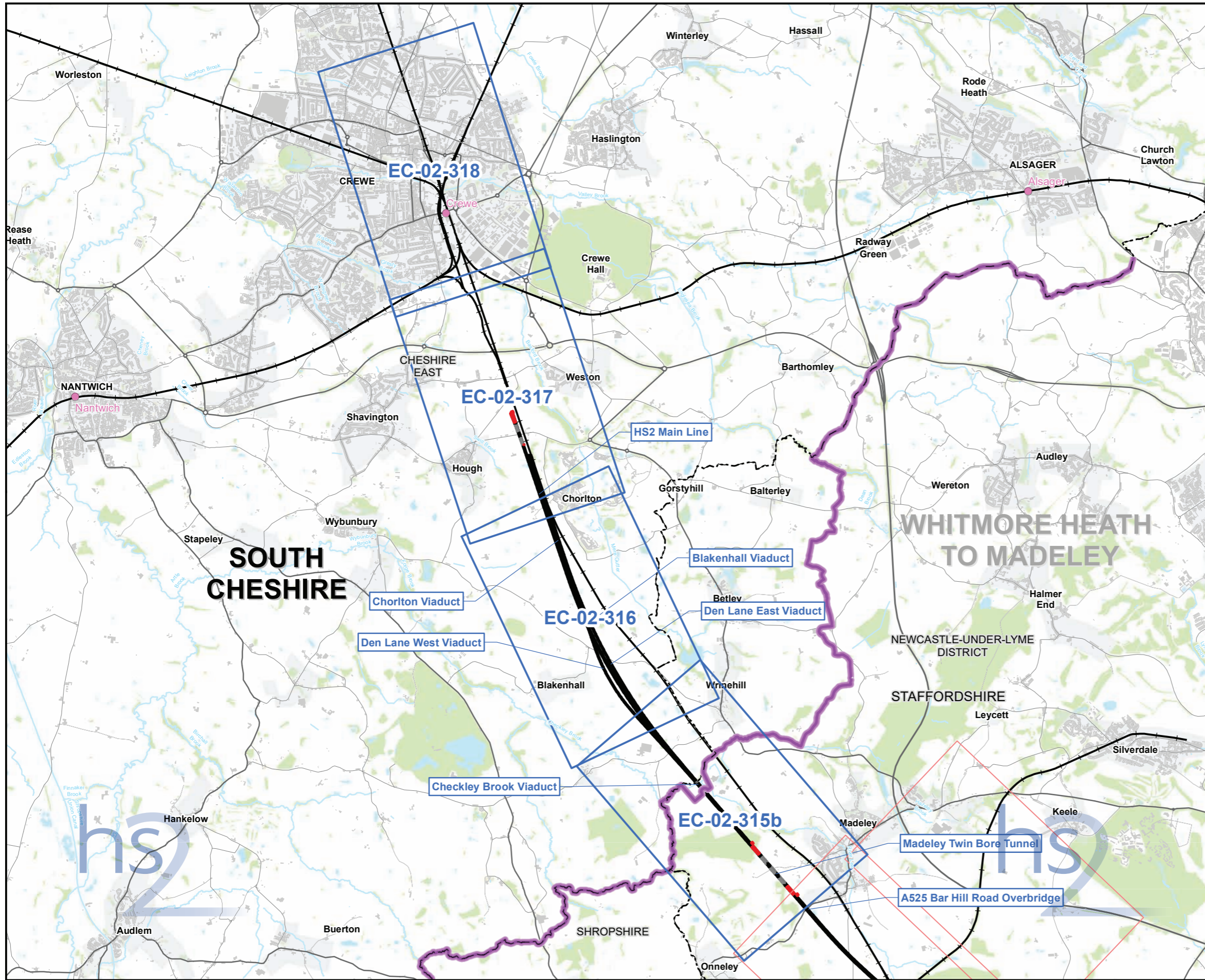
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Doc Number: 2PT01-ARP-EV-MAP-000-072315-P03

Date: 13/02/18

Scale at A3: 1:10,000

0 100 200 300 400 Metres



**Map Series Information:**

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the CCB, the information is based on available desk study and interpretation of aerial photography.

**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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-02-INDEX-CA5
Map Name	Index Map of: Phase 1 Habitat (1:10,000) SES and AP ES
	Community Area 5: South Cheshire

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Scale at A3: 1:60,000






















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Doc Number: 2PT01-ARP-EV-MAP-000-072005-P03 **Date: 13/02/18**



















## Phase 1 Habitat survey legend

### Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

### Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

### Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Number EC-02-Legend

Map Name Phase 1 Habitat  
(1:10,000)  
SES and AP ES



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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

For full legend please refer to EC-02 - Legend page

- Area contains new survey data

Map Number	EC-02-315b
Map Name	Phase 1 Habitat (1:10,000) SES and AP ES
	Community Area 5: South Cheshire

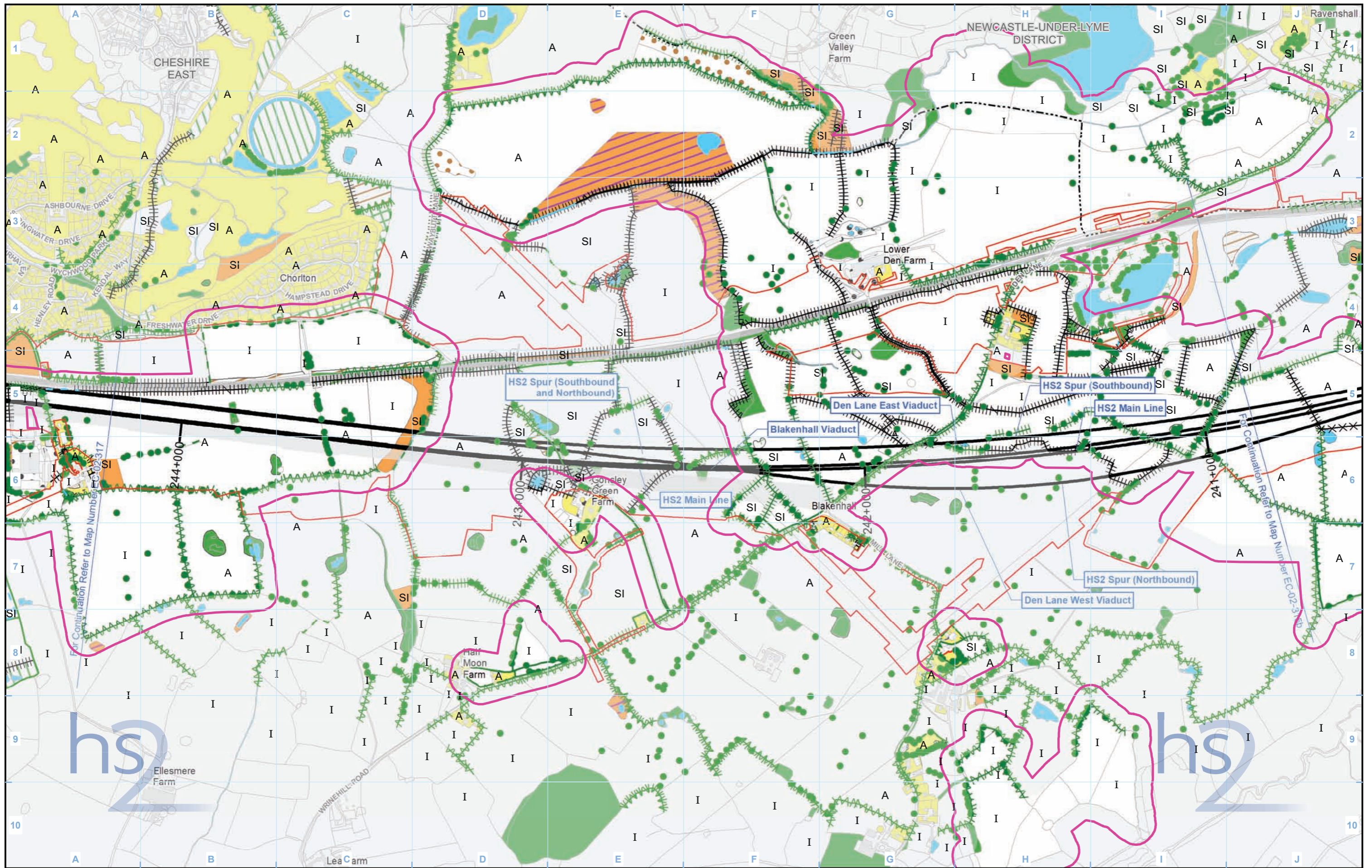
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Scale at A3: 1:10,000

Date: 13/02/18



**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

For full legend please refer to EC-02 - Legend page

- Area contains new survey data

Map Number  
**EC-02-316**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 5:  
South Cheshire

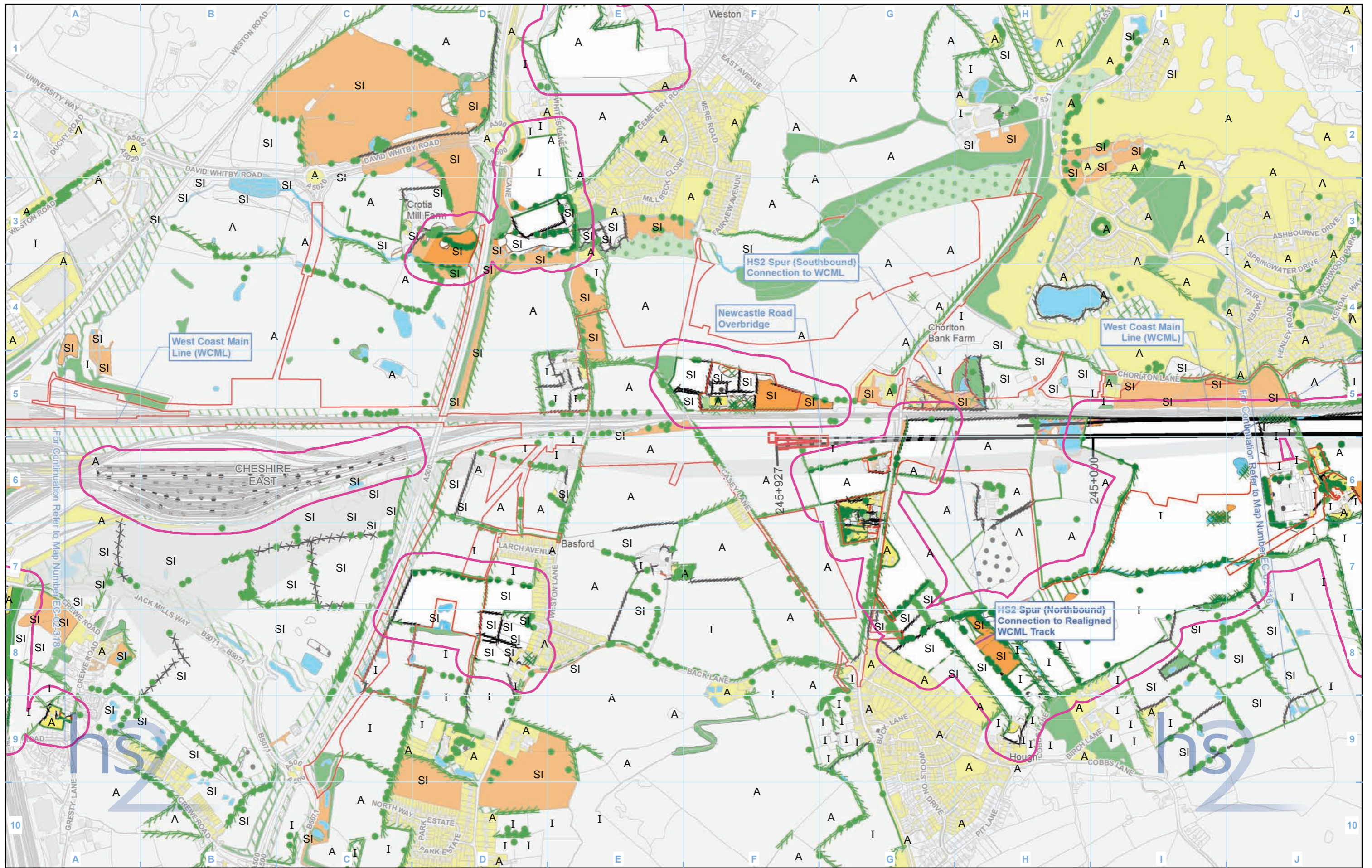
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Date: 13/02/18



**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

For full legend please refer to EC-02 - Legend page

- Area contains new survey data

Map Number  
**EC-02-317**

Map Name  
**Phase 1 Habitat  
(1:10,000)  
SES and AP ES**

Community Area 5:  
South Cheshire

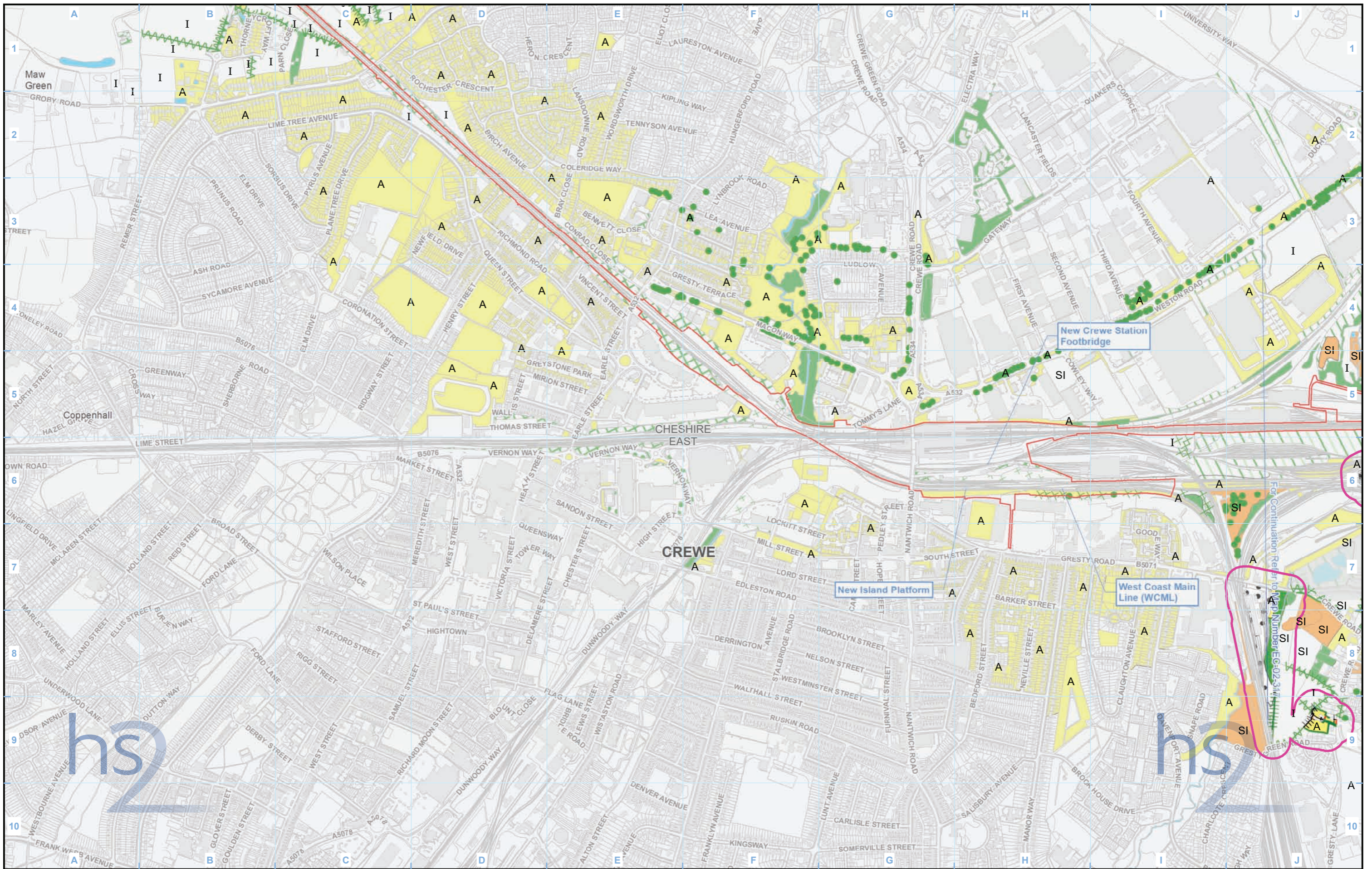
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Date: 15/02/18



**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

For full legend please refer to EC-02 - Legend page

- Area contains new survey data

Map Number **EC-02-318**

Map Name **Phase 1 Habitat (1:10,000) SES and AP ES**

Community Area 5: South Cheshire

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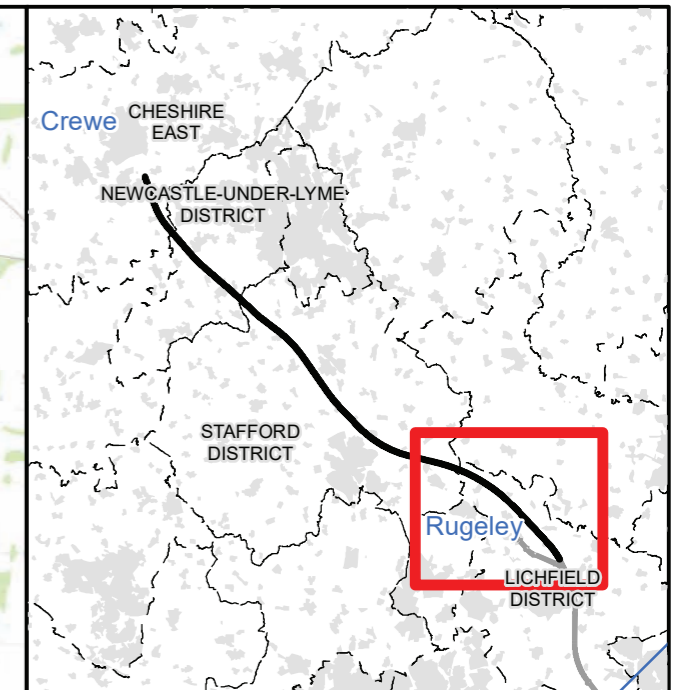
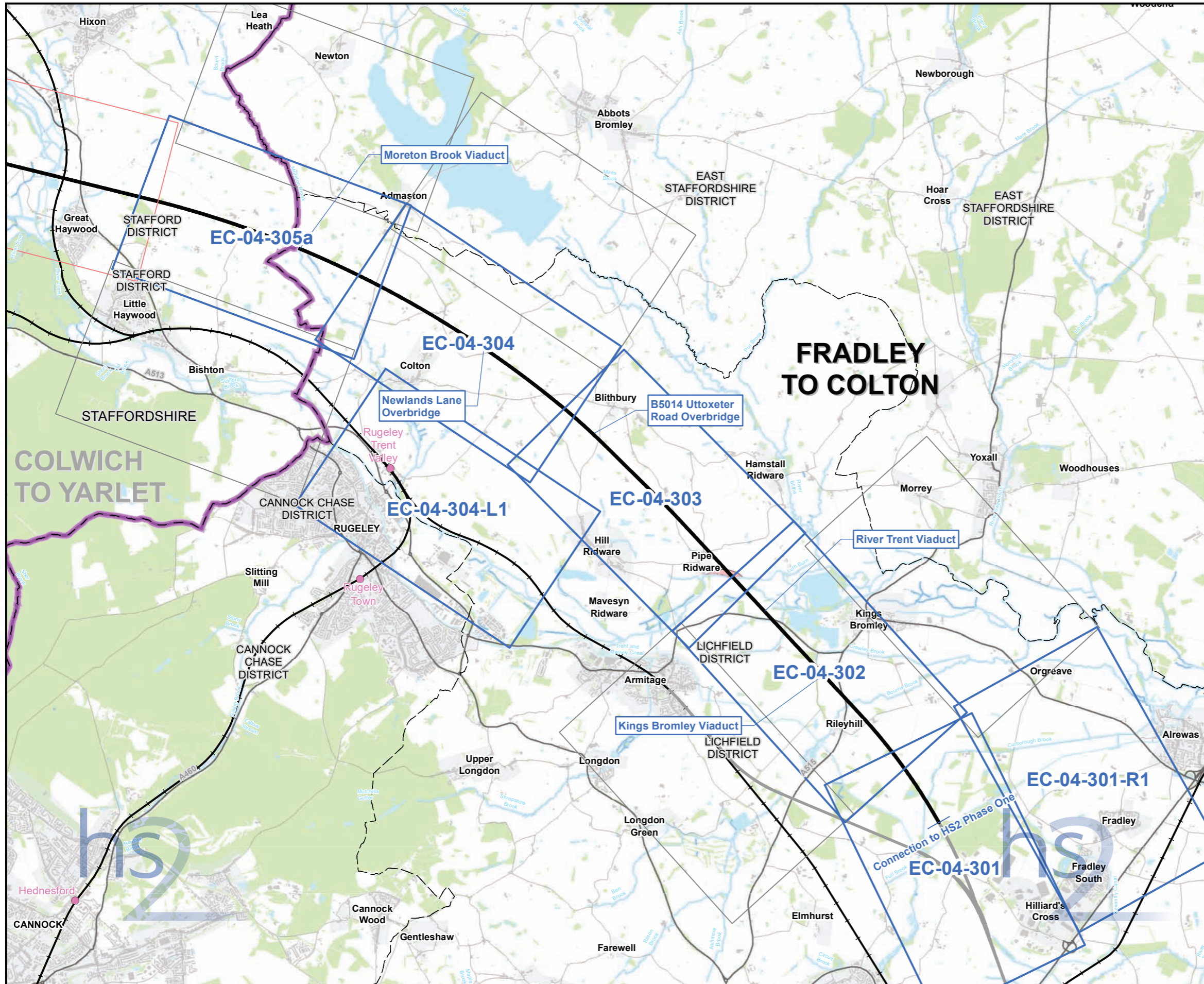
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Doc Number: 2PT01-ARP-EV-MAP-000-072318-P03 **Date: 13/02/18**

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High Speed Two Phase 2a (West Midlands - Crewe)  
Background Information and Data  
**EC-04 - Amphibians**



**Map Series Information:**

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 conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded

**Main Map Legend**

- Route in bored 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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-04-INDEX-CA1
Map Name	Index Map of: Amphibians SES and AP ES Community Area 1: Fradley to Colton

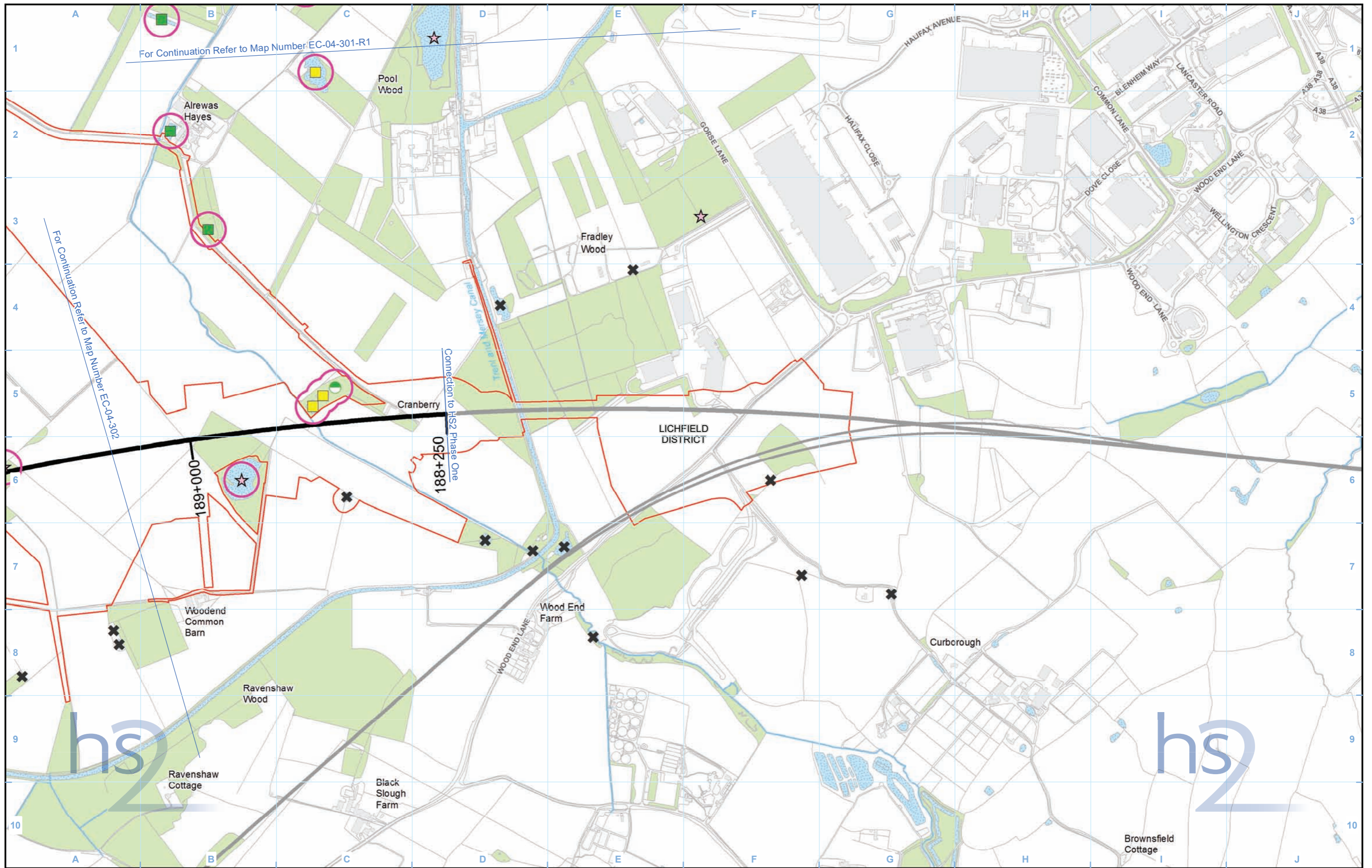
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Doc Number: 2PT01-ARP-EV-MAP-000-074001-P03 **Date: 13/02/18**



Legend			
	Route in bored tunnel		eDNA survey complete - result inconclusive
	Route on surface		eDNA survey complete - Great Crested Newts assumed absent
	Depot, station, headhouse or portal building		Survey complete, Great Crested Newts assumed absent
	Land potentially required during construction		Scoped in - no access permission
	Community area boundary		Scoped out - no survey required
	County boundary		District/Borough boundary
	Watercourse		Water body
	Woodland (not verified by survey)		
	Area contains new survey data		

Map Number	EC-04-301
Map Name	Amphibians SES and AP ES
	Community Area 1: Fradley to Colton

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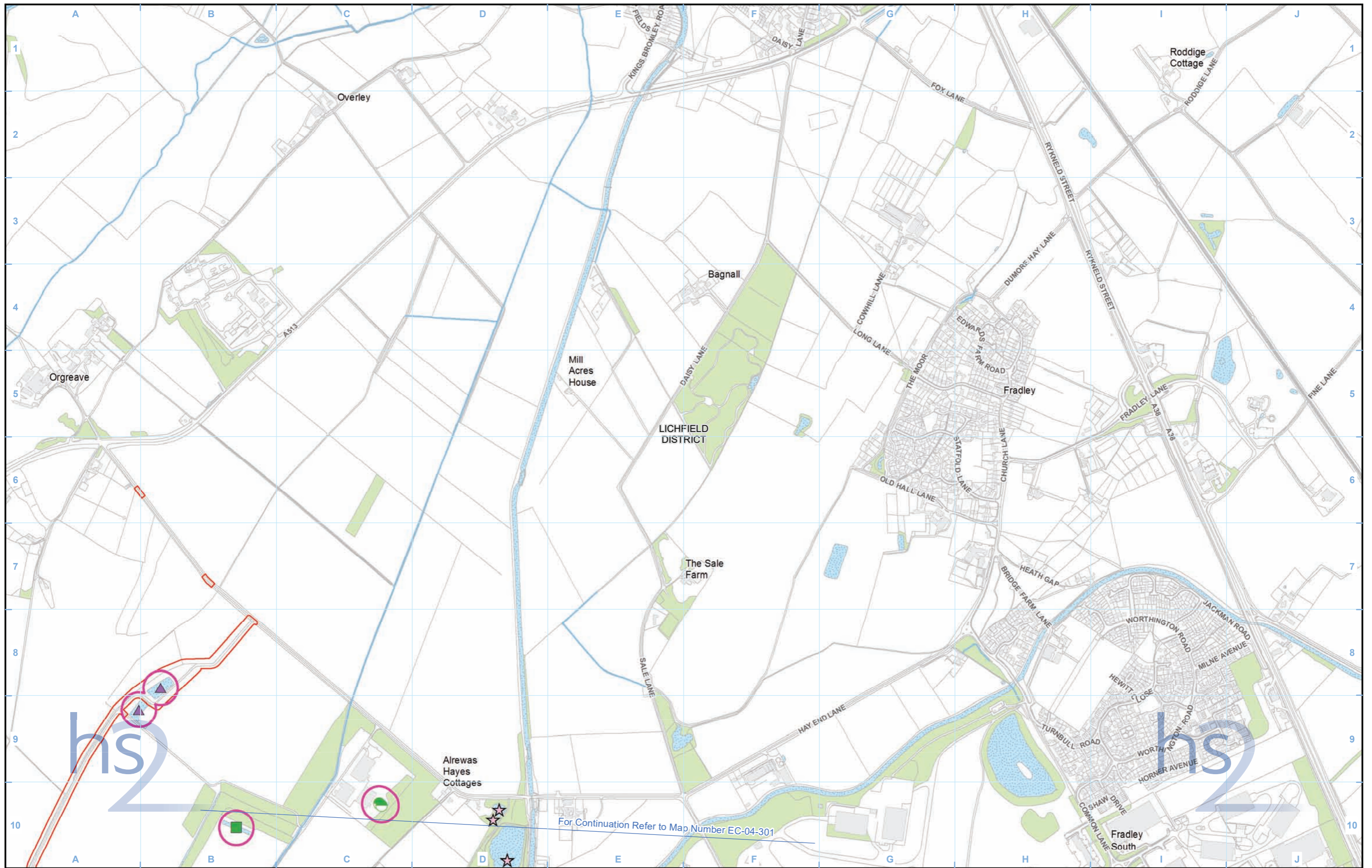
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Doc Number:2PT01-ARP-EV-MAP-000-074301-P03

Date: 13/02/18



Legend		

For Continuation Refer to Map Number EC-04-301

Map Number	EC-04-301-R1
Map Name	Amphibians SES and AP ES
	Community Area 1: Fradley to Colton

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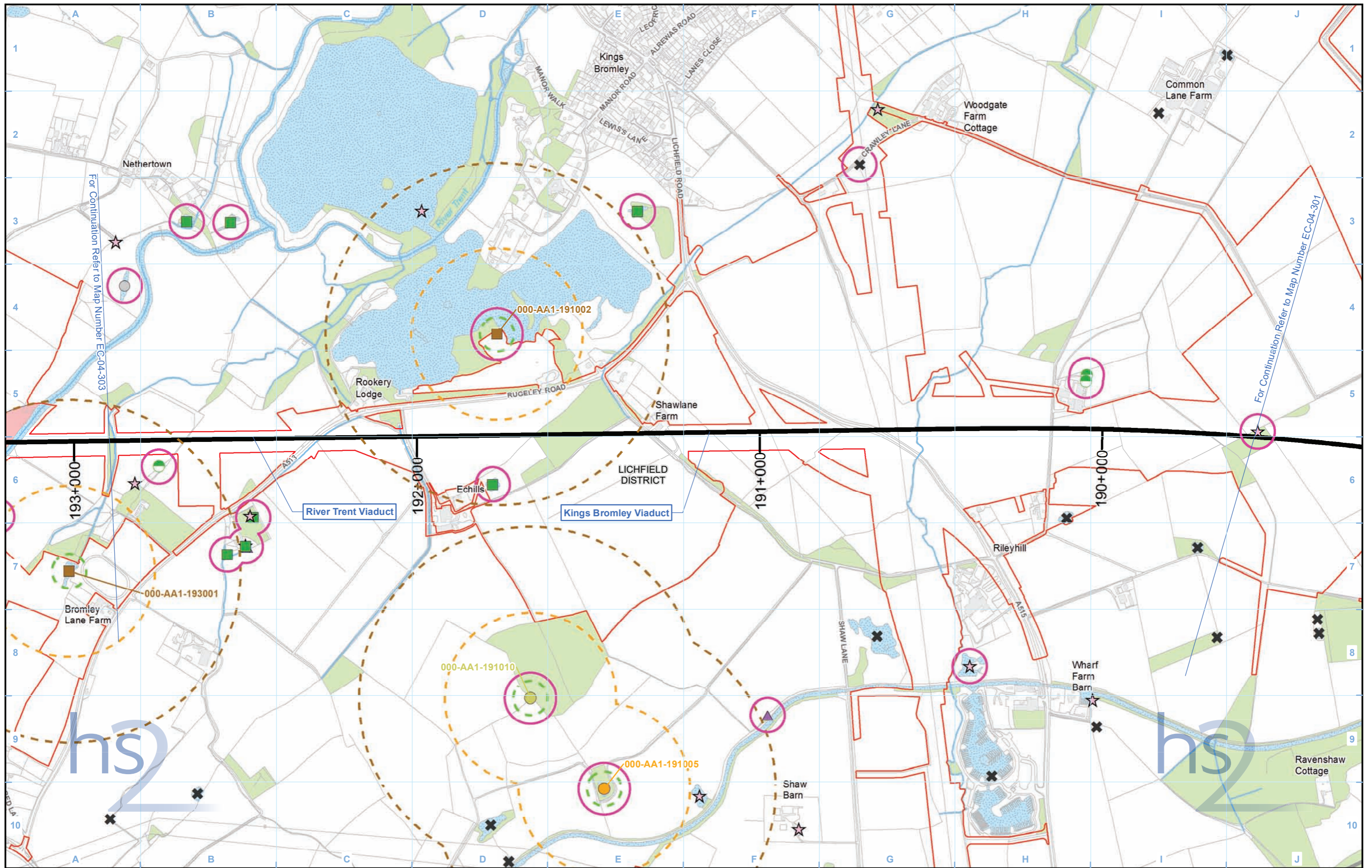
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Date: 13/02/18

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**Legend**

<ul style="list-style-type: none"> <li>Route in bored tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <li>Community area boundary</li> <li>County boundary</li> </ul>	<ul style="list-style-type: none"> <li>District/Borough boundary</li> <li>Watercourse</li> <li>Water body</li> <li>Woodland (not verified by survey)</li> <li>Area contains new survey data</li> </ul>	<ul style="list-style-type: none"> <li>eDNA survey complete - Great Crested Newts present</li> <li>eDNA survey complete - Great Crested Newts assumed absent</li> <li>Great Crested Newts present (6 visits) - medium population (11 - 99 adults)</li> <li>Great Crested Newts present (6 visits) - small population (1 - 10 adults)</li> <li>Survey complete, Great Crested Newts assumed absent</li> <li>Survey incomplete, no Great Crested Newts found</li> <li>Scoped in - Habitat Suitability Index (HSI)/walkover only</li> </ul>	<ul style="list-style-type: none"> <li>Scoped in - no access permission</li> <li>Scoped out - no survey required</li> <li>50m radius from all water bodies where presence of Great Crested Newts is confirmed</li> <li>250m radius from all water bodies where presence of Great Crested Newts is confirmed</li> <li>500m radius from all water bodies where presence of Great Crested Newts is confirmed</li> <li>Areas isolated by significant barriers to amphibian movement</li> </ul>
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Map Number: EC-04-302

Map Name: Amphibians SES and AP ES

Community Area 1: Fradley to Colton

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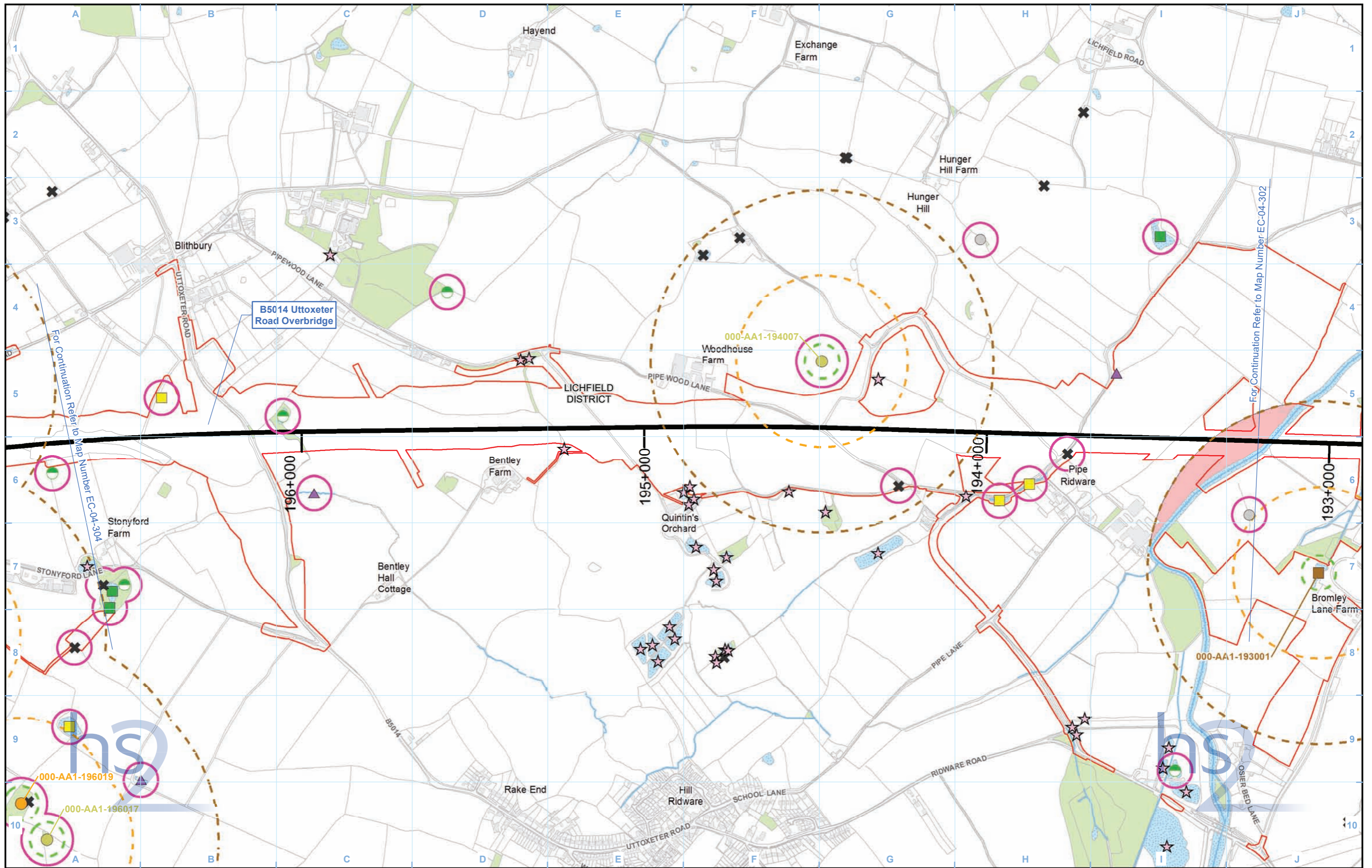
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Doc Number: 2PT01-ARP-EV-MAP-000-074302-P03

Date: 13/02/18



**Legend**

- Route in bored 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)
- Area contains new survey data

- eDNA survey complete - result inconclusive
- eDNA survey complete - Great Crested Newts present
- eDNA survey complete - Great Crested Newts assumed absent
- Great Crested Newts present (6 visits) - medium population (11 - 99 adults)

- Great Crested Newts present (6 visits) - small population (1 - 10 adults)
- Survey complete, Great Crested Newts assumed absent
- Survey incomplete, no Great Crested Newts 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 Great Crested Newts is confirmed

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

Map Number  
**EC-04-303**

Map Name  
**Amphibians  
SES and AP ES**

Community Area 1:  
**Fradley to Colton**

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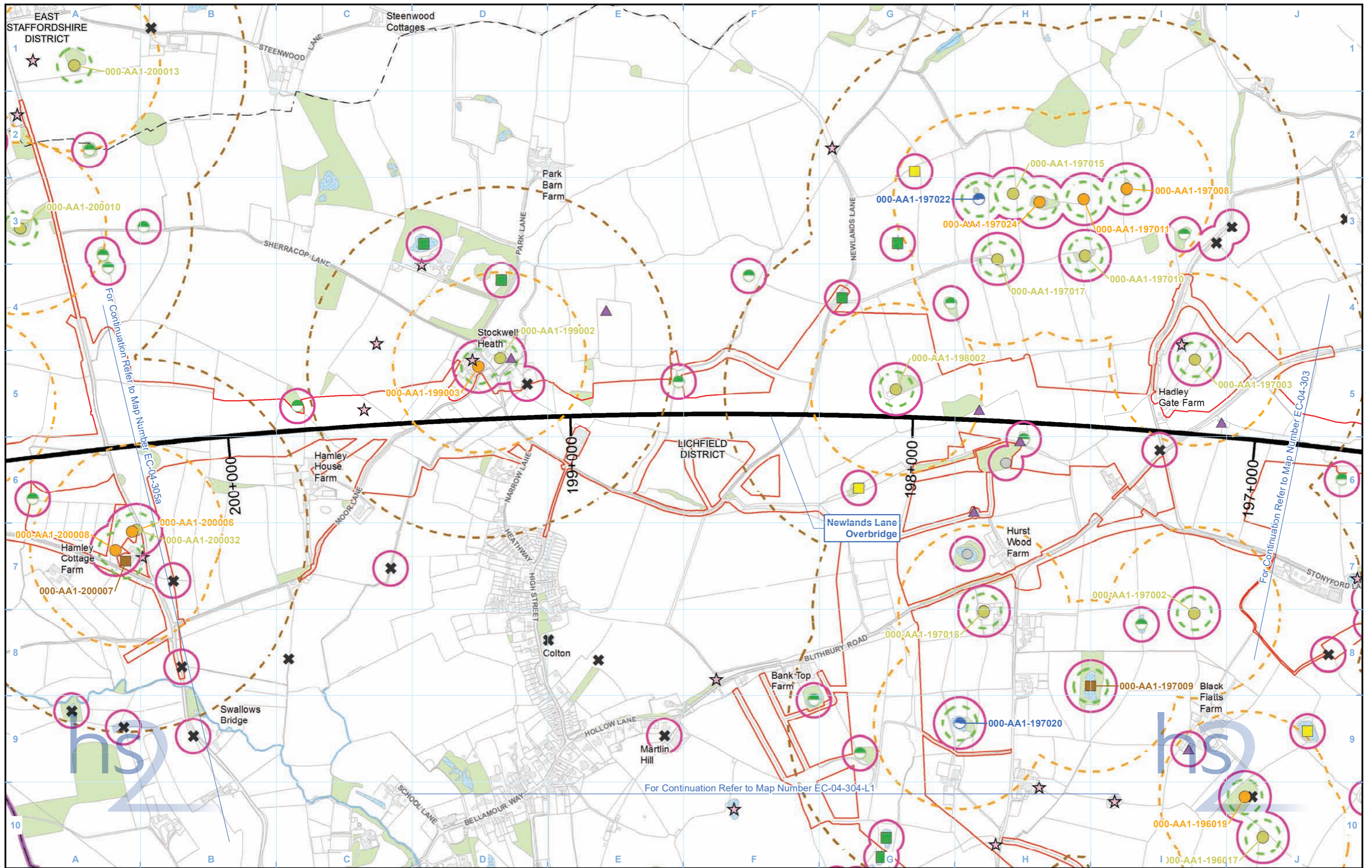
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Doc Number:2PT01-ARP-EV-MAP-000-074303-P03

Scale at A3: 1:10,000

Date: 13/02/18



Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Survey complete, Great Crested Newts assumed absent
	Survey incomplete, no Great Crested Newts 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 Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-304
Map Name	Amphibians SES and AP ES
	Community Area 1: Fradley to Colton

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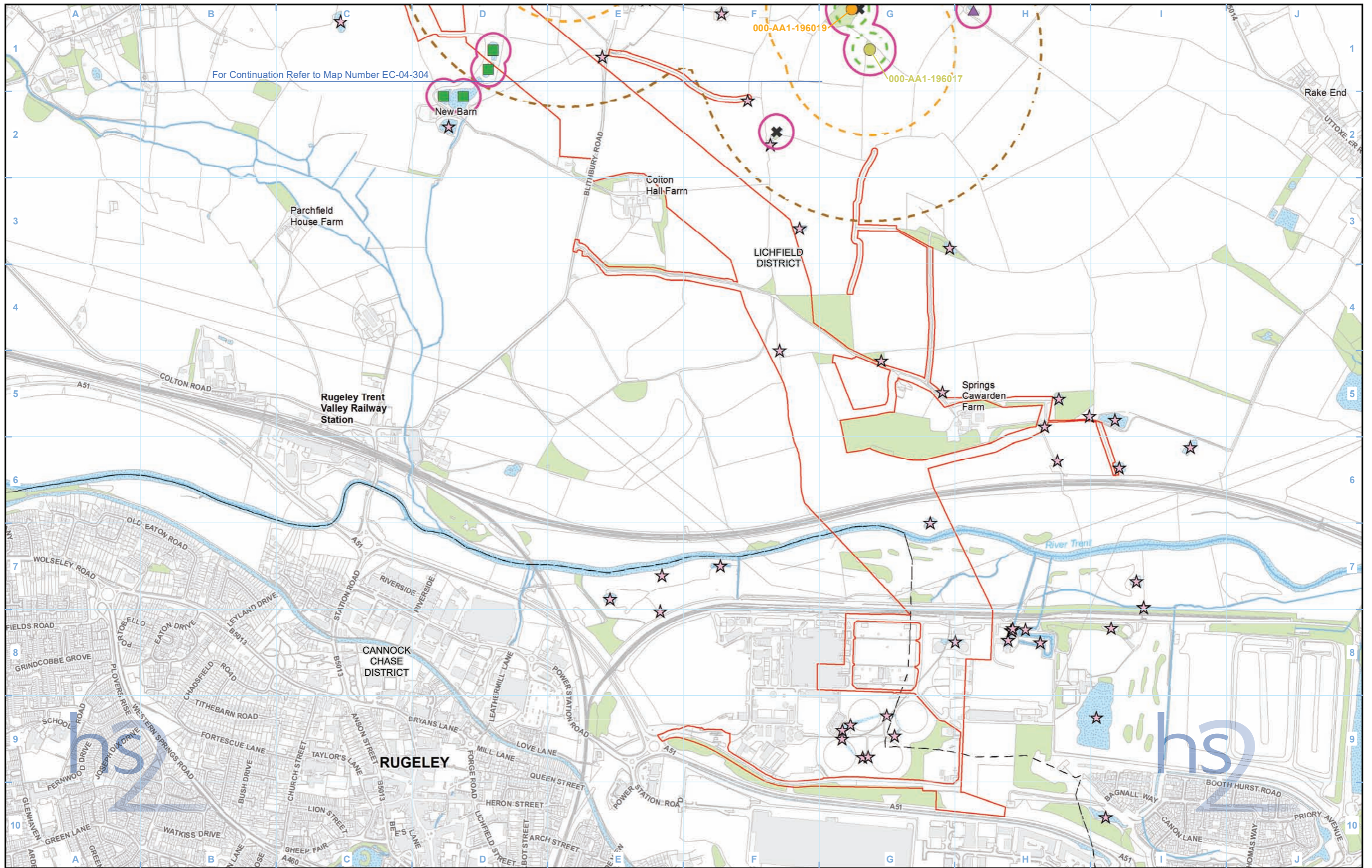
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Doc Number: 2PT01-ARP-EV-MAP-000-074304-P03

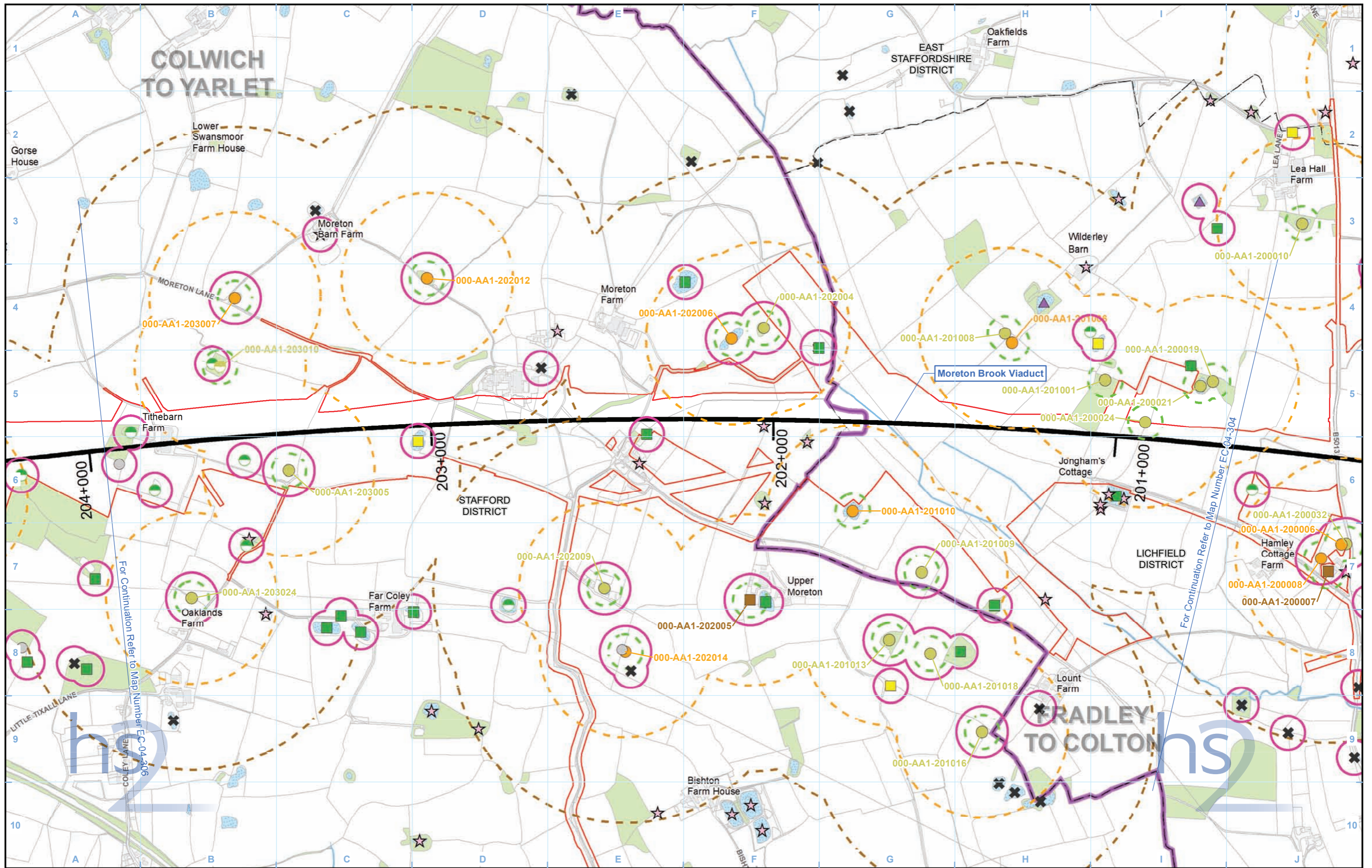
Date: 13/02/18



For Continuation Refer to Map Number EC-04-304

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in bored tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Watercourse</li> <li> Water body</li> <li> Woodland (not verified by survey)</li> <li> Area contains new survey data</li> </ul>		<ul style="list-style-type: none"> <li> eDNA survey complete - Great Crested Newts assumed absent</li> <li> Great Crested Newts present (6 visits) - medium population (11 - 99 adults)</li> <li> Great Crested Newts present (6 visits) - small population (1 - 10 adults)</li> <li> Scoped in - Habitat Suitability Index (HSI)/walkover only</li> <li> Scoped in - no access permission</li> <li> Scoped out - no survey required</li> <li> 50m radius from all water bodies where presence of Great Crested Newts is confirmed</li> <li> 250m radius from all water bodies where presence of Great Crested Newts is confirmed</li> <li> 500m radius from all water bodies where presence of Great Crested Newts is confirmed</li> </ul>	
<b>Map Number</b> EC-04-304-L1			
<b>Map Name</b> Amphibians SES and AP ES		<small>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.</small> <small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>	
<b>Community Area 1:</b> Fradley to Colton		<small>Scale at A3: 1:10,000</small> 	
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		<b>Date:</b> 13/02/18	





Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Survey complete, Great Crested Newts assumed absent
	Survey incomplete, no Great Crested Newts 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 Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-305a
Map Name	Amphibians SES and AP ES
Community Area 1: Fradley to Colton	

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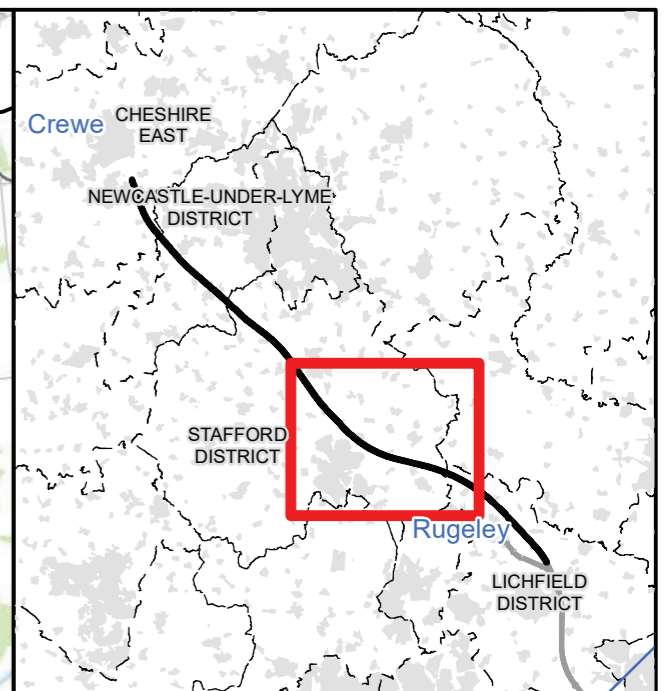
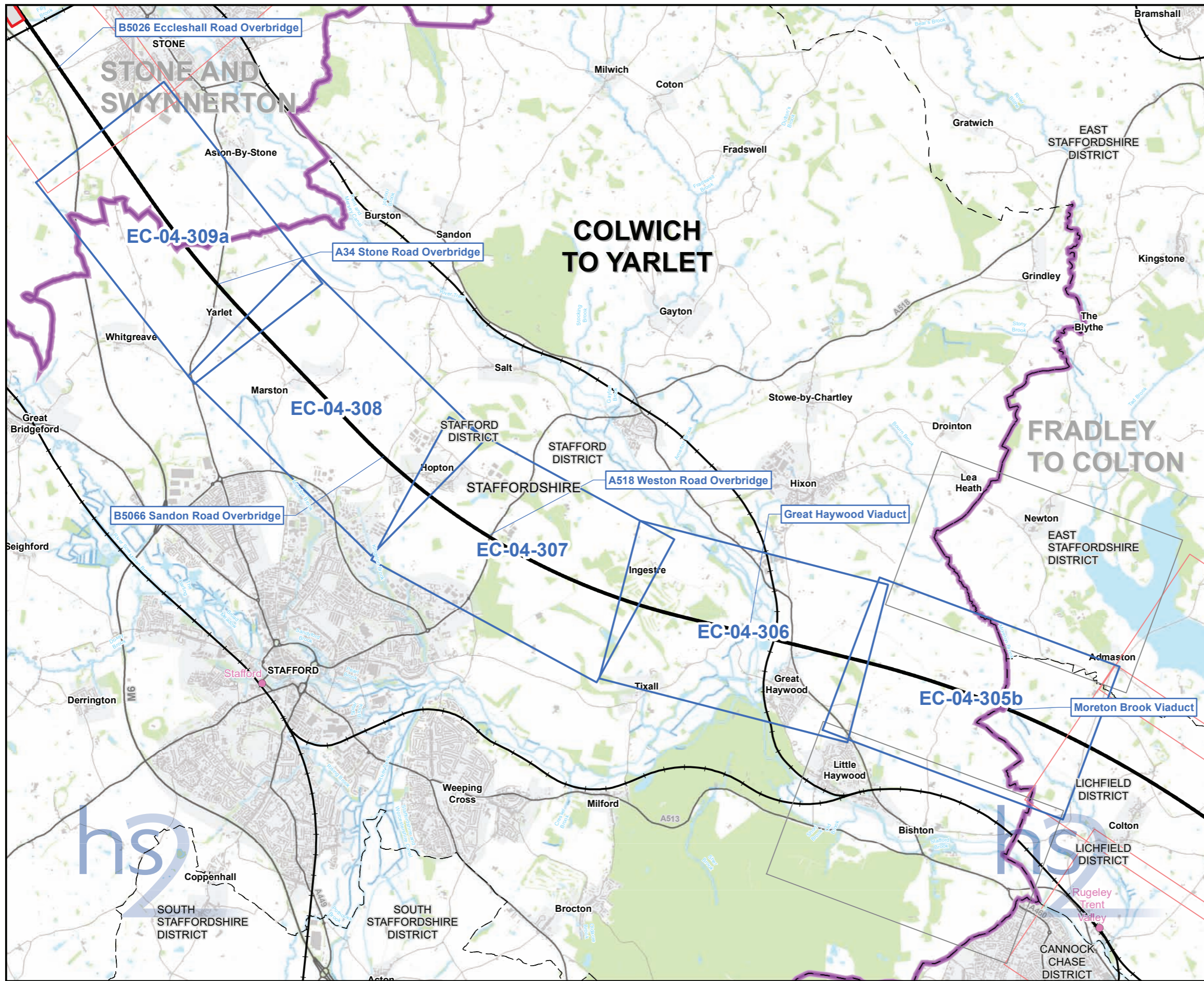
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Scale at A3: 1:10,000

Doc Number: 2PT01-ARP-EV-MAP-000-074305-P03

Date: 13/02/18



**Map Series Information:**

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 conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded

- Main Map Legend**
- Route in bored 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 with amendment
  - Map sheets included in this community area with no amendment
  - Map sheets not included in this community area

Map Number	EC-04-INDEX-CA2
Map Name	Index Map of: Amphibians SES and AP ES Community Area 2: Colwich to Yarlet

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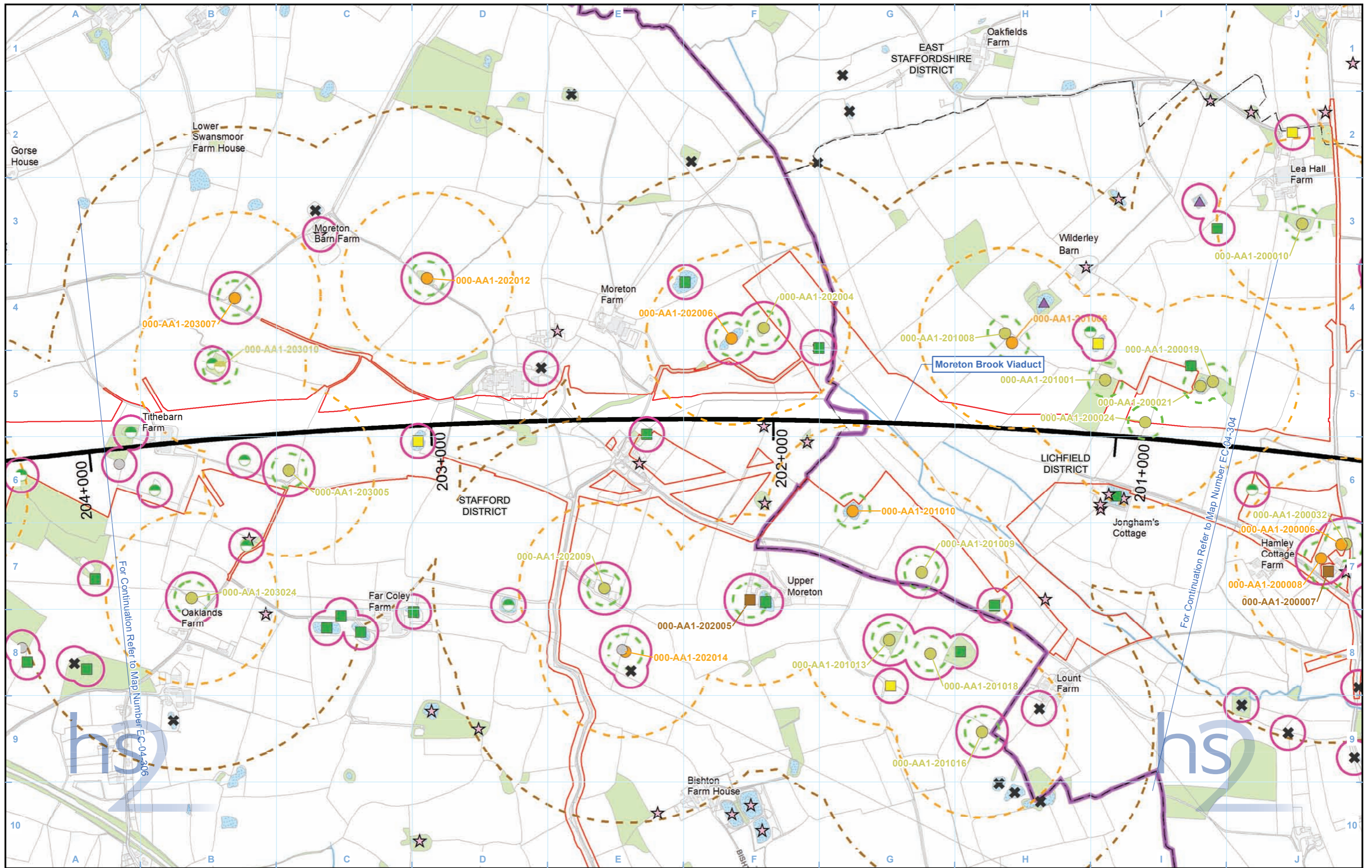
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Doc Number: 2PT01-ARP-EV-MAP-000-074002-P03 **Date: 13/02/18**



Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Survey complete, Great Crested Newts assumed absent
	Survey incomplete, no Great Crested Newts 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 Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-305b
Map Name	Amphibians SES and AP ES
Community Area 2: Colwich to Yarlet	

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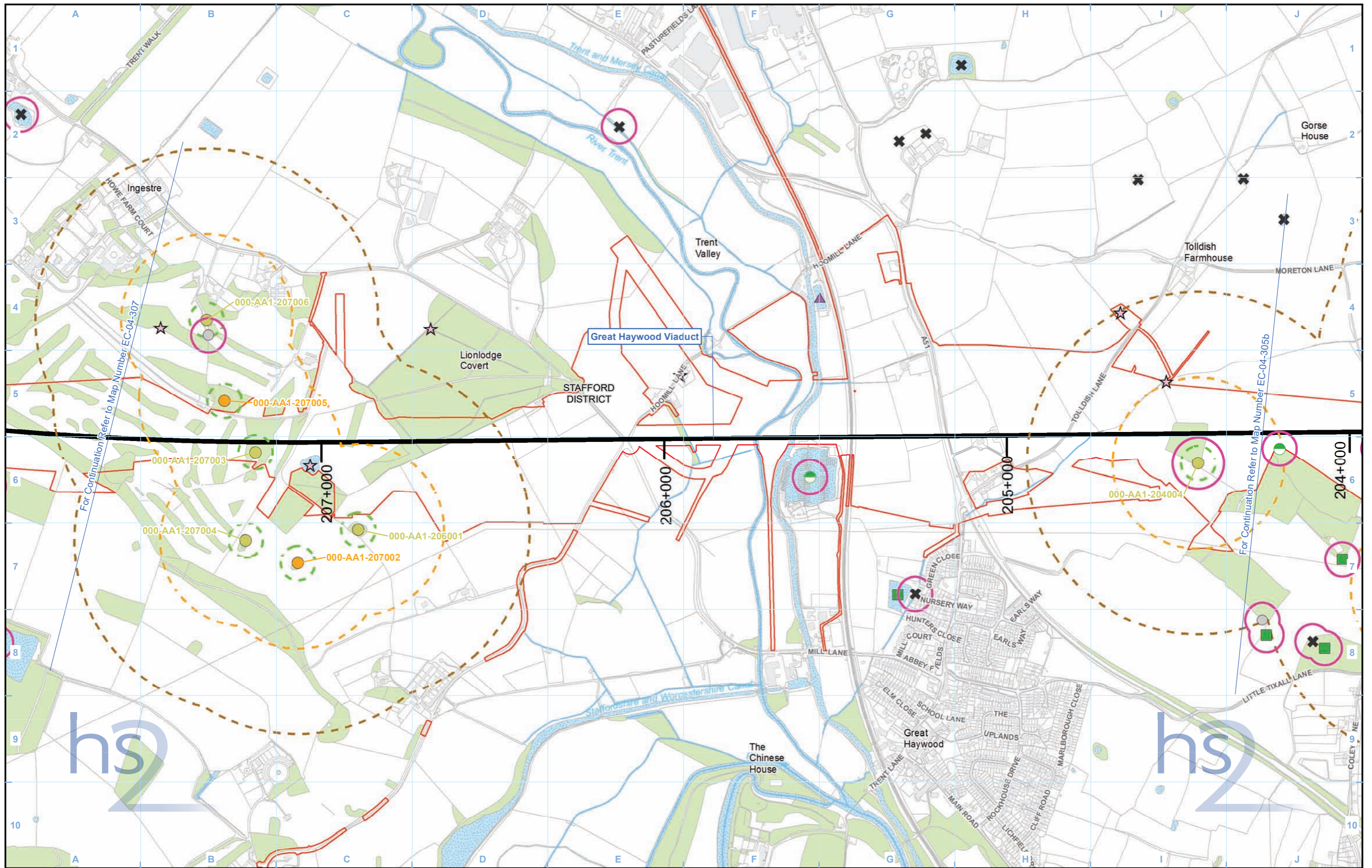
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Scale at A3: 1:10,000

Metres

Date: 13/02/18

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Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Survey complete, Great Crested Newts assumed absent
	Survey incomplete, no Great Crested Newts 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 Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-306
Map Name	Amphibians SES and AP ES
Community Area 2: Colwich to Yarlet	

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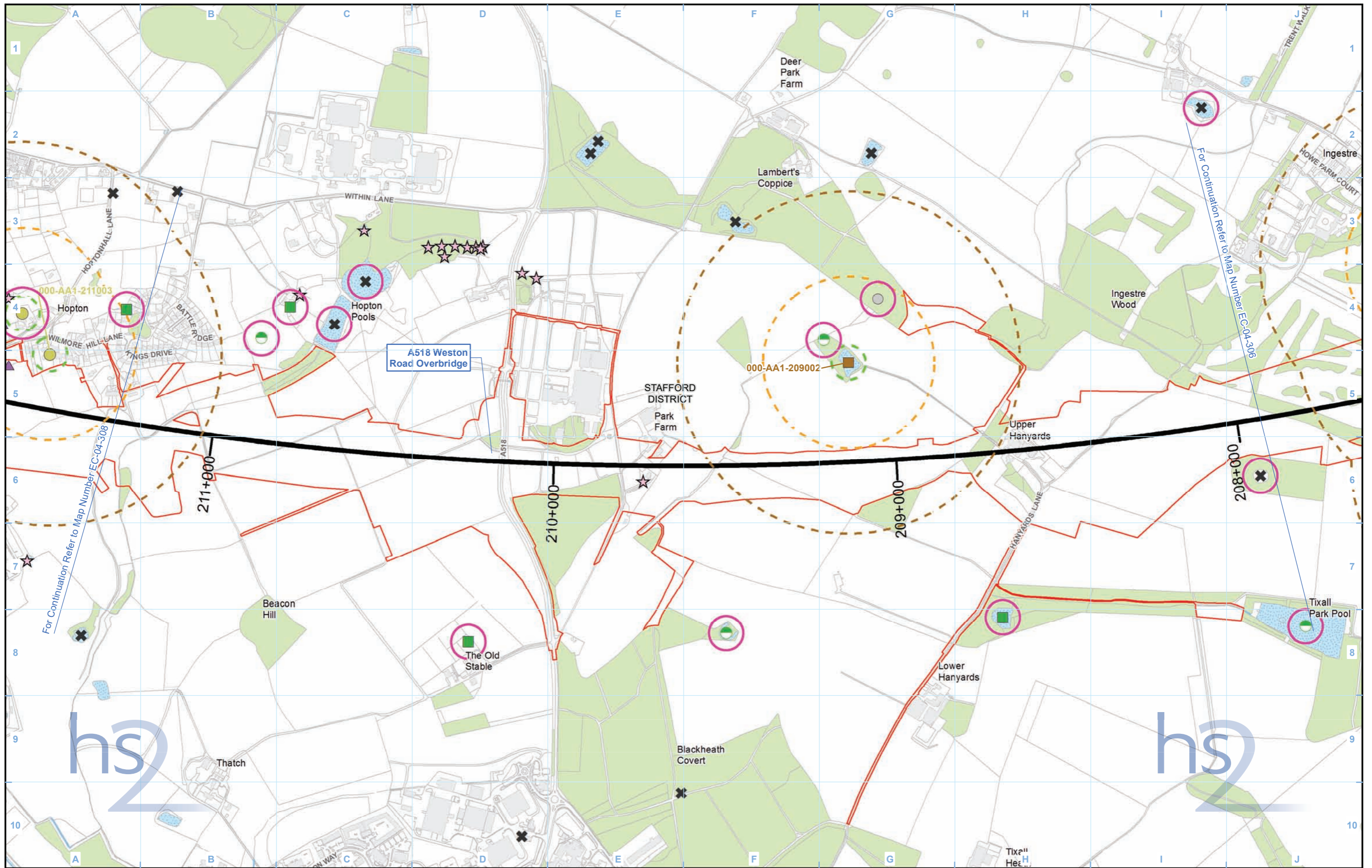
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Doc Number:2PT01-ARP-EV-MAP-000-074306-P03

Scale at A3: 1:10,000

Metres

Date: 13/02/18



**Legend**


Map Number	EC-04-307
Map Name	Amphibians SES and AP ES
	Community Area 2: Colwich to Yarlet

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Doc Number:2PT01-ARP-EV-MAP-000-074307-P03

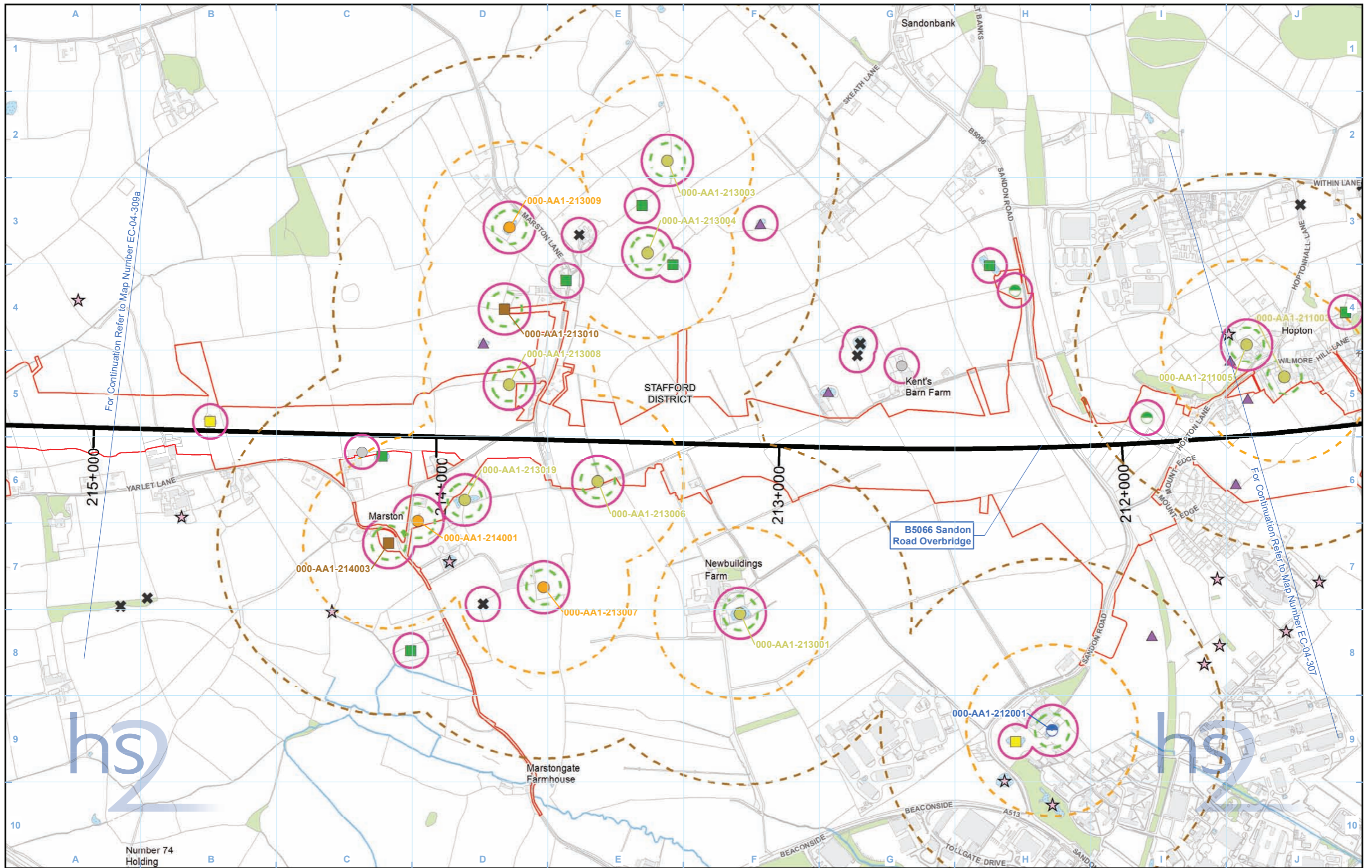
Date: 13/02/18

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Scale at A3: 1:10,000

0 100 200 300 400 Metres



**Legend**

- Route in bored 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)
- Area contains new survey data

- eDNA survey complete - result inconclusive
- eDNA survey complete - Great Crested Newts present
- eDNA survey complete - Great Crested Newts assumed absent
- Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
- Great Crested Newts present (6 visits) - small population (1 - 10 adults)
- Great Crested Newts confirmed present - no size class determined
- Survey complete, Great Crested Newts assumed absent
- Survey incomplete, no Great Crested Newts 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 Great Crested Newts is confirmed
- 250m radius from all water bodies where presence of Great Crested Newts is confirmed
- 500m radius from all water bodies where presence of Great Crested Newts is confirmed

Number 74 Holding

Map Number: EC-04-308

Map Name: Amphibians SES and AP ES

Community Area 2: Colwich to Yarlet

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Doc Number: 2PT01-ARP-EV-MAP-000-074308-P03

Date: 13/02/18

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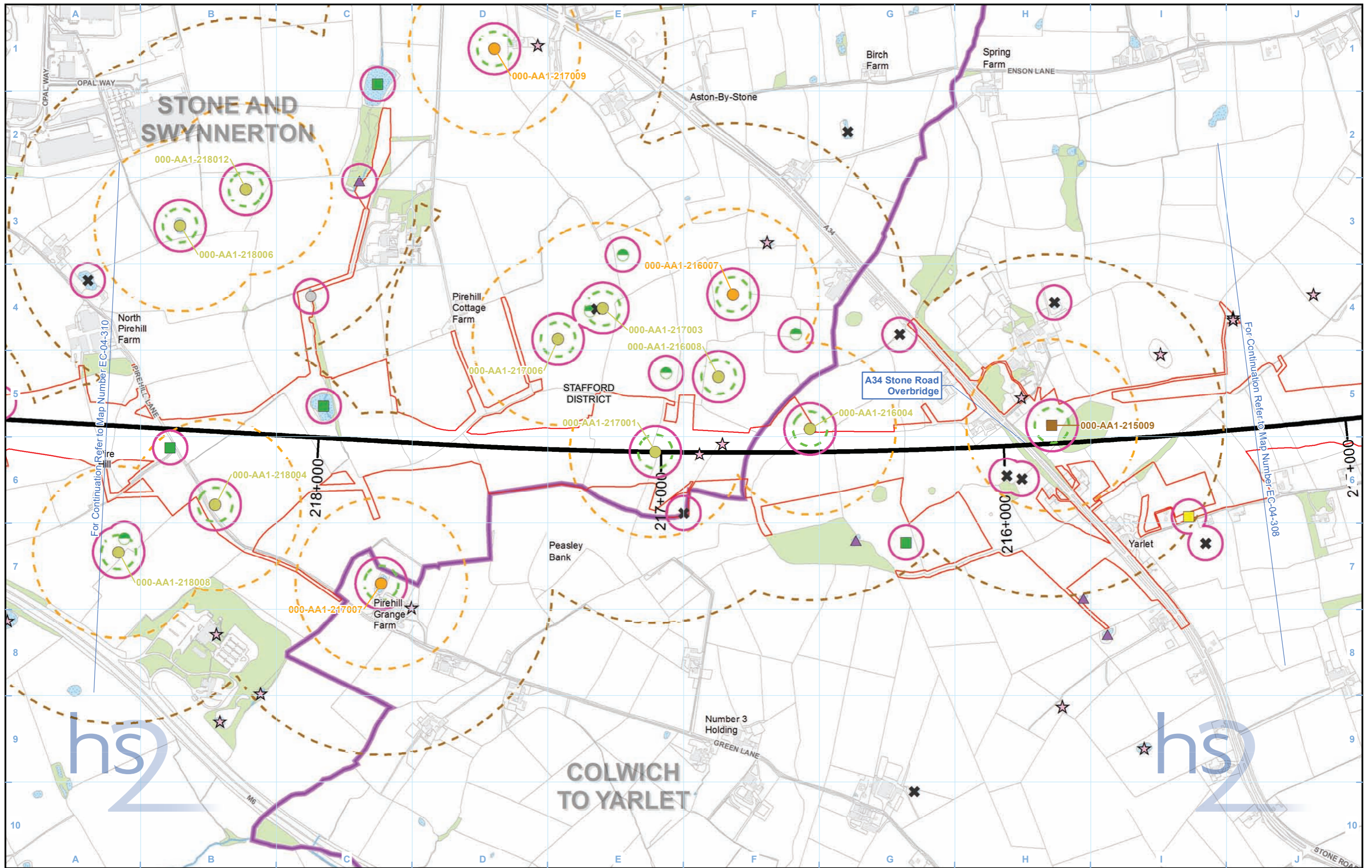
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Date: 13/02/18



**Legend**

- Route in bored 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)
- Area contains new survey data

- eDNA survey complete - result inconclusive
- eDNA survey complete - Great Crested Newts present
- eDNA survey complete - Great Crested Newts assumed absent
- Great Crested Newts present (6 visits) - medium population (11 - 99 adults)

- Great Crested Newts present (6 visits) - small population (1 - 10 adults)
- Survey complete, Great Crested Newts assumed absent
- Survey incomplete, no Great Crested Newts 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 Great Crested Newts is confirmed

- 250m radius from all water bodies where presence of Great Crested Newts is confirmed
- 500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number: EC-04-309a

Map Name: Amphibians SES and AP ES

Community Area 2: Colwich to Yarlet

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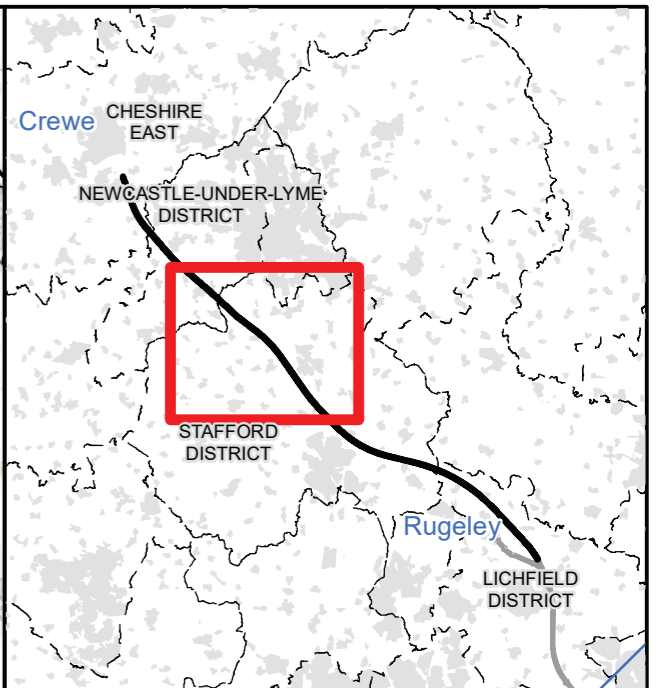
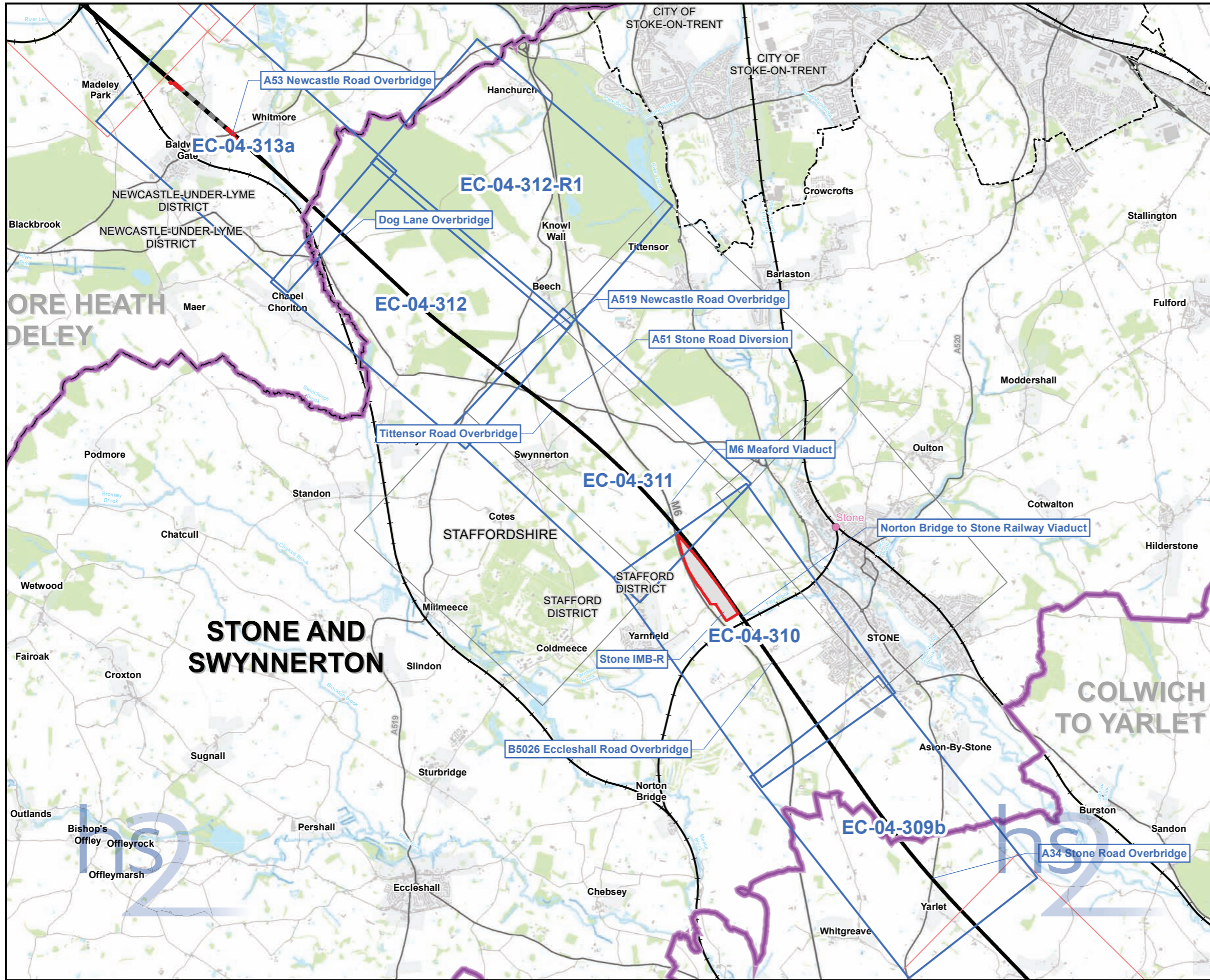
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Doc Number: 2PT01-ARP-EV-MAP-000-074309-P03

Date: 13/02/18



**Map Series Information:**

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 conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded

**Main Map Legend**

- Route in bored 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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-04-INDEX-CA3
Map Name	Index Map of: Amphibians SES and AP ES Community Area 3: Stone and Swynnerton

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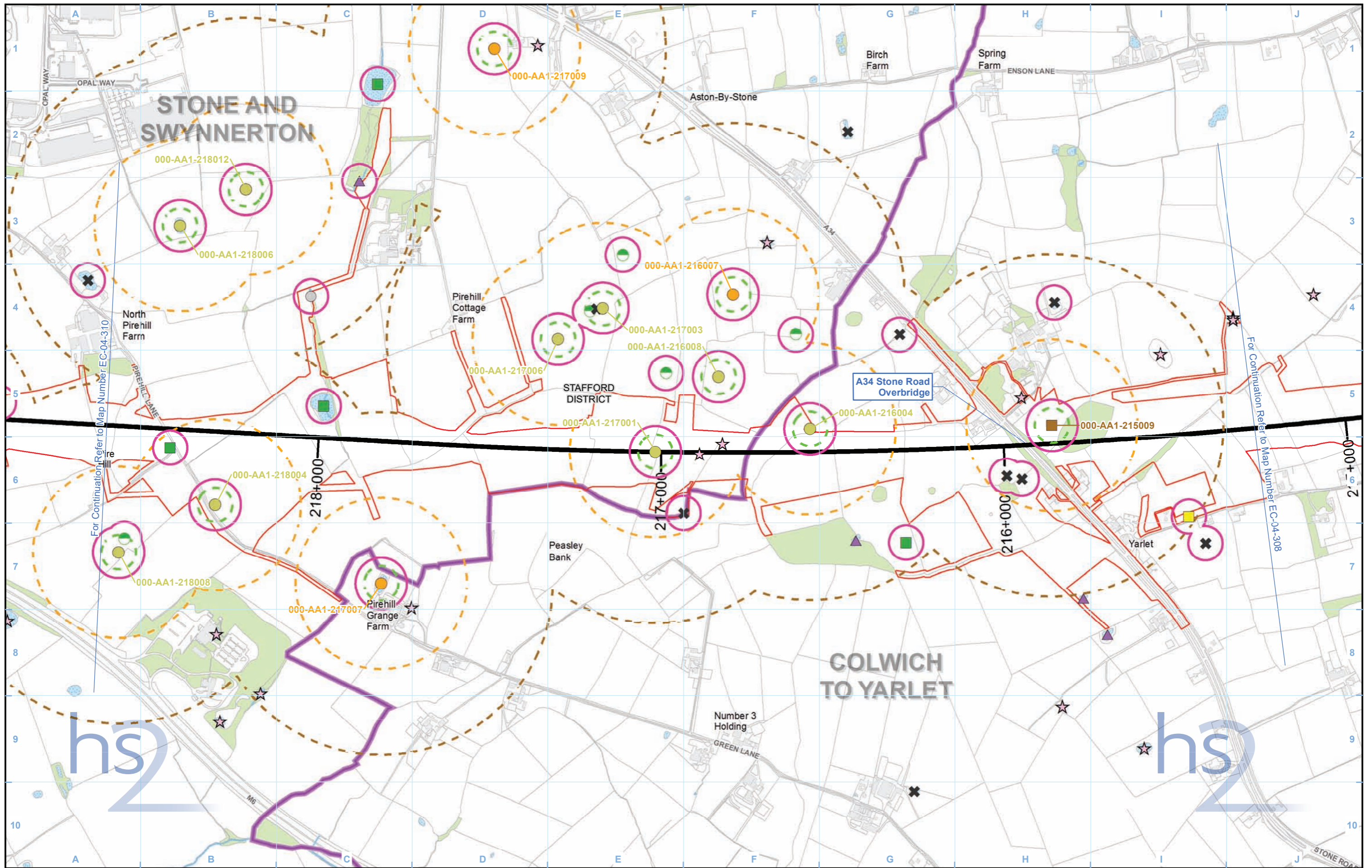
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Doc Number: 2PT01-ARP-EV-MAP-000-074003-P03 **Date: 13/02/18**

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





Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Survey complete, Great Crested Newts assumed absent
	Survey incomplete, no Great Crested Newts 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 Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-309b
Map Name	Amphibians SES and AP ES
	Community Area 3: Stone and Swynnerton

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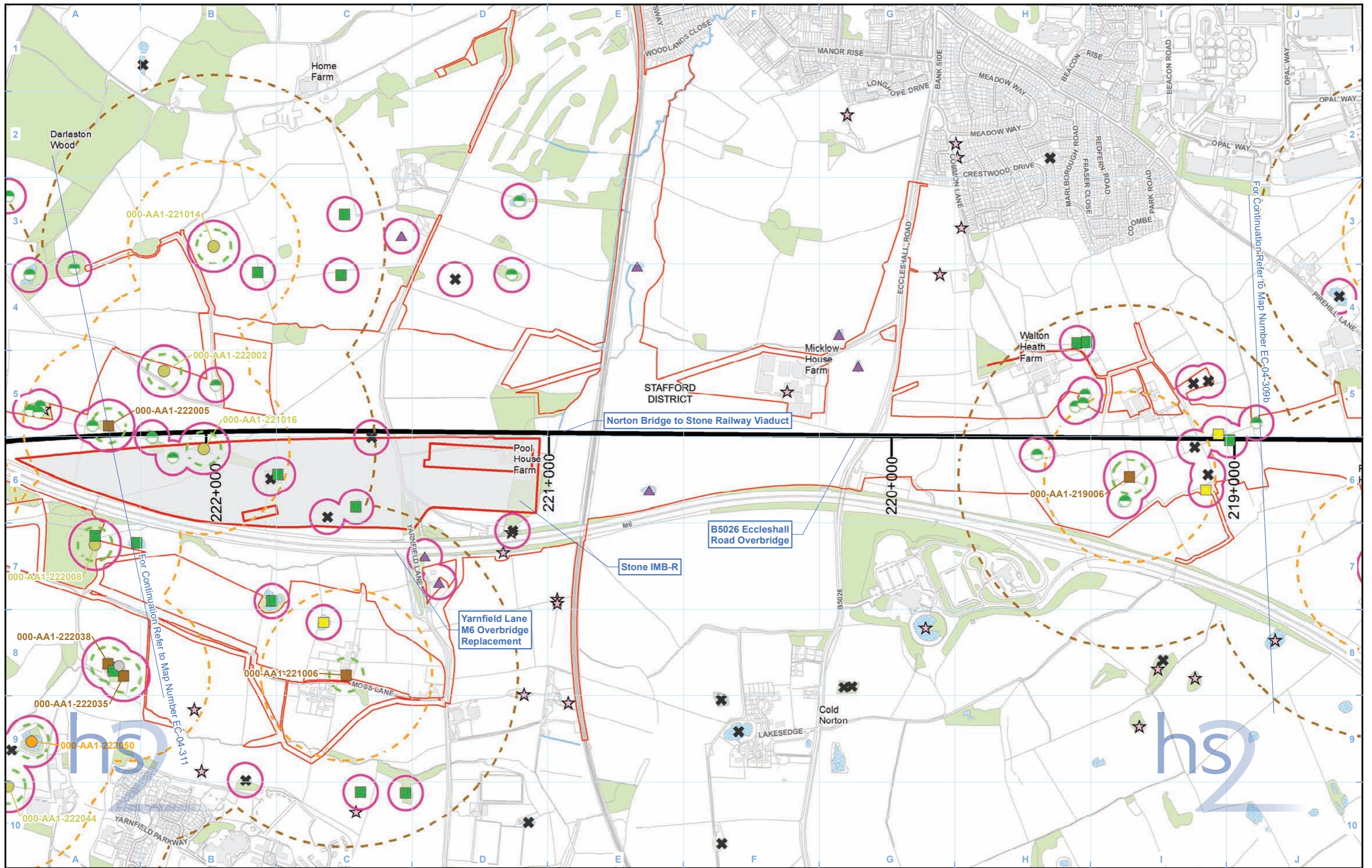
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Doc Number:2PT01-ARP-EV-MAP-000-074409-P03

Date: 13/02/18



Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Survey complete, Great Crested Newts assumed absent
	Survey incomplete, no Great Crested Newts found
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Scoped in - Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Scoped in - Great Crested Newts assumed absent
	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 Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-310
Map Name	Amphibians SES and AP ES
	Community Area 3: Stone and Swynnerton

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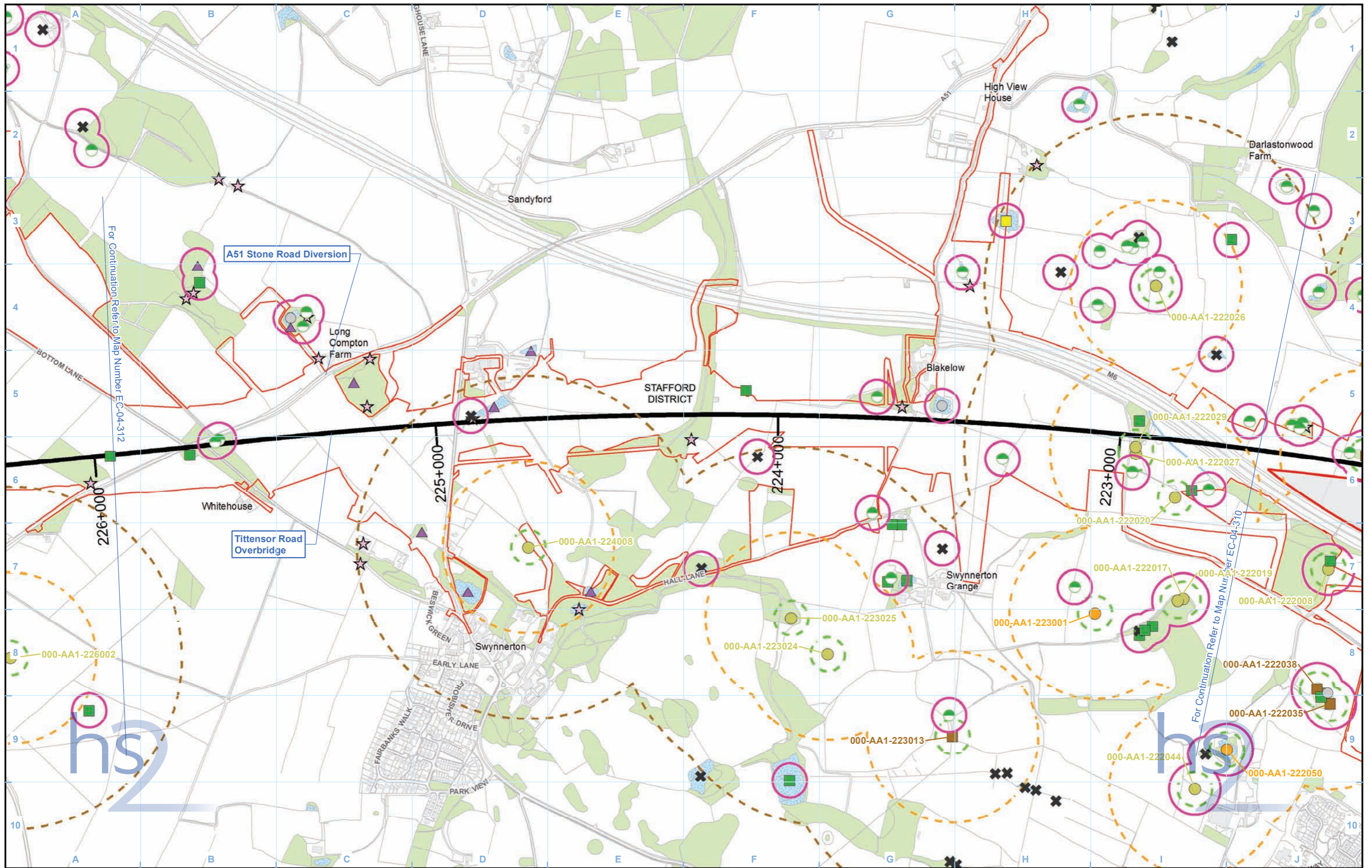
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Scale at A3: 1:10,000

Metres

Date: 13/02/18

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Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Survey complete, Great Crested Newts assumed present
	Survey incomplete, no Great Crested Newts found
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-311
Map Name	Amphibians SES and AP ES
Community Area 3: Stone and Swynnerton	

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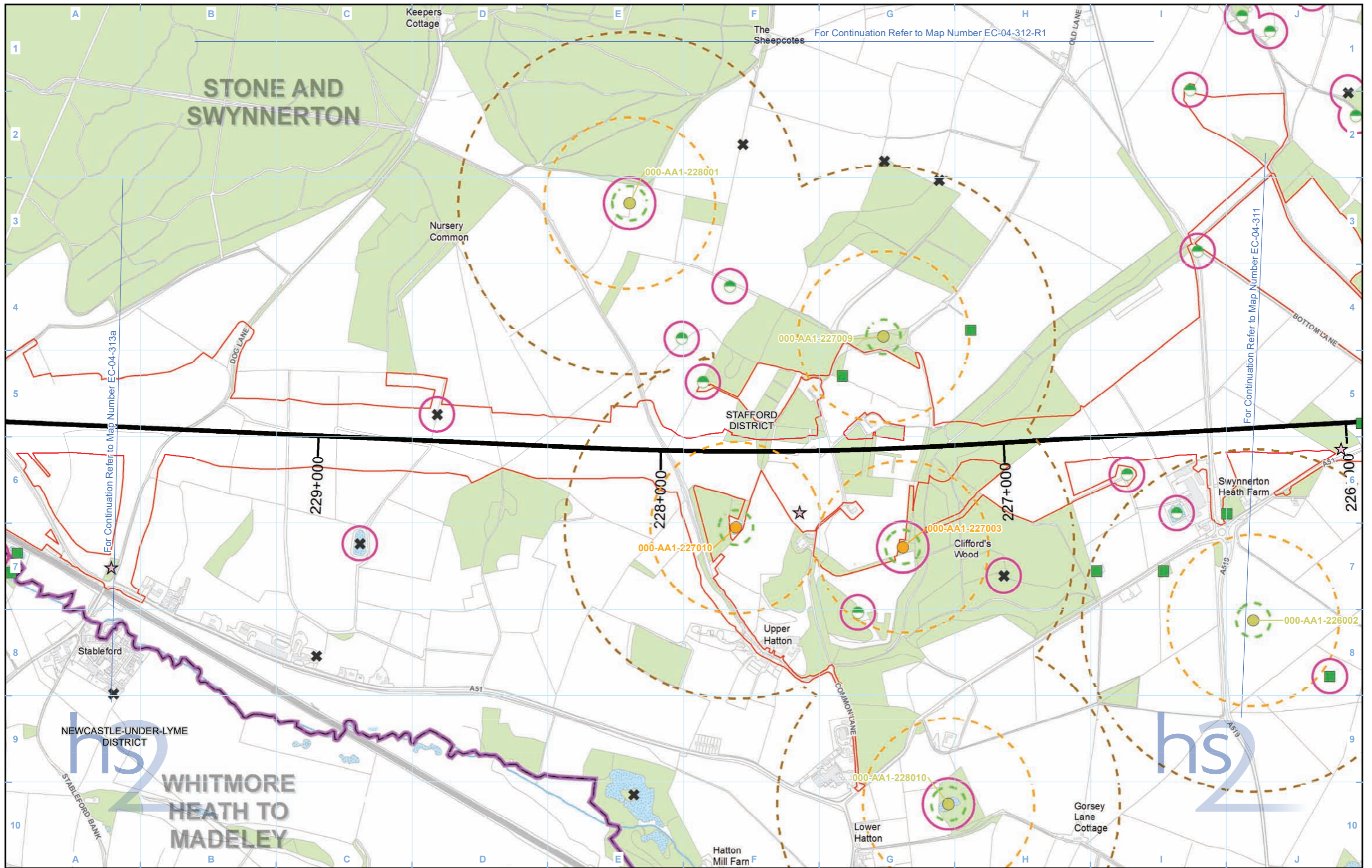
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Scale at A3: 1:10,000

Metres

Date: 13/02/18

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**Legend**

	Route in bored tunnel		Depot, station, headhouse or portal building		Land potentially required during construction		Community area boundary		County boundary
	Route on surface		District/Borough boundary		Watercourse		Water body		Woodland (not verified by survey)
	eDNA survey complete - Great Crested Newts assumed absent		Great Crested Newts present (6 visits) - medium population (11 - 99 adults)		Great Crested Newts present (6 visits) - small population (1 - 10 adults)		Survey complete, Great Crested Newts assumed absent		Scoped in - no access permission
	Scoped out - no survey required		50m radius from all water bodies where presence of Great Crested Newts is confirmed		250m radius from all water bodies where presence of Great Crested Newts is confirmed		500m radius from all water bodies where presence of Great Crested Newts is confirmed		50m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-312
Map Name	Amphibians SES and AP ES
	Community Area 3: Stone and Swynnerton

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**Legend**

- Route in bored 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)
- Area contains new survey data

- eDNA survey complete - Great Crested Newts assumed absent
- Survey complete, Great Crested Newts assumed absent
- Scoped in - no access permission
- Scoped out - no survey required
- 500m radius from all water bodies where presence of Great Crested Newts is confirmed

For Continuation Refer to Map Number EC-04-312

Map Number  
**EC-04-312-R1**

Map Name  
**Amphibians  
SES and AP ES**

Community Area 3:  
**Stone and Swynnerton**

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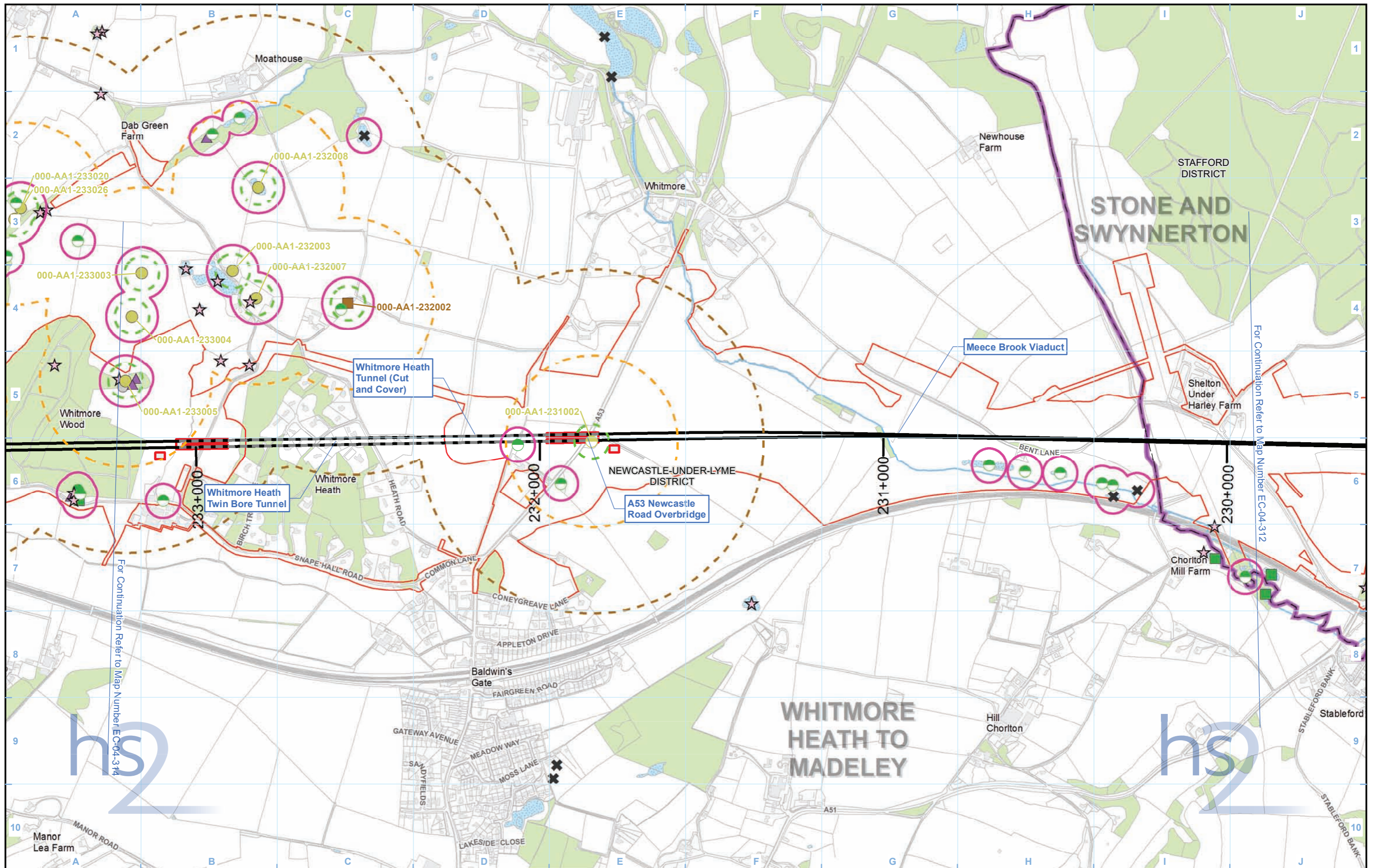
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

