

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

## Background Information and Data

### Map book

Ecology (EC-02, EC-04, EC-05, EC-06, EC-07, EC-08, EC-09, EC-10, EC-11, EC-12) Part 3



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### Map book

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Department  
for Transport

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# Contents

Mapping explanatory notes

Data dictionary and definitions

| Map series name   | Map series description   | Map book part   |
|---|--|---|
| EC-02 - Phase 1 Habitat (1:10,000)                                  | This map series shows Phase 1 habitat survey information for land required and 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 boundary of the land potentially required during construction, the information is based on available desk study and interpretation of aerial photography. | Background Information and Data map book – Ecology Part 1 |
| EC-04 - Amphibians  | This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.  | Background Information and Data map book – Ecology Part 1 |
| EC-05 - Bat - Roost   | 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.  | Background Information and Data map book – Ecology Part 1 |
| EC-06 - Bat - Activity  | This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.  | Background Information and Data map book – Ecology Part 1 |
| EC-07 - Reptiles  | This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.  | Background Information and Data map book – Ecology Part 2 |
| EC-08 - Breeding Birds - Protected and Notable Species              | This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.  | Background Information and Data map book – Ecology Part 2 |
| EC-09 - Wintering and Passage Birds – Protected and Notable Species | This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.   | Background Information and Data map book – Ecology Part 2 |
| EC-10 - Phase 2 Habitat Survey                                      | This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'Important hedgerows' under the Hedgerows Regulations (1997).   | Background Information and Data map book – Ecology Part 3 |
| EC-11 - Other Protected and Notable Species (1)                     | This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.   | Background Information and Data map book – Ecology Part 3 |
| EC-12 - Other Protected and Notable Species (2)                     | This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.   | Background Information and Data map book – Ecology Part 3 |

## 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 (the Proposed Scheme), and comprises ecological baseline data. This map book does not form part of the Environmental Statement, but presents relevant ecological information for the Proposed Scheme.

### Copyright statements

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

### Ordnance Survey data

All maps contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data.

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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  |
|--|---|--------------------------|--|
| Aquatic invertebrate:<br>Aquatic invertebrate survey location  | Location of aquatic invertebrate survey.  | 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. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017. |
| County boundary  | County boundaries from Ordnance Survey boundary mapping.  | Ordnance Survey          | © Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017. |
| 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. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017. |
| Ditch vegetation survey  | Extent of Ditch vegetation surveys.   | High Speed Two (HS2) Ltd |  |
| Dormouse:<br>Nest tube survey and/or nut search conducted and presence confirmed<br>Nest tube survey and/or nut search conducted and no signs of dormouse identified<br>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:<br>Fish survey location  | Location where fish survey was conducted.   | High Speed Two (HS2) Ltd |  |
| 'Important' hedgerow confirmed by field survey<br>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:<br>Active otter holt<br>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 |  |
| Pond survey:<br>Pond survey – national pond survey<br>Pond survey – PSYM<br>Pond survey – rapid assessment method  | Location and type of pond surveys conducted.  | High Speed Two (HS2) Ltd |  |