**Date: 13/02/18**



Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Survey complete, Great Crested Newts assumed absent
	Survey incomplete, no Great Crested Newts found
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-313a
Map Name	Amphibians SES and AP ES
	Community Area 3: Stone and Swynnerton

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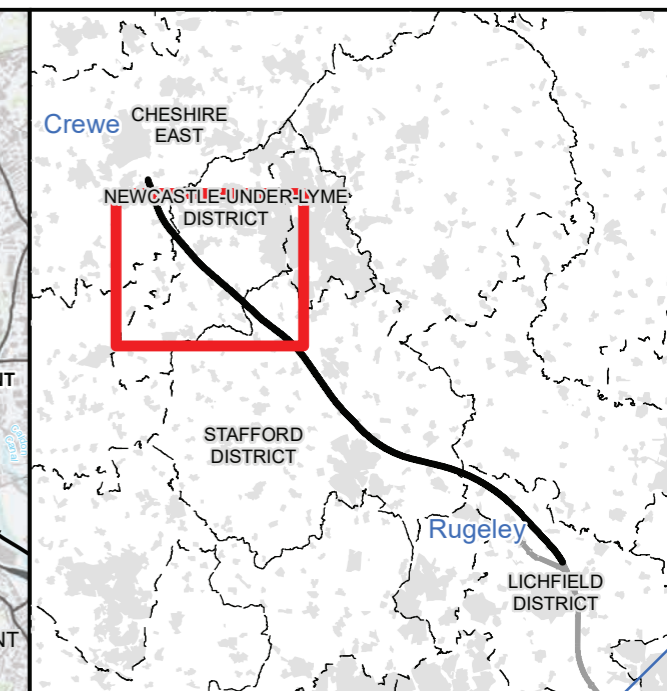
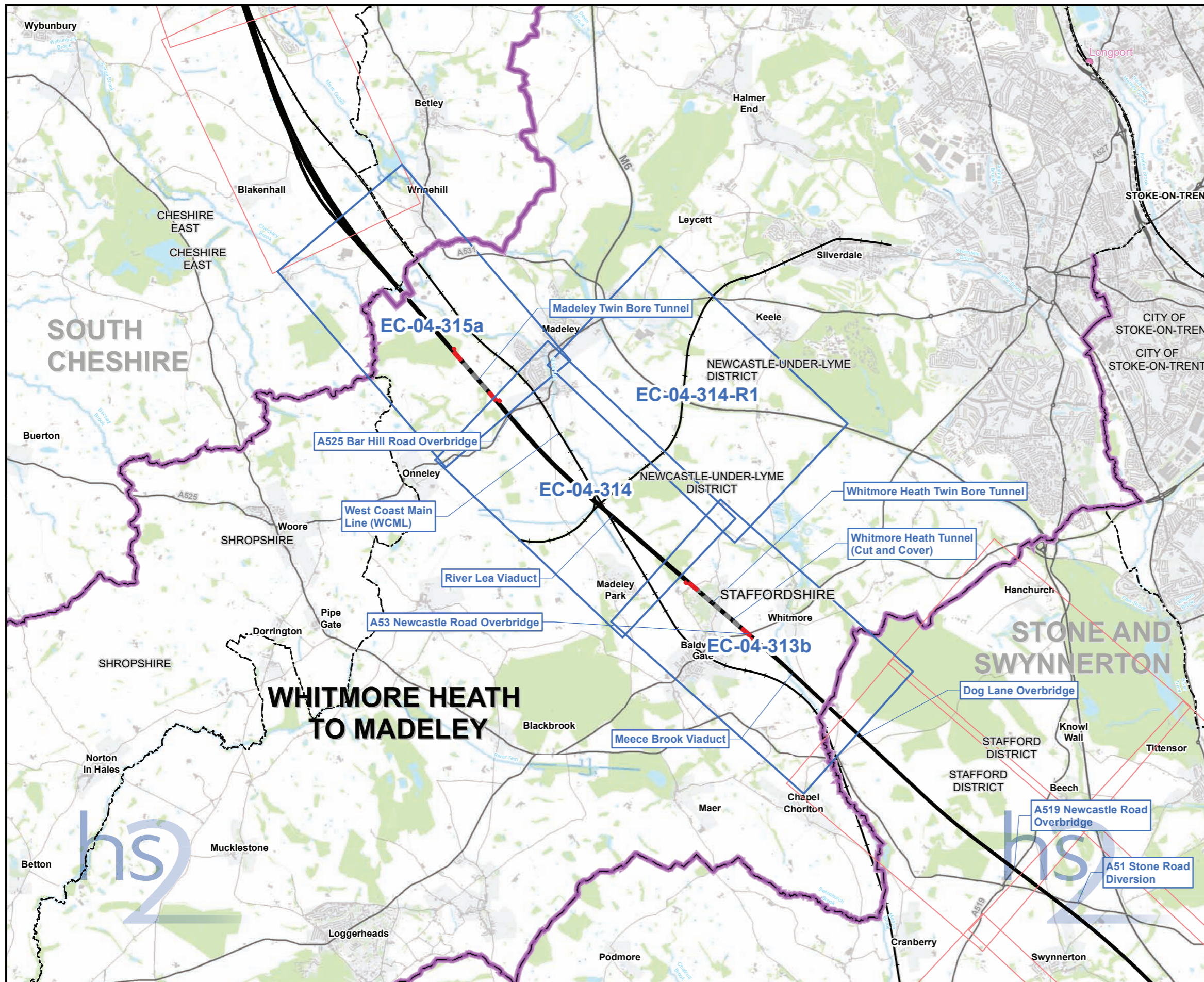
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**Map Series Information:**

This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. 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

<p><b>Main Map Legend</b></p> <ul style="list-style-type: none"> <li> Route in bored tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Community area boundary</li> <li> Existing railway station</li> <li> County boundary</li> <li> District/Borough boundary</li> <li> Map sheets included in this community area with amendment</li> <li> Map sheets included in this community area with no amendment</li> <li> Map sheets not included in this community area</li> </ul>	
<p>Map Number <b>EC-04-INDEX-CA4</b></p>	<p>Map Name <b>Index Map of: Amphibians SES and AP ES</b></p>
<p>Community Area 4: <b>Whitmore Heath to Madeley</b></p>	

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

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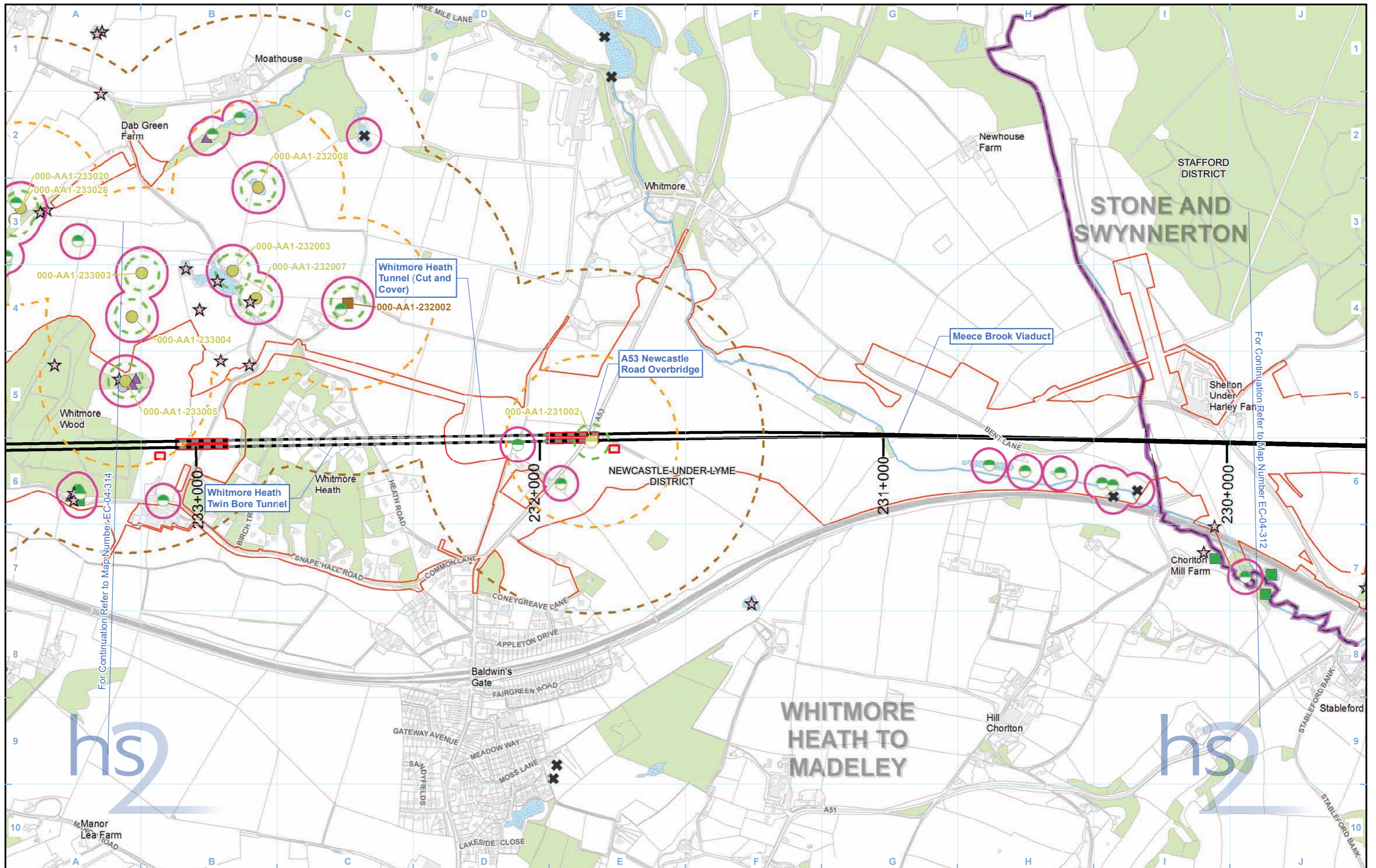
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Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	Area contains new survey data
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Survey complete, Great Crested Newts assumed absent
	Survey incomplete, no Great Crested Newts found
	Scoped in - Habitat Suitability Index (HSI)/walkover only
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Scoped in - no access permission
	Scoped out - no survey required
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-313b
Map Name	Amphibians SES and AP ES
Community Area 4: Whitmore Heath to Madeley	

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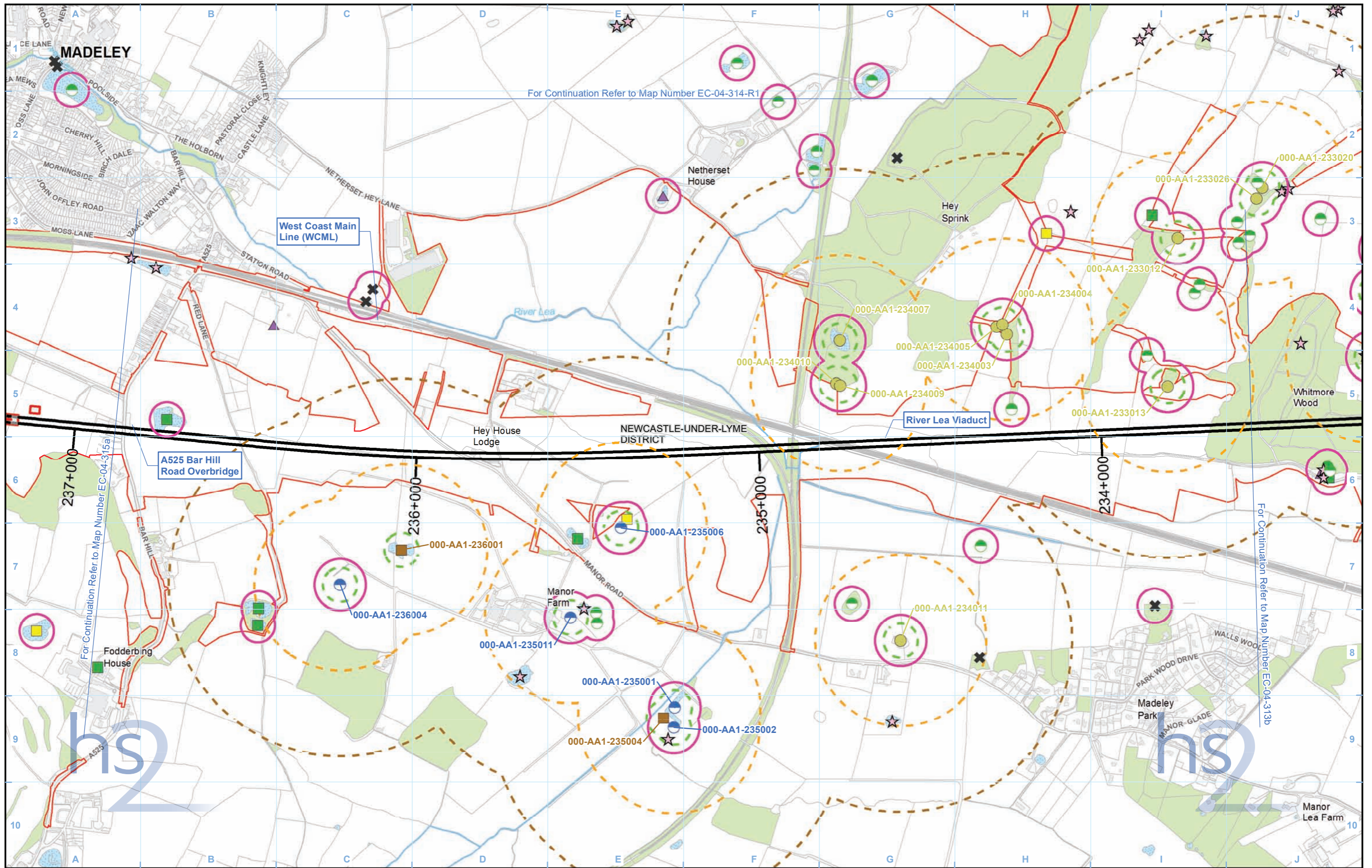
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Metres

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Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Survey complete, Great Crested Newts assumed absent
	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 Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-314
Map Name	Amphibians SES and AP ES
	Community Area 4: Whitmore Heath to Madeley

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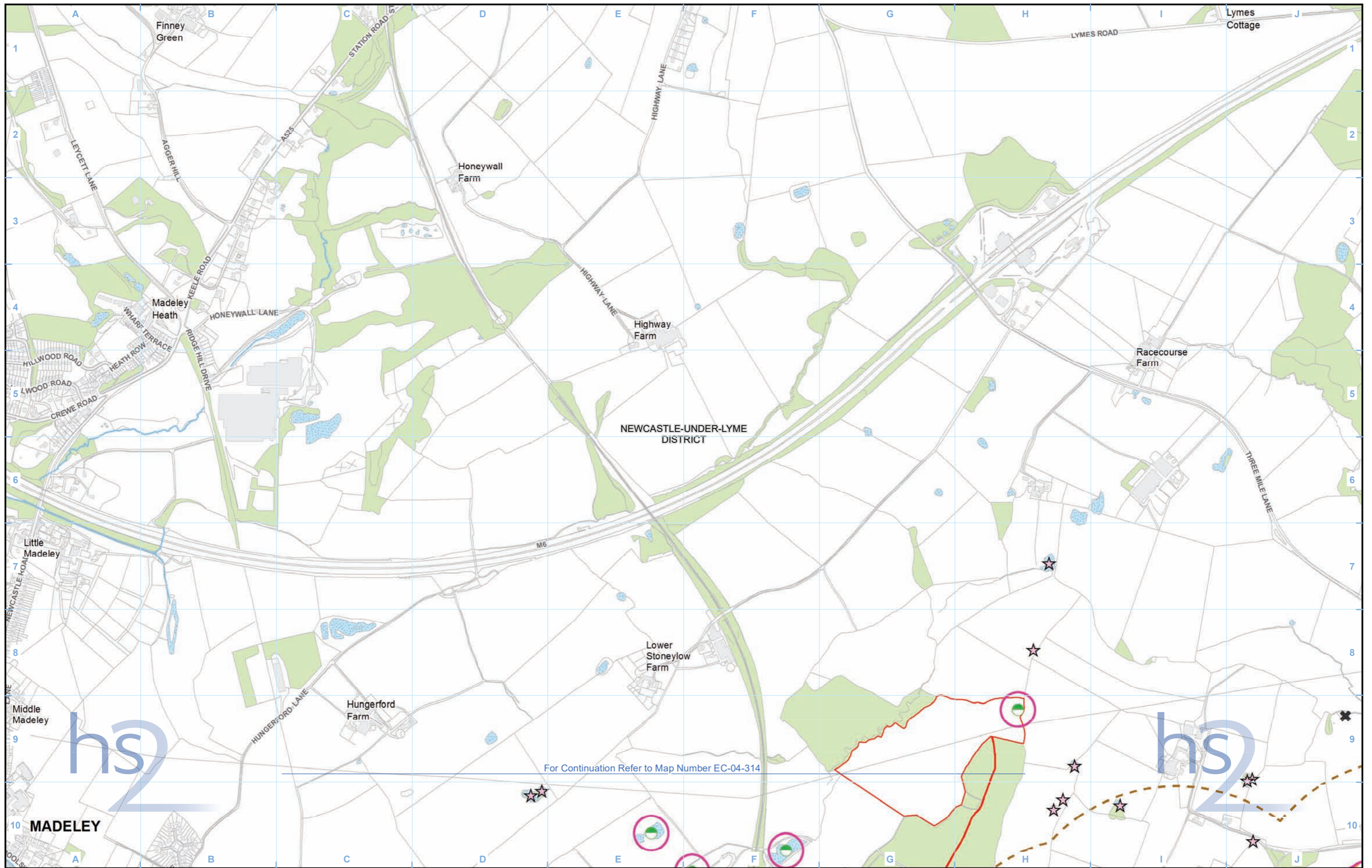
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Metres

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**Legend**

- Route in bored 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)
- Area contains new survey data

- Survey complete, Great Crested Newts assumed absent
- Scoped in - no access permission
- Scoped out - no survey required
- 250m radius from all water bodies where presence of Great Crested Newts is confirmed

- 500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number EC-04-314-R1

Map Name  
**Amphibians  
SES and AP ES**

Community Area 4:  
Whitmore Heath to Madeley

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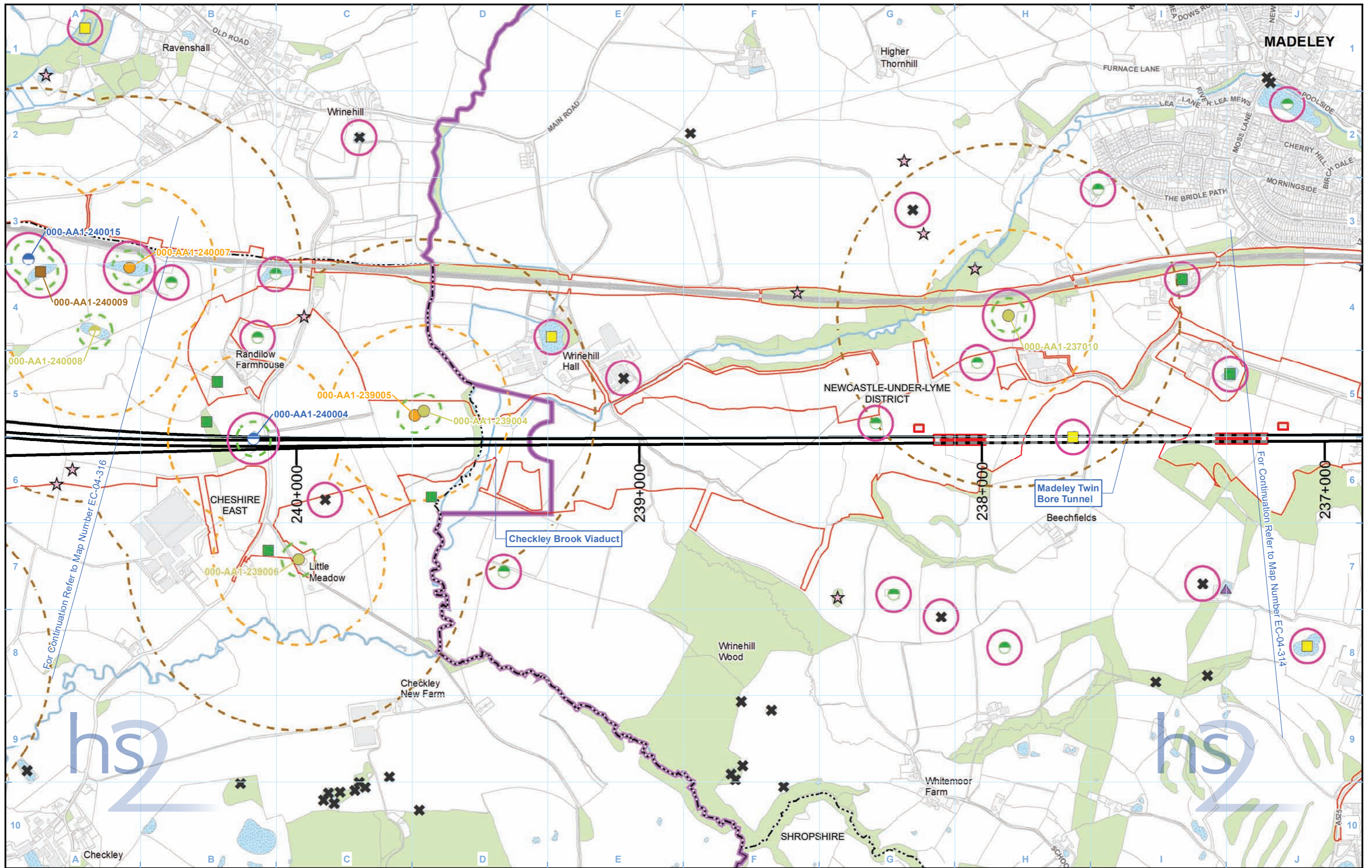
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Doc Number:2PT01-ARP-EV-MAP-000-074414-P03

Date: 13/02/18



Legend	
	Route in bored 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)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Survey complete, Great Crested Newts assumed absent
	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 Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-315a
Map Name	Amphibians SES and AP ES
Community Area 4: Whitmore Heath to Madeley	

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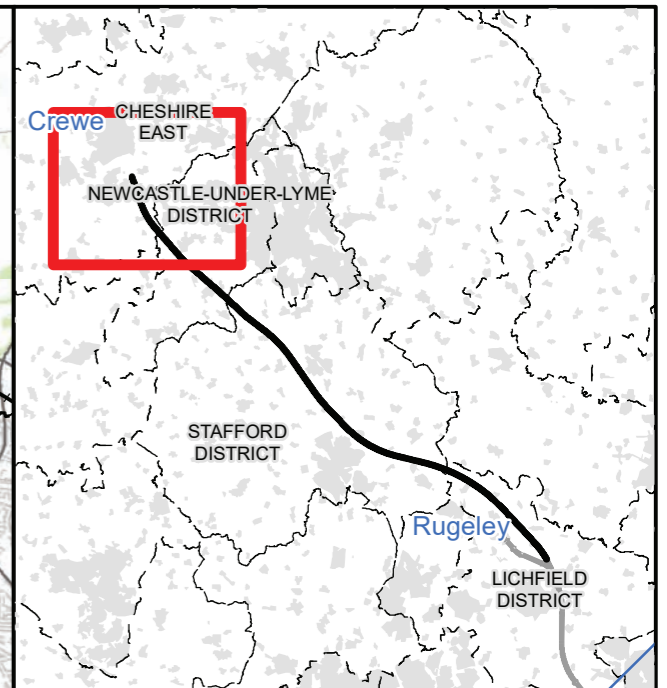
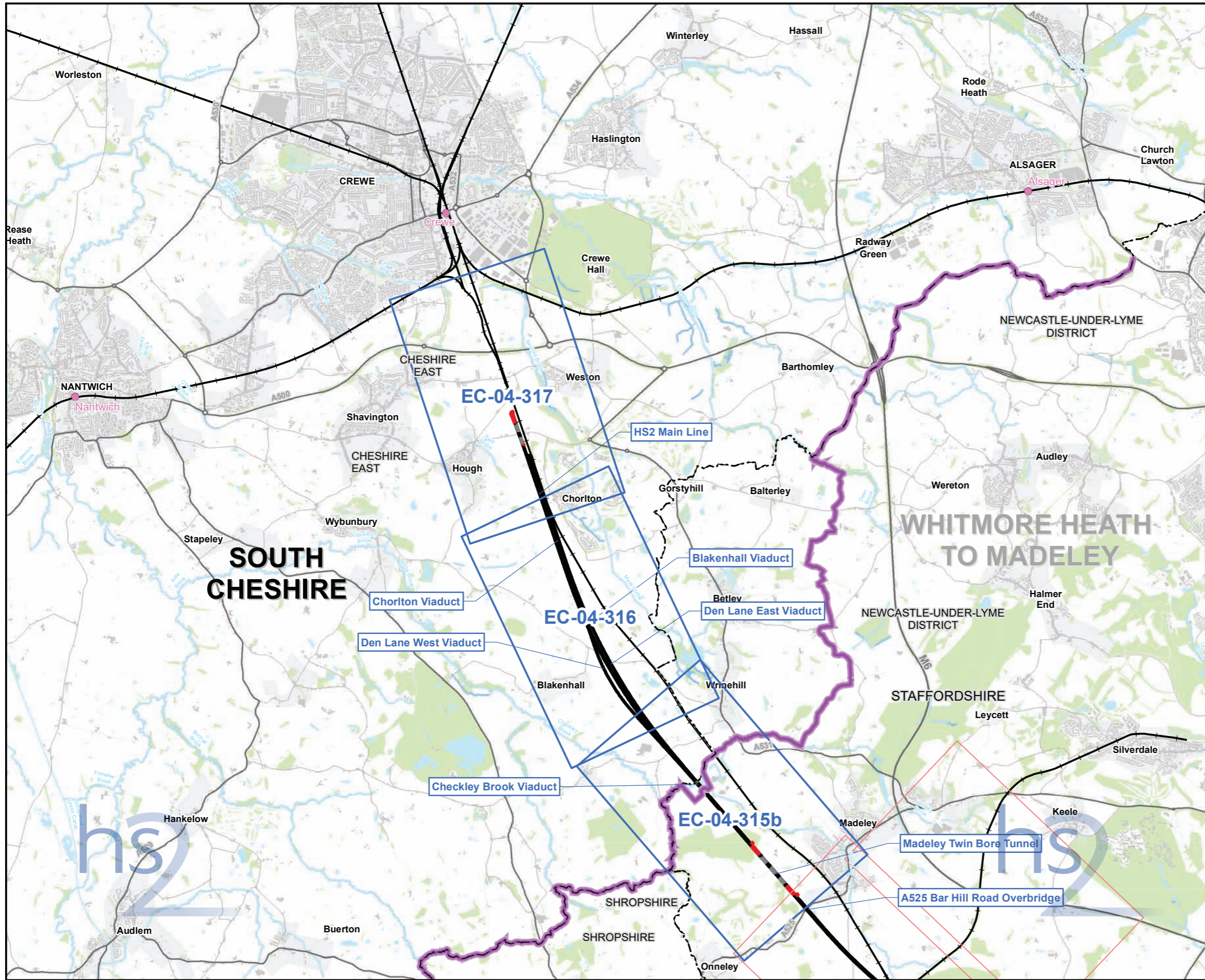
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**Map Series Information:**

This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. 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 bored 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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-04-INDEX-CA5
Map Name	Index Map of: Amphibians SES and AP ES Community Area 5: South Cheshire

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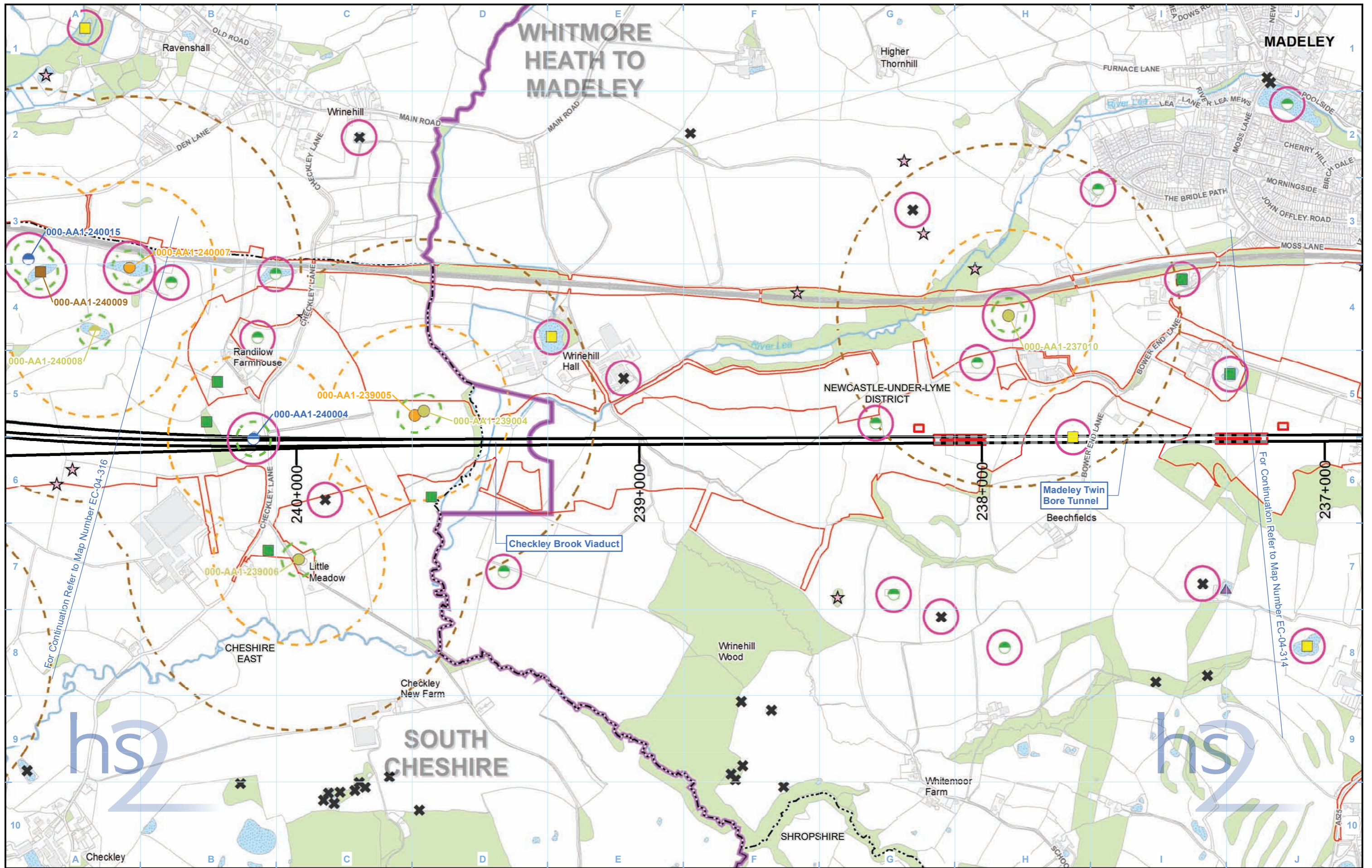
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Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Survey complete, Great Crested Newts assumed absent
	Great Crested Newts 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
	50m radius from all water bodies where presence of Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-315b
Map Name	Amphibians SES and AP ES
	Community Area 5: South Cheshire

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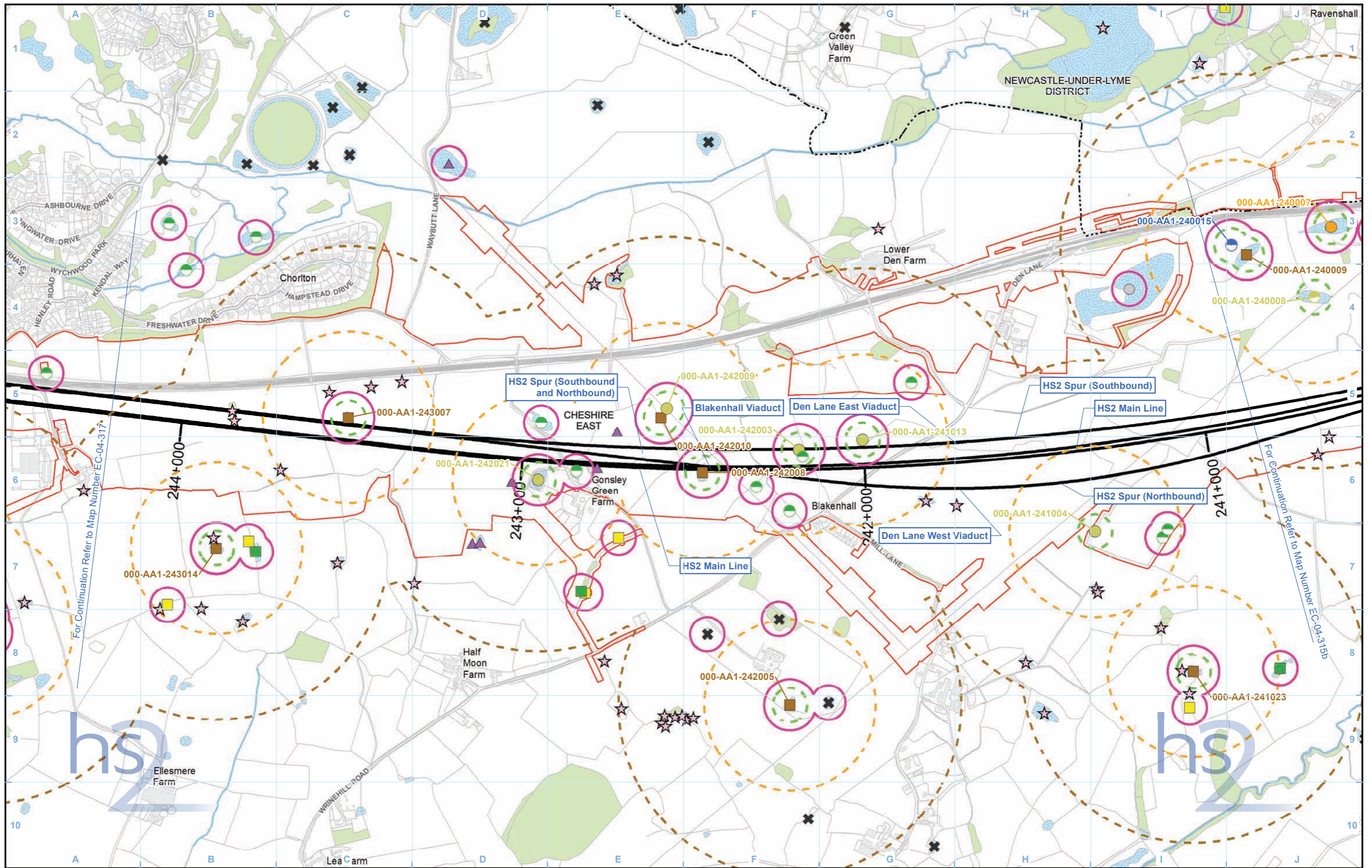
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Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)
	Area contains new survey data
	eDNA survey complete - result inconclusive
	eDNA survey complete - Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	eDNA survey complete - Great Crested Newts assumed absent
	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)
	Great Crested Newts present (6 visits) - small population (1 - 10 adults)
	Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)
	Great Crested Newts confirmed present - no size class determined
	Survey complete, Great Crested Newts assumed absent
	Survey incomplete, no Great Crested Newts 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 Great Crested Newts is confirmed
	250m radius from all water bodies where presence of Great Crested Newts is confirmed
	500m radius from all water bodies where presence of Great Crested Newts is confirmed

Map Number	EC-04-316
Map Name	Amphibians SES and AP ES
	Community Area 5: South Cheshire

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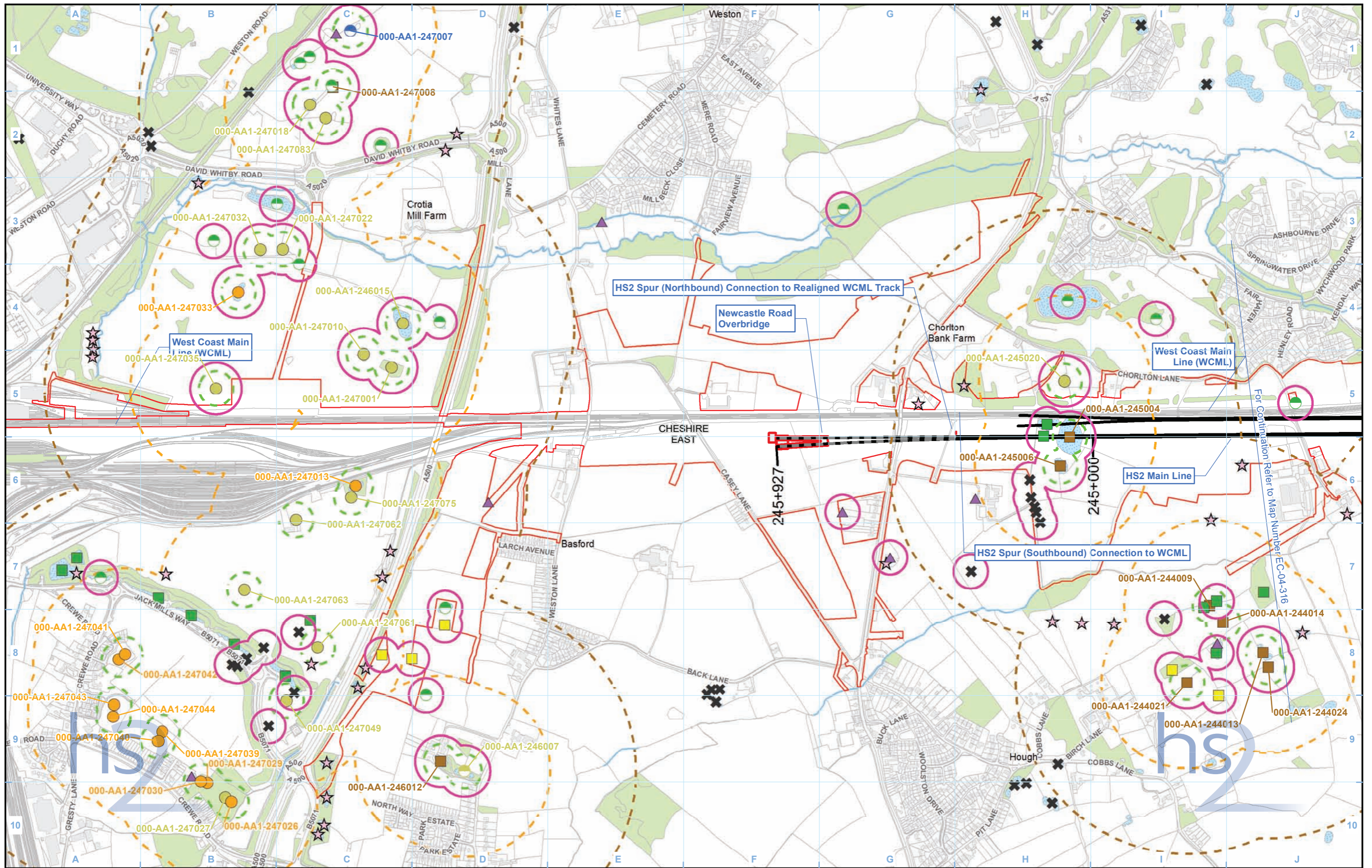
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**Legend**







Map Number	EC-04-317
Map Name	Amphibians SES and AP ES
Community Area 5: South Cheshire	

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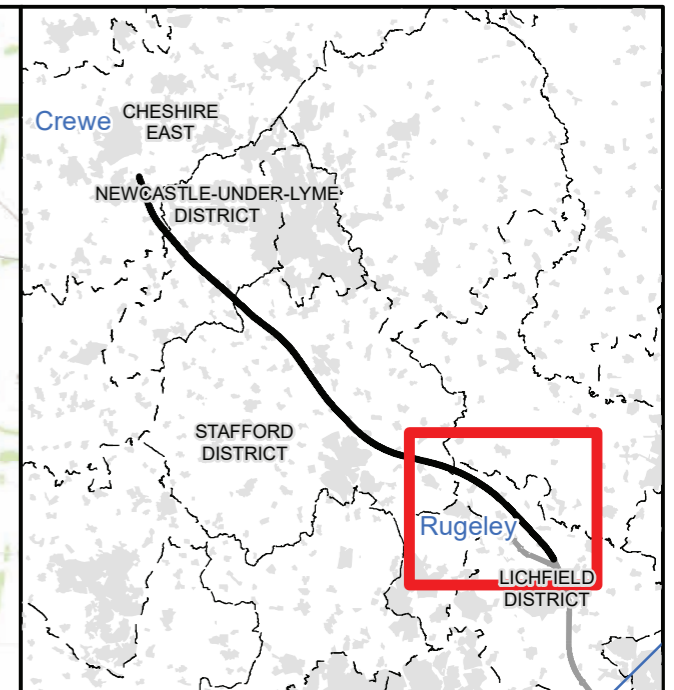
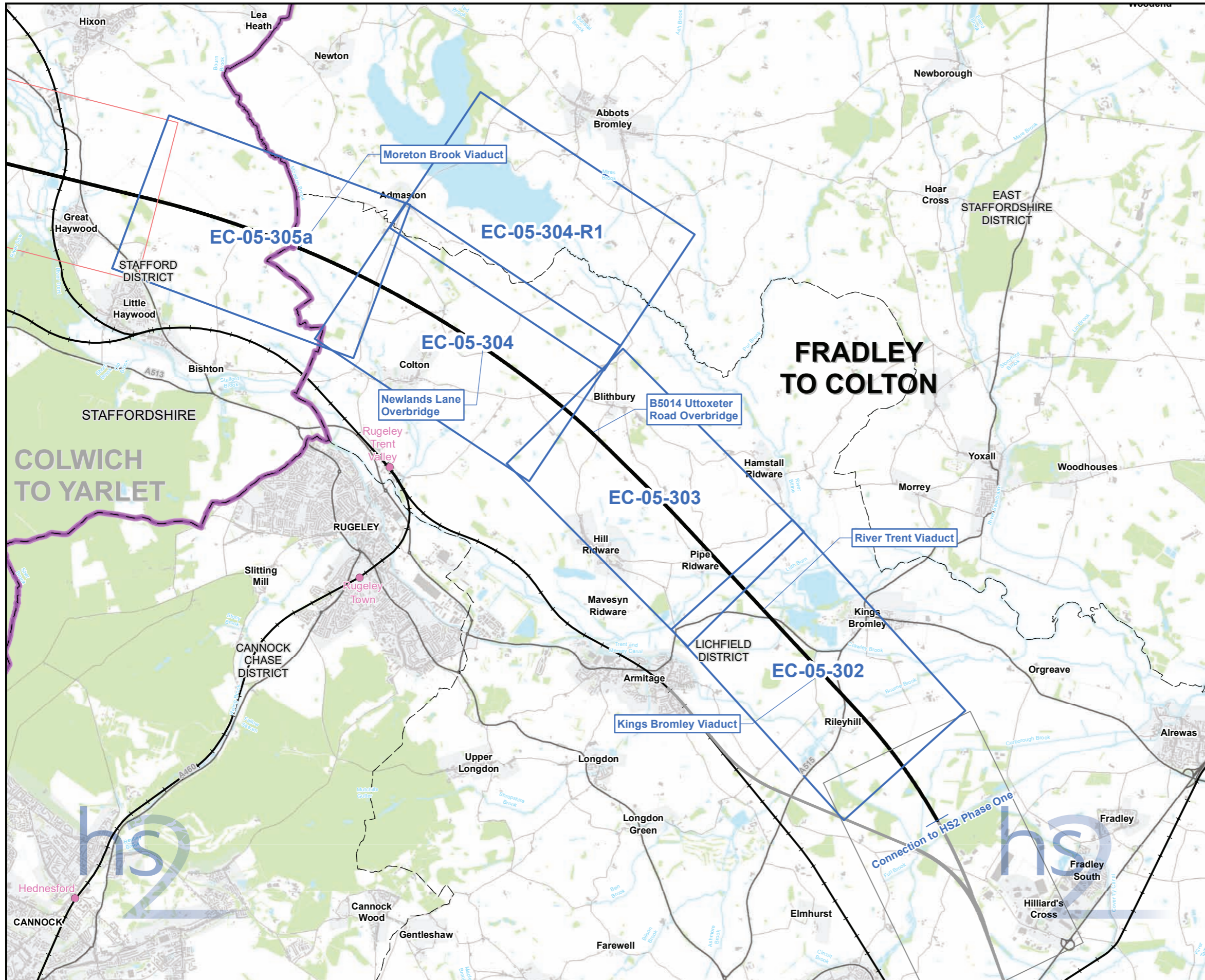
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Date: 13/02/18

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High Speed Two Phase 2a (West Midlands - Crewe)  
Background Information and Data  
**EC-05 - Bat roost**



**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

**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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-05-INDEX-CA1
Map Name	Index Map of: Bat - Roost SES and AP ES Community Area 1: Fradley to Colton

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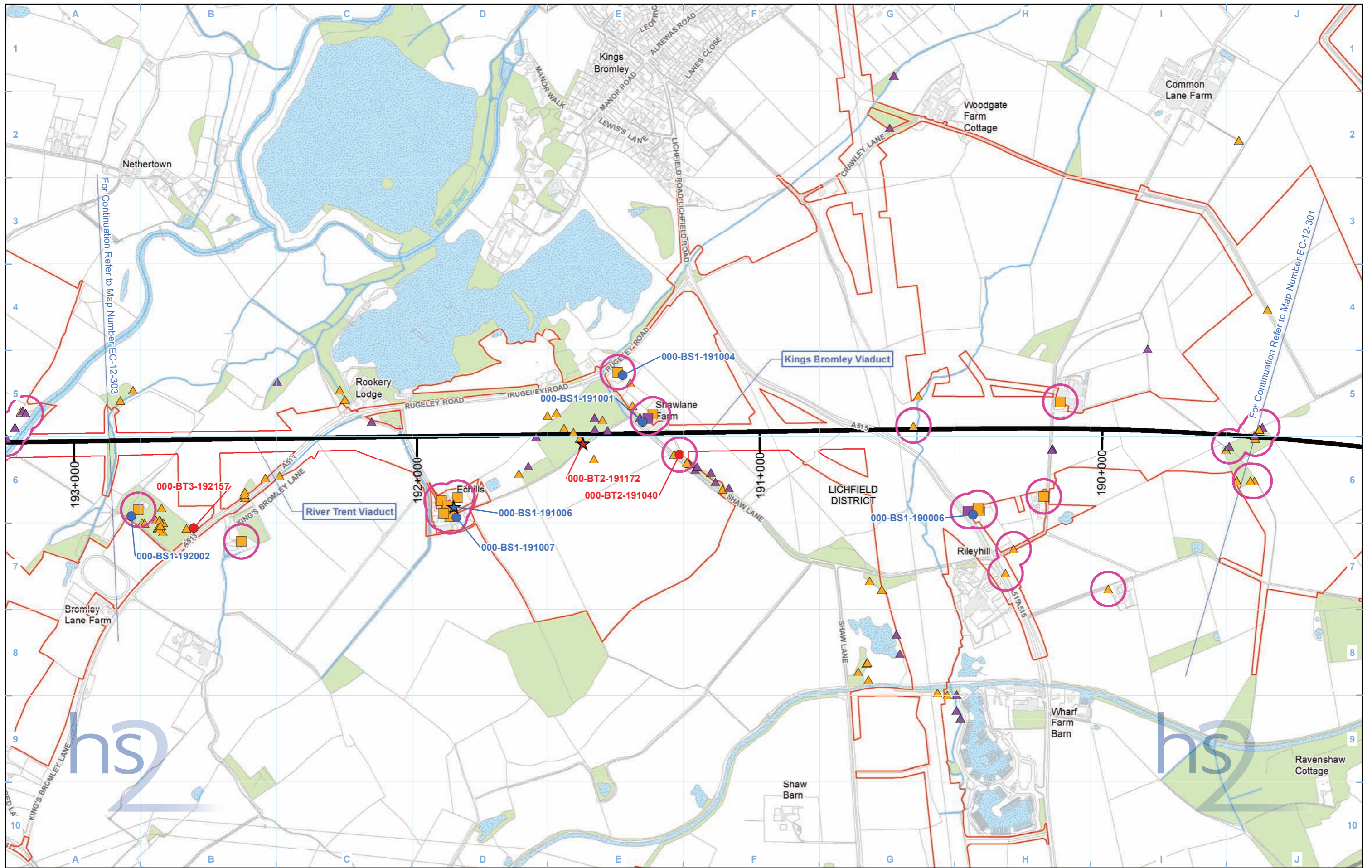
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Doc Number: 2PT01-ARP-EV-MAP-000-075001-P03 **Date: 26/02/18**



Legend	
	Route in tunnel; Green 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)
	Area Contains New Survey Data

Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Hibernation roost		Hibernation roost		High
	Maternity roost		Maternity roost		Moderate
	Other roost		Other roost		High
	Multiple roost types		Multiple roost types		Moderate

Map Number	EC-05-302
Map Name	Bat - Roost SES and AP ES
Community Area 1: Fradley to Colton	

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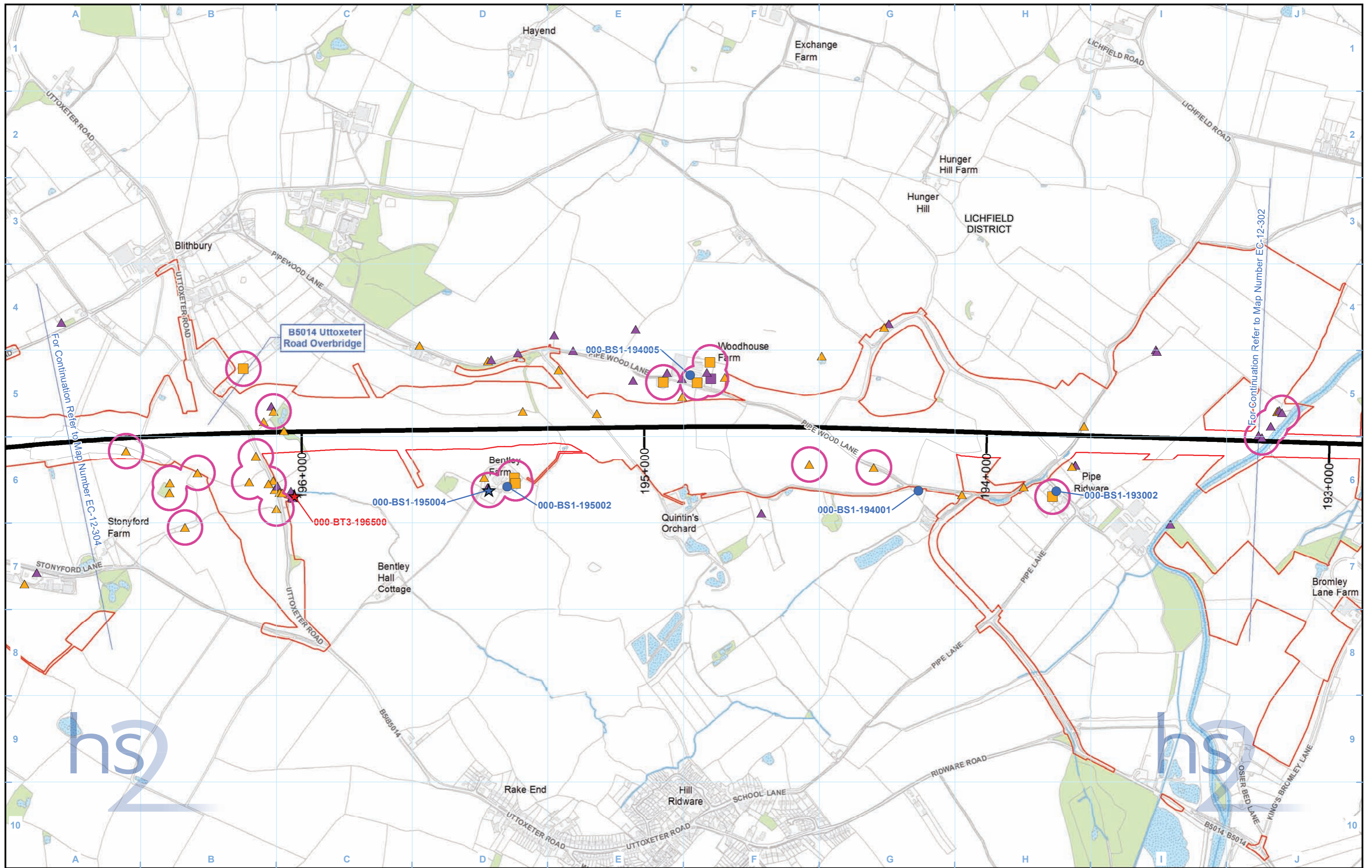
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Doc Number: 2PT01-ARP-EV-MAP-000-075302-P03

Date: 13/02/18



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in tunnel; Green Tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		Moderate
	Land potentially required during construction		Multiple roost types		Multiple roost types		
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						
	Area Contains New Survey Data						

Map Number	EC-05-303
Map Name	Bat - Roost SES and AP ES
	Community Area 1: Fradley to Colton

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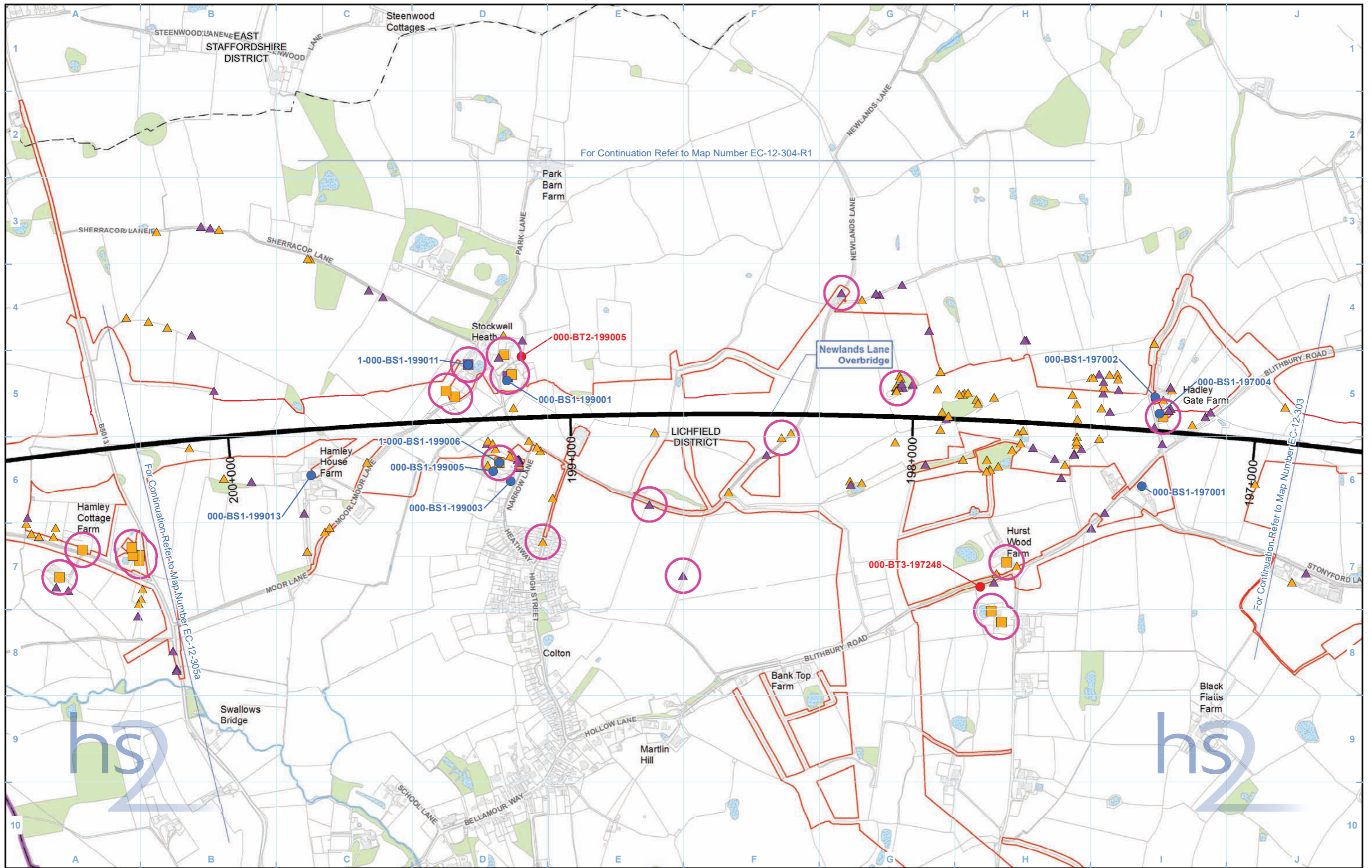
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Doc Number: 2PT01-ARP-EV-MAP-000-075303-P03

Date: 13/02/18



Legend		Confirmed bat roost - trees:	Confirmed bat roost - building:	Potential to support roosting bats - buildings:
	Route in tunnel; Green Tunnel	Hibernation roost	Hibernation roost	High
	Route on surface	Maternity roost	Maternity roost	Moderate
	Depot, station, headhouse or portal building	Other roost	Other roost	High
	Land potentially required during construction	Multiple roost types	Multiple roost types	Moderate
	Community area boundary			
	County boundary			
	District/Borough boundary			
	Watercourse			
	Water body			
	Woodland (not verified by survey)			
	Area Contains New Survey Data			

Map Number	EC-05-304
Map Name	Bat - Roost SES and AP ES
Community Area 1: Fradley to Colton	

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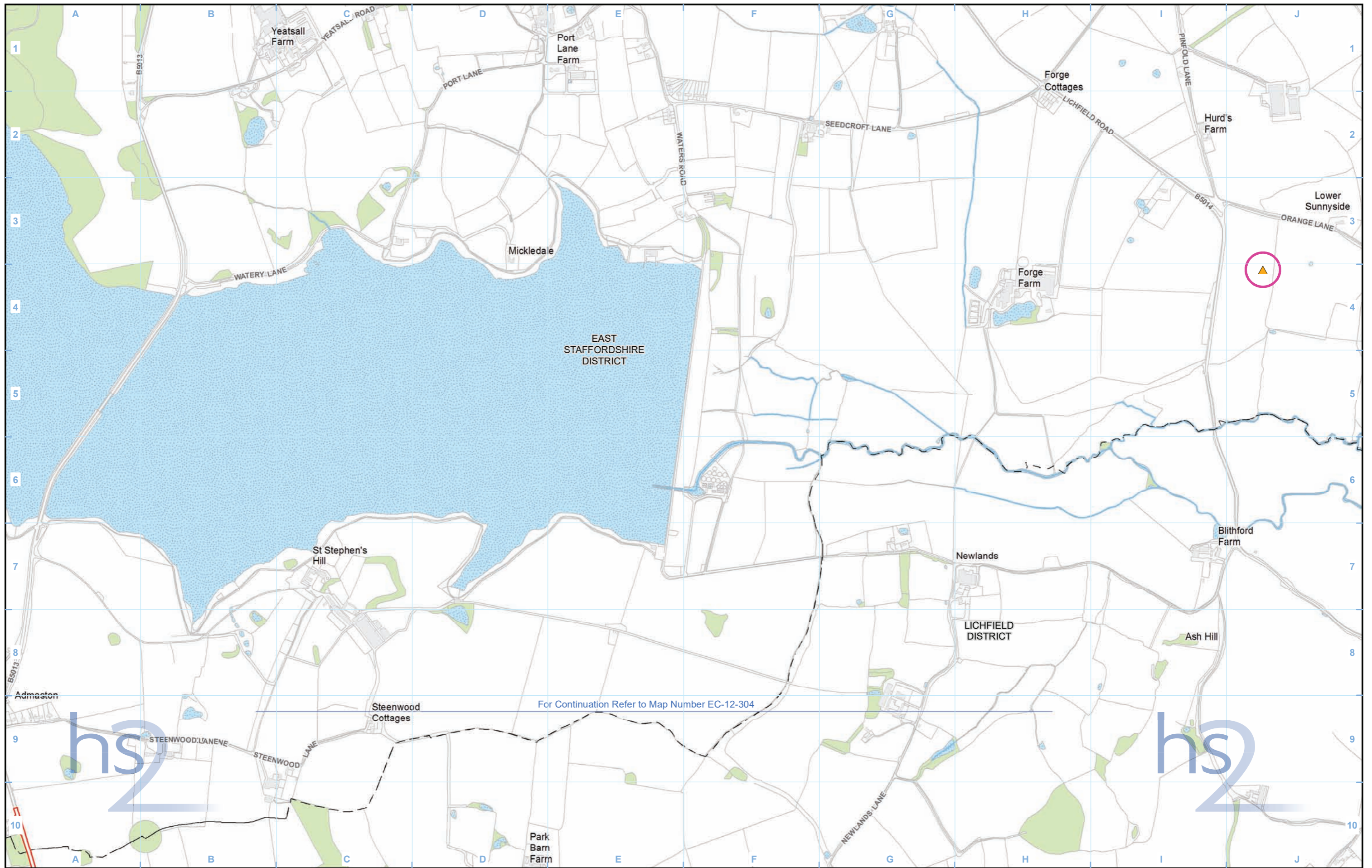
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Doc Number: 2PT01-ARP-EV-MAP-000-075304-P03

Date: 13/02/18



For Continuation Refer to Map Number EC-12-304

Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in tunnel; Green Tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						
	Area Contains New Survey Data						

Map Number	EC-05-304-R1
Map Name	Bat - Roost SES and AP ES
	Community Area 1: Fradley to Colton

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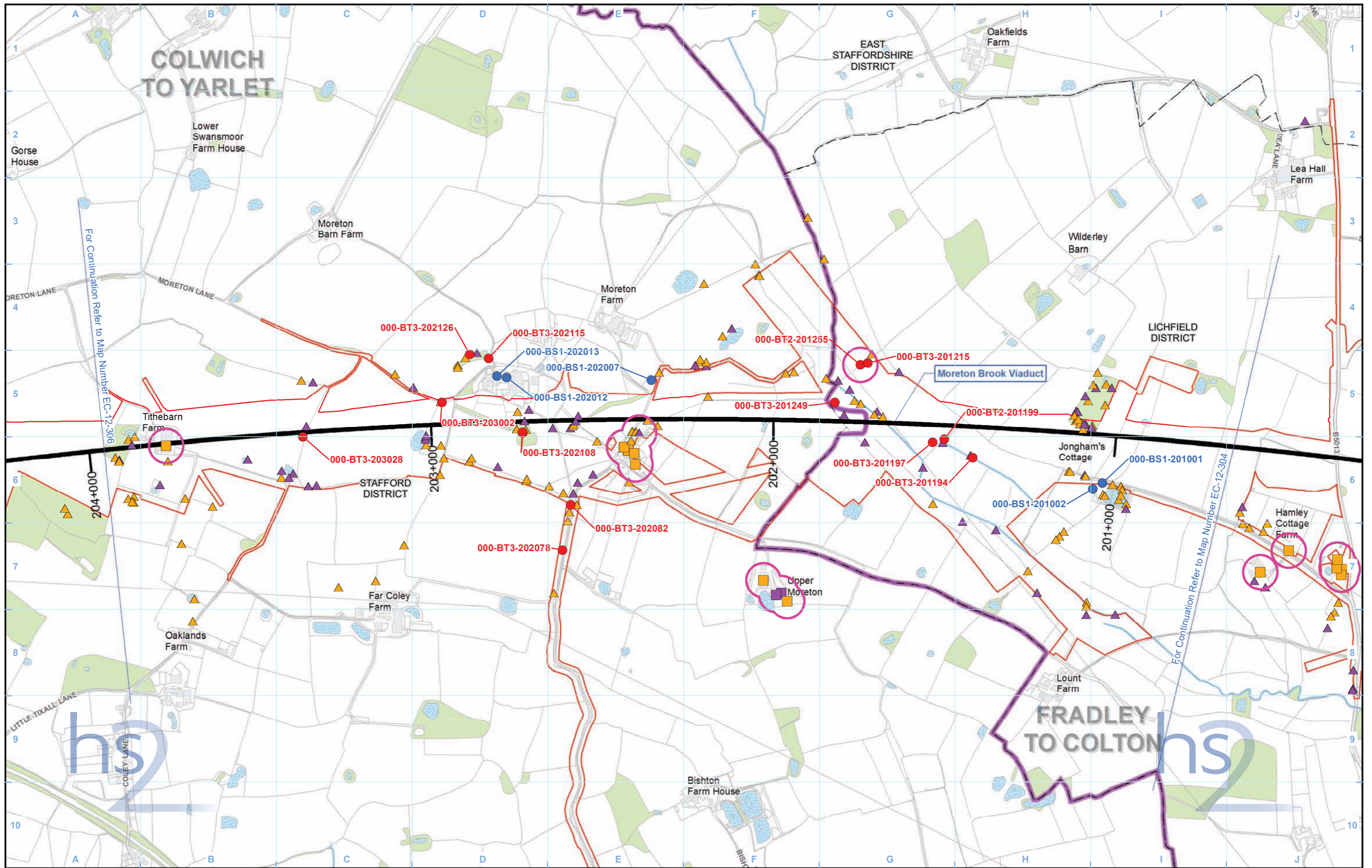
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Doc Number: 2PT01-ARP-EV-MAP-000-075504-P03 Date: 13/02/18





Legend	
	Route in tunnel; Green 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)
	Area Contains New Survey Data

Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Hibernation roost		Hibernation roost		High
	Maternity roost		Maternity roost		Moderate
	Other roost		Other roost		High
	Multiple roost types		Multiple roost types		Moderate

Map Number	EC-05-305a
Map Name	Bat - Roost SES and AP ES
Community Area 1:	Fradley to Colton

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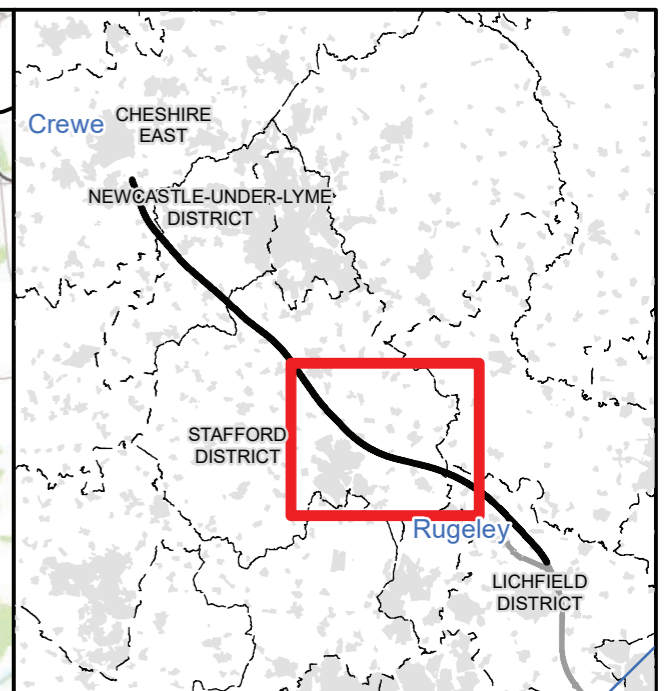
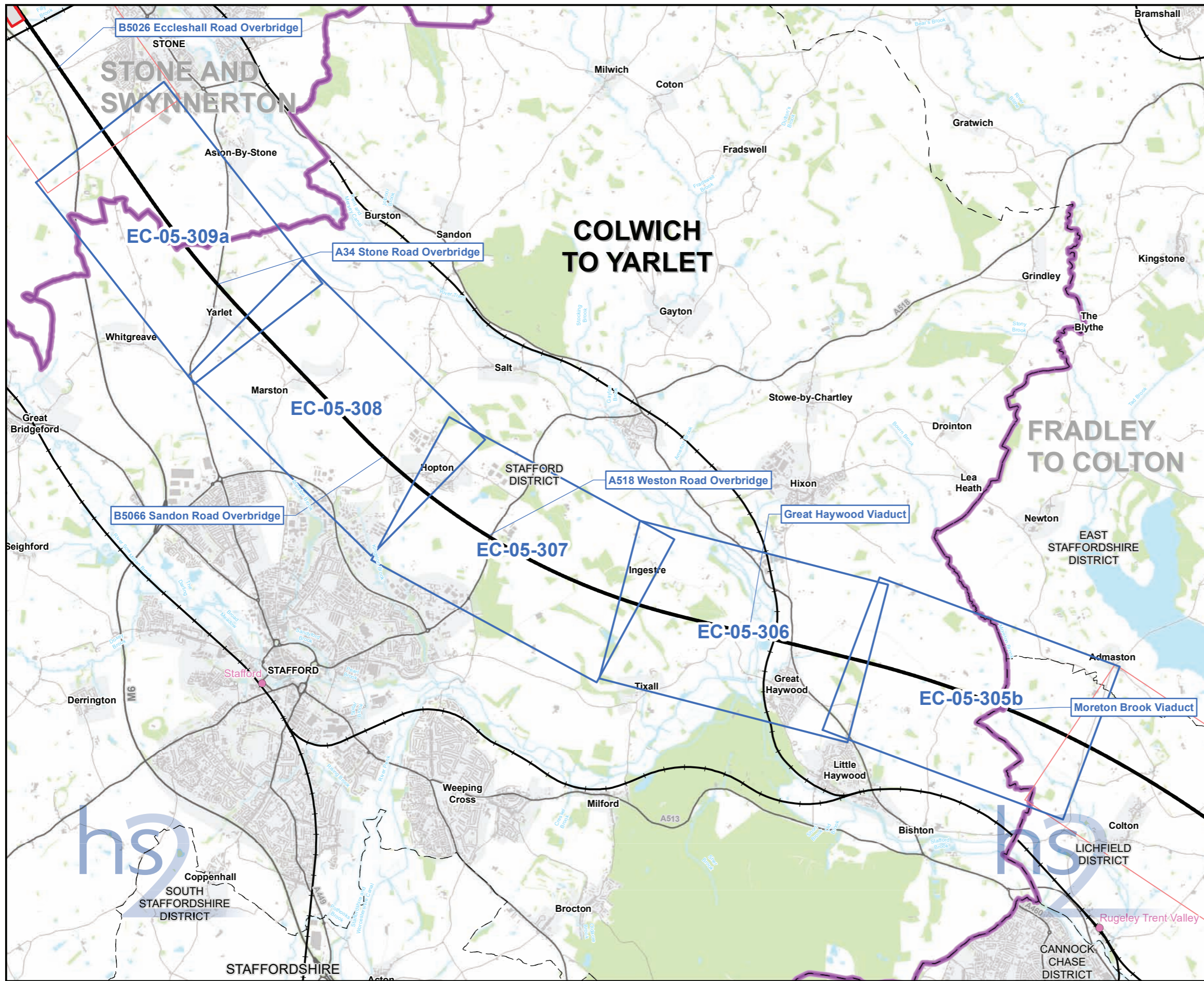
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Doc Number: 2PT01-ARP-EV-MAP-000-075305-P03

Scale at A3: 1:10,000

Metres

Date: 13/02/18



**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

- 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 with amendment
  - Map sheets included in this community area with no amendment
  - Map sheets not included in this community area

Map Number	EC-05-INDEX-CA2
Map Name	Index Map of: Bat - Roost SES and AP ES Community Area 2: Colwich to Yarlet

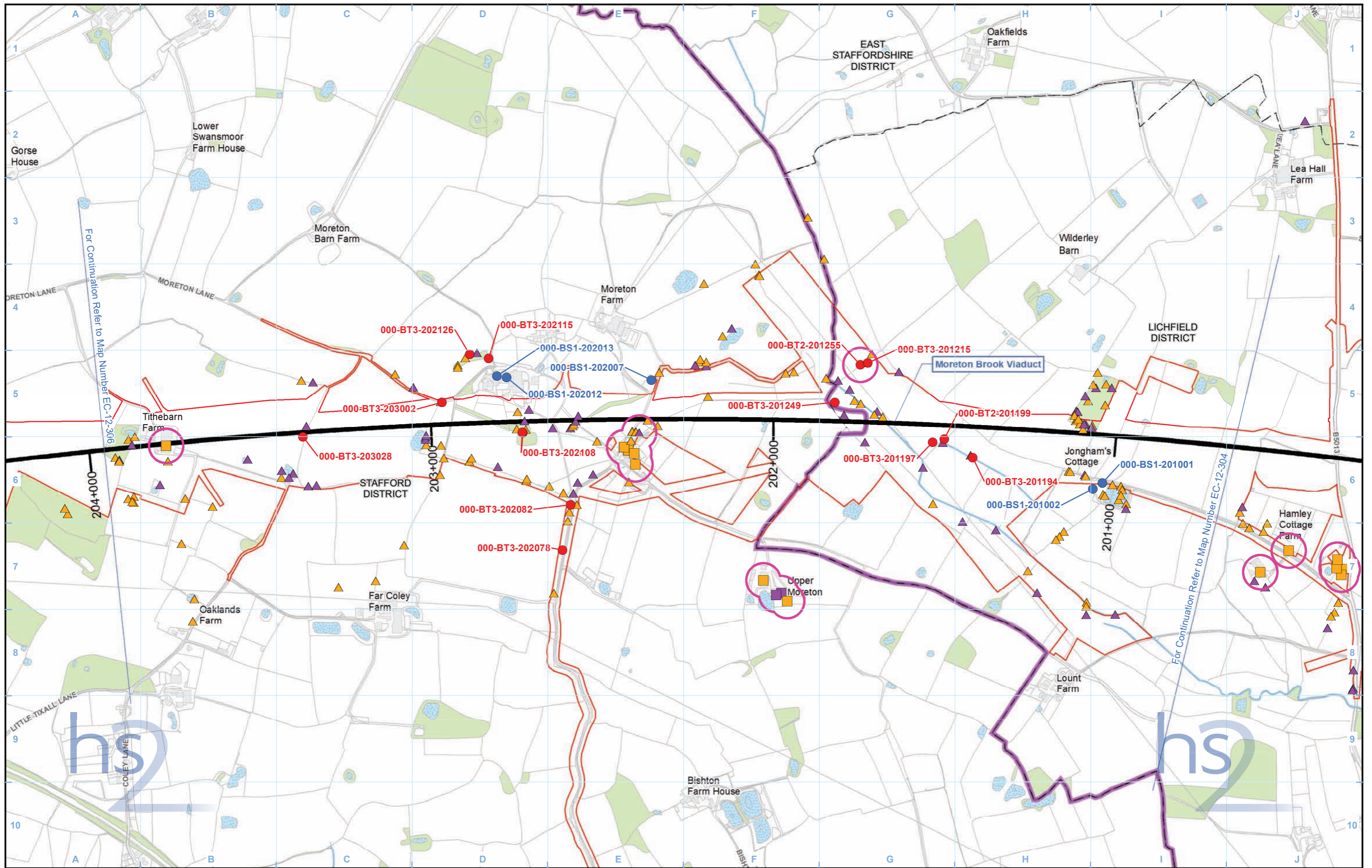
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Doc Number: 2PT01-ARP-EV-MAP-000-075002-P03 **Date:** 26/02/18



Legend		Confirmed bat roost - trees:	Confirmed bat roost - building:	Potential to support roosting bats - buildings:
	Route in tunnel; Green Tunnel	Hibernation roost	Hibernation roost	High
	Route on surface	Maternity roost	Maternity roost	Moderate
	Depot, station, headhouse or portal building	Other roost	Other roost	High
	Land potentially required during construction	Multiple roost types	Multiple roost types	Moderate
	Community area boundary			
	County boundary			
	District/Borough boundary			
	Watercourse			
	Water body			
	Woodland (not verified by survey)			
	Area Contains New Survey Data			

Map Number	EC-05-305b
Map Name	Bat - Roost SES and AP ES
	Community Area 2: Colwich to Yarlet

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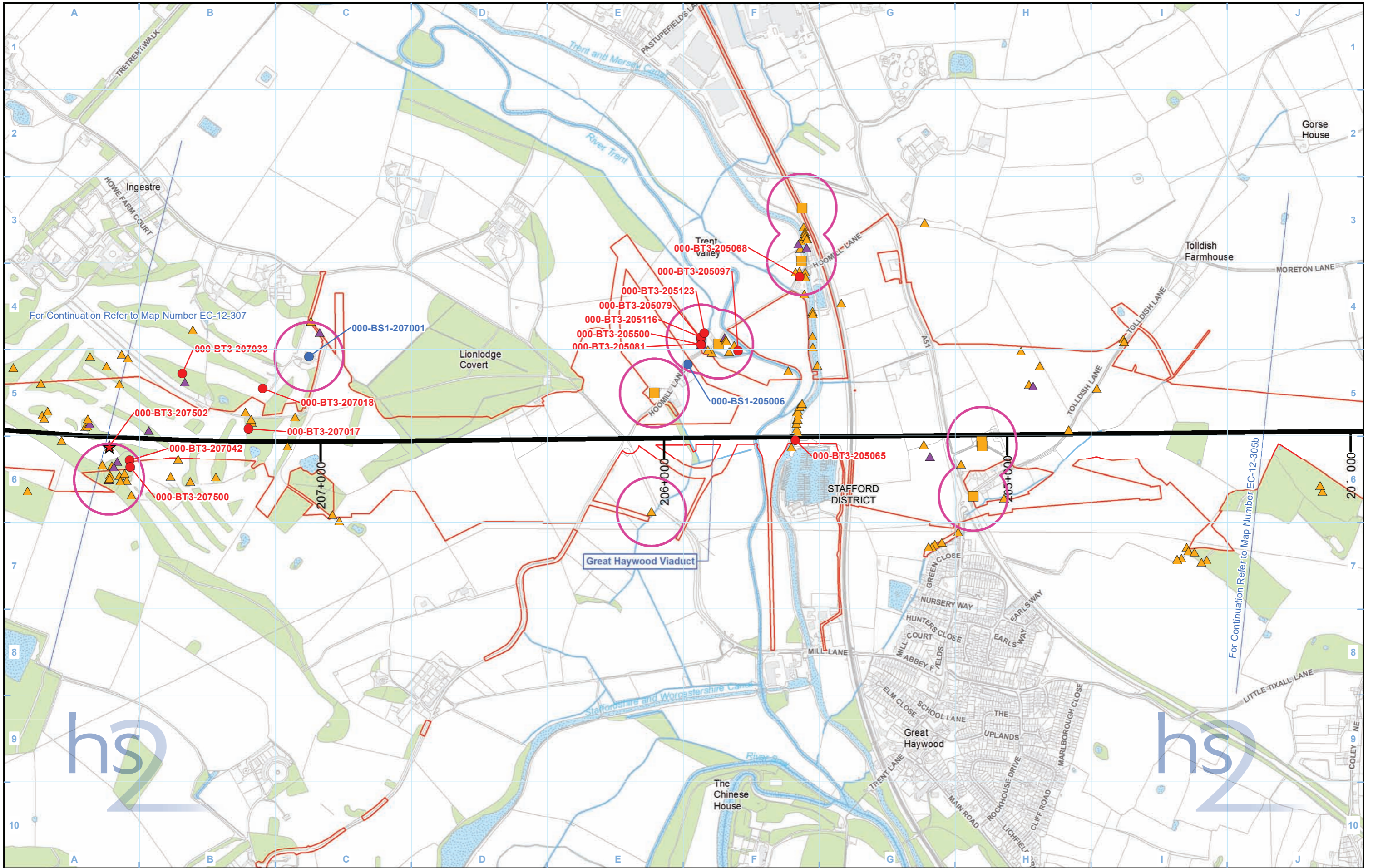
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Doc Number: 2PT01-ARP-EV-MAP-000-075605-P03

Date: 13/02/18



Legend	
	Route in tunnel; Green 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)
	Area Contains New Survey Data

Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Hibernation roost		Hibernation roost		High
	Maternity roost		Maternity roost		Moderate
	Other roost		Other roost		High
	Multiple roost types		Multiple roost types		Moderate

Map Number	EC-05-306
Map Name	Bat - Roost SES and AP ES
Community Area 2: Colwich to Yarlet	

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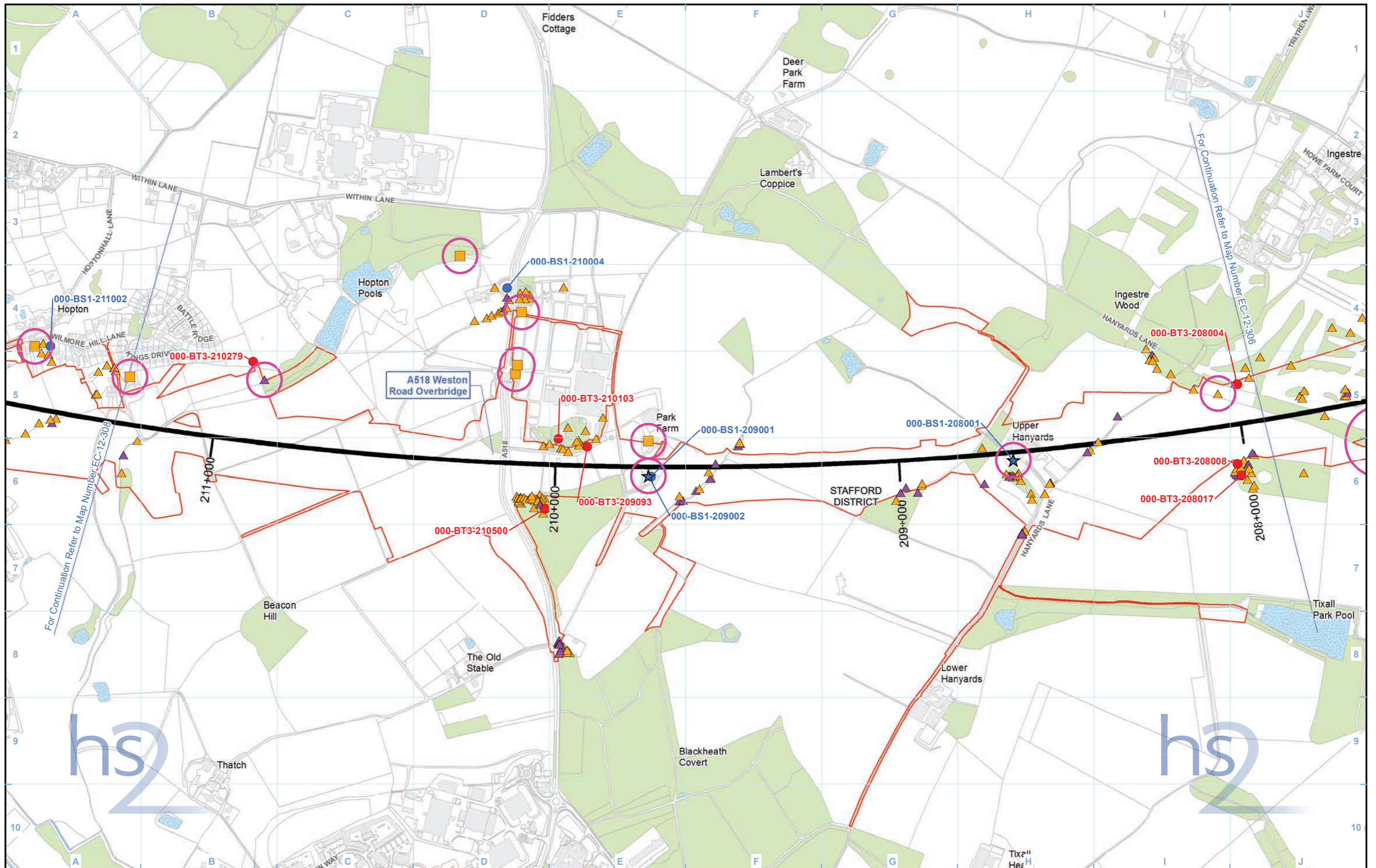
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Doc Number: 2PT01-ARP-EV-MAP-000-075306-P03

Date: 13/02/18



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
Route in tunnel; Green Tunnel	Watercourse	Hibernation roost	Hibernation roost	High		High	
Route on surface	Water body	Maternity roost	Maternity roost	Moderate		High	
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Other roost	Other roost	Moderate		High	
Land potentially required during construction	Area Contains New Survey Data	Multiple roost types	Multiple roost types				
Community area boundary							
County boundary							
District/Borough boundary							

Map Number	EC-05-307
Map Name	Bat - Roost SES and AP ES
	Community Area 2: Colwich to Yarlet

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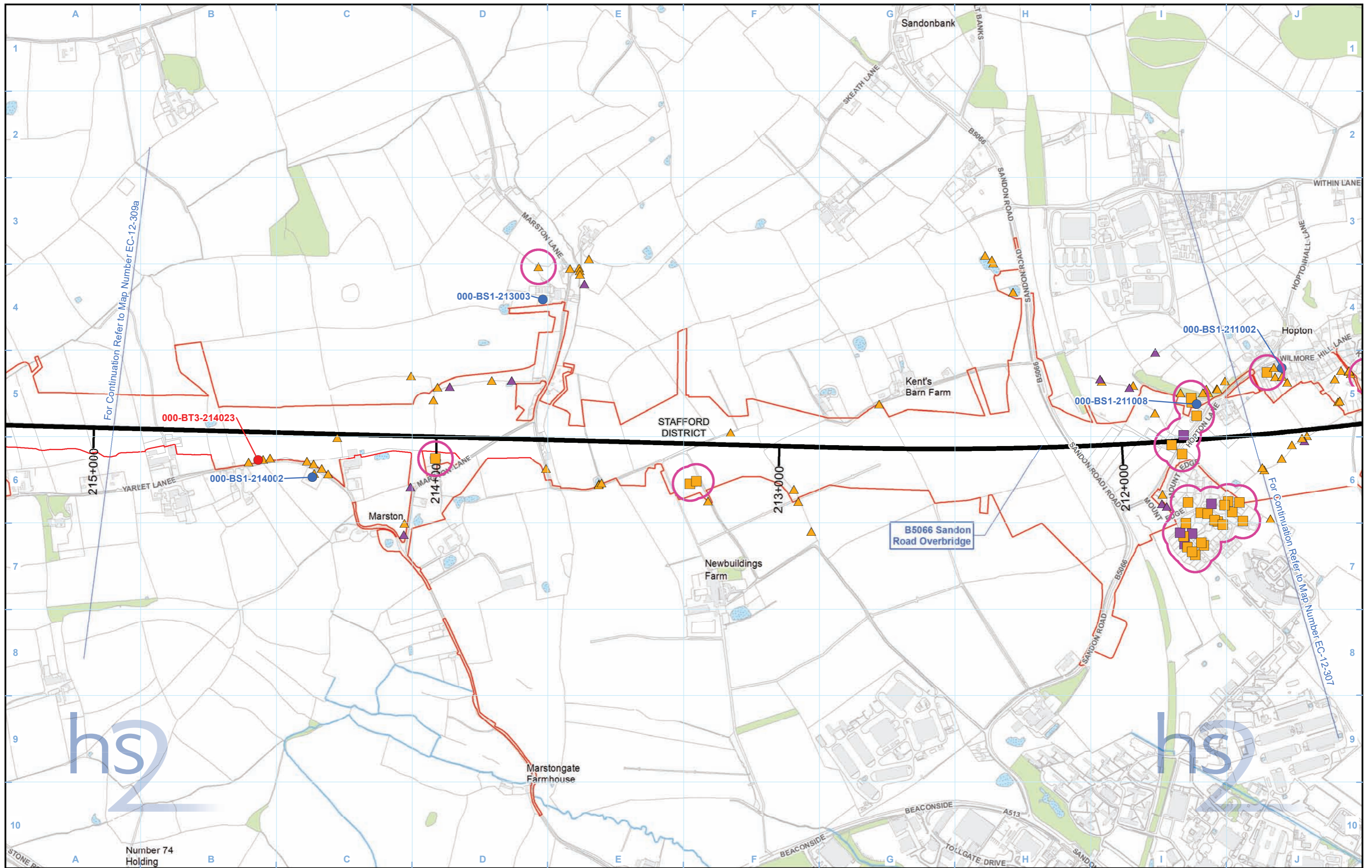
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Doc Number: 2PT01-ARP-EV-MAP-000-075307-P03

Date: 13/02/18



Legend		Confirmed bat roost - trees:	Confirmed bat roost - building:	Potential to support roosting bats - buildings:
Route in tunnel; Green Tunnel	Watercourse	Hibernation roost	Hibernation roost	High
Route on surface	Water body	Maternity roost	Maternity roost	Moderate
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Other roost	Other roost	High
Land potentially required during construction	Area Contains New Survey Data	Multiple roost types	Multiple roost types	Moderate
Community area boundary				
County boundary				
District/Borough boundary				

Map Number	EC-05-308
Map Name	Bat - Roost SES and AP ES
	Community Area 2: Colwich to Yarlet

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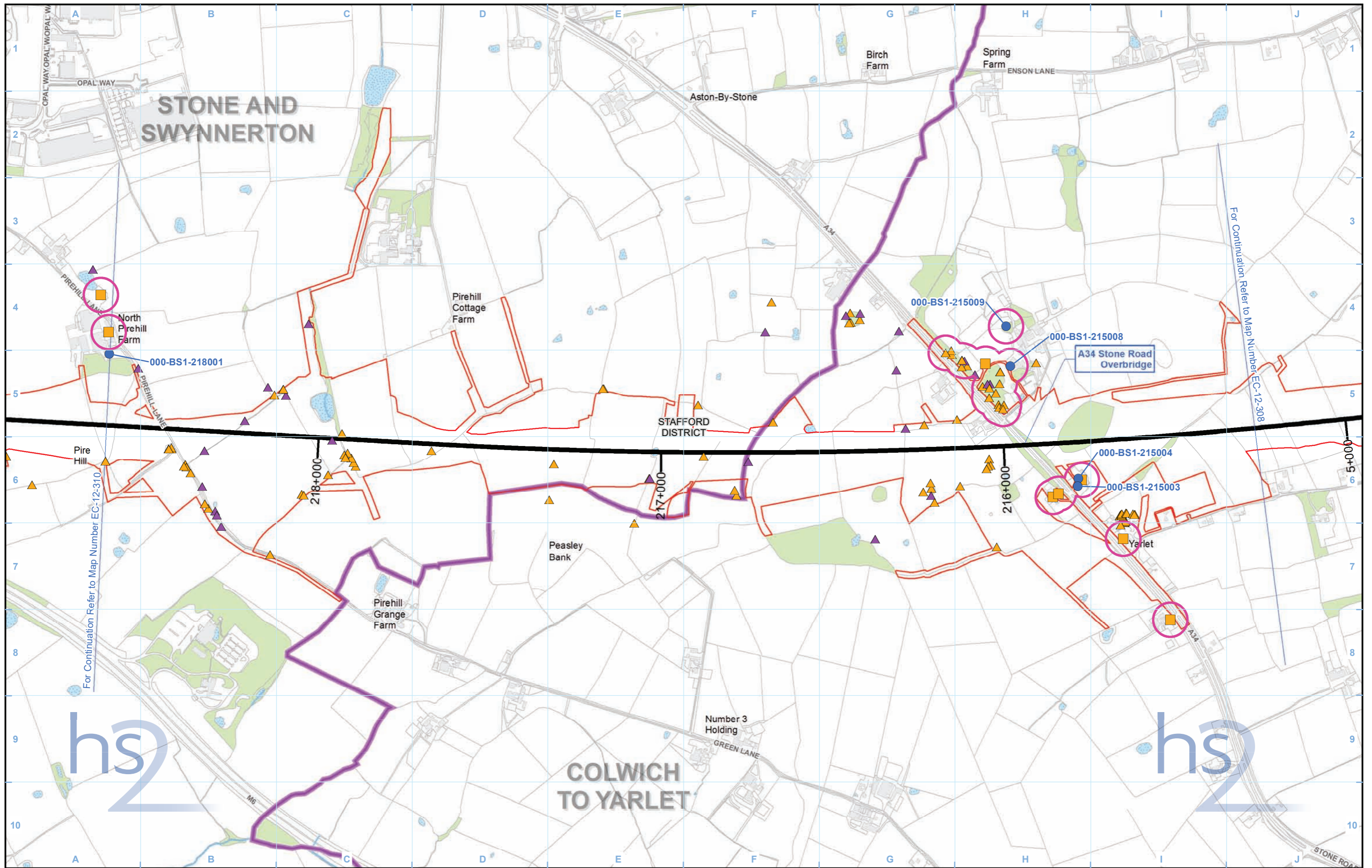
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Date: 13/02/18



**Legend**

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

<b>Confirmed bat roost - trees:</b>	<b>Confirmed bat roost - building:</b>	<b>Potential to support roosting bats - buildings:</b>
Hibernation roost	Hibernation roost	High
Maternity roost	Maternity roost	Moderate
Other roost	Other roost	High
Multiple roost types	Multiple roost types	Moderate

Map Number	EC-05-309a
Map Name	Bat - Roost SES and AP ES
	Community Area 2: Colwich to Yarlet

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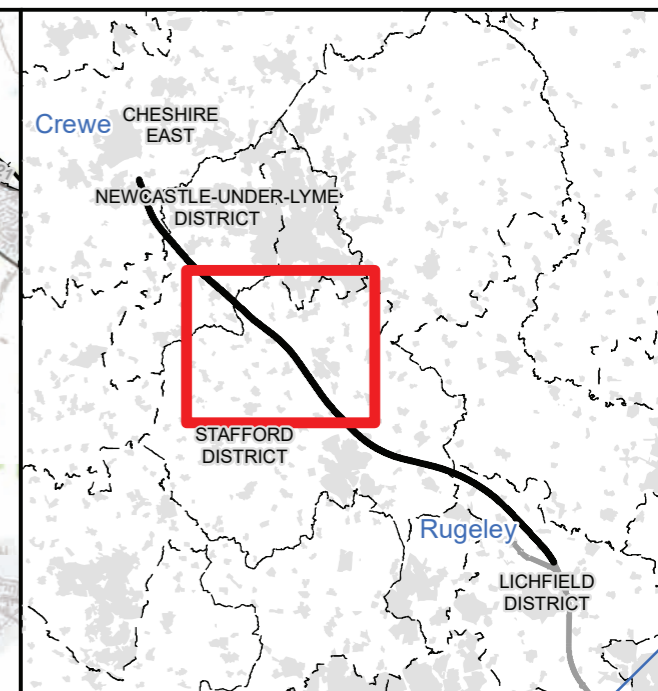
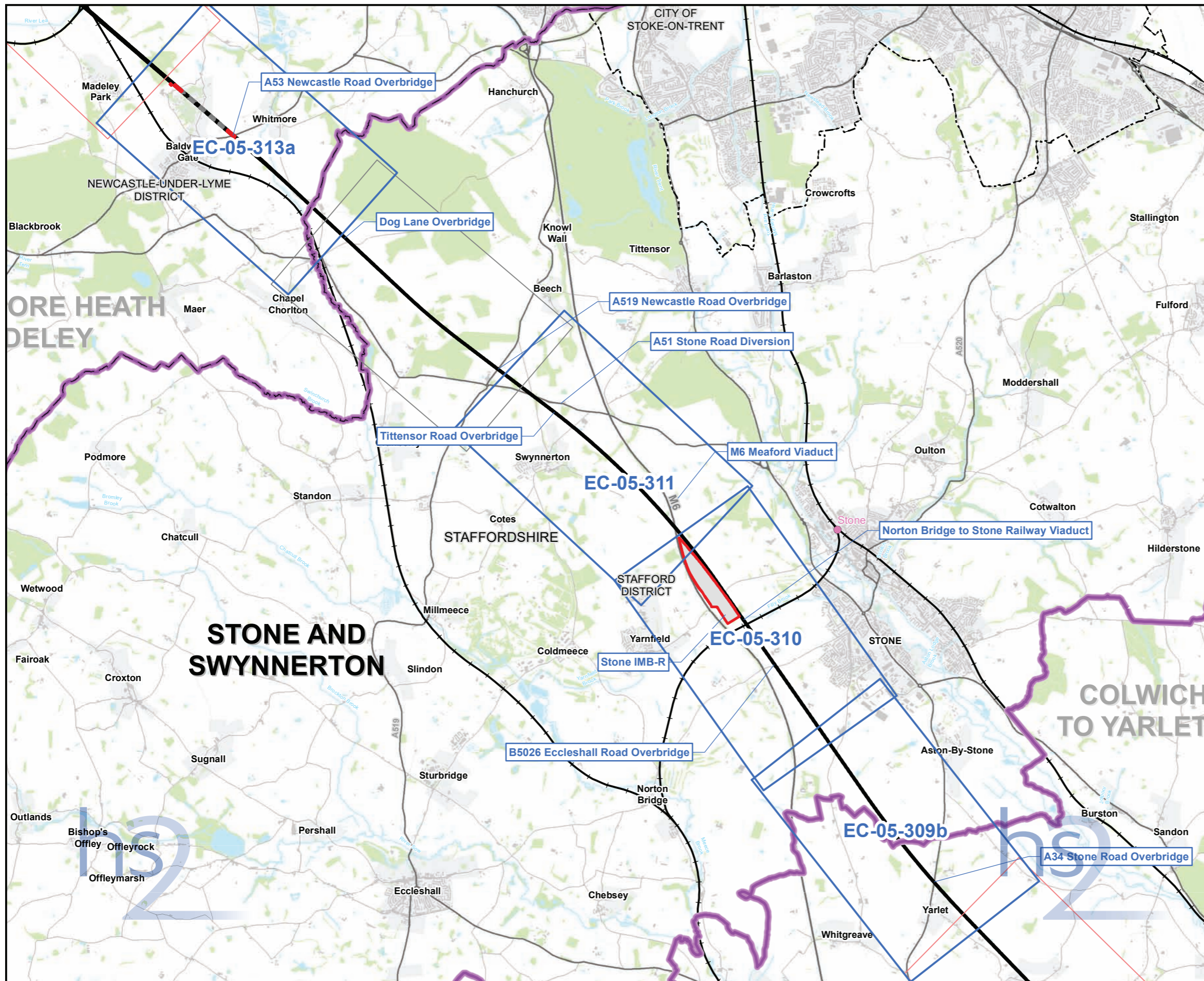
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Metres

Doc Number: 2PT01-ARP-EV-MAP-000-075309-P03 Date: 13/02/18



**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

**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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-05-INDEX-CA3
Map Name	Index Map of: Bat - Roost SES and AP ES Community Area 3: Stone and Swynnerton

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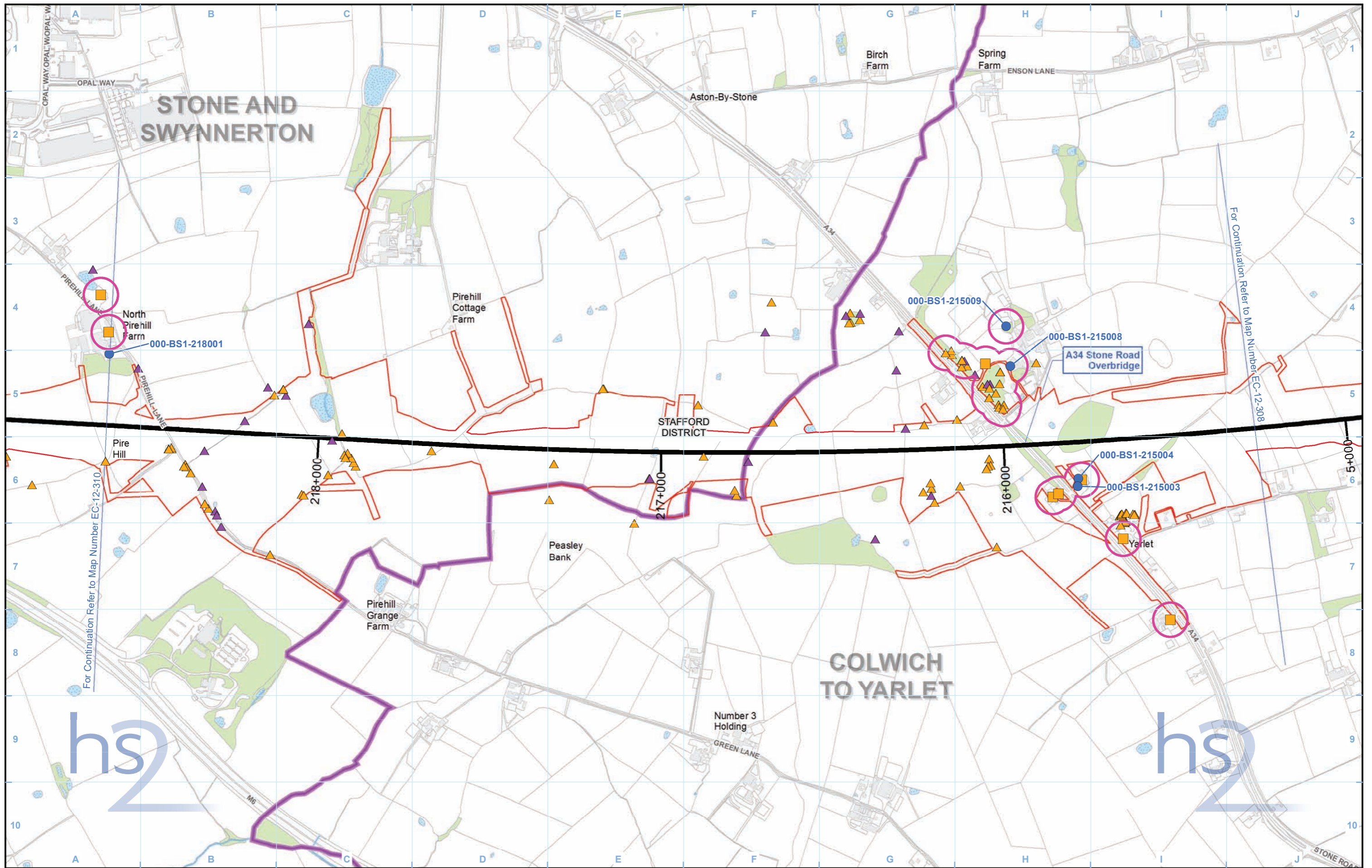
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Doc Number: 2PT01-ARP-EV-MAP-000-075003-P03 **Date: 26/02/18**





**Legend**

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

<b>Confirmed bat roost - trees:</b>	<b>Confirmed bat roost - building:</b>	<b>Potential to support roosting bats - buildings:</b>
Hibernation roost	Hibernation roost	High
Maternity roost	Maternity roost	Moderate
Other roost	Other roost	<b>Potential to support roosting bats - trees:</b>
Multiple roost types	Multiple roost types	High
		Moderate

Map Number	EC-05-309b
Map Name	Bat - Roost SES and AP ES
	Community Area 3: Stone and Swynnerton

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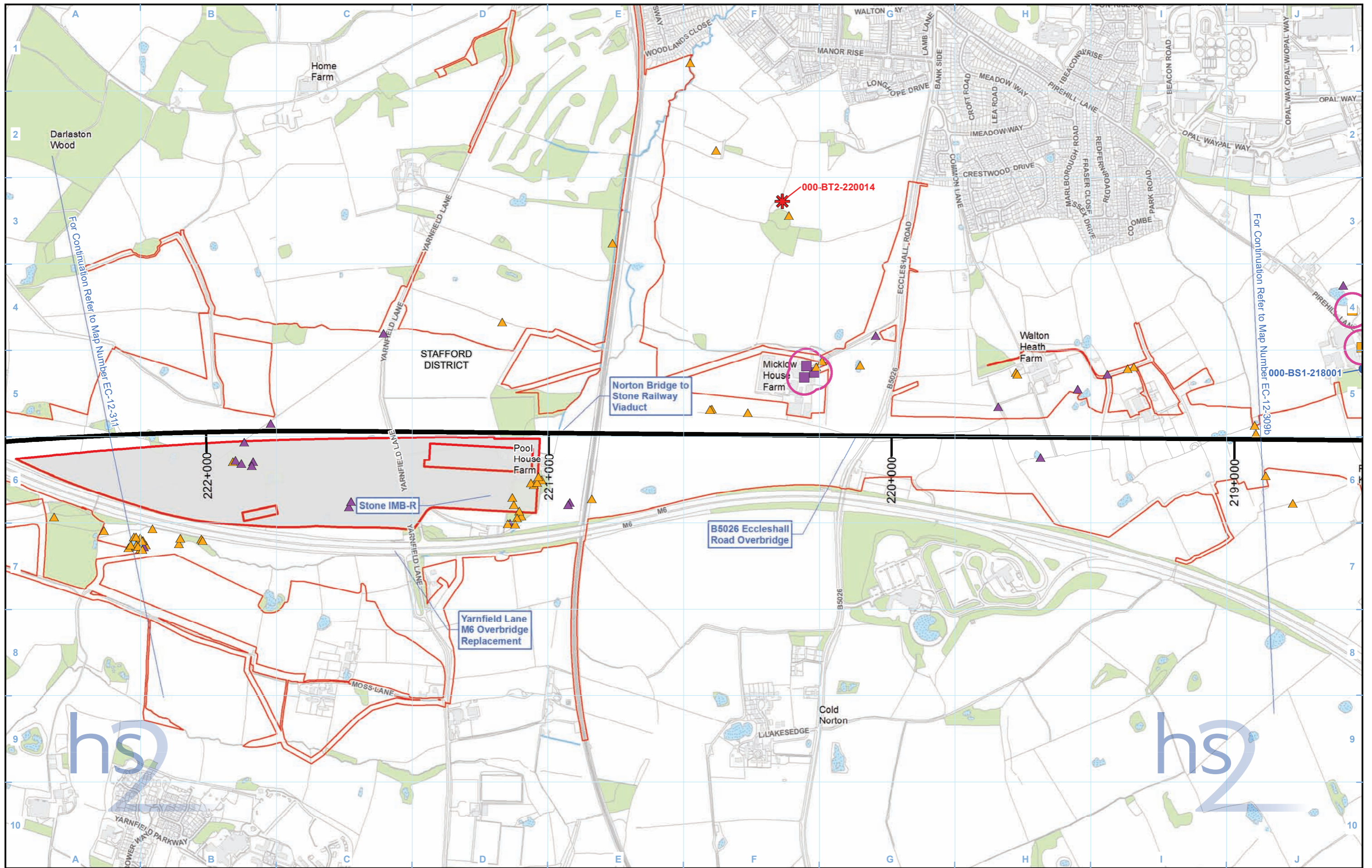
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Metres

Doc Number: 2PT01-ARP-EV-MAP-000-075409-P03 **Date: 13/02/18**



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
Route in tunnel; Green Tunnel	Watercourse	Hibernation roost	Hibernation roost	High	Moderate	High	Moderate
Route on surface	Water body	Maternity roost	Maternity roost	Other roost	Other roost	High	Moderate
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Multiple roost types	Multiple roost types	Multiple roost types	Multiple roost types	High	Moderate
Land potentially required during construction	Area Contains New Survey Data						
Community area boundary							
County boundary							
District/Borough boundary							

Map Number	EC-05-310
Map Name	Bat - Roost SES and AP ES
	Community Area 3: Stone and Swynnerton

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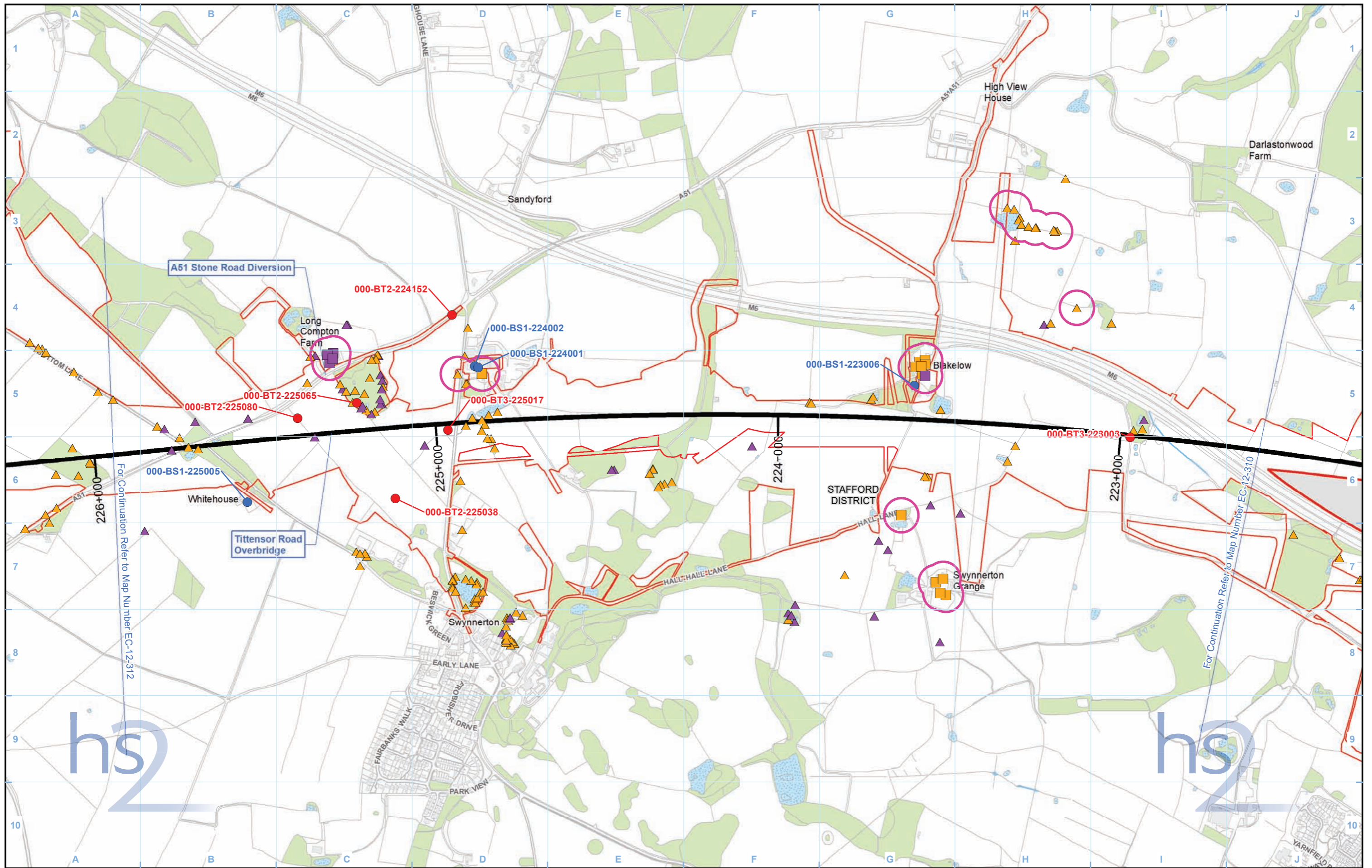
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Doc Number: 2PT01-ARP-EV-MAP-000-075310-P03

Date: 28/02/18



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
Route in tunnel; Green Tunnel	Watercourse	Hibernation roost	Hibernation roost	High	Moderate	High	Moderate
Route on surface	Water body	Maternity roost	Maternity roost	Other roost	Other roost	High	Moderate
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Multiple roost types	Multiple roost types				
Land potentially required during construction	Area Contains New Survey Data						
Community area boundary							
County boundary							
District/Borough boundary							

Map Number	EC-05-311
Map Name	Bat - Roost SES and AP ES
	Community Area 3: Stone and Swynnerton

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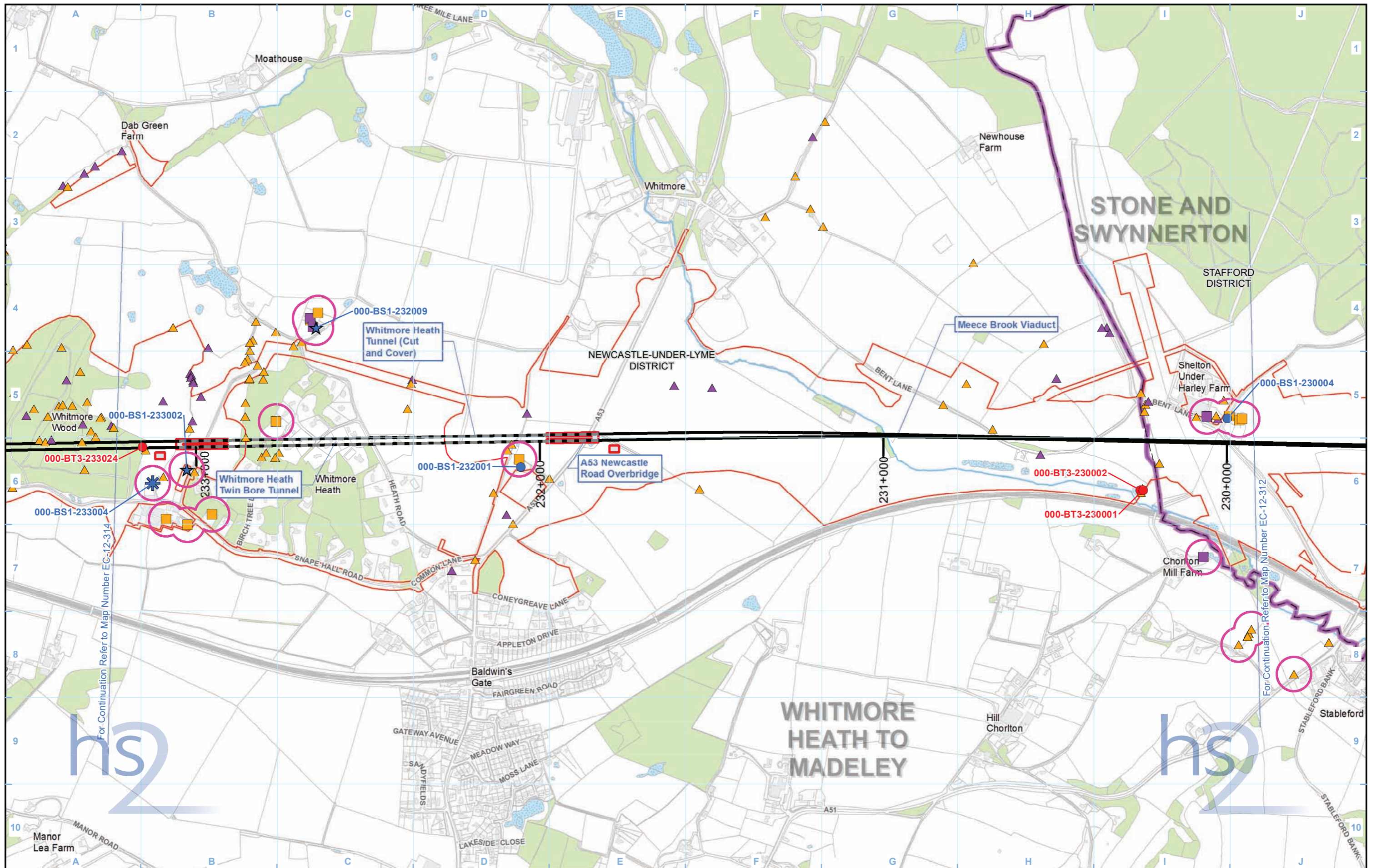
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Date: 13/02/18



**Legend**

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

<b>Confirmed bat roost - trees:</b>	<b>Confirmed bat roost - building:</b>	<b>Potential to support roosting bats - buildings:</b>
Hibernation roost	Hibernation roost	High
Maternity roost	Maternity roost	Moderate
Other roost	Other roost	High
Multiple roost types	Multiple roost types	Moderate

Map Number	EC-05-313a
Map Name	Bat - Roost SES and AP ES
	Community Area 3: Stone and Swynnerton

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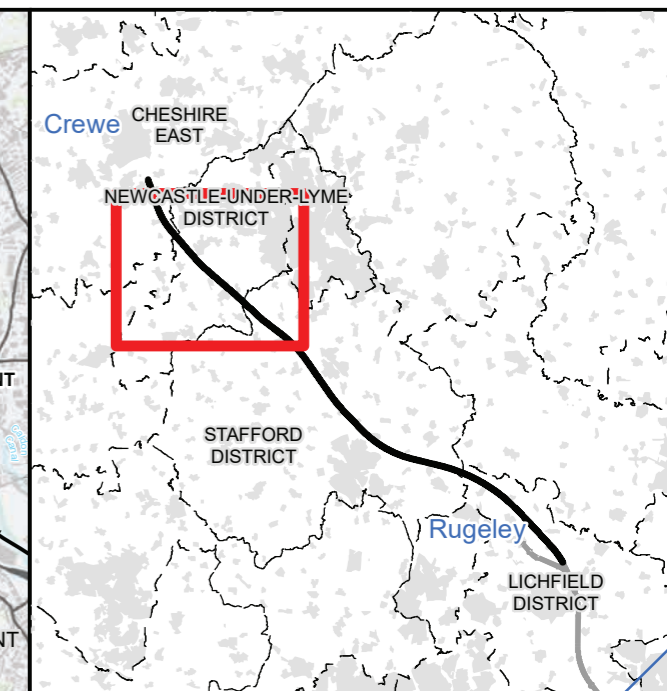
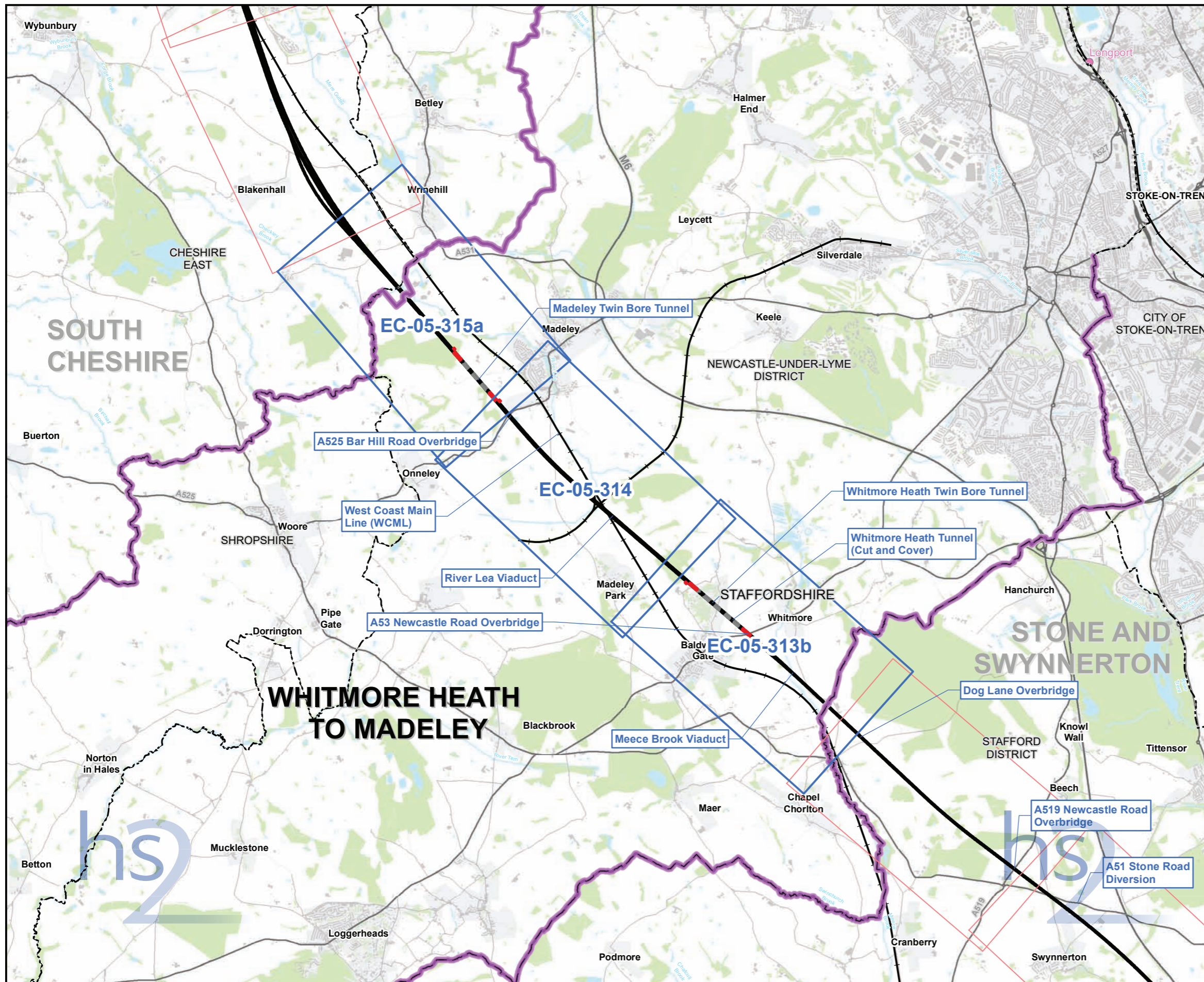
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Doc Number: 2PT01-ARP-EV-MAP-000-075313-P03 Date: 13/02/18

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**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

**Main Map Legend**

Route in tunnel	Map sheets included in this community area with amendment
Route on surface	Map sheets included in this community area with no amendment
Depot, station, headhouse or portal building	Map sheets not included in this community area
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

Map Number	EC-05-INDEX-CA4
Map Name	Index Map of: Bat - Roost SES and AP ES Community Area 4: Whitmore Heath to Madeley

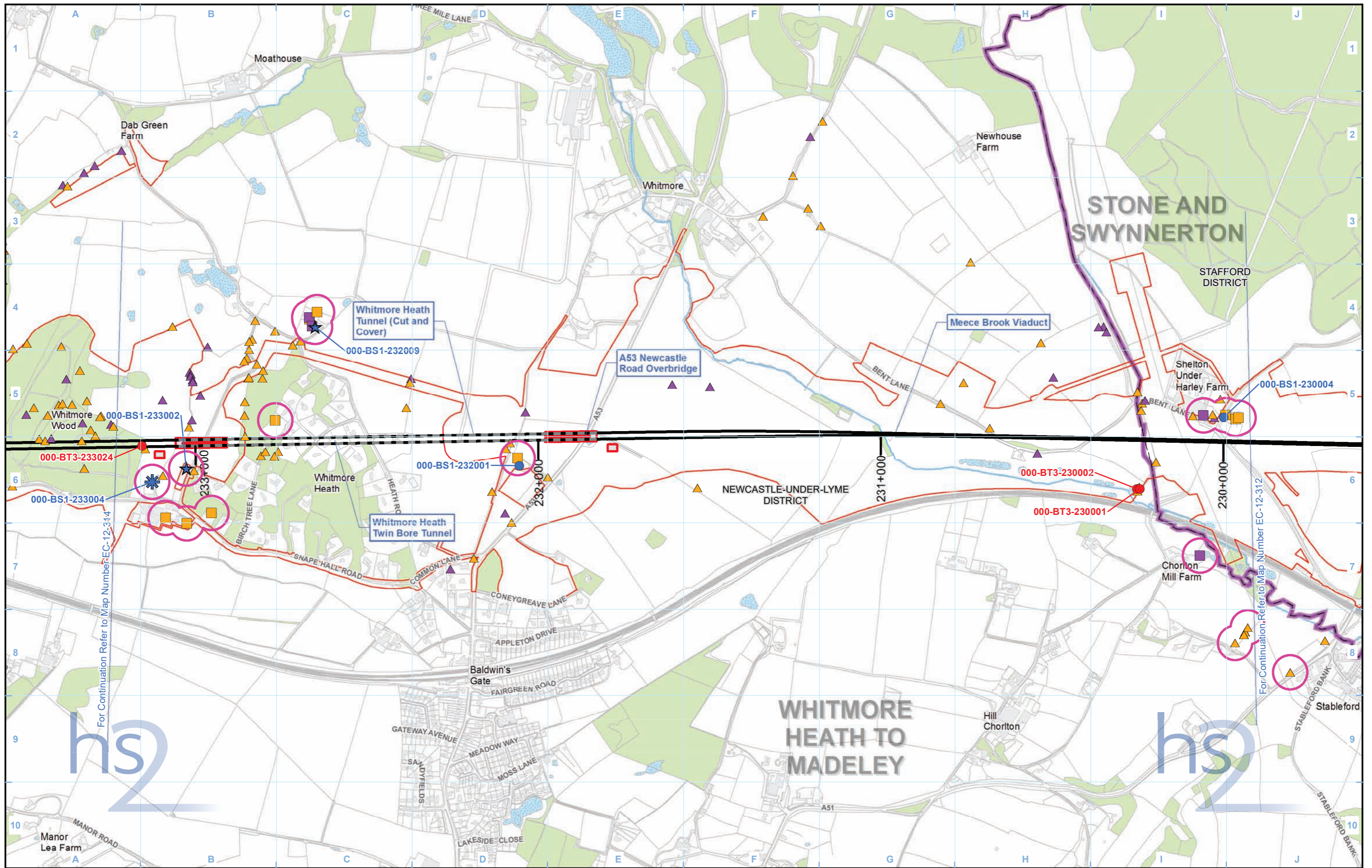
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Doc Number: 2PT01-ARP-EV-MAP-000-075004-P03 **Date: 26/02/18**



**Legend**



Map Number	EC-05-313b
Map Name	Bat - Roost SES and AP ES
	Community Area 4: Whitmore Heath to Madeley

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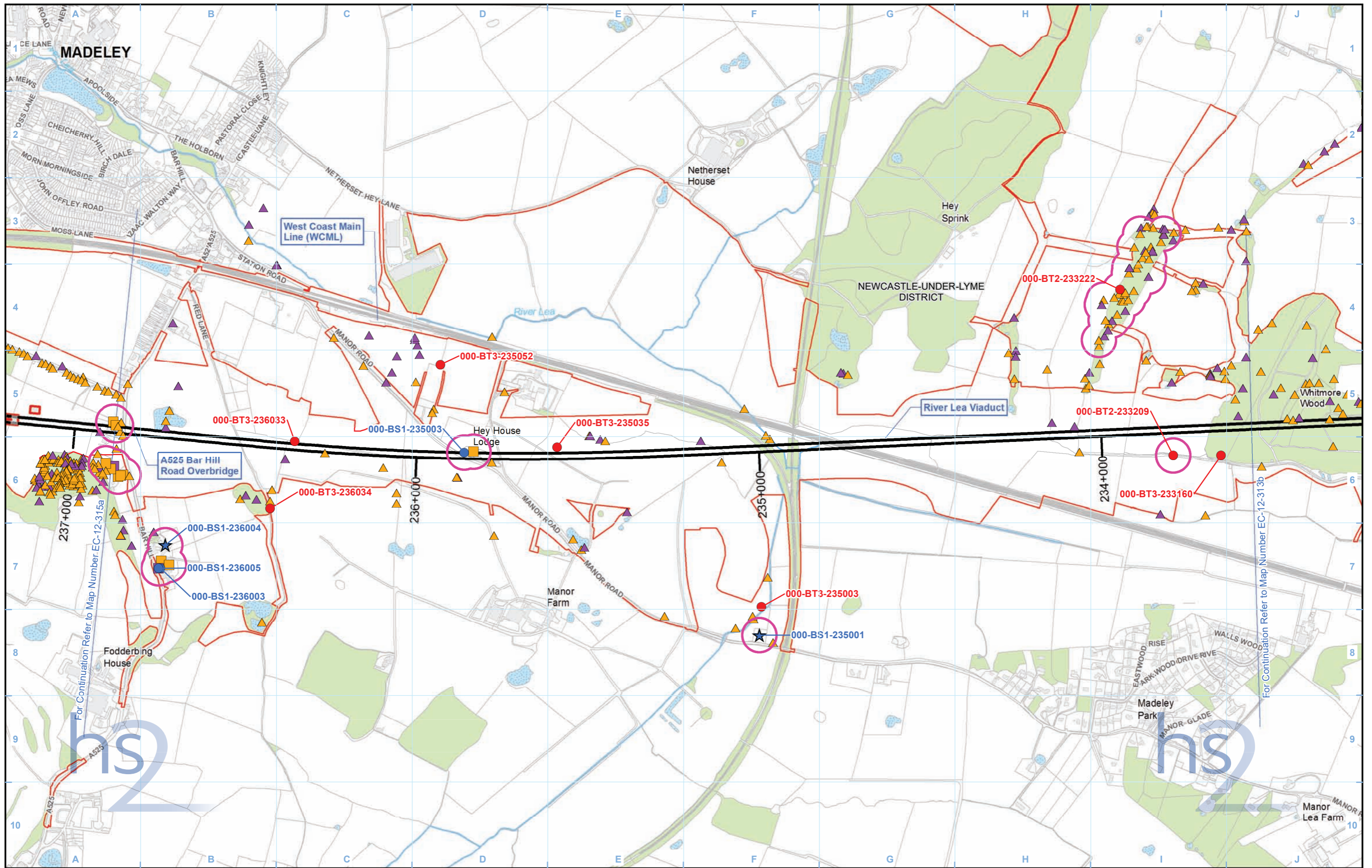
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Doc Number: 2PT01-ARP-EV-MAP-000-075413-P03

Date: 13/02/18



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in tunnel; Green Tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						
	Area Contains New Survey Data						

Map Number	EC-05-314
Map Name	Bat - Roost SES and AP ES
Community Area 4: Whitmore Heath to Madeley	

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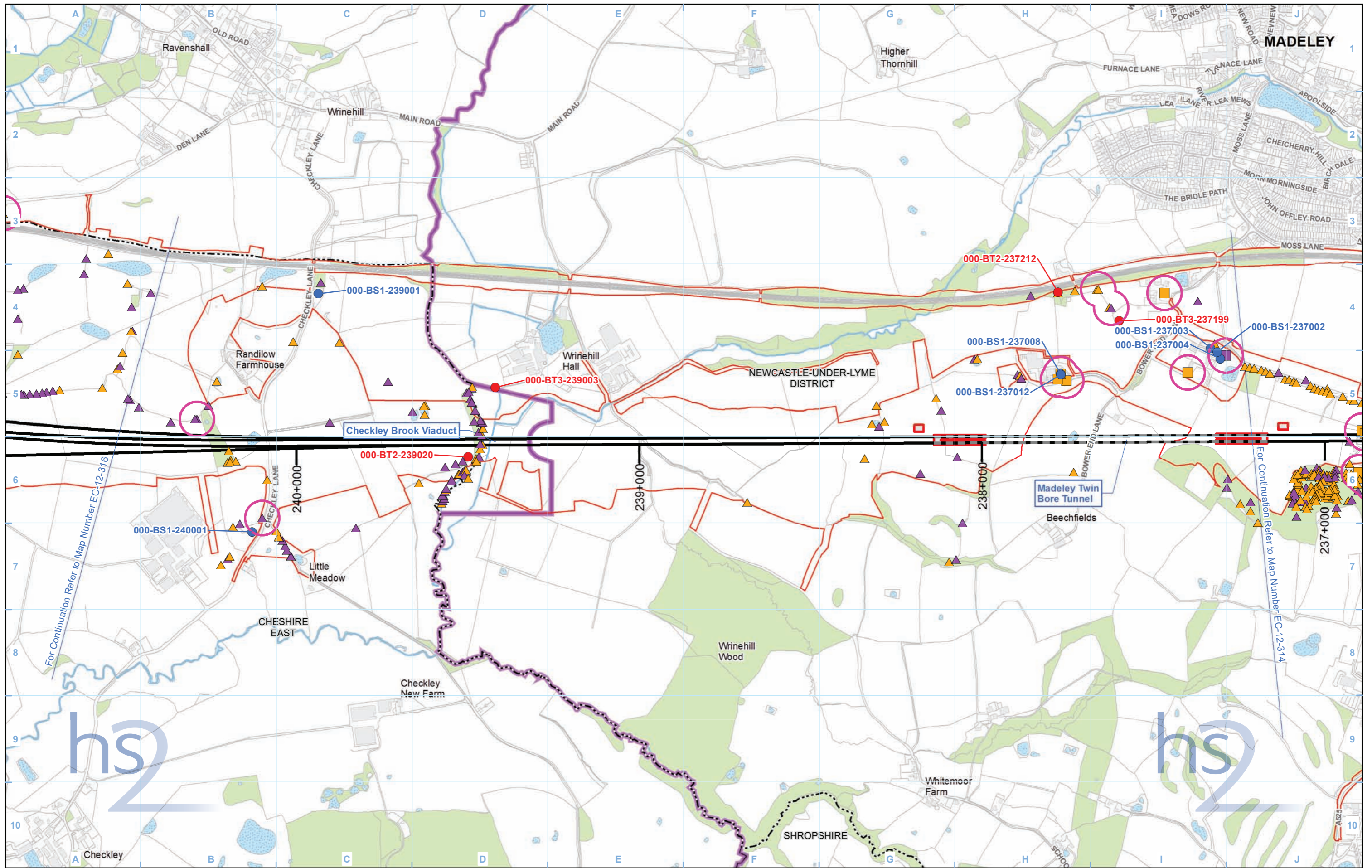
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Doc Number: 2PT01-ARP-EV-MAP-000-075314-P03

Date: 13/02/18





Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in tunnel; Green Tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						
	Area Contains New Survey Data						

Map Number	EC-05-315a
Map Name	Bat - Roost SES and AP ES
	Community Area 4: Whitmore Heath to Madeley

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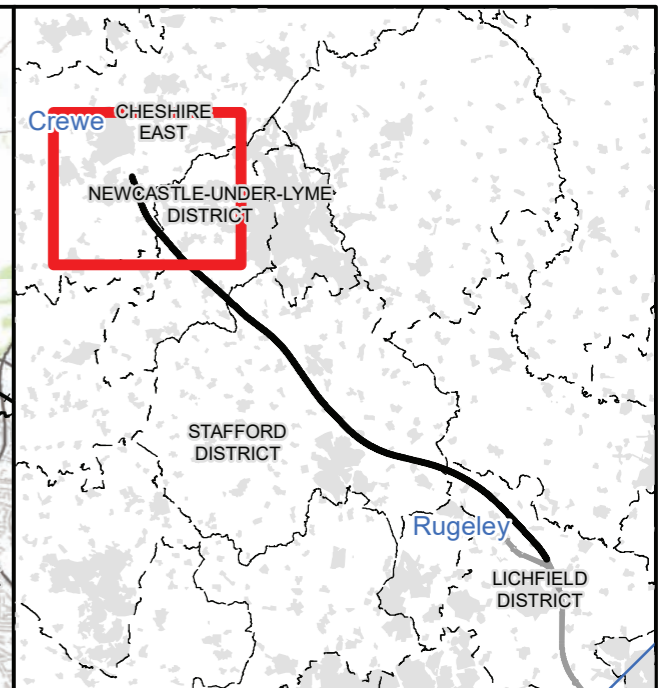
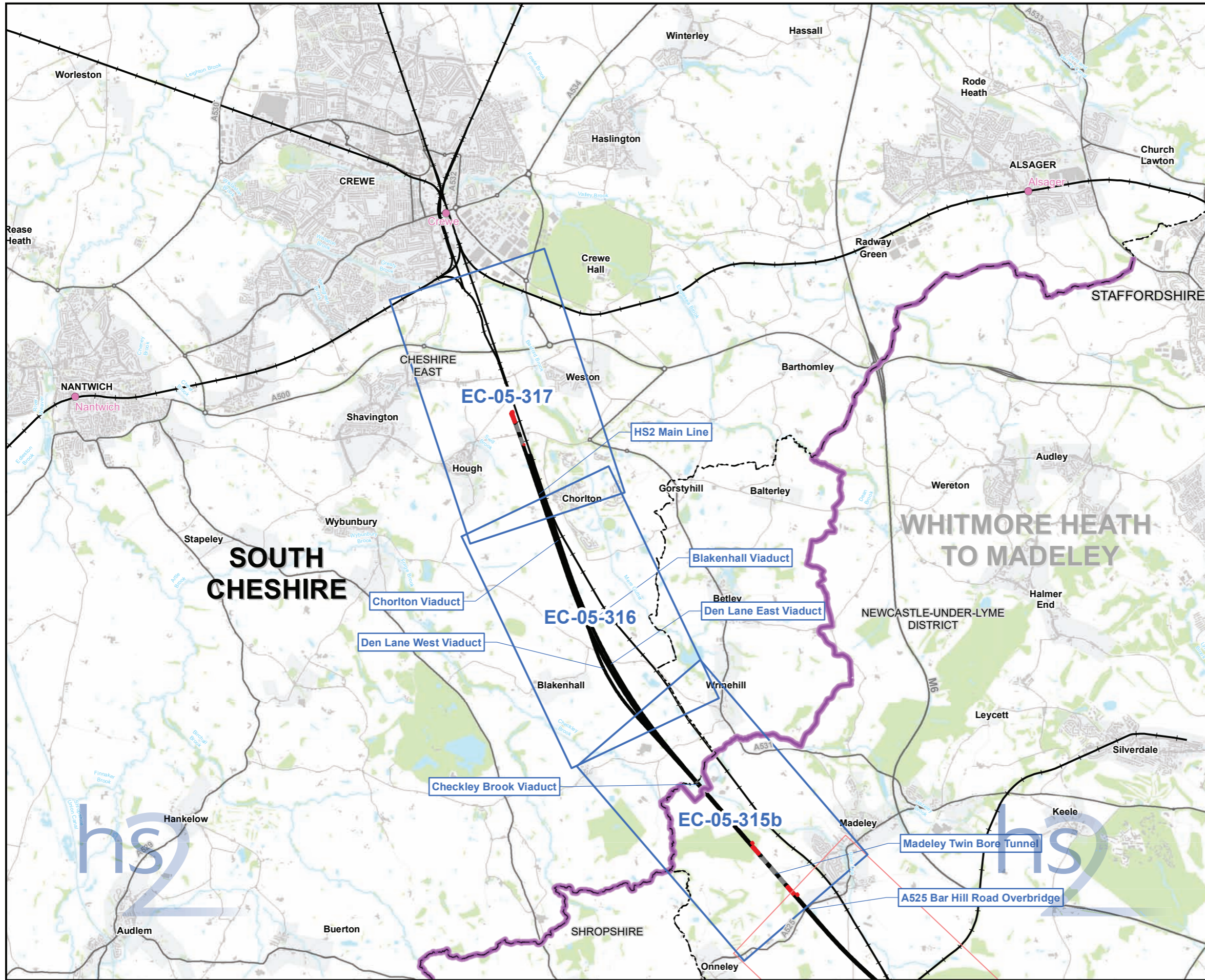
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Doc Number: 2PT01-ARP-EV-MAP-000-075315-P03

Date: 13/02/18



**Map Series Information:**

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

- 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 with amendment
  - Map sheets included in this community area with no amendment
  - Map sheets not included in this community area

Map Number	EC-05-INDEX-CA5
Map Name	Index Map of: Bat - Roost SES and AP ES Community Area 5: South Cheshire

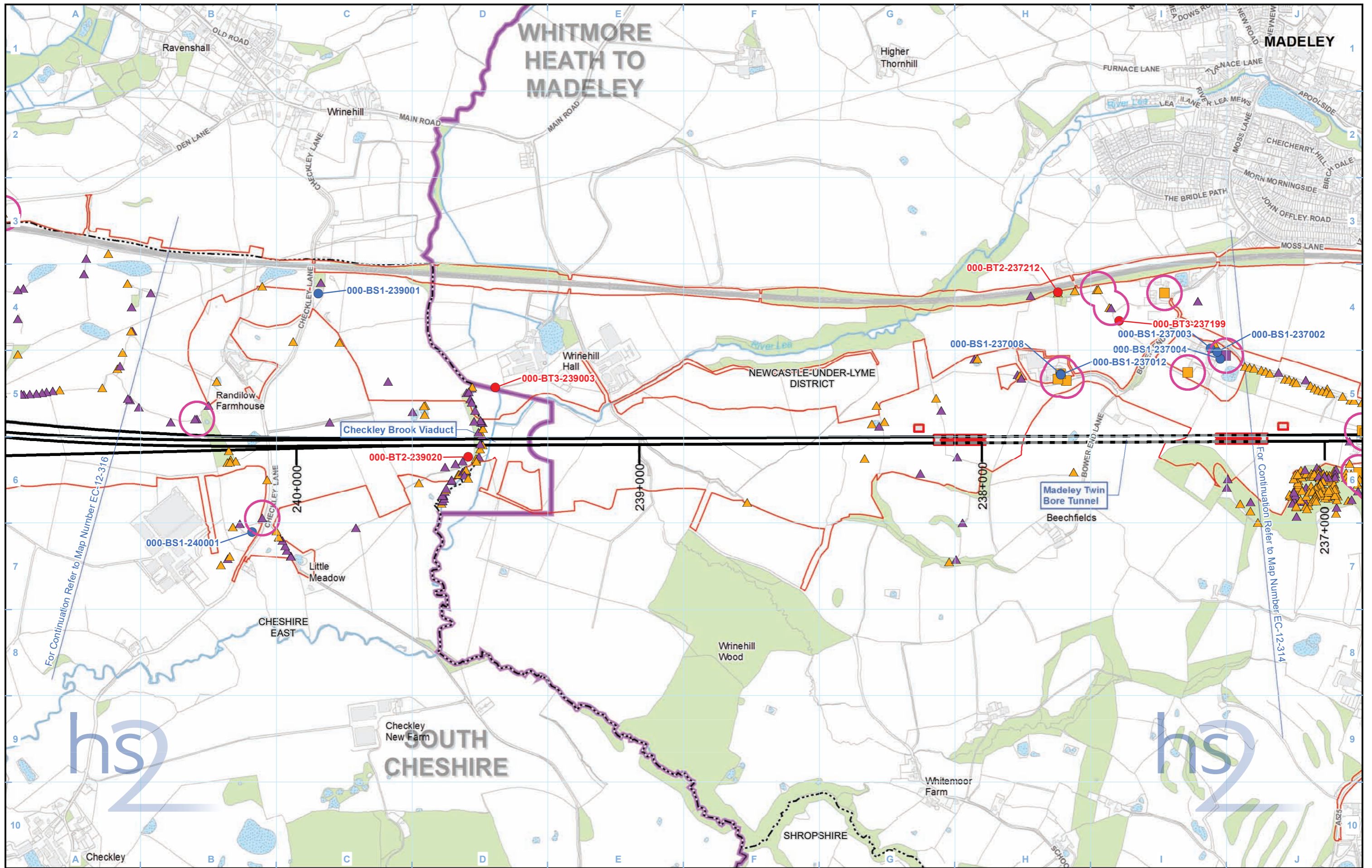
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Doc Number: 2PT01-ARP-EV-MAP-000-075005-P03 **Date: 26/02/18**



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
Route in tunnel; Green Tunnel	Watercourse	Hibernation roost	Hibernation roost	High	Moderate	High	Moderate
Route on surface	Water body	Maternity roost	Maternity roost	High	Moderate	High	Moderate
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Other roost	Other roost	High	Moderate	High	Moderate
Land potentially required during construction	Area Contains New Survey Data	Multiple roost types	Multiple roost types	High	Moderate	High	Moderate
Community area boundary							
County boundary							
District/Borough boundary							

Map Number	EC-05-315b
Map Name	Bat - Roost SES and AP ES
	Community Area 5: South Cheshire

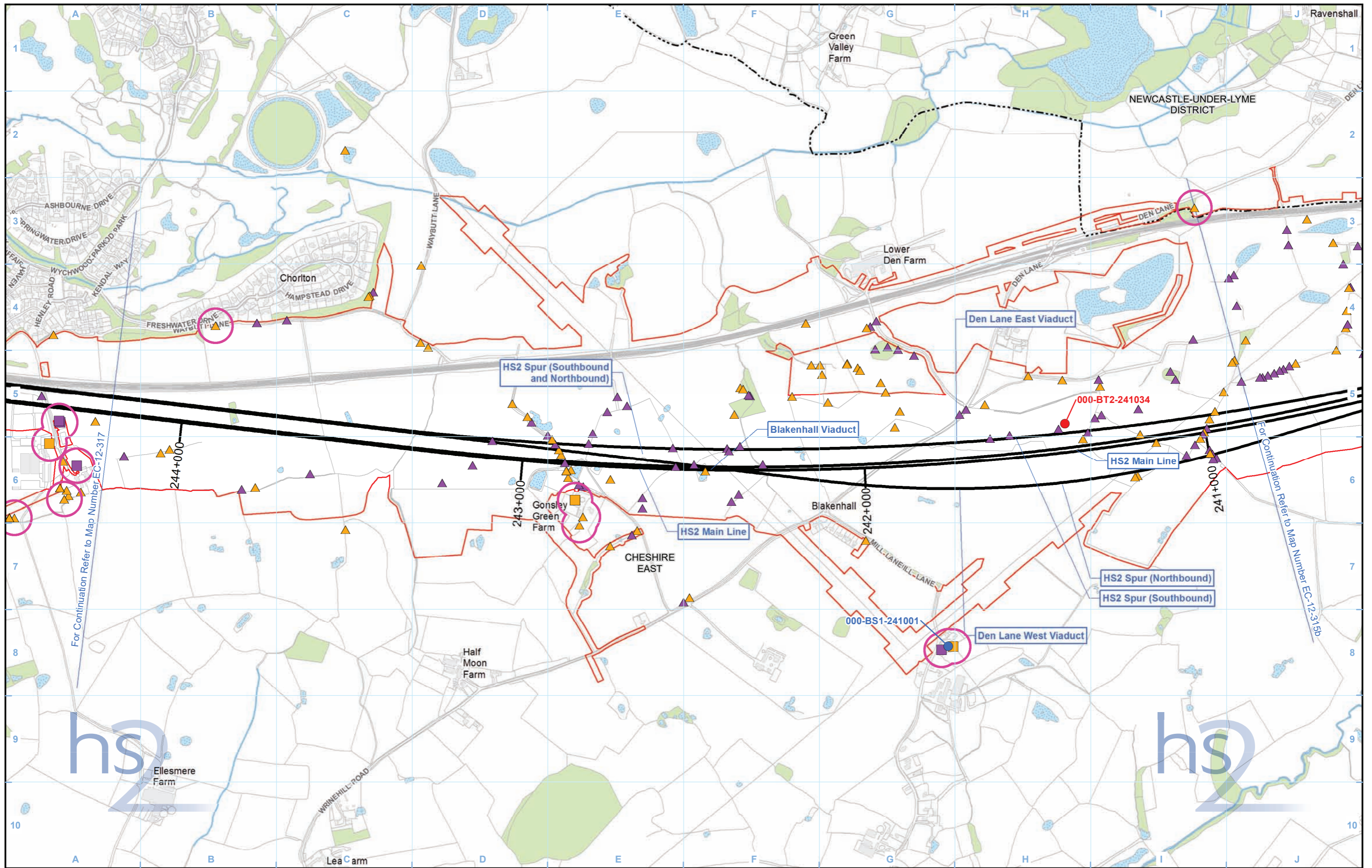
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Doc Number: 2PT01-ARP-EV-MAP-000-075515-P03 Date: 13/02/18



Legend		Confirmed bat roost - trees:		Confirmed bat roost - building:		Potential to support roosting bats - buildings:	
	Route in tunnel; Green Tunnel		Hibernation roost		Hibernation roost		High
	Route on surface		Maternity roost		Maternity roost		Moderate
	Depot, station, headhouse or portal building		Other roost		Other roost		High
	Land potentially required during construction		Multiple roost types		Multiple roost types		Moderate
	Community area boundary						
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						
	Area Contains New Survey Data						

Map Number	EC-05-316
Map Name	Bat - Roost SES and AP ES
Community Area 5: South Cheshire	

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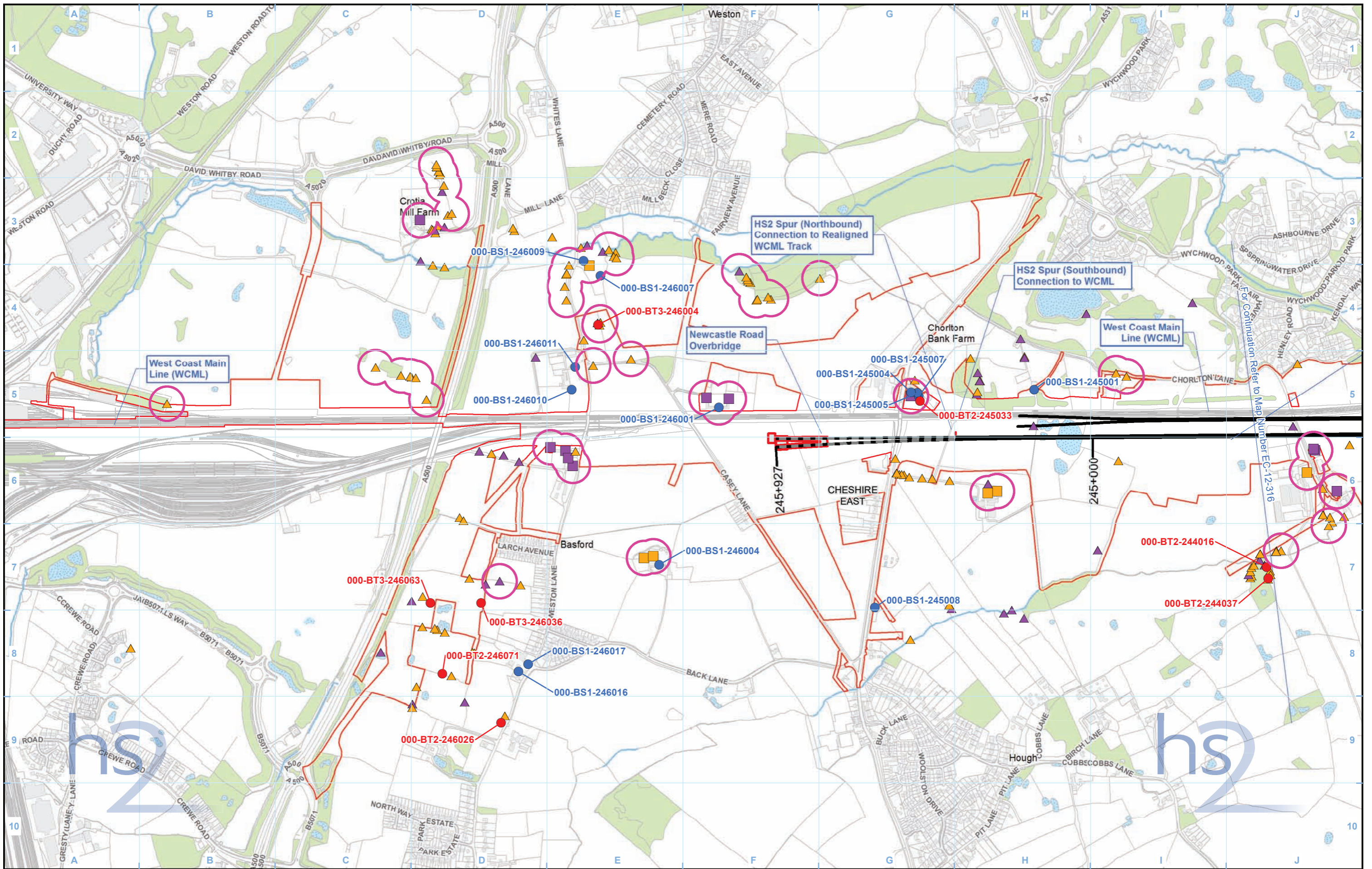
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Doc Number: 2PT01-ARP-EV-MAP-000-075316-P03

Date: 13/02/18



**Legend**

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

<b>Confirmed bat roost - trees:</b>	<b>Confirmed bat roost - building:</b>	<b>Potential to support roosting bats - buildings:</b>
Hibernation roost	Hibernation roost	High
Maternity roost	Maternity roost	Moderate
Other roost	Other roost	<b>Potential to support roosting bats - trees:</b>
Multiple roost types	Multiple roost types	High
		Moderate

Map Number	EC-05-317
Map Name	Bat - Roost SES and AP ES
Community Area 5: South Cheshire	

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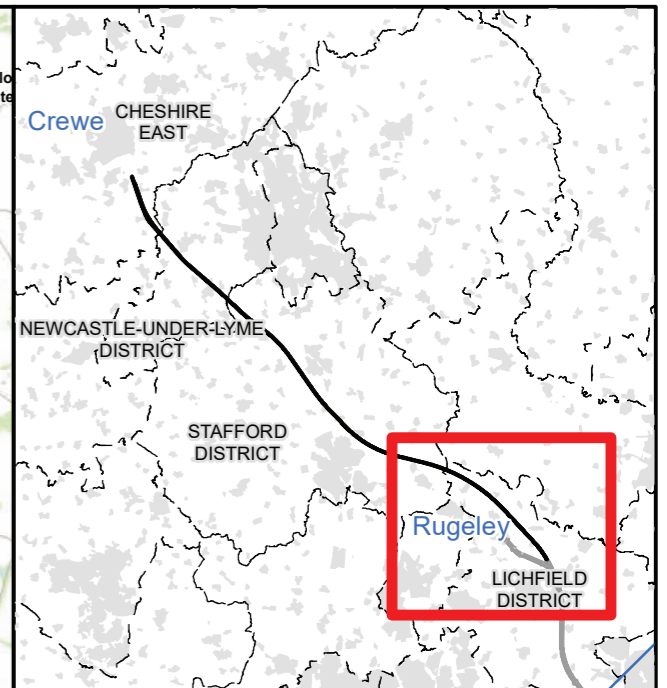
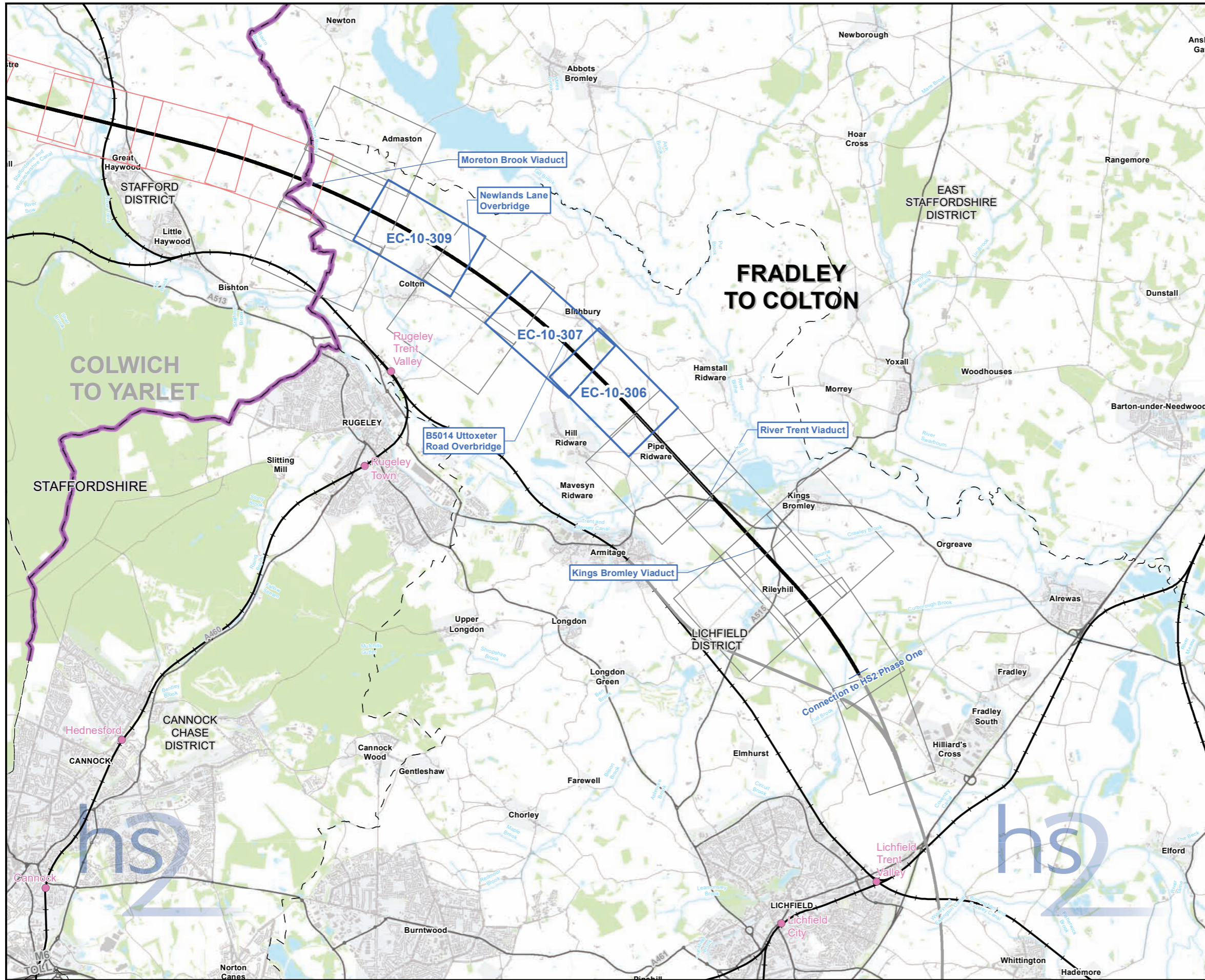
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Date: 28/02/18

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High Speed Two Phase 2a (West Midlands - Crewe)  
Background Information and Data  
**EC-10 - Phase 2 habitat survey**



**Map Series Information:**

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).

- Main Map Legend**
- Route in tunnel; Green 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 with amendment
  - Map sheets included in this community area with no amendment
  - Map sheets not included in this community area

Map Number	EC-10-INDEX-CA1
Map Name	Index Map of: Phase 2 Habitat Survey SES and AP ES
	Community Area 1: Fradley to Colton

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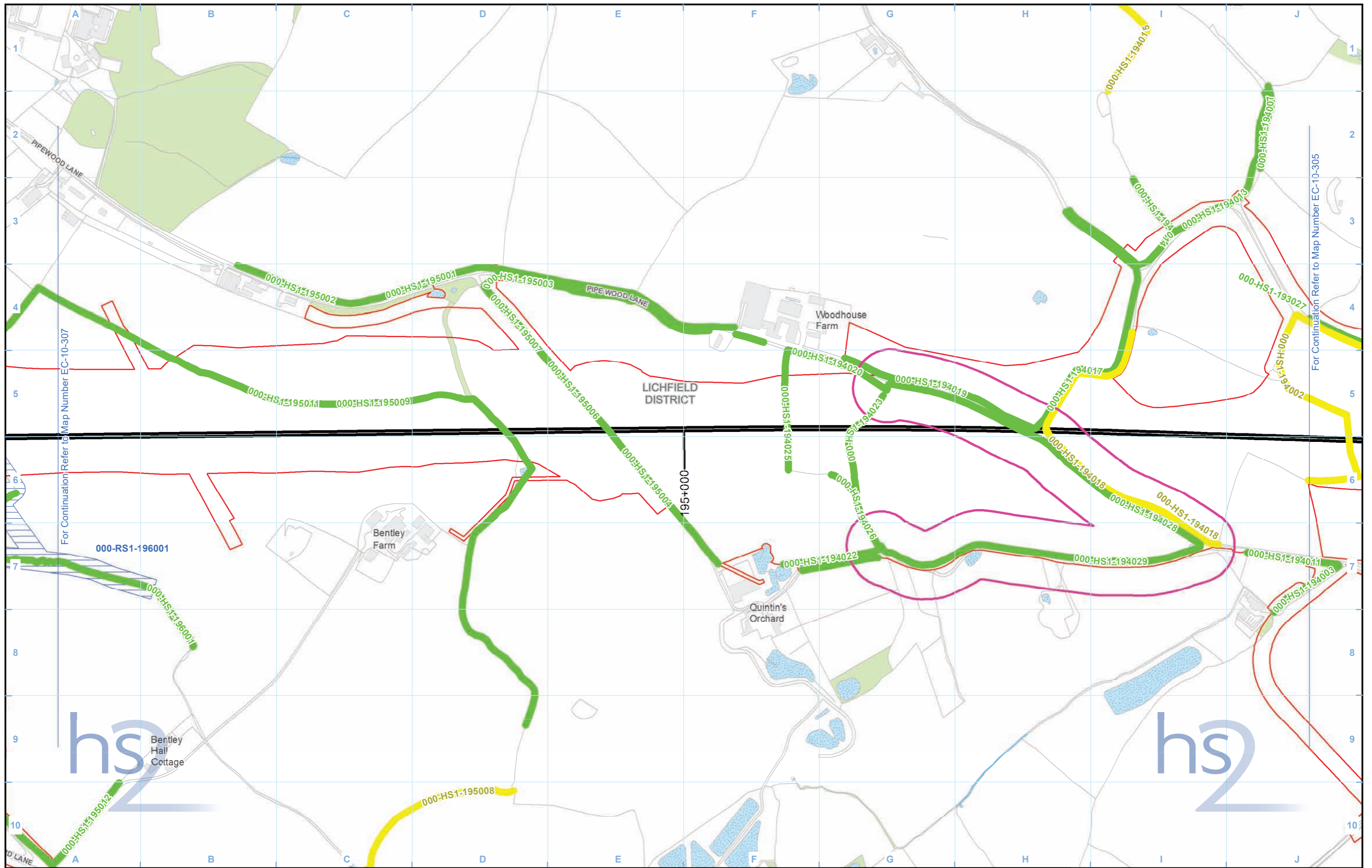
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0 700 1,400 2,100 2,800 Metres

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**Legend**

<ul style="list-style-type: none"> <li>— Route in bored tunnel</li> <li>— Route on surface</li> <li>▭ Depot, station, headhouse or portal building</li> <li>▭ Land potentially required during construction</li> <li>▭ Community area boundary</li> <li>▭ District/Borough boundary</li> </ul>	<ul style="list-style-type: none"> <li>— Watercourse</li> <li>▭ Water body</li> <li>▭ Woodland</li> <li>▭ Area contains new survey data</li> </ul>	<ul style="list-style-type: none"> <li>▭ National Vegetation Classification survey</li> <li>▭ Ditch vegetation survey</li> <li>▭ 'Important' hedgerow confirmed by field survey</li> <li>▭ Possible 'Important' hedgerow - no access available for survey</li> </ul>	<ul style="list-style-type: none"> <li>▭ River corridor survey extent</li> <li>▭ River habitat survey extent</li> <li>▭ Lake habitat</li> </ul>
--	--	--	---

Map Number	EC-10-306
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 1: Fradley to Colton	





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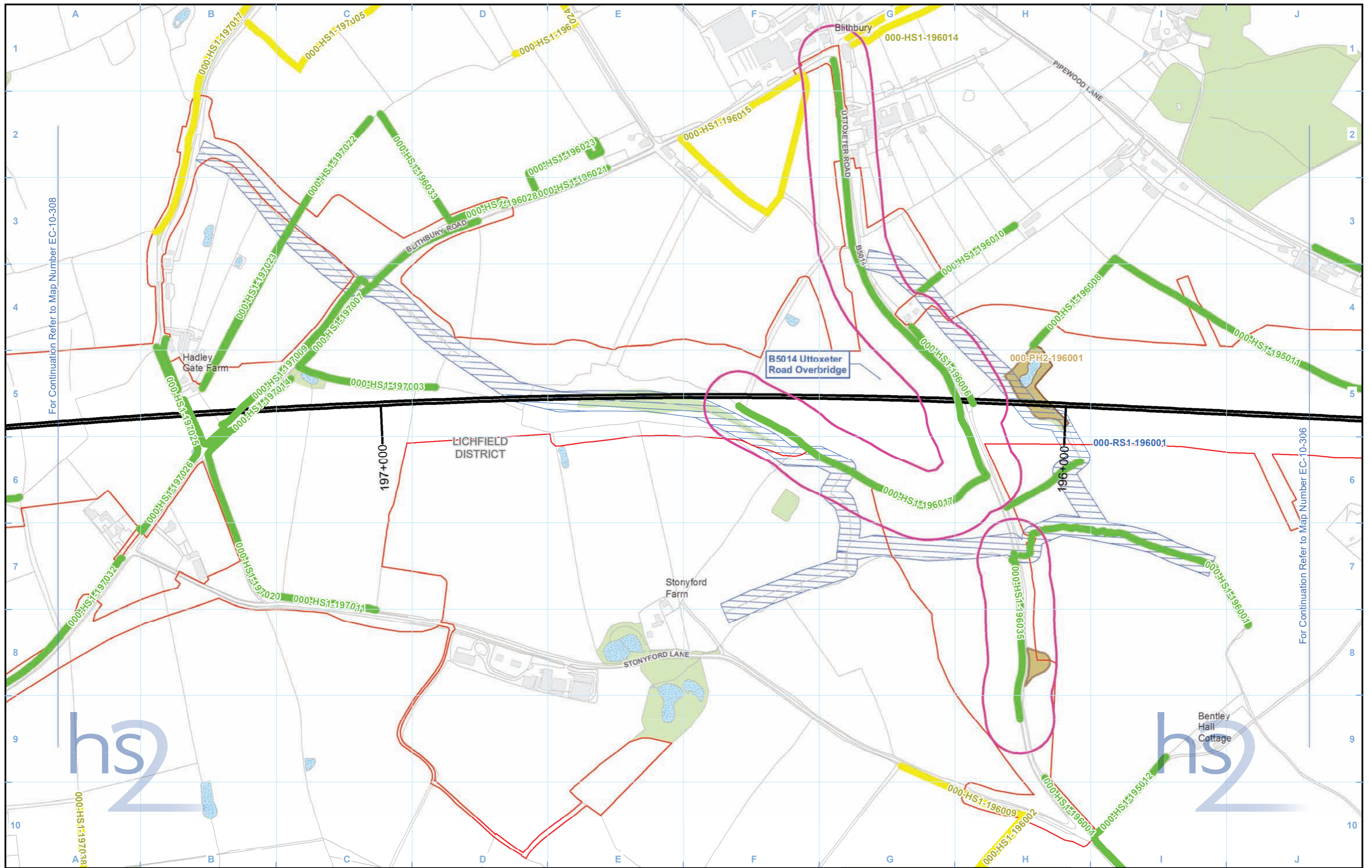
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For Continuation Refer to Map Number EC-10-308

For Continuation Refer to Map Number EC-10-306

Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		'Important' hedgerow confirmed by field survey
	Community area boundary		Area contains new survey data
	District/Borough boundary		Possible 'Important' hedgerow - no access available for survey
	National Vegetation Classification survey		River corridor survey extent
	Ditch vegetation survey		River habitat survey extent
	'Important' hedgerow confirmed by field survey		Lake habitat

Map Number	EC-10-307
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 1: Fradley to Colton	

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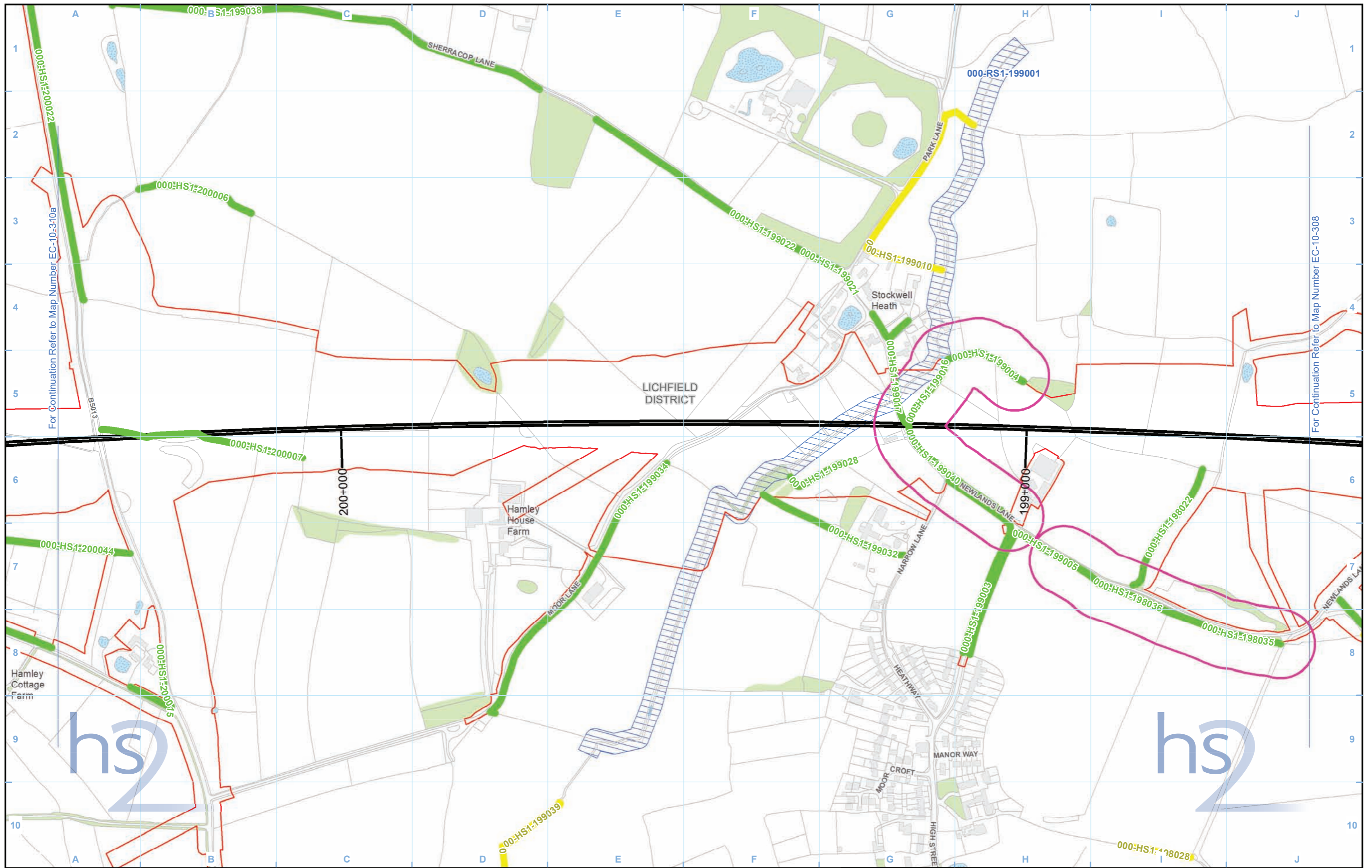
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Metres


Date: 13/02/18

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Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		'Important' hedgerow confirmed by field survey
	Community area boundary		Possible 'Important' hedgerow - no access available for survey
	District/Borough boundary		National Vegetation Classification survey
			Ditch vegetation survey
			River corridor survey extent
			River habitat survey extent
			Lake habitat


Map Number	EC-10-309
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 1: Fradley to Colton	




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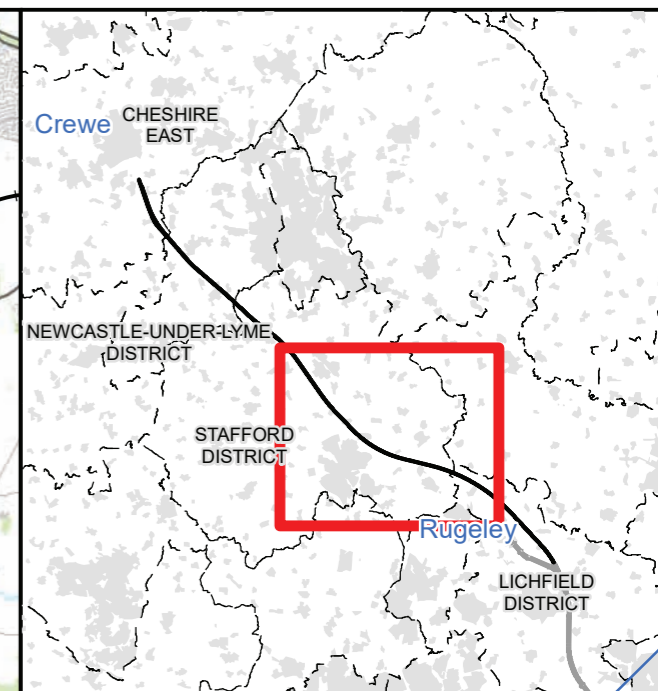
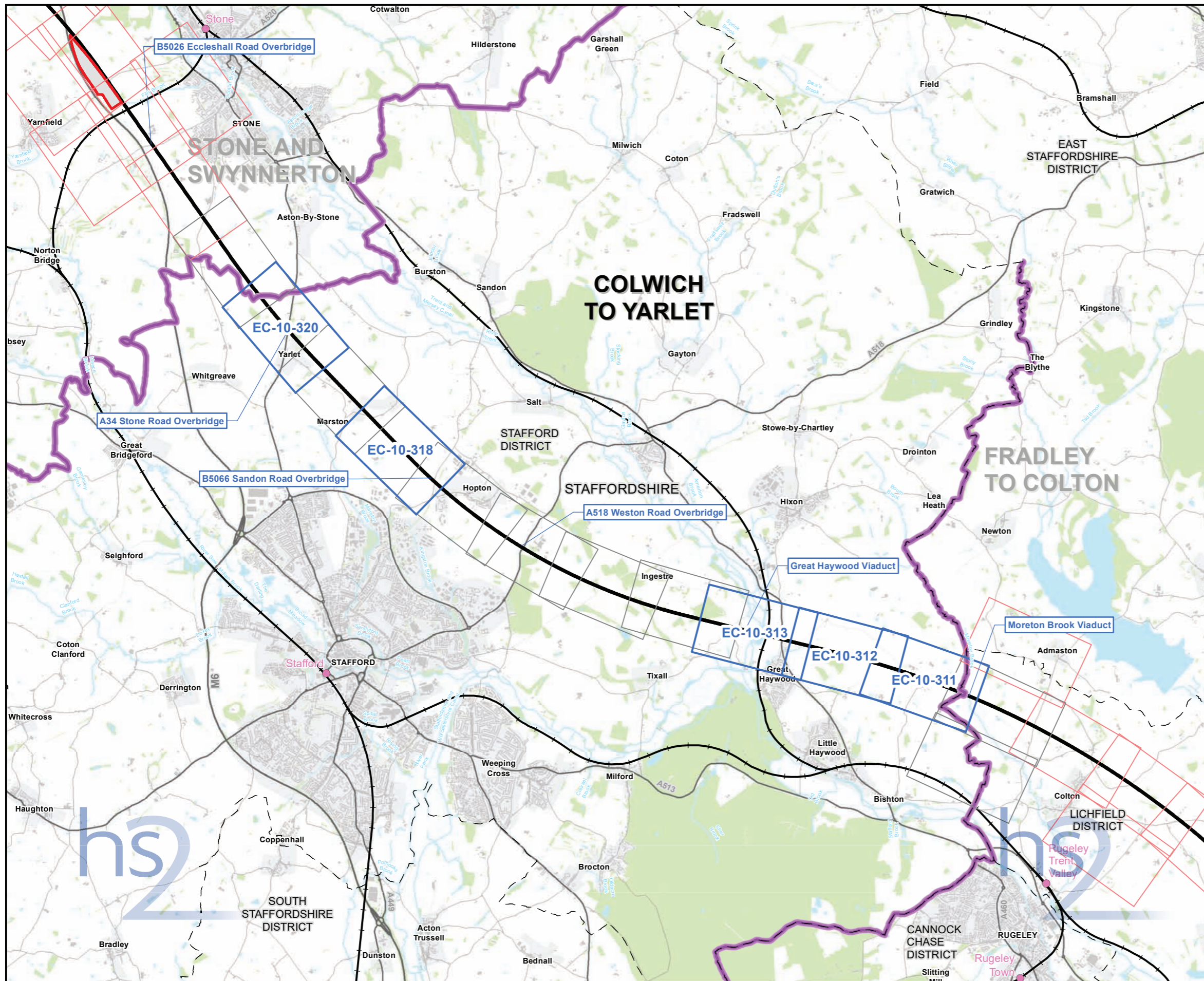


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Metres

Date: 13/02/18



**Map Series Information:**

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).

**Main Map Legend**

- Route in tunnel; Green 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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-10-INDEX-CA2
Map Name	Index Map of: Phase 2 Habitat Survey SES and AP ES
	Community Area 2: Colwich to Yarlet

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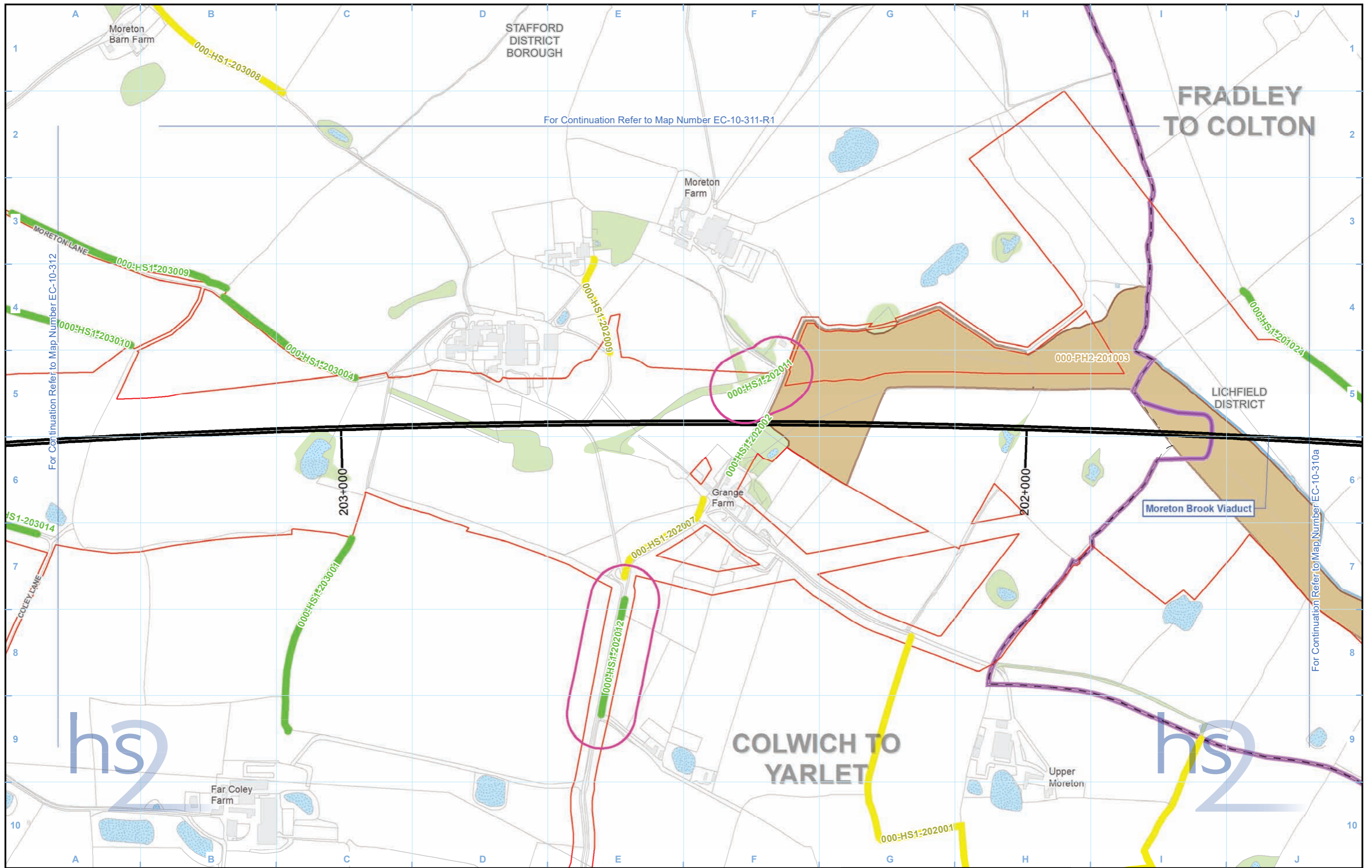
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Date: 13/02/18



Legend			
Route in bored tunnel	Watercourse	National Vegetation Classification survey	River corridor survey extent
Route on surface	Water body	Ditch vegetation survey	River habitat survey extent
Depot, station, headhouse or portal building	Woodland	'Important' hedgerow confirmed by field survey	Lake habitat
Land potentially required during construction	Area contains new survey data	Possible 'Important' hedgerow - no access available for survey	
Community area boundary			
District/Borough boundary			

Map Number	EC-10-311
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 2: Colwich to Yarlet	

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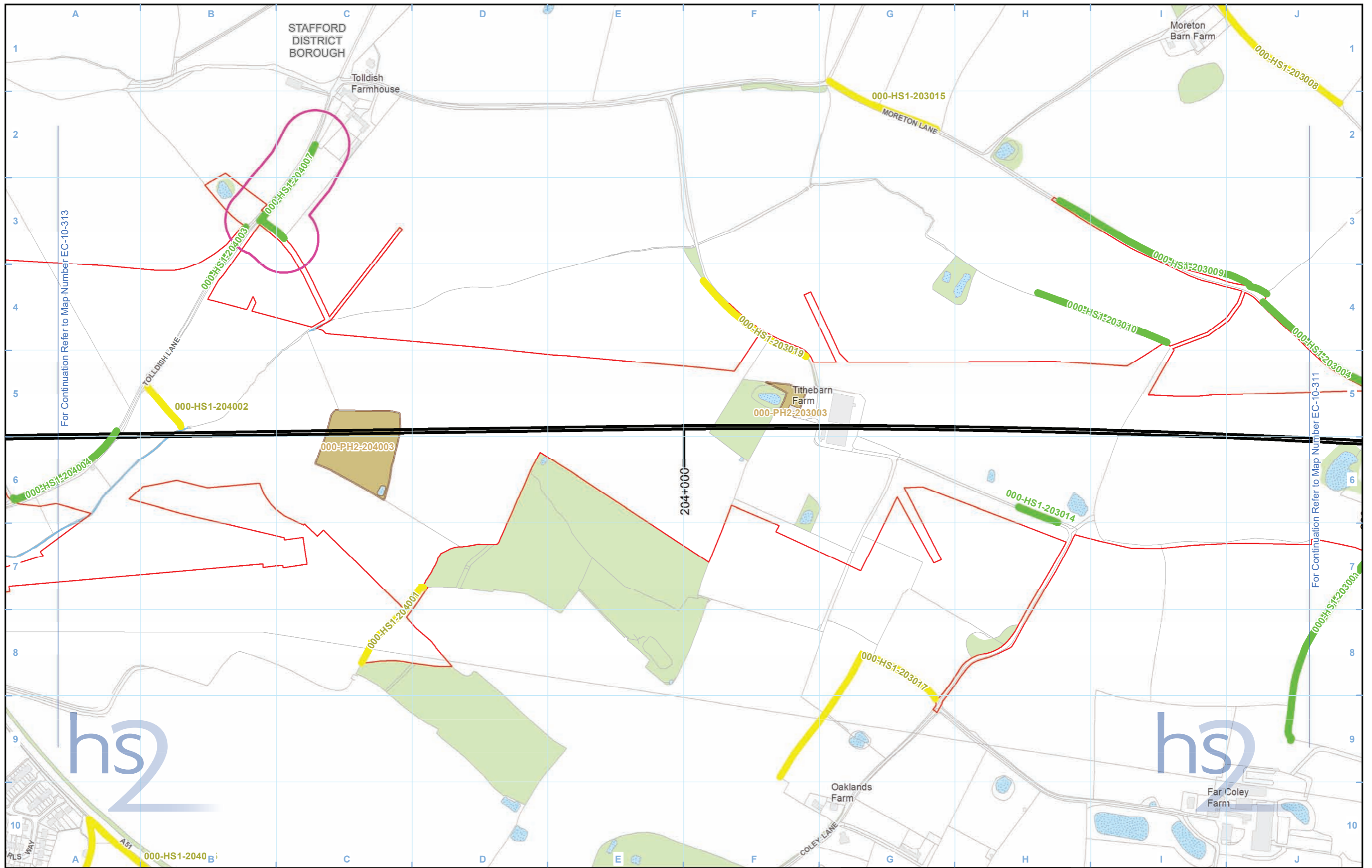
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Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		'Important' hedgerow confirmed by field survey
	Community area boundary		Possible 'Important' hedgerow - no access available for survey
	District/Borough boundary		National Vegetation Classification survey
			Ditch vegetation survey
			River corridor survey extent
			River habitat survey extent
			Lake habitat

Map Number	EC-10-312
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 2: Colwich to Yarlet	

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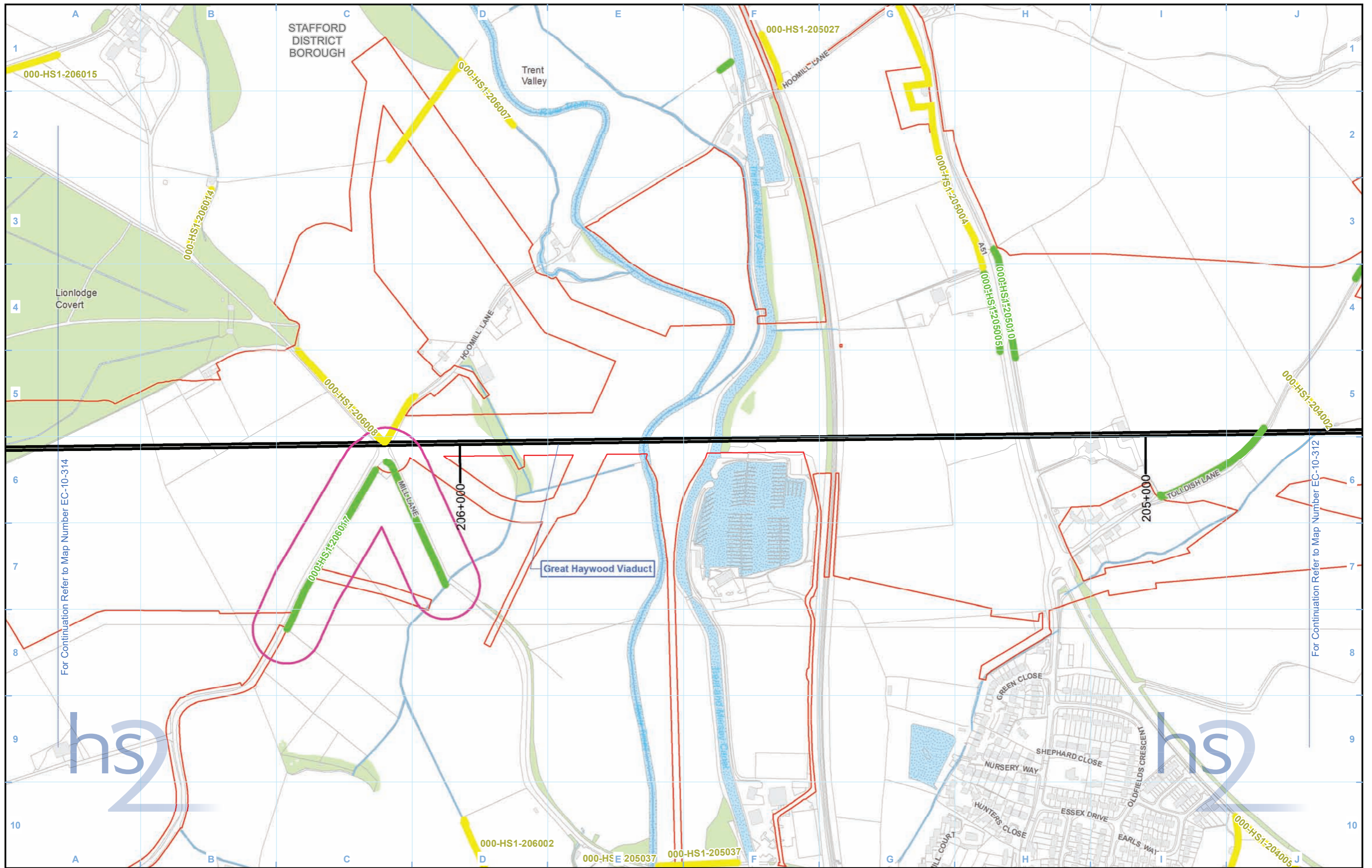
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Date: 13/02/18

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Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		Area contains new survey data
	Community area boundary		'Important' hedgerow confirmed by field survey
	District/Borough boundary		Possible 'Important' hedgerow - no access available for survey
	National Vegetation Classification survey		River corridor survey extent
	Ditch vegetation survey		River habitat survey extent
	Lake habitat		

Map Number	EC-10-313
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 2: Colwich to Yarlet	

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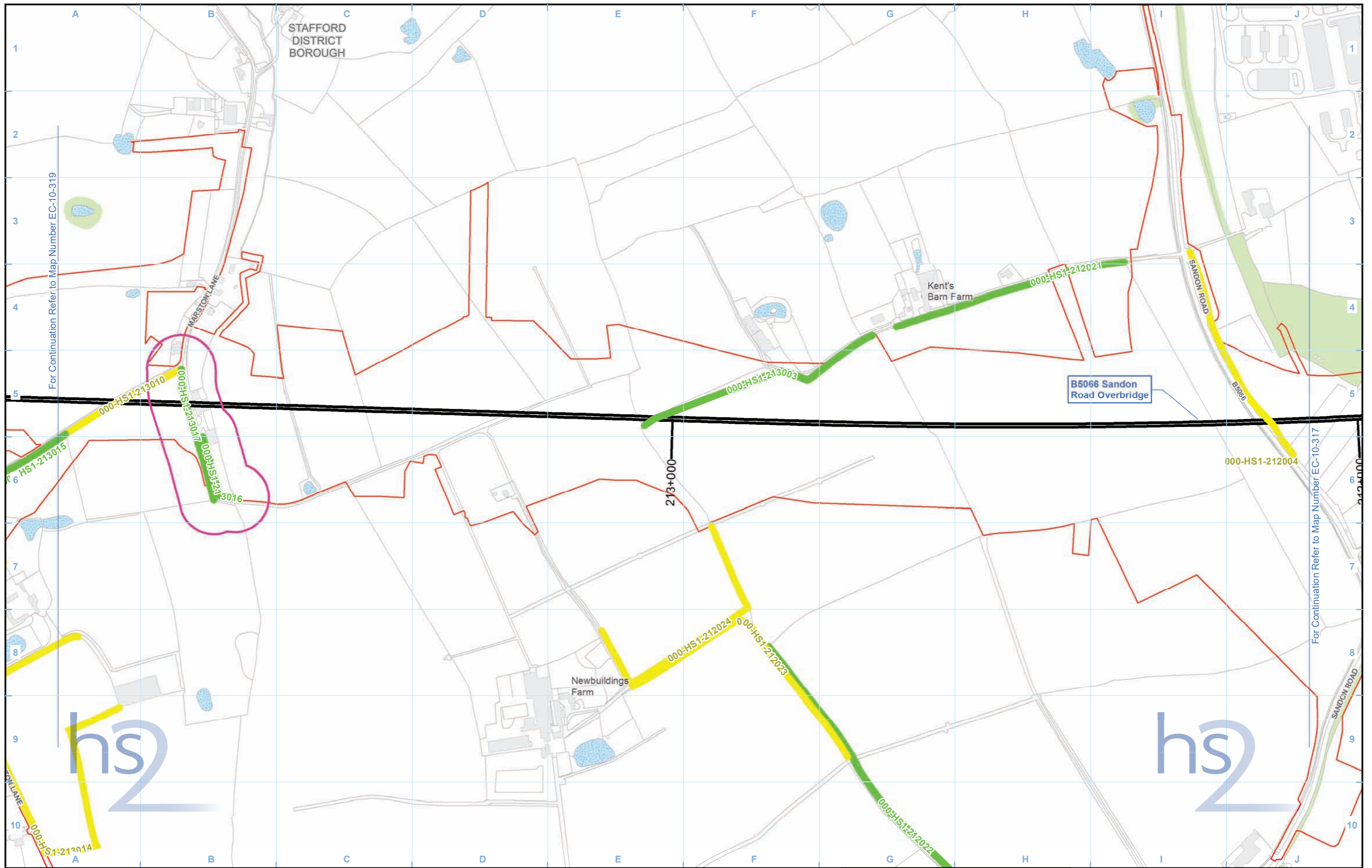
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Date: 13/02/18



Legend			
Route in bored tunnel	Watercourse	National Vegetation Classification survey	River corridor survey extent
Route on surface	Water body	Ditch vegetation survey	River habitat survey extent
Depot, station, headhouse or portal building	Woodland	'Important' hedgerow confirmed by field survey	Lake habitat
Land potentially required during construction	Area contains new survey data	Possible 'Important' hedgerow	
Community area boundary		- no access available for survey	
District/Borough boundary			

Map Number	EC-10-318
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 2: Colwich to Yarlet	




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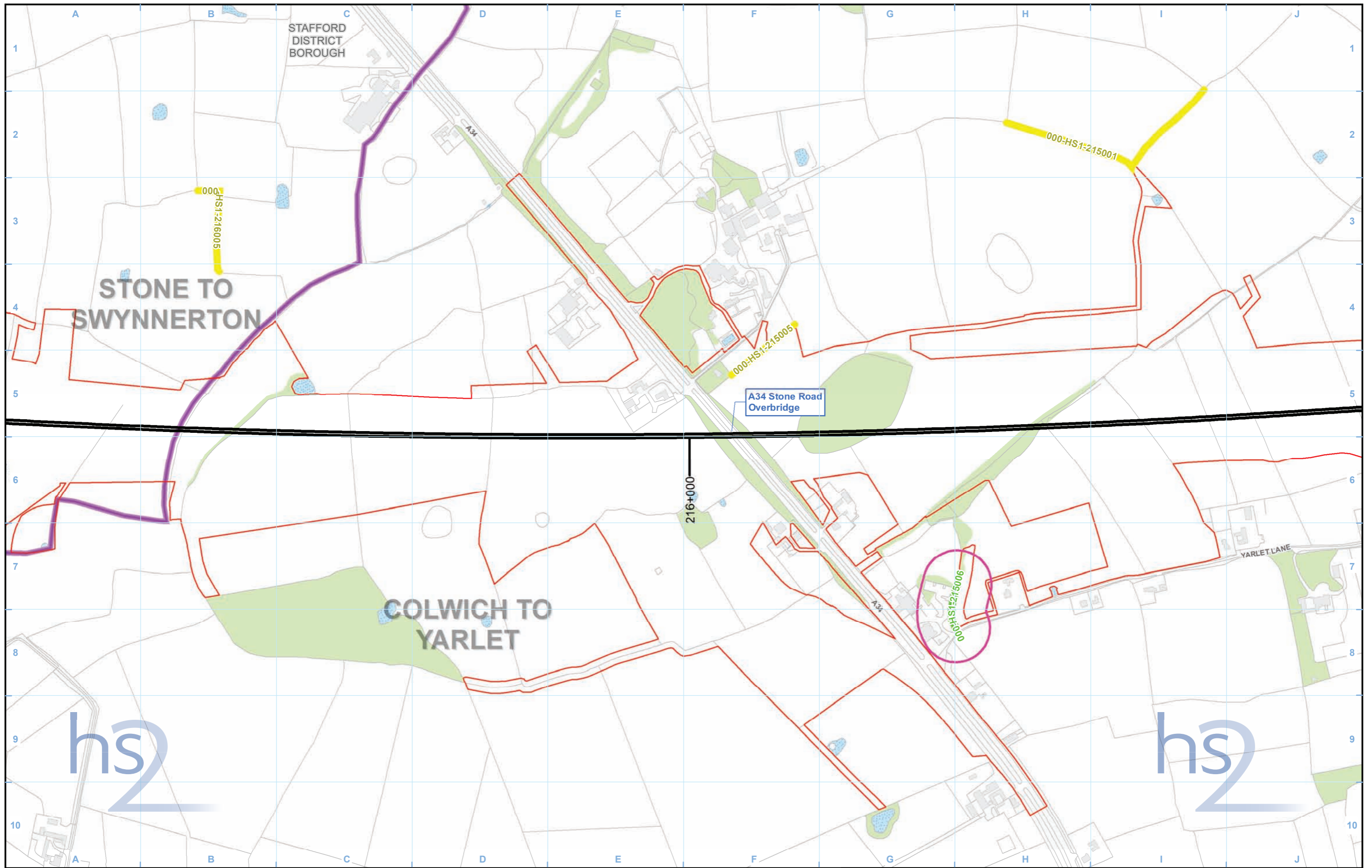
Metres



Date: 13/02/18

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Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		'Important' hedgerow confirmed by field survey
	Community area boundary		Possible 'Important' hedgerow
	District/Borough boundary		- no access available for survey
	National Vegetation Classification survey		River corridor survey extent
	Ditch vegetation survey		River habitat survey extent
	'Important' hedgerow confirmed by field survey		Lake habitat

Map Number	EC-10-320
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 2: Colwich to Yarlet	

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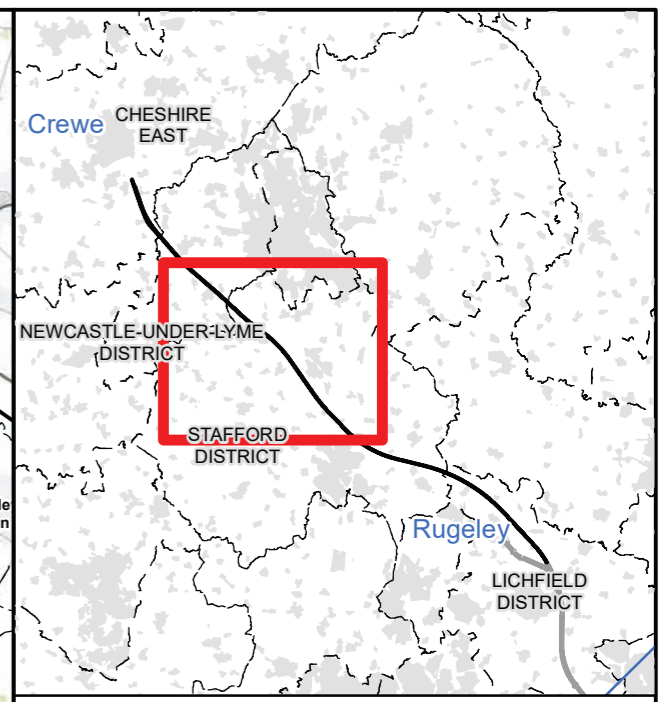
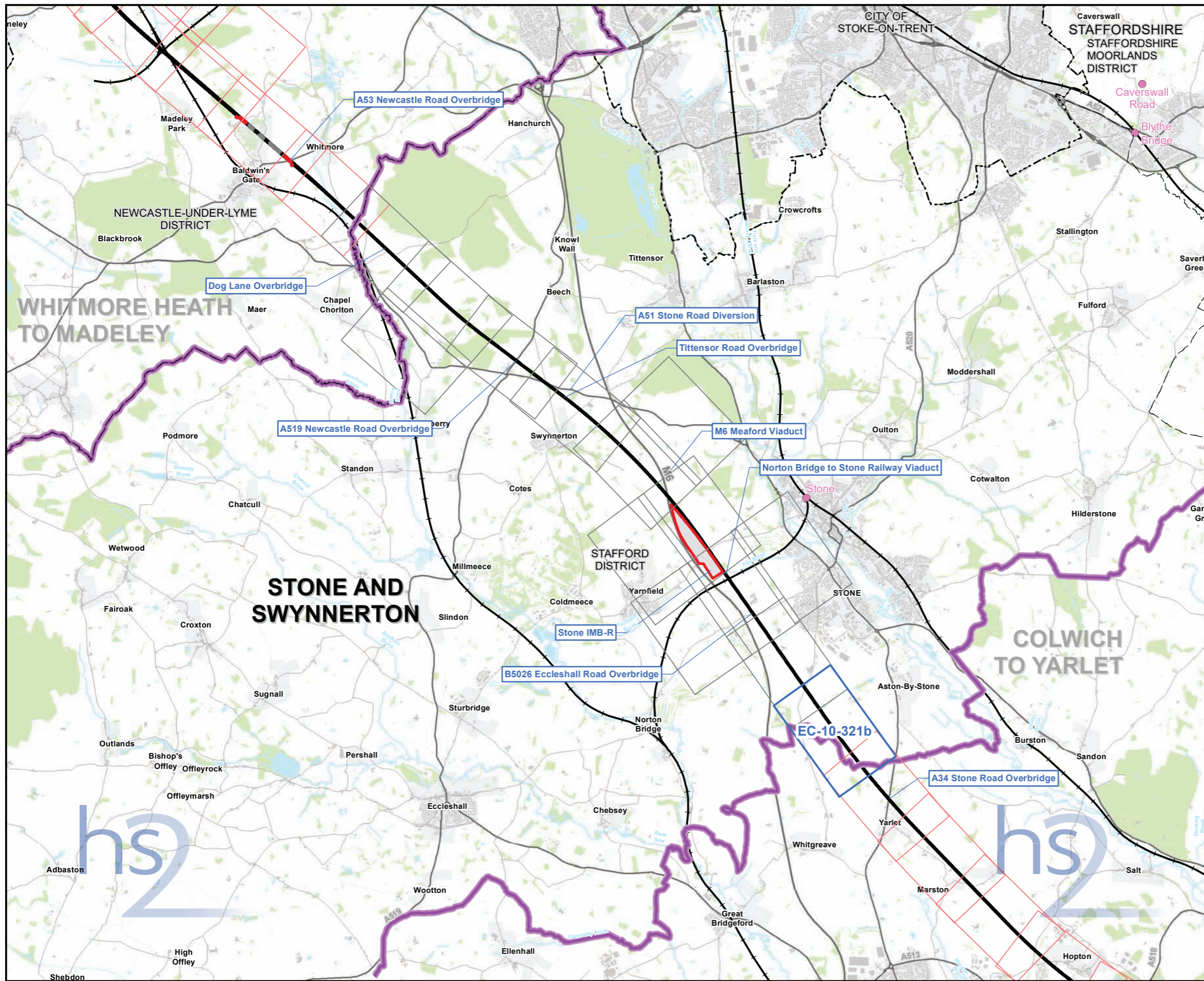
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This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'Important hedgerows' under the Hedgerows Regulations (1997).

- Main Map Legend**
- Route in tunnel; Green 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 with amendment
  - Map sheets included in this community area with no amendment
  - Map sheets not included in this community area

Map Number	EC-10-INDEX-CA3
Map Name	Index Map of: Phase 2 Habitat Survey SES and AP ES
	Community Area 3: Stone and Swynnerton

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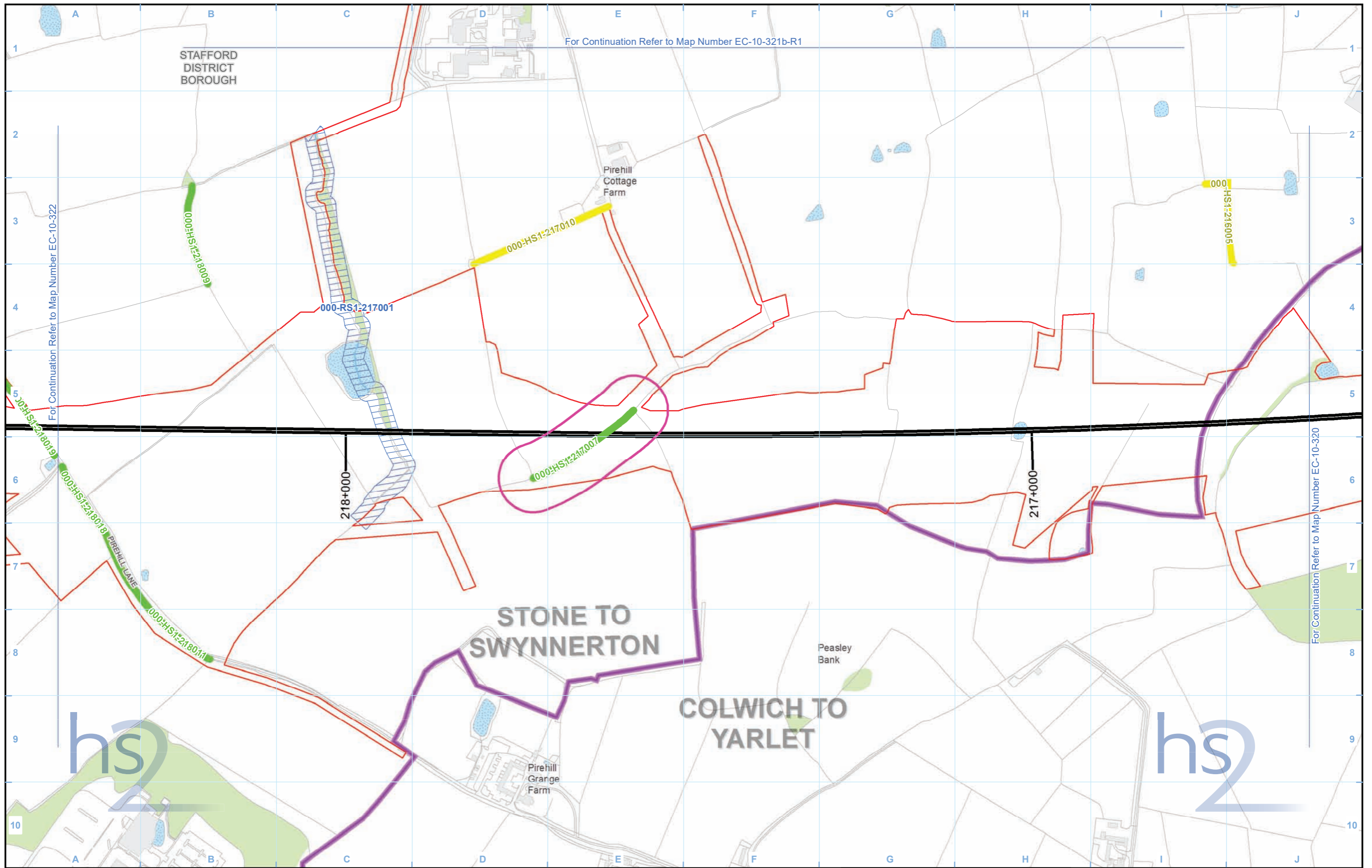
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For Continuation Refer to Map Number EC-10-321b-R1

For Continuation Refer to Map Number EC-10-322

For Continuation Refer to Map Number EC-10-320

Legend			
	Route in bored tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		Area contains new survey data
	Community area boundary		'Important' hedgerow confirmed by field survey
	District/Borough boundary		Possible 'Important' hedgerow - no access available for survey
	National Vegetation Classification survey		River corridor survey extent
	Ditch vegetation survey		River habitat survey extent
	'Important' hedgerow confirmed by field survey		Lake habitat

Map Number	EC-10-321b
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 3: Stone and Swynnerton	

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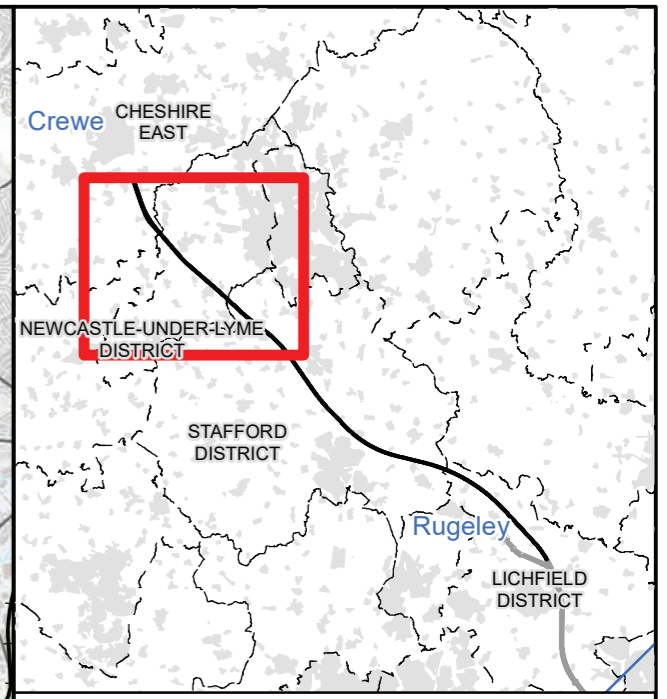
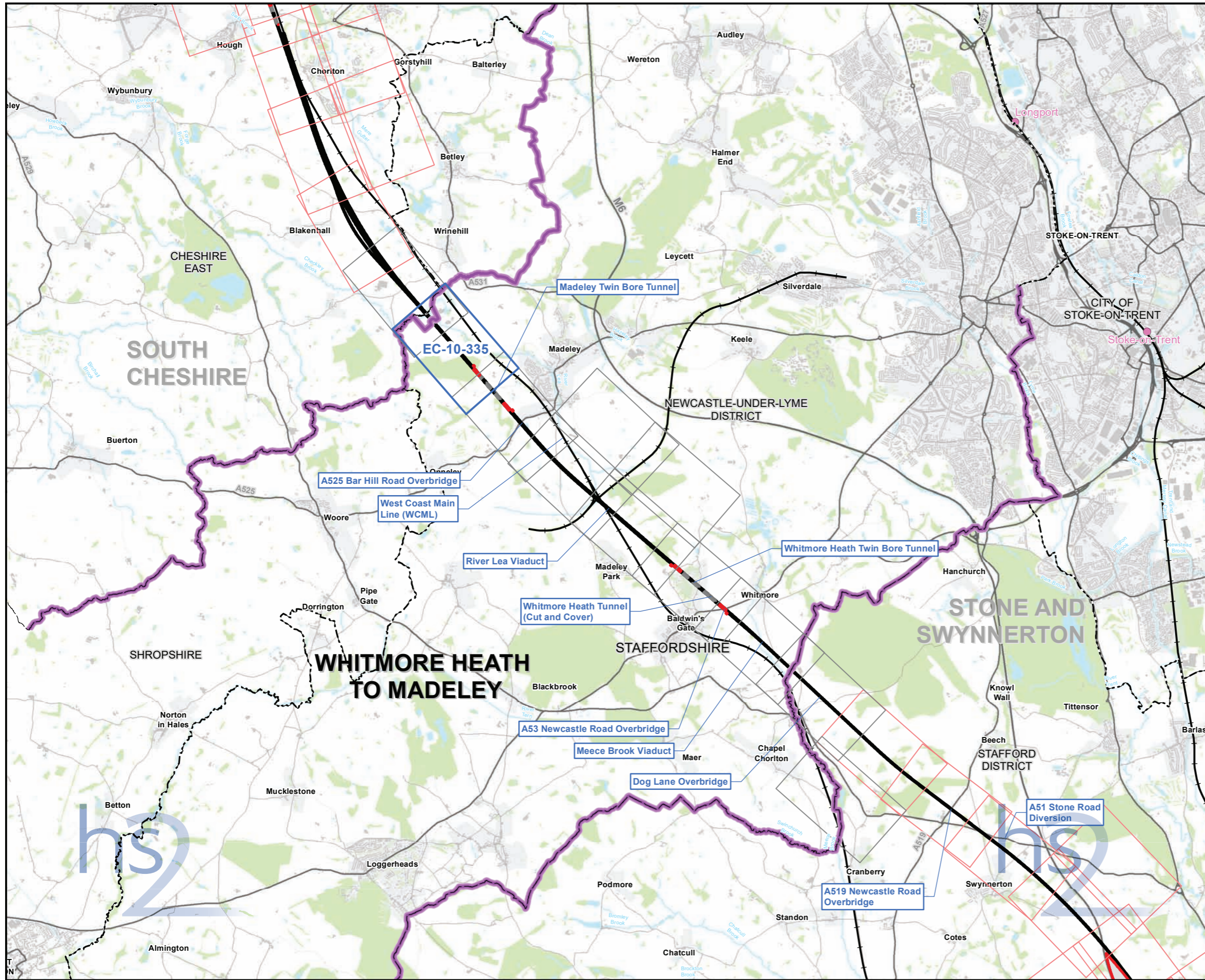
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0 50 100 150 200 Metres

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Date: 13/02/18



**Map Series Information:**

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).

**Main Map Legend**

- Route in tunnel; Green 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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-10-INDEX-CA4
Map Name	Index Map of: Phase 2 Habitat Survey SES and AP ES Community Area 4: Whitmore Heath to Madeley

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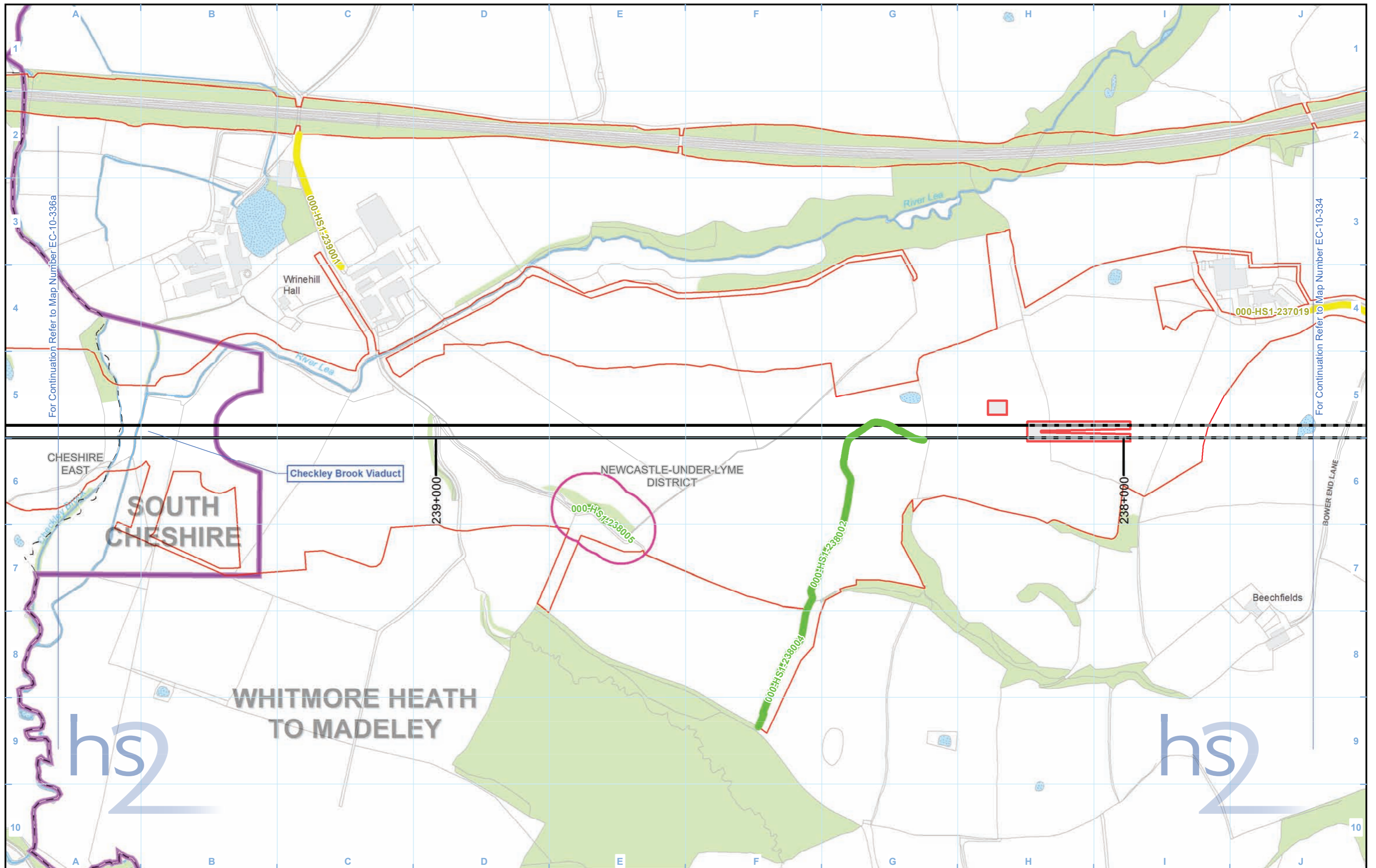
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Legend			
	Watercourse		
	Water body		
	Woodland		
	Area contains new survey data		

Map Number	EC-10-335
Map Name	Phase 2 Habitat Survey SES and AP ES
Community Area 4: Whitmore Heath to Madeley	

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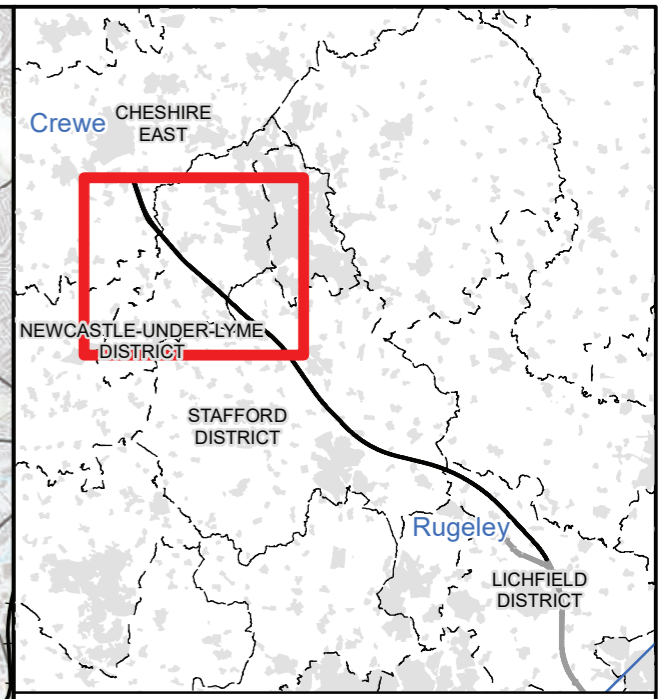
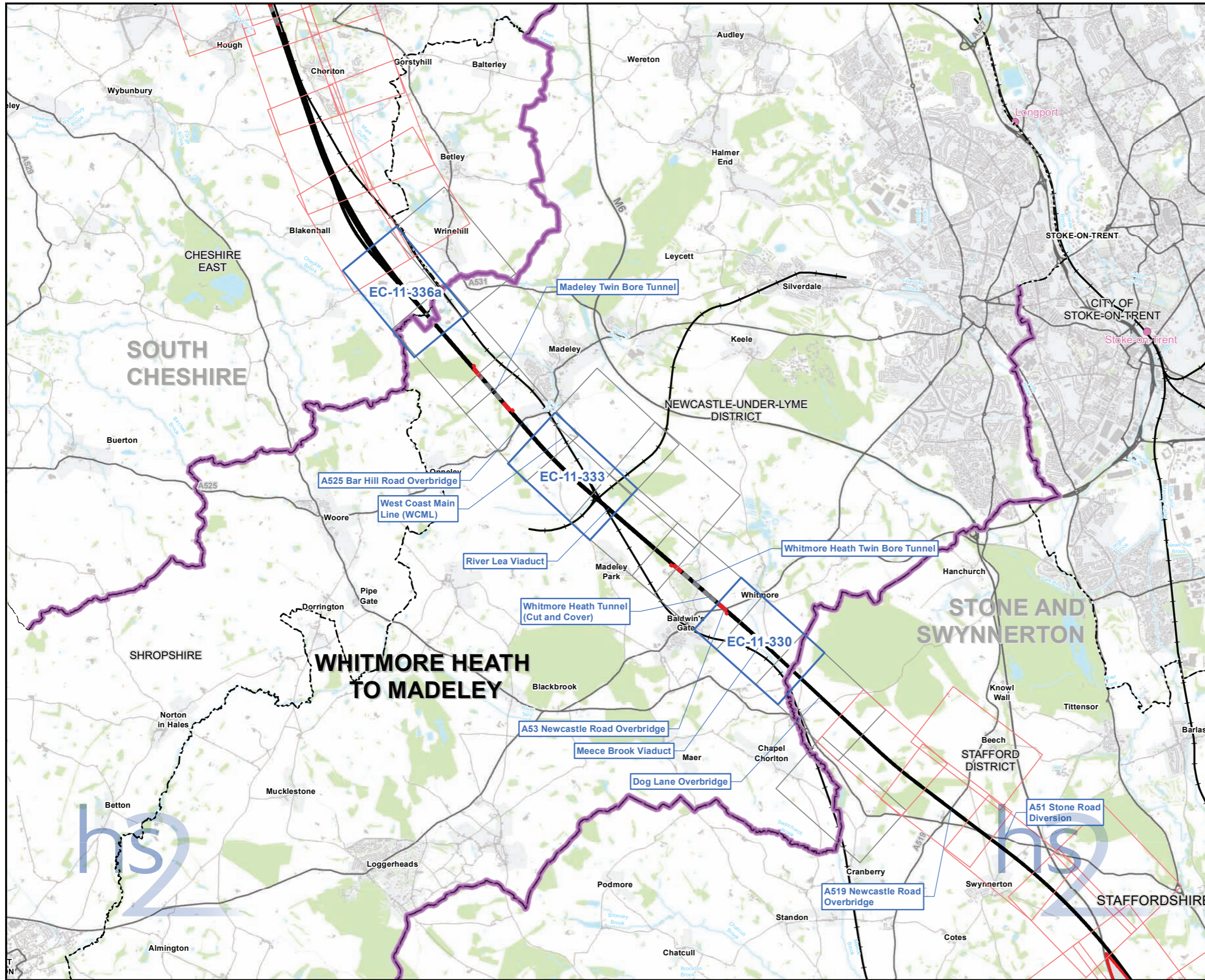
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High Speed Two Phase 2a (West Midlands - Crewe)

Background Information and Data

**EC-11 - Other protected and notable species (1)**



**Map Series Information:**

This map series shows the extent of protected species surveys conducted 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 with amendment
  - Map sheets included in this community area with no amendment
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Map Number	EC-11-INDEX-CA4
Map Name	Index Map of: Other Protected and Notable Species (1) SES and AP ES
	Community Area 4: Whitmore Heath to Madeley

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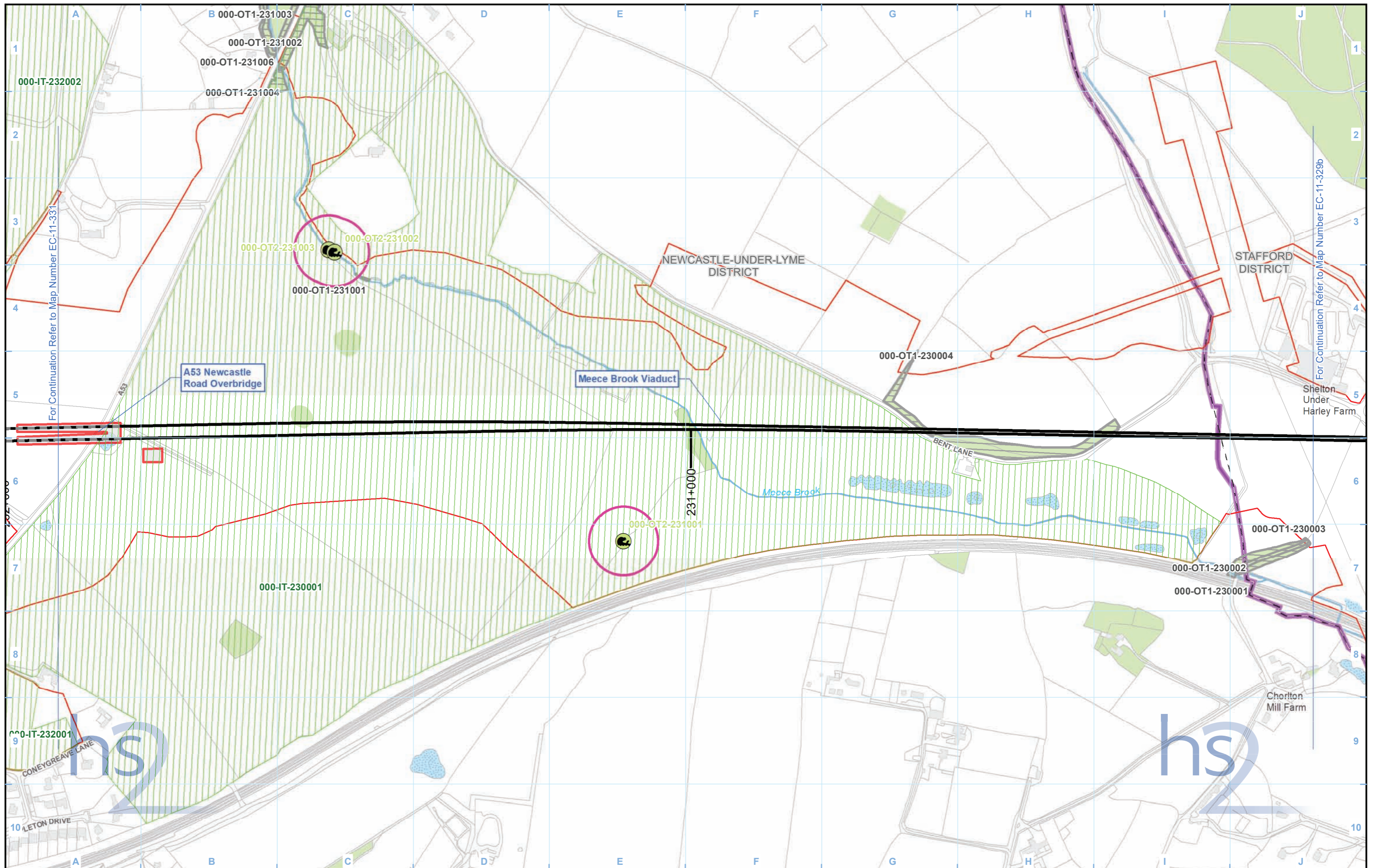
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Legend		Otter:		White clawed crayfish:		Pond survey:		Fish:	
	Route in tunnel		Active otter holt		Manual search and/or trapping conducted and presence confirmed		Pond survey - national pond survey		Fish survey location
	Route on surface		Potential otter holt		Manual search and/or trapping conducted and assumed absent		Pond survey - PSYM		Terrestrial invertebrate: Terrestrial invertebrate survey extent
	Depot, station, headhouse or portal building		Otter terrestrial habitat		Site identified as potentially suitable but no access available		Pond survey - rapid assessment method		
	Land potentially required during construction								
	Community area boundary								
	District/Borough boundary								
	Watercourse								
	Water body								
	Woodland (verified by survey)								
	Area contains new survey data								

Map Number	EC-11-330
Map Name	Other Protected and Notable Species (1) SES and AP ES
	Community Area 4: Whitmore Heath to Madeley

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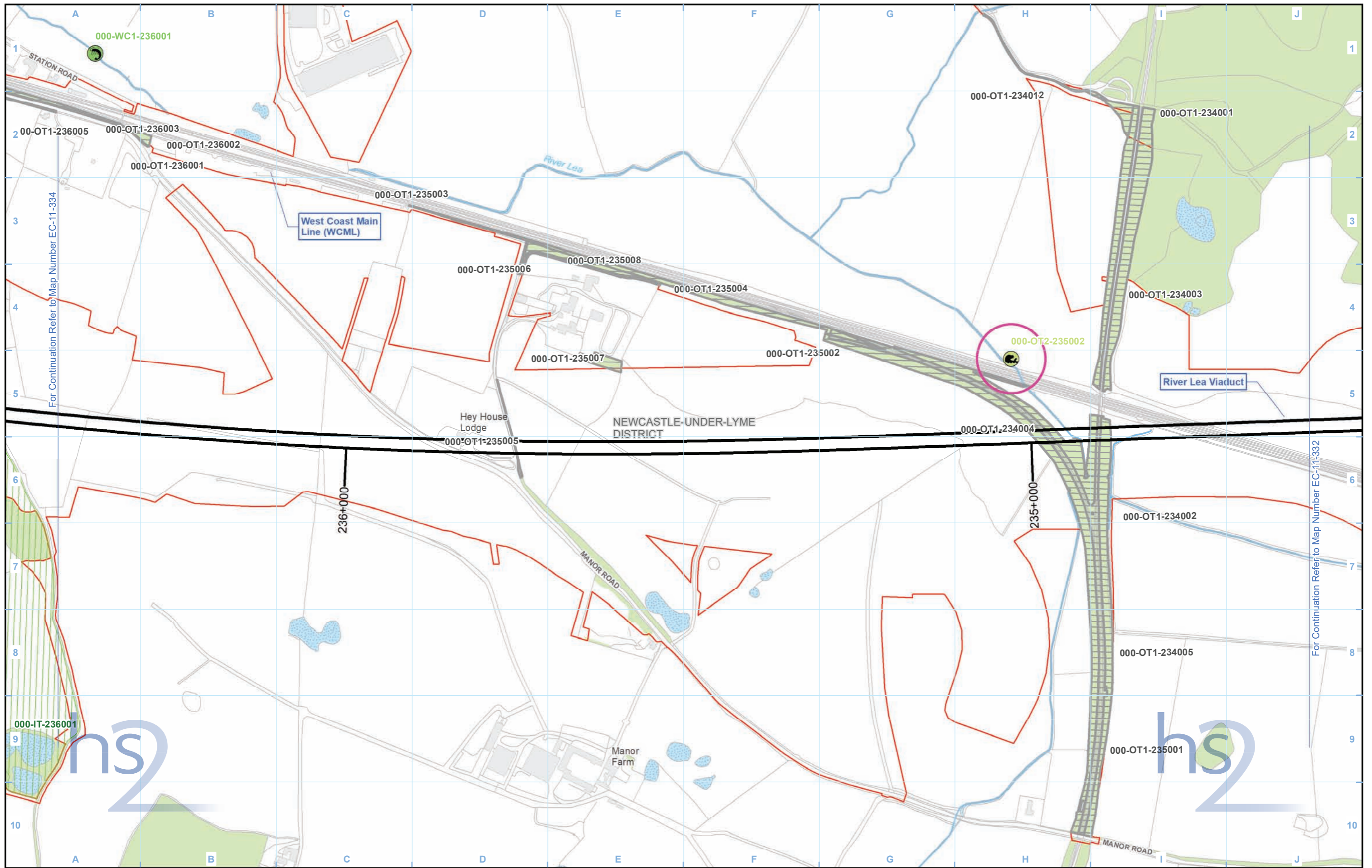
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Legend	
Route in tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland (verified by survey)
Land potentially required during construction	Area contains new survey data
Community area boundary	Otter:
District/Borough boundary	Active otter holt
	Potential otter holt
	Otter terrestrial habitat
	<b>White clawed crayfish:</b>
	Manual search and/or trapping conducted and presence confirmed
	Manual search and/or trapping conducted and assumed absent
	Site identified as potentially suitable but no access available
	<b>Pond survey:</b>
	Pond survey - national pond survey
	Pond survey - PSYM
	Pond survey - rapid assessment method
	<b>Fish:</b>
	Fish survey location
	<b>Terrestrial invertebrate:</b>
	Terrestrial invertebrate survey extent

Map Number	EC-11-333
Map Name	Other Protected and Notable Species (1) SES and AP ES
	Community Area 4: Whitmore Heath to Madeley

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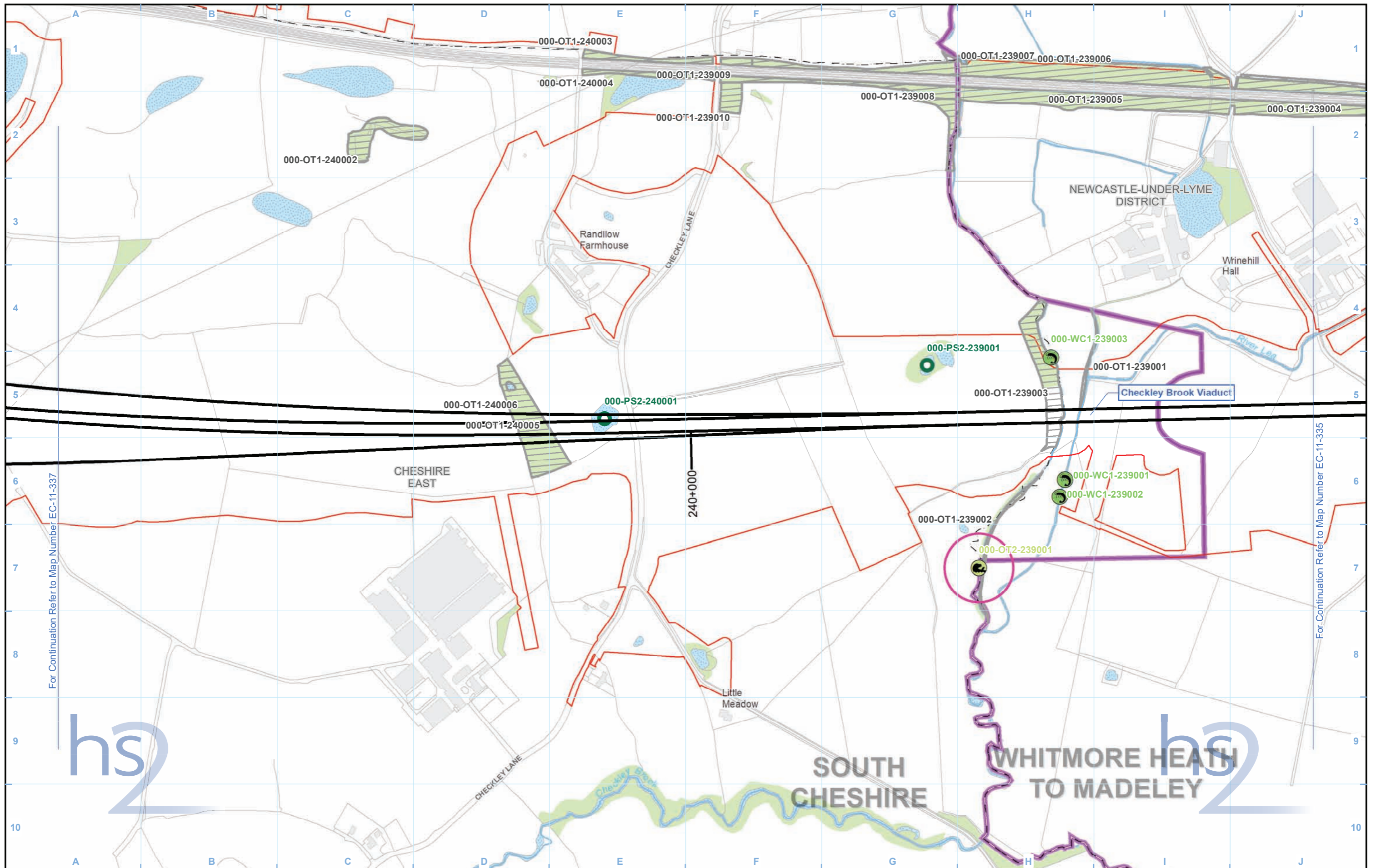
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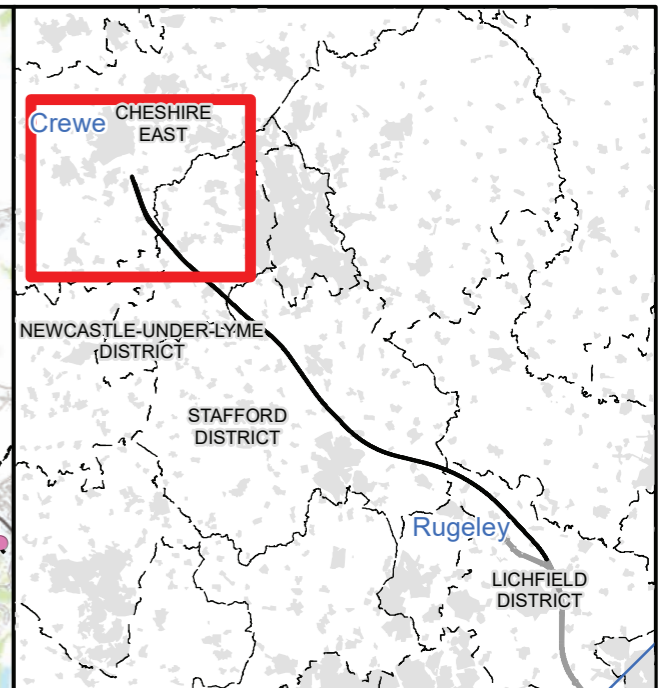
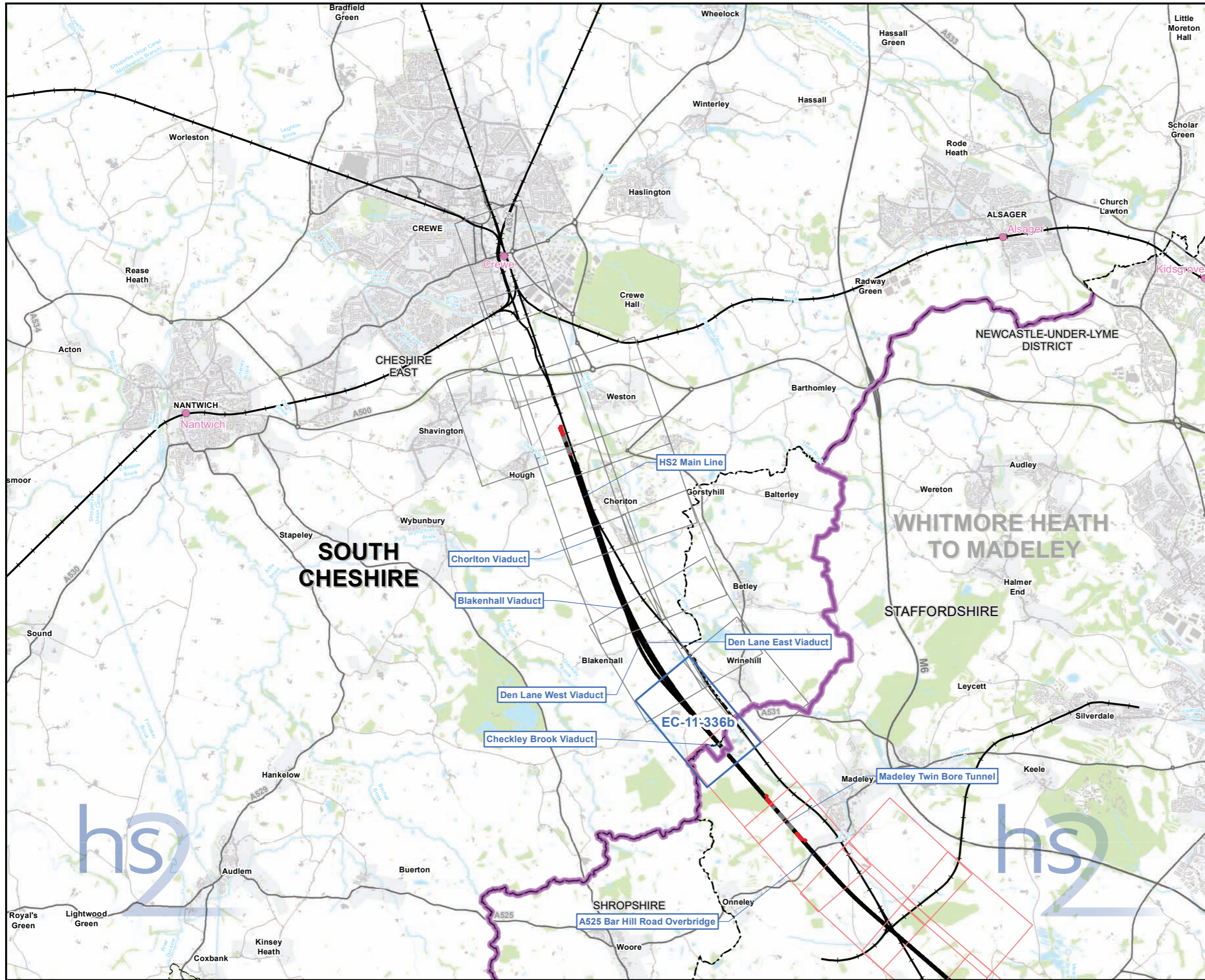
Date: 21/02/18



For Continuation Refer to Map Number EC-11-337

For Continuation Refer to Map Number EC-11-335

<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Area contains new survey data</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Otter terrestrial habitat</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial invertebrate:</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> <p style="text-align: center;">EC-11-336a</p>				<p style="font-size: small;">Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p>		<p style="font-size: small;">Scale at A3: 1:5,000</p>		<p style="font-size: small;">© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p>		<p style="font-size: small;">Doc Number: 2PT01-ARP-EV-MAP-000-081409-P03</p>	
<b>Map Name</b> <p style="text-align: center;"><b>Other Protected and Notable Species (1)</b> <b>SES and AP ES</b></p> <p style="text-align: center;">Community Area 4: Whitmore Heath to Madeley</p>		<p style="font-size: small;">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.</p>		<p style="font-size: small;">Date: 21/02/18</p>							



**Map Series Information:**  
 This map series shows the extent of protected species surveys conducted 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 with amendment
	Map sheets included in this community area with no amendment
	Map sheets not included in this community area

Map Number	EC-11-INDEX-CA5
Map Name	Index Map of: Other Protected and Notable Species (1) SES and AP ES
	Community Area 5: South Cheshire

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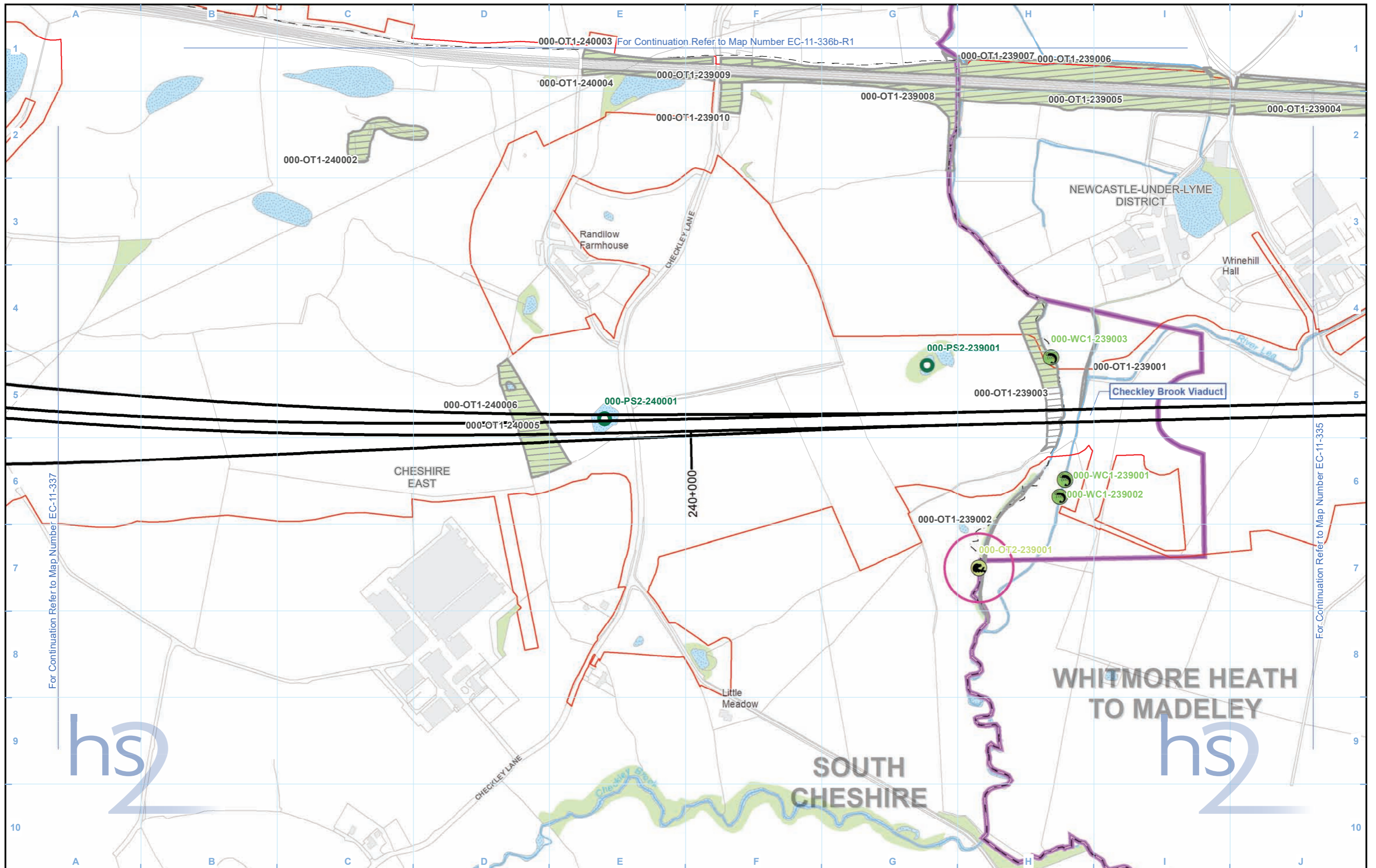
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For Continuation Refer to Map Number EC-11-335

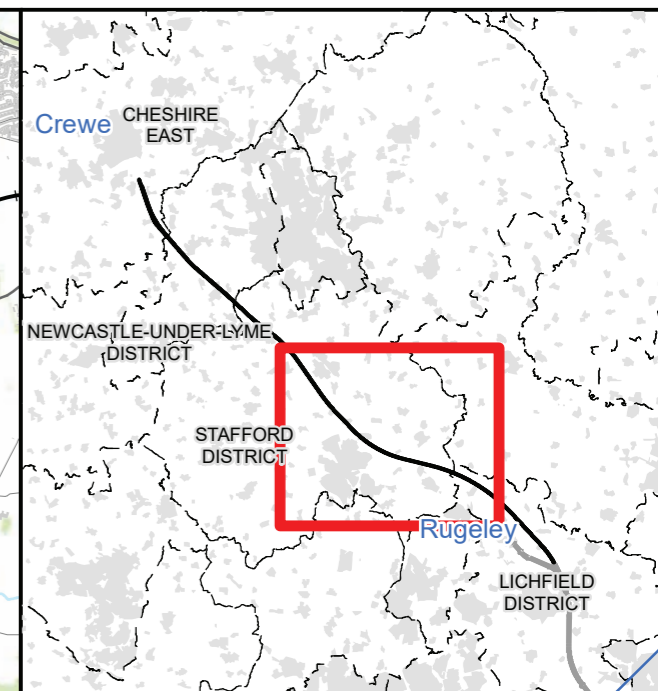
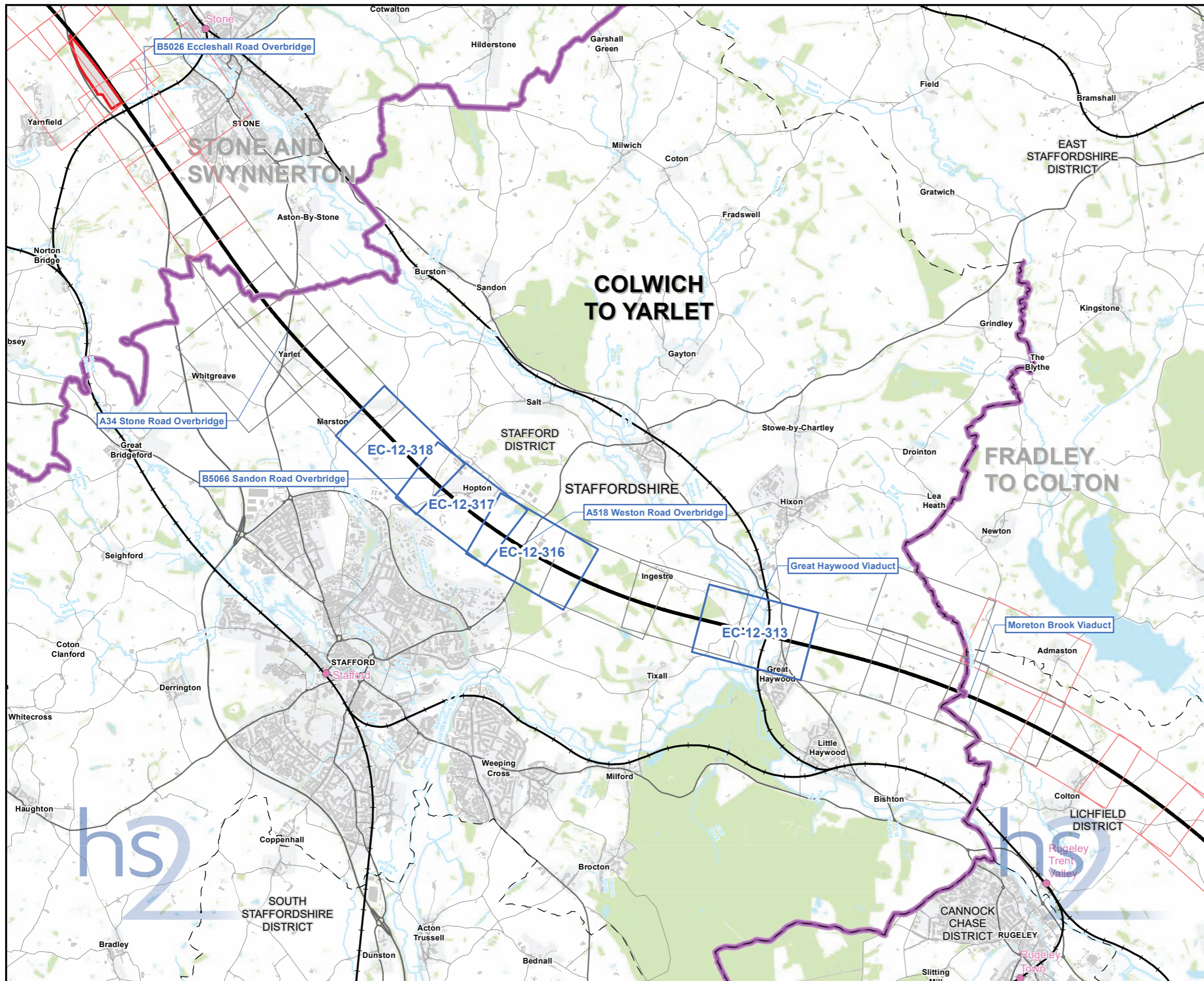
<b>Legend</b> <ul style="list-style-type: none"> <li> Route in tunnel</li> <li> Route on surface</li> <li> Depot, station, headhouse or portal building</li> <li> Land potentially required during construction</li> <li> Community area boundary</li> <li> District/Borough boundary</li> </ul>		<ul style="list-style-type: none"> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> <li> Area contains new survey data</li> </ul>		<b>Otter:</b> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Otter terrestrial habitat</li> </ul>		<b>White clawed crayfish:</b> <ul style="list-style-type: none"> <li> Manual search and/or trapping conducted and presence confirmed</li> <li> Manual search and/or trapping conducted and assumed absent</li> <li> Site identified as potentially suitable but no access available</li> </ul>		<b>Pond survey:</b> <ul style="list-style-type: none"> <li> Pond survey - national pond survey</li> <li> Pond survey - PSYM</li> <li> Pond survey - rapid assessment method</li> </ul>		<b>Fish:</b> <ul style="list-style-type: none"> <li> Fish survey location</li> <li><b>Terrestrial invertebrate:</b></li> <li> Terrestrial invertebrate survey extent</li> </ul>	
<b>Map Number</b> EC-11-336b				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		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.					
<b>Map Name</b> Other Protected and Notable Species (1) SES and AP ES		Scale at A3: 1:5,000				© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: 2PT01-ARP-EV-MAP-000-081608-P03			
Community Area 5: South Cheshire		Date: 21/02/18									

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High Speed Two Phase 2a (West Midlands - Crewe)

Background Information and Data

**EC-12 - Other protected and notable species (2)**



**Map Series Information:**

This map series shows the extent of protected species surveys conducted 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 with amendment
  - Map sheets included in this community area with no amendment
  - Map sheets not included in this community area

Map Number	EC-12-INDEX-CA2
Map Name	Index Map of: Other Protected and Notable Species (2) SES and AP ES
Community Area 2: Colwich to Yarlet	

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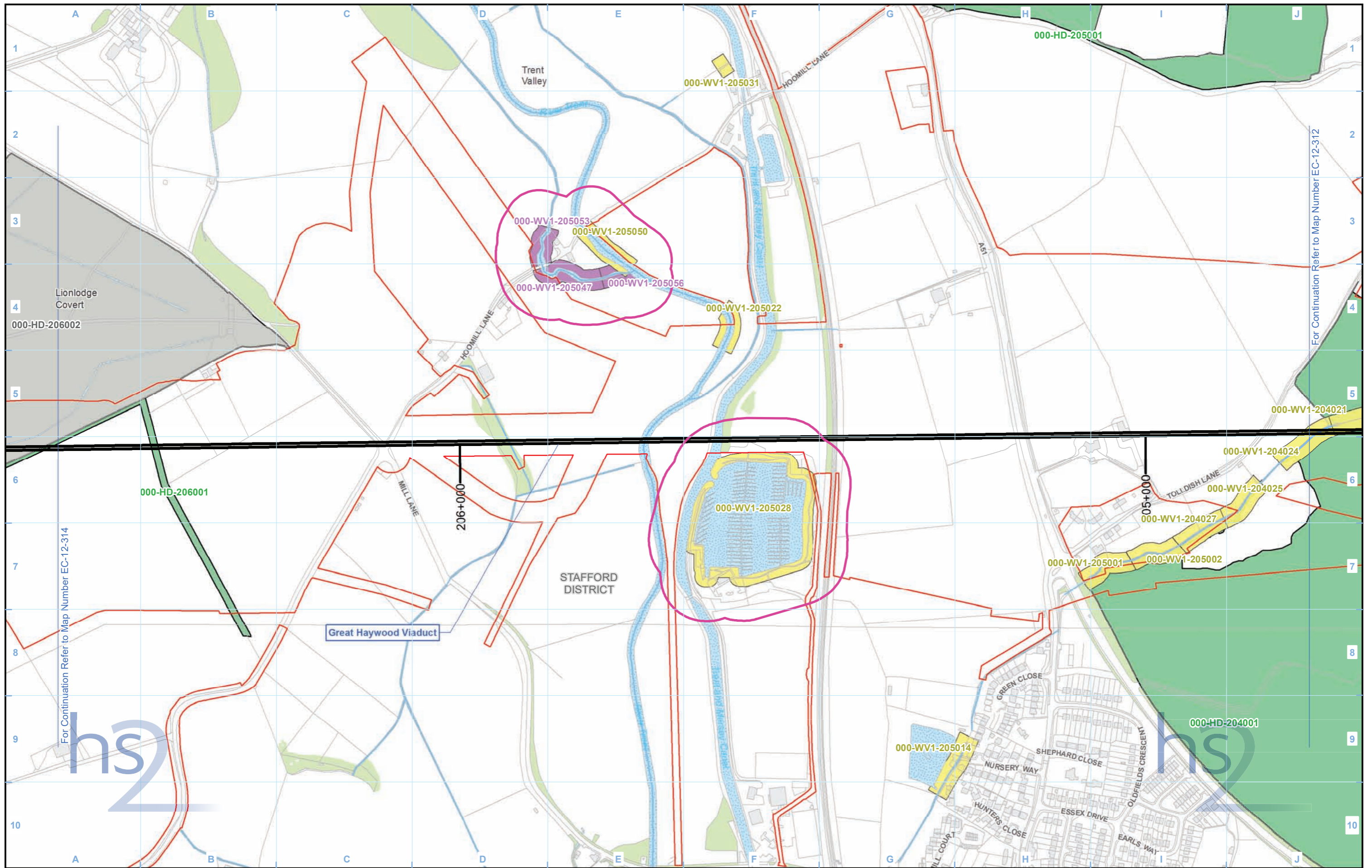
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Doc Number: 2PT01-ARP-EV-MAP-000-082002-P03 **Date:** 14/02/18





Legend			
		<b>Water vole:</b>	<b>Dormouse:</b>
	<b>Aquatic invertebrate:</b>		

Map Number	EC-12-313
Map Name	Other Protected and Notable Species (2) SES and AP ES
	Community Area 2: Colwich to Yarlet

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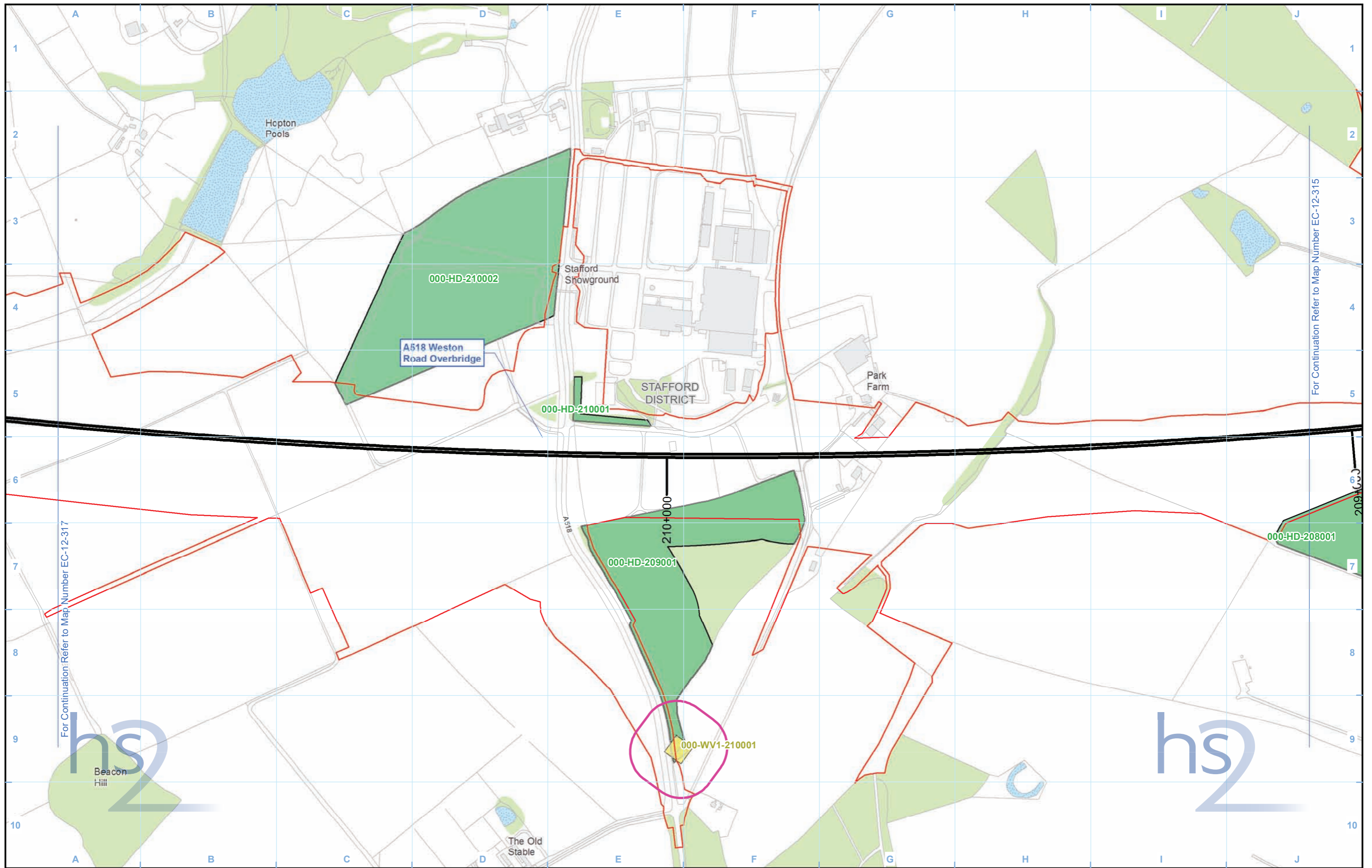
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Doc Number: 2PT01-ARP-EV-MAP-000-082329-P03

Date: 21/02/18



For Continuation Refer to Map Number EC-12-317

For Continuation Refer to Map Number EC-12-315

Legend			
		<b>Water vole:</b>	<b>Dormouse:</b>
	<b>Aquatic invertebrate:</b>		

Map Number	EC-12-316
Map Name	Other Protected and Notable Species (2) SES and AP ES
	Community Area 2: Colwich to Yarlet

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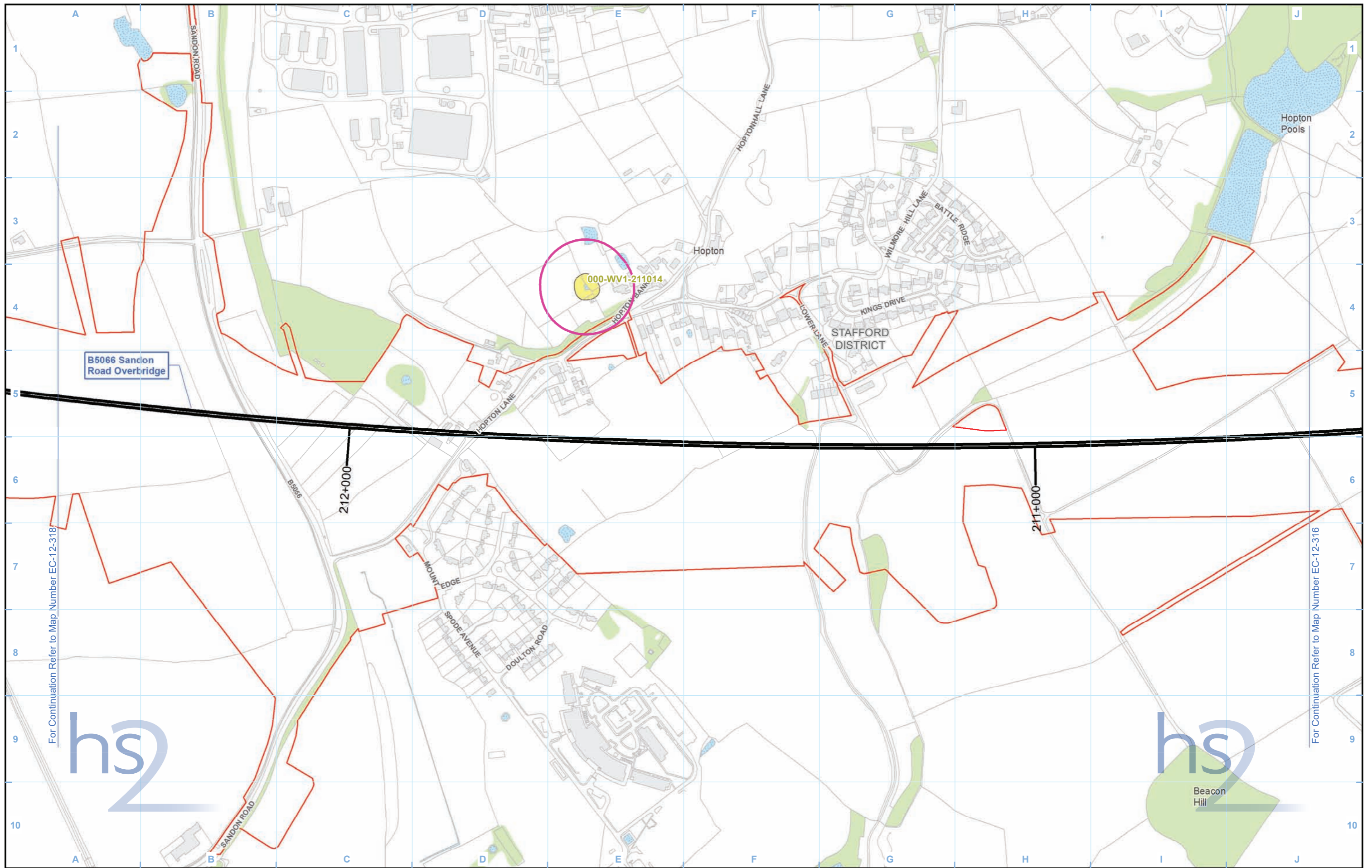
Doc Number: 2PT01-ARP-EV-MAP-000-082328-P03

Scale at A3: 1:5,000

Metres

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Date: 21/02/18



For Continuation Refer to Map Number EC-12-318

For Continuation Refer to Map Number EC-12-316

Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Area contains new survey data
	Community area boundary		Aquatic invertebrate survey location
	District/Borough boundary		Water vole: Water vole survey undertaken – presence confirmed
			Water vole survey undertaken – assumed absent
			Watercourse potentially suitable for water vole - no or limited access for survey
			Dormouse: Nest tube survey and/or nut search conducted and presence confirmed
			Nest tube survey and/or nut search conducted and no signs of dormouse identified
			Site identified as potentially suitable for dormouse but no access available

Map Number	EC-12-317
Map Name	Other Protected and Notable Species (2) SES and AP ES
	Community Area 2: Colwich to Yarlet

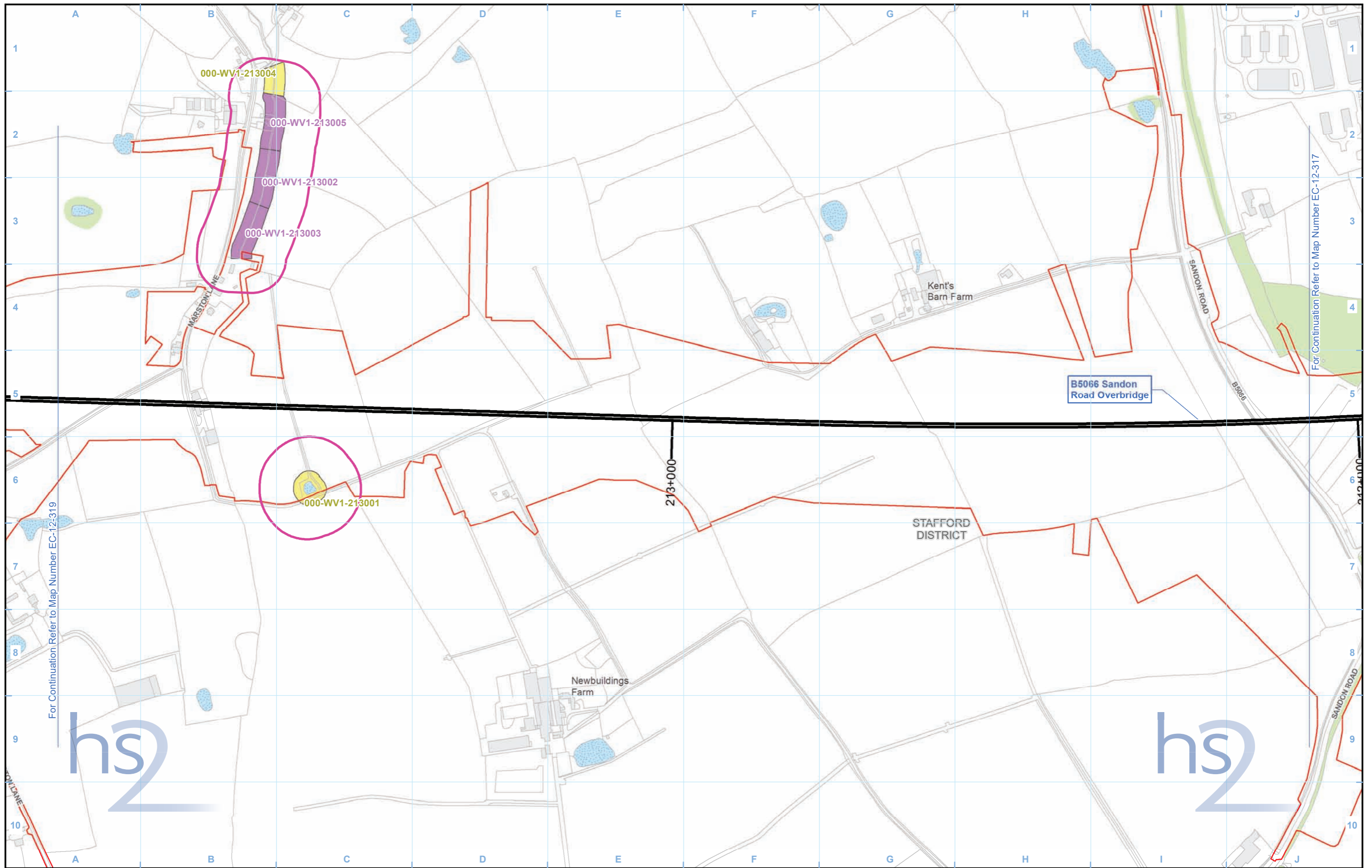
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Doc Number: 2PT01-ARP-EV-MAP-000-082427-P03 Date: 21/02/18



Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland (verified by survey)
	Land potentially required during construction		Area contains new survey data
	Community area boundary		Aquatic invertebrate survey location
	District/Borough boundary		Water vole: Water vole survey undertaken - presence confirmed
			Water vole: Water vole survey undertaken - assumed absent
			Watercourse potentially suitable for water vole - no or limited access for survey
			Dormouse: Nest tube survey and/or nut search conducted and presence confirmed
			Dormouse: Nest tube survey and/or nut search conducted and no signs of dormouse identified
			Dormouse: Site identified as potentially suitable for dormouse but no access available

Map Number	EC-12-318
Map Name	Other Protected and Notable Species (2) SES and AP ES
Community Area 2: Colwich to Yarlet	

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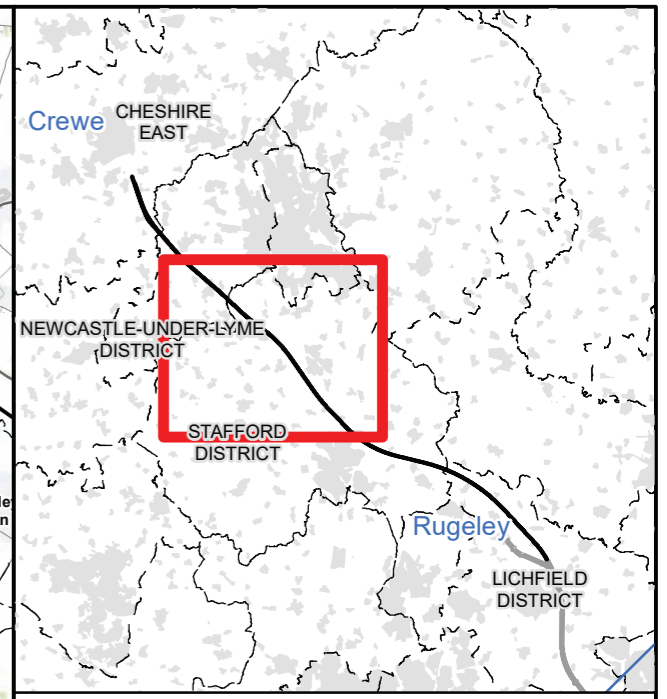
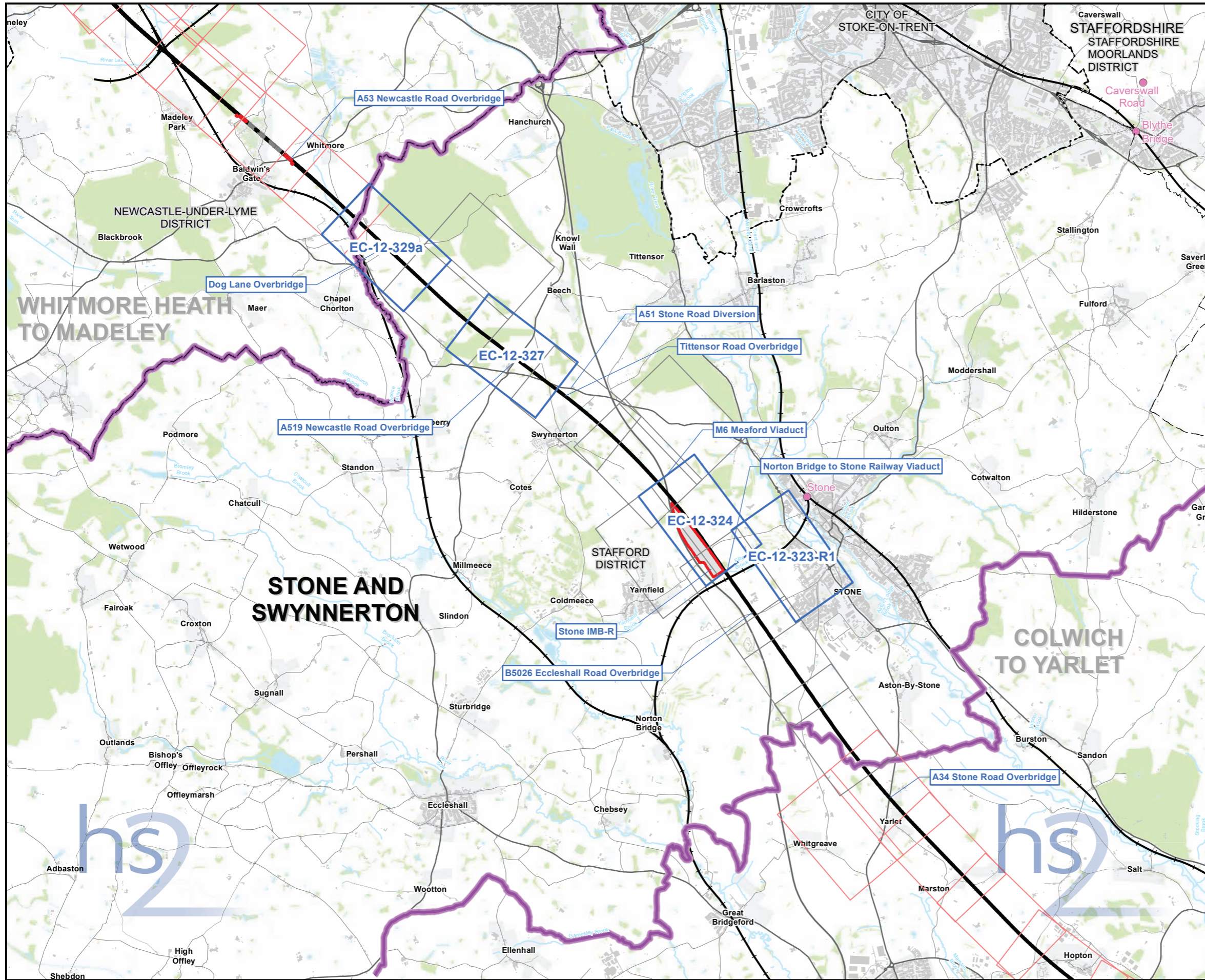
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Doc Number: 2PT01-ARP-EV-MAP-000-082327-P03

Date: 21/02/18

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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 with amendment
  - Map sheets included in this community area with no amendment
  - Map sheets not included in this community area

Map Number	EC-12-INDEX-CA3
Map Name	Index Map of: Other Protected and Notable Species (2) SES and AP ES
Community Area 3: Stone and Swynnerton	

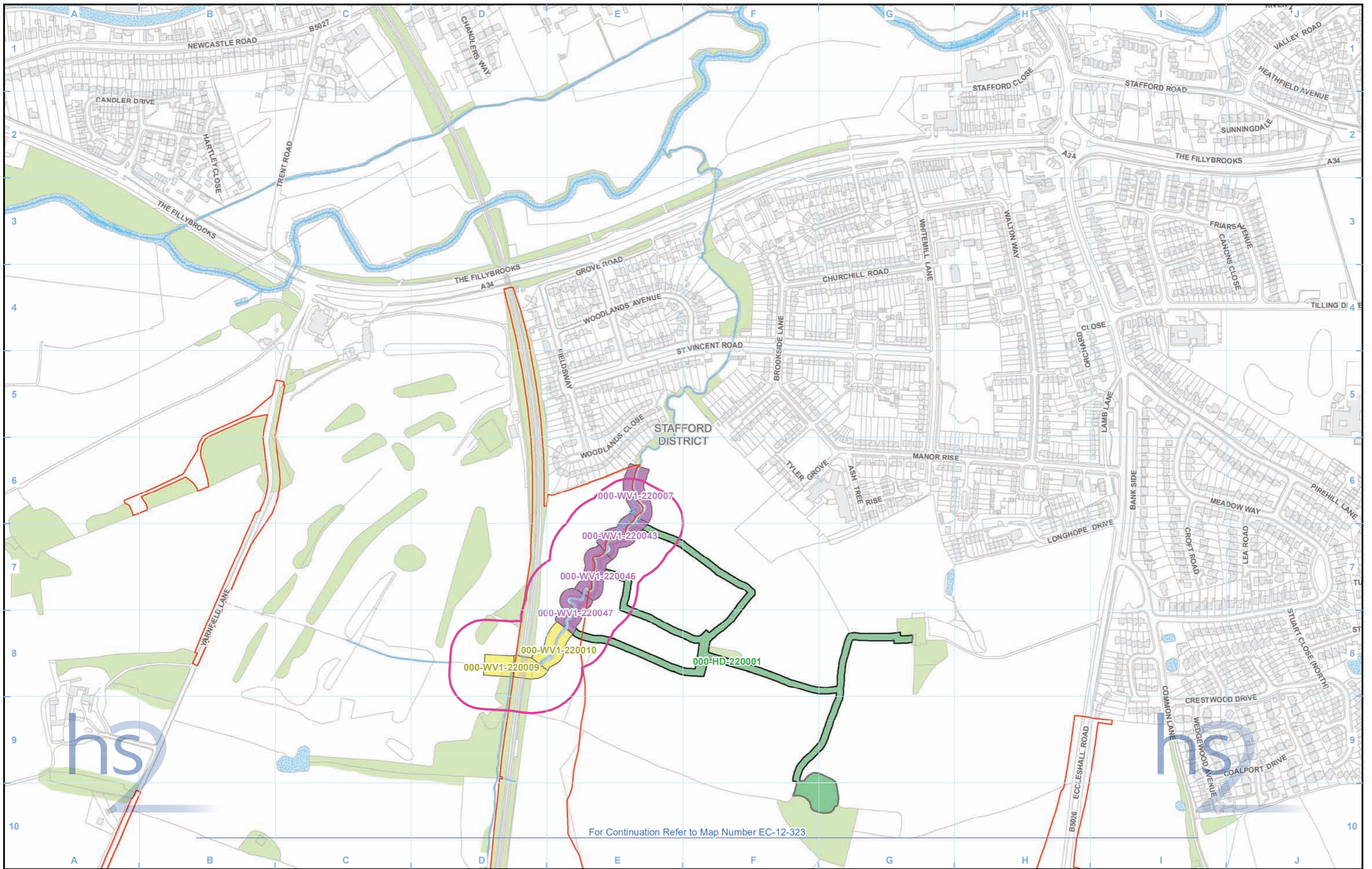
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Doc Number: 2PT01-ARP-EV-MAP-000-082003-P03 **Date:** 26/02/18



For Continuation Refer to Map Number EC-12-323

Legend			
		<b>Water vole:</b>	<b>Dormouse:</b>
	<b>Aquatic invertebrate:</b>		

Map Number	EC-12-323-R1
Map Name	Other Protected and Notable Species (2) SES and AP ES
	Community Area 3: Stone and Swynnerton

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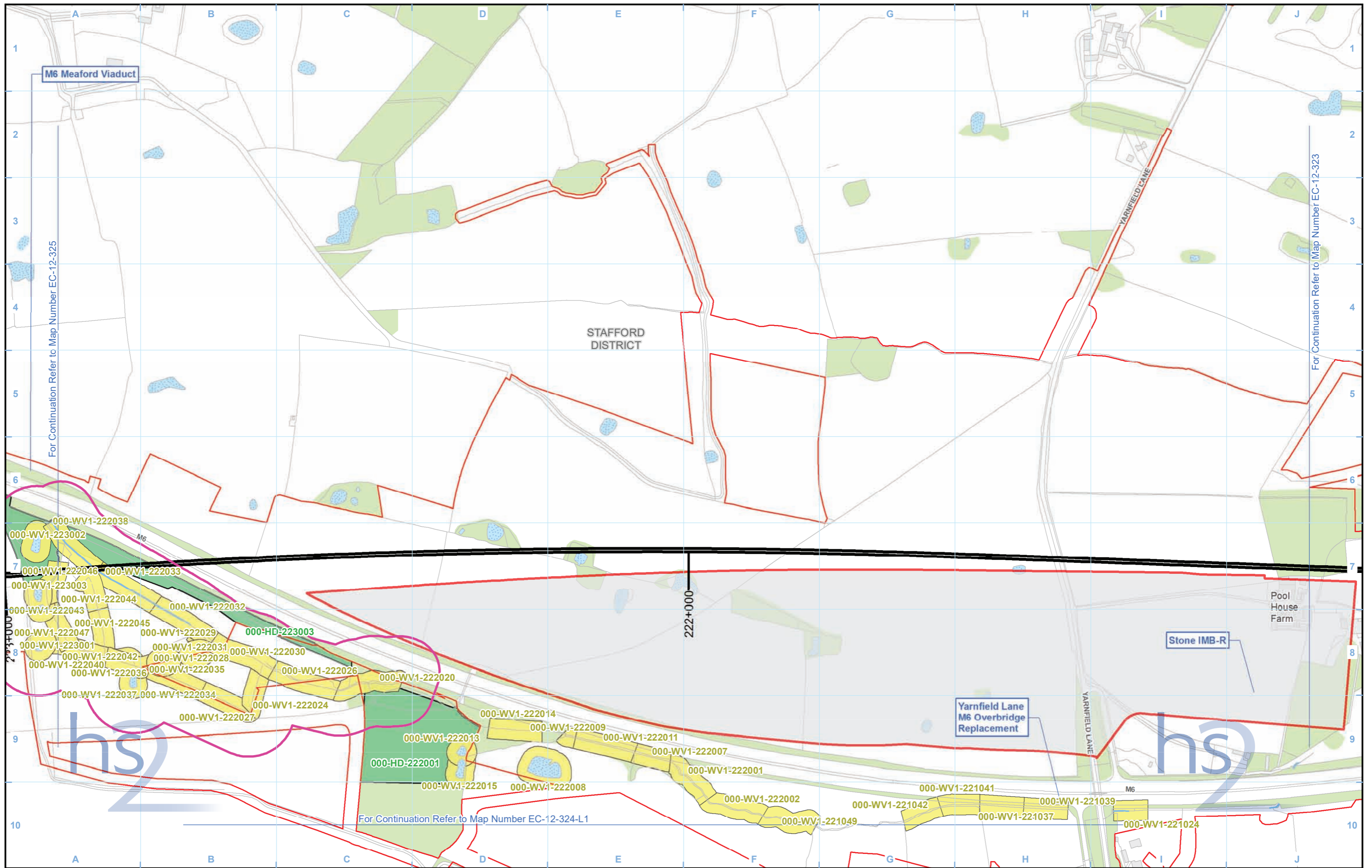
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Doc Number: 2PT01-ARP-EV-MAP-000-082322-P03

Scale at A3: 1:5,000

Metres

Date: 21/02/18



Legend			

Map Number	EC-12-324
Map Name	Other Protected and Notable Species (2) SES and AP ES
	Community Area 3: Stone and Swynnerton

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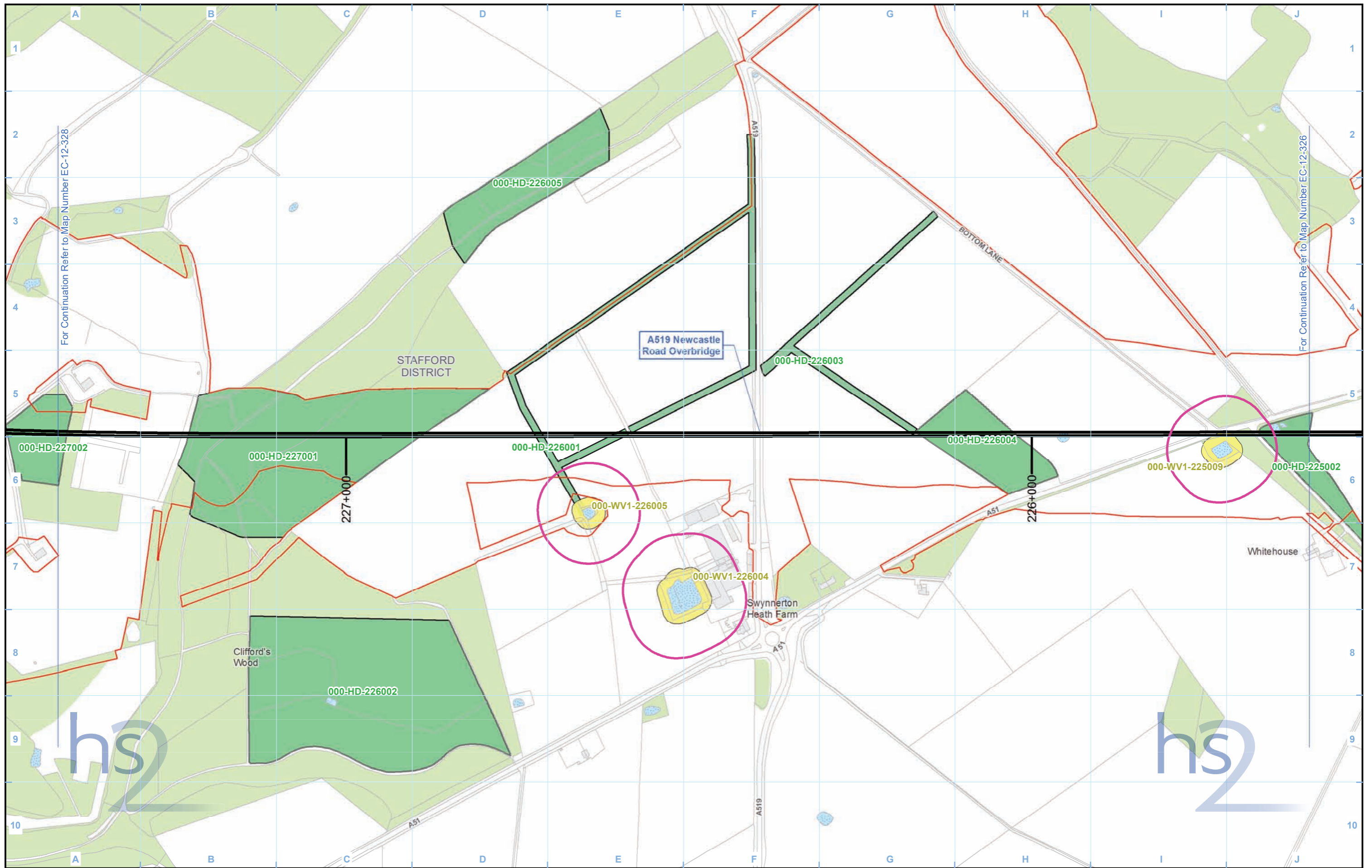
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Doc Number: 2PT01-ARP-EV-MAP-000-082521-P03

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Legend			
		<b>Water vole:</b>	<b>Dormouse:</b>
	<b>Aquatic invertebrate:</b>		

Map Number	EC-12-327
Map Name	Other Protected and Notable Species (2) SES and AP ES
	Community Area 3: Stone and Swynnerton

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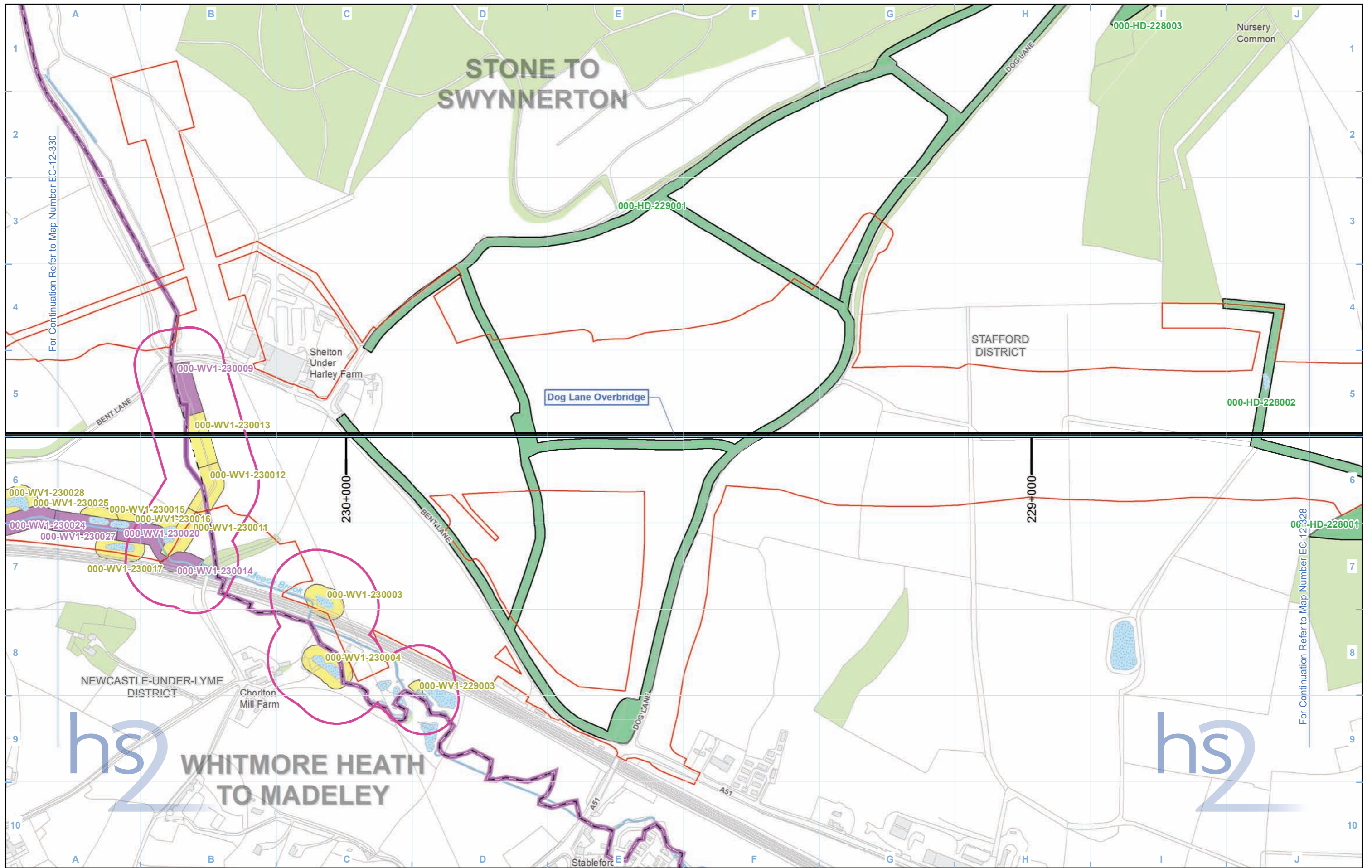
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Scale at A3: 1:5,000

0 50 100 150 200  
 Metres

Doc Number: 2PT01-ARP-EV-MAP-000-082318-P03

Date: 21/02/18



Legend			
		<b>Water vole:</b>	<b>Dormouse:</b>
	<b>Aquatic invertebrate:</b>		

Map Number	EC-12-329a
Map Name	Other Protected and Notable Species (2) SES and AP ES
	Community Area 3: Stone and Swynnerton

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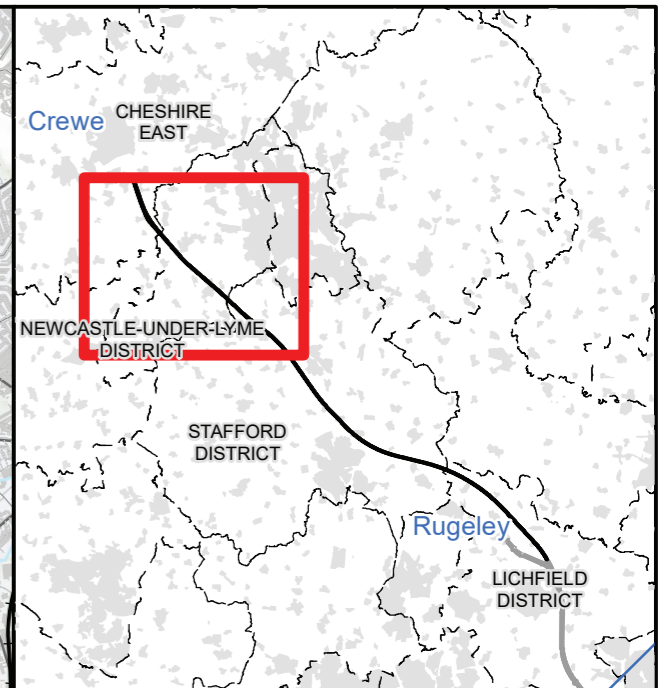
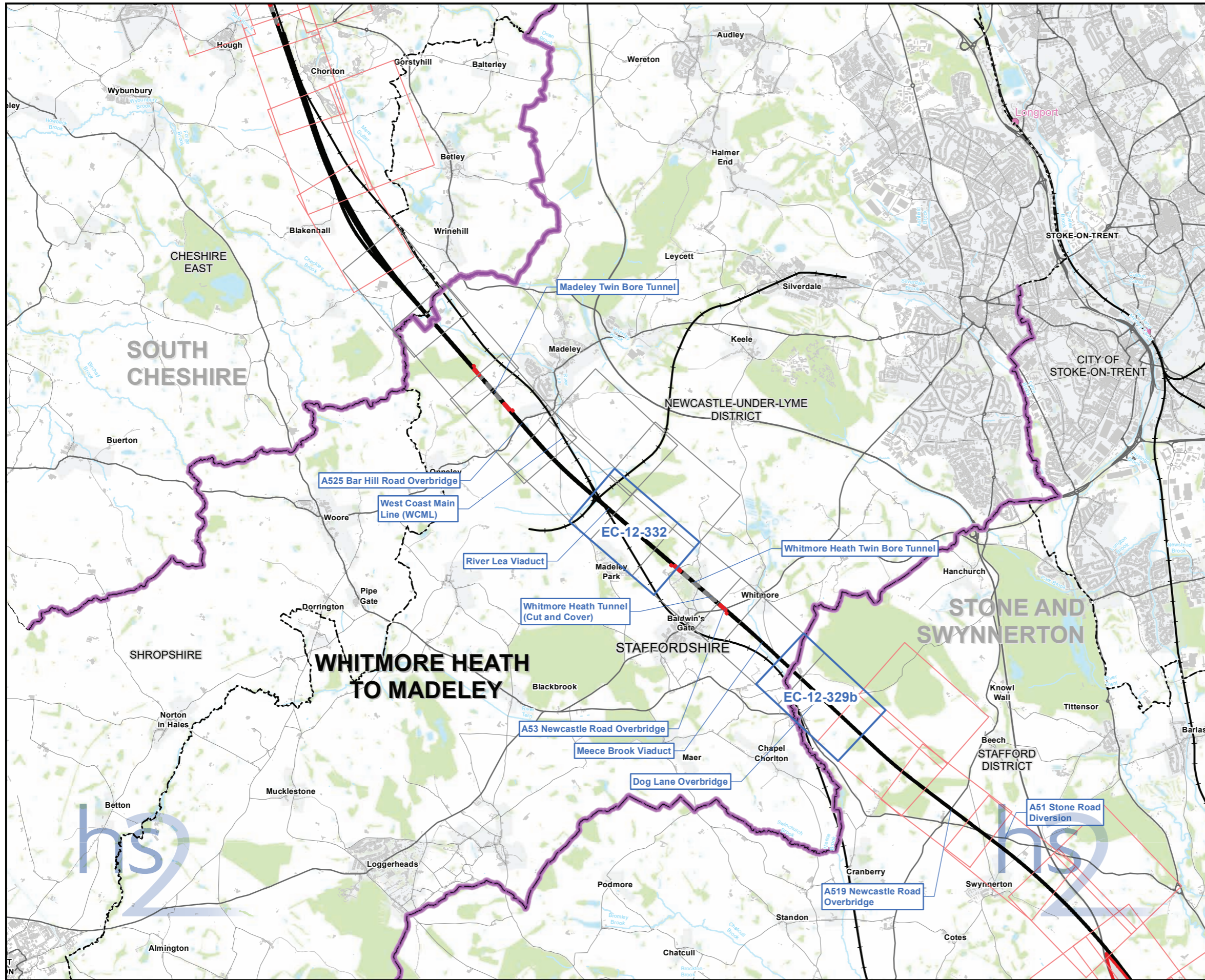
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- Main Map Legend**
- Route in tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Community area boundary
  - Existing railway station
  - County boundary
  - District/Borough boundary
  - Map sheets included in this community area with amendment
  - Map sheets included in this community area with no amendment
  - Map sheets not included in this community area

Map Number: EC-12-INDEX-CA4

Map Name: Index Map of: Other Protected and Notable Species (2) SES and AP ES

Community Area 4: Whitmore Heath to Madeley

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Doc Number: 2PT01-ARP-EV-MAP-000-082004-P03

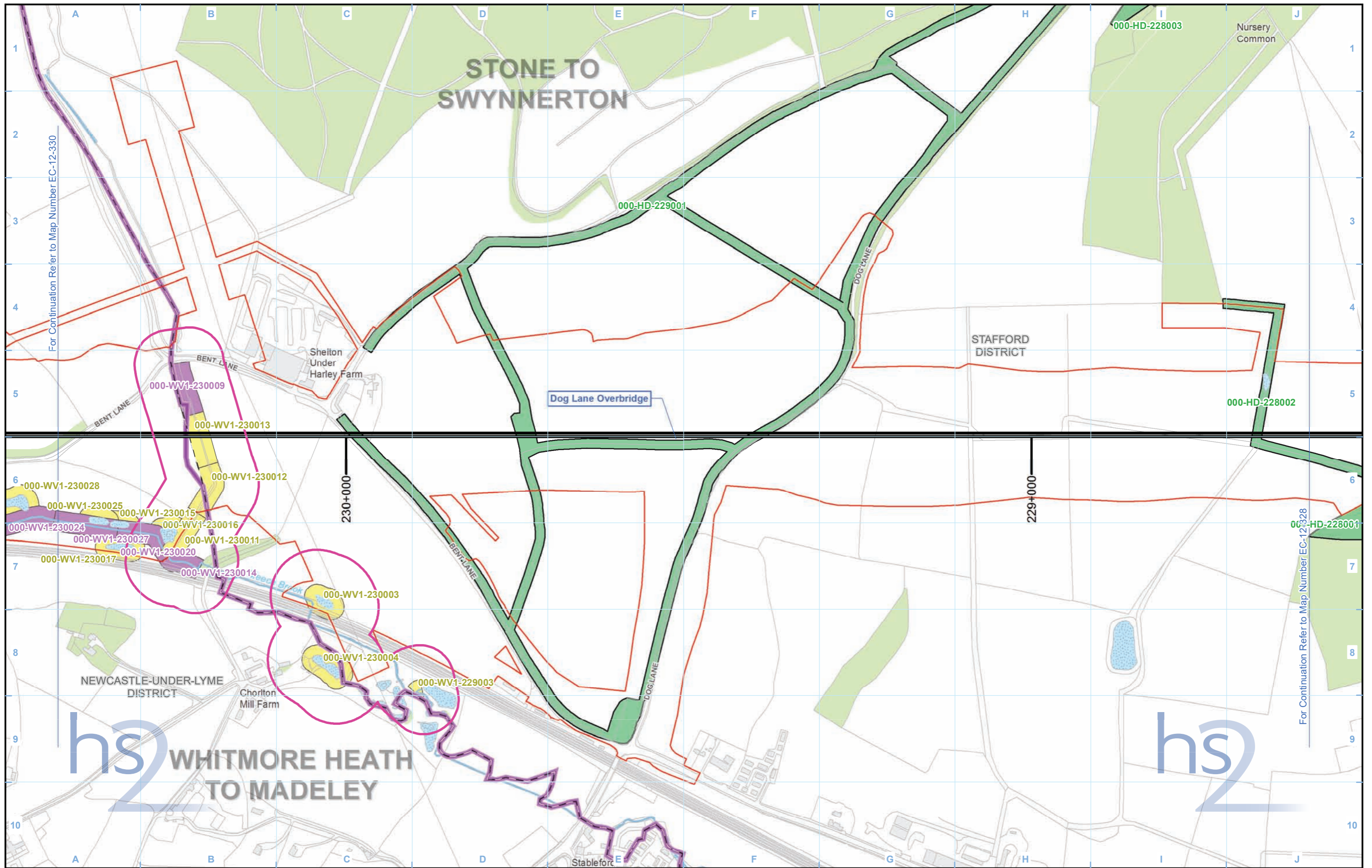
hs2 logo

Scale at A3: 1:70,000

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Date: 14/02/18

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



Legend			
		<b>Water vole:</b>	<b>Dormouse:</b>
	<b>Aquatic invertebrate:</b>		

Map Number	EC-12-329b
Map Name	Other Protected and Notable Species (2) SES and AP ES
	Community Area 4: Whitmore Heath to Madeley

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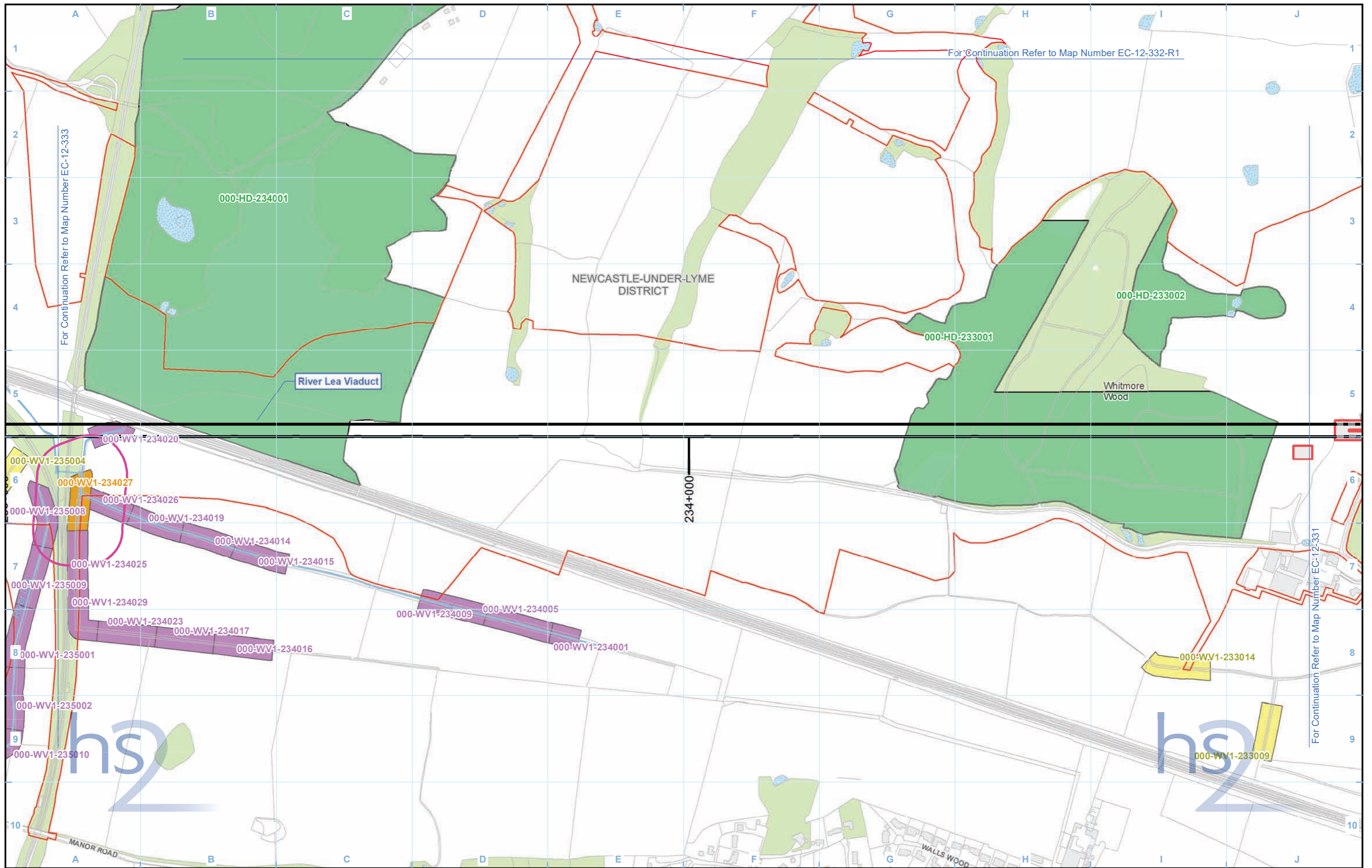
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Date: 21/02/18



For Continuation Refer to Map Number EC-12-332-R1

For Continuation Refer to Map Number EC-12-333

For Continuation Refer to Map Number EC-12-331

Legend			
		<b>Water vole:</b>	<b>Dormouse:</b>
	<b>Aquatic invertebrate:</b>		

Map Number	EC-12-332
Map Name	Other Protected and Notable Species (2) SES and AP ES Community Area 4: Whitmore Heath to Madeley

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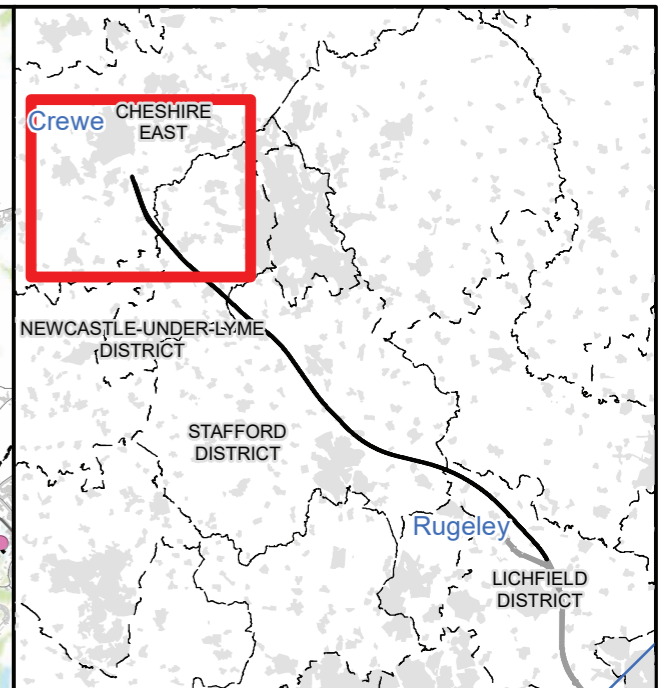
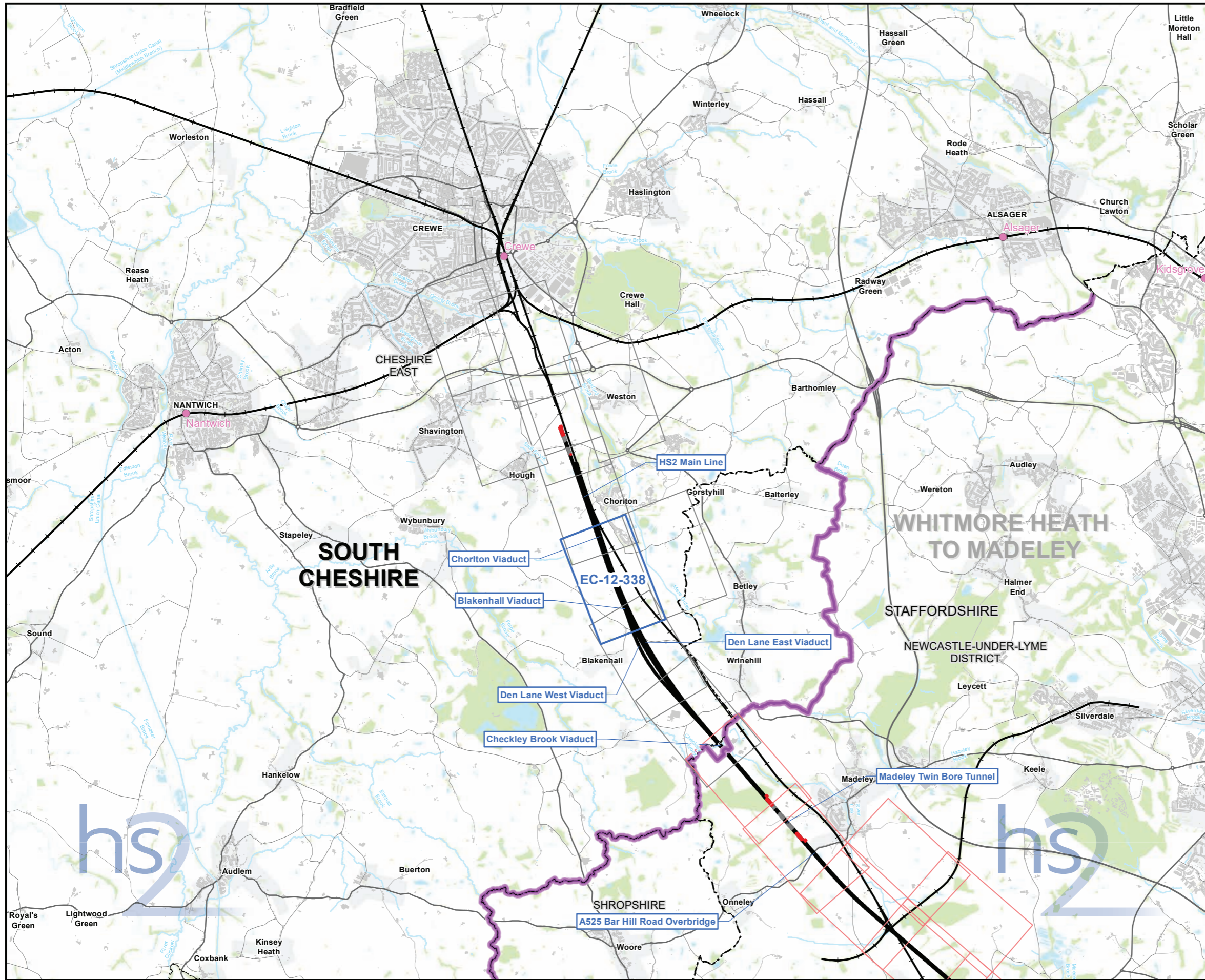
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**Main Map Legend**

- 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 with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	EC-12-INDEX-CA5
Map Name	Index Map of: Other Protected and Notable Species (2) SES and AP ES
	Community Area 5: South Cheshire

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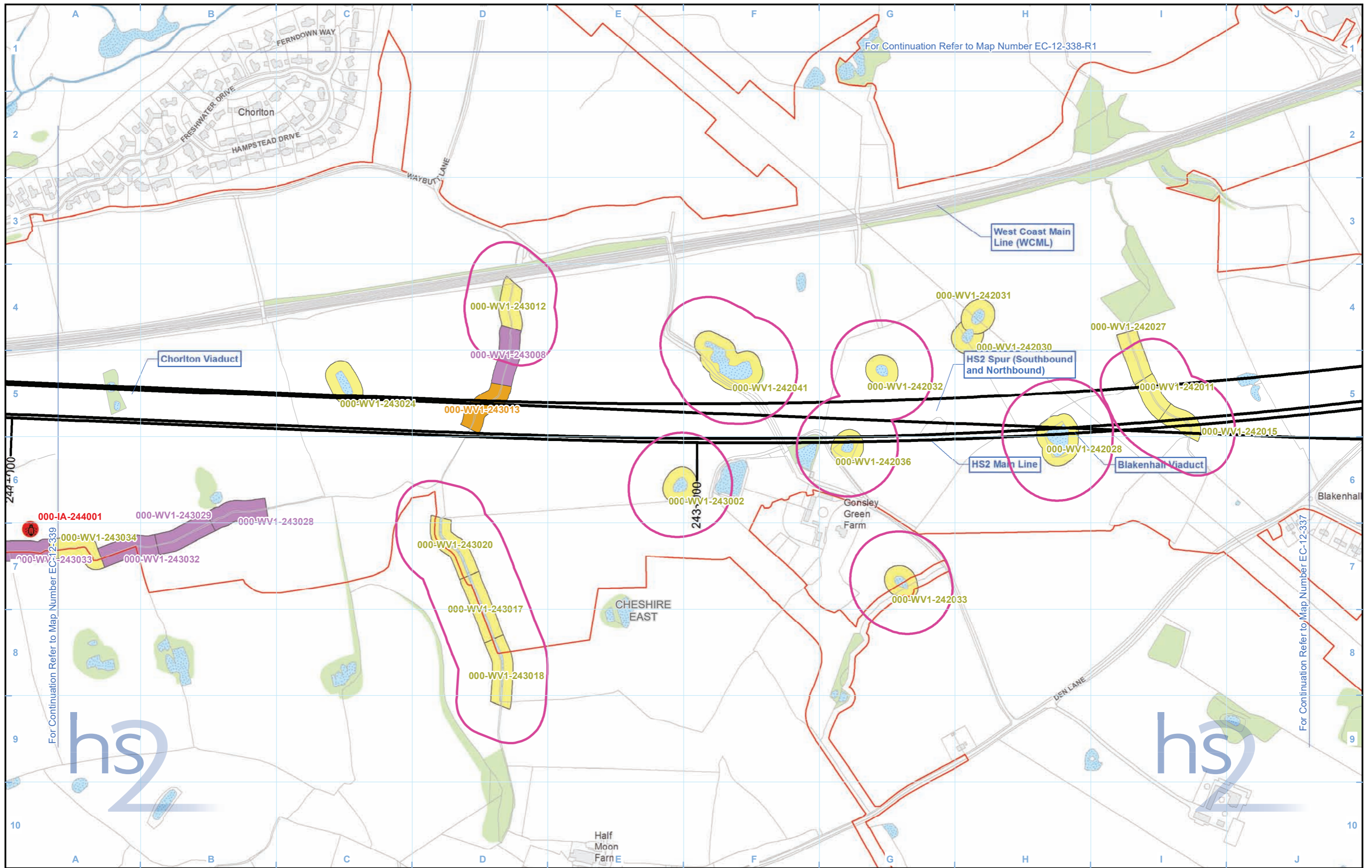
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For Continuation Refer to Map Number EC-12-338-R1

For Continuation Refer to Map Number EC-12-339

For Continuation Refer to Map Number EC-12-337

Legend			
		<b>Water vole:</b>	<b>Dormouse:</b>
	<b>Aquatic invertebrate:</b>		

Map Number	EC-12-338
Map Name	Other Protected and Notable Species (2) SES and AP ES
	Community Area 5: South Cheshire

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