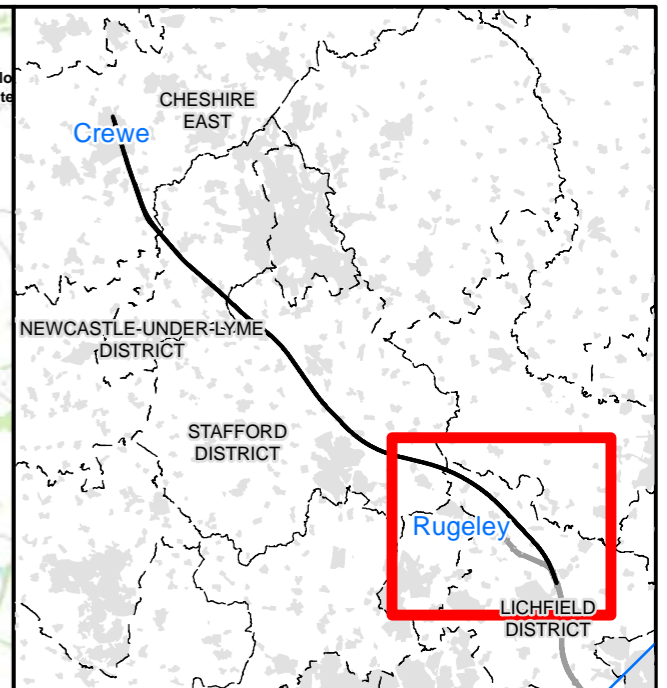
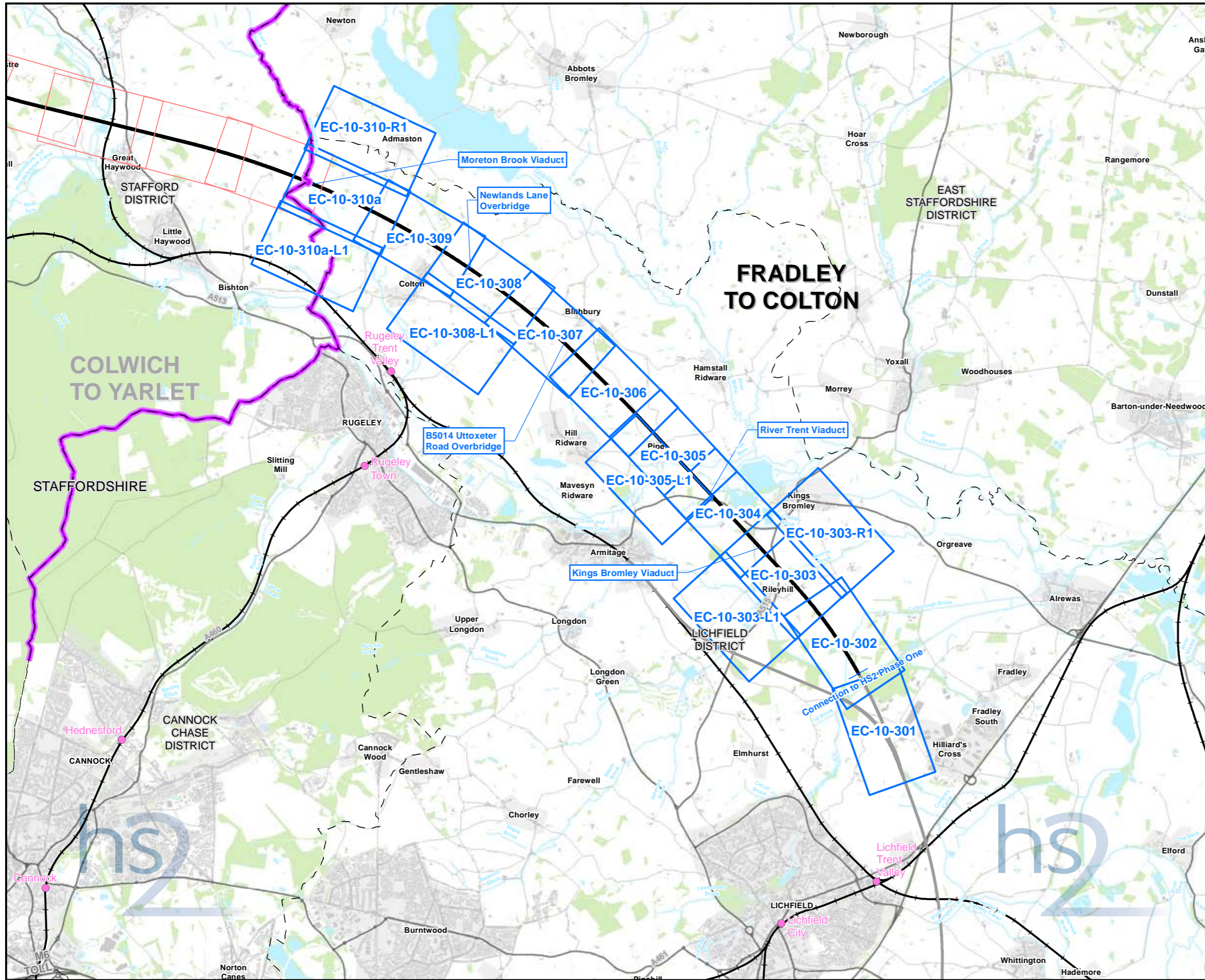


| Legend features   | Definition  | Source                   | Copyright  |
|---|---|--------------------------|--|
| River corridor survey extent  | Extent of river corridor surveys.   | High Speed Two (HS2) Ltd |  |
| River habitat survey extent   | Extent of river habitat surveys.  | High Speed Two (HS2) Ltd |  |
| Route in tunnel<br>Route on surface   | Represents the proposed route of HS2, split into route on surface and tunnelled sections.   | High Speed Two (HS2) Ltd |  |
| Terrestrial invertebrate:<br>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. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017. |
| Water vole:<br>Water vole survey undertaken – presence confirmed<br>Water vole survey undertaken – assumed absent<br>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:<br>Manual search and/or trapping conducted and presence confirmed<br>Manual search and/or trapping conducted and assumed absent<br>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)<br>Woodland (verified by survey)  | Woodland areas derived from Ordnance Survey MasterMap data.   | Ordnance Survey          | © Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017. |

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

|                   |   |
|-------------------|---|
| Map Number        | EC-10-INDEX-CA1                         |
| Map Name          | Index Map of:<br>Phase 2 Habitat Survey |
| Community Area 1: | Fradley to Colton                       |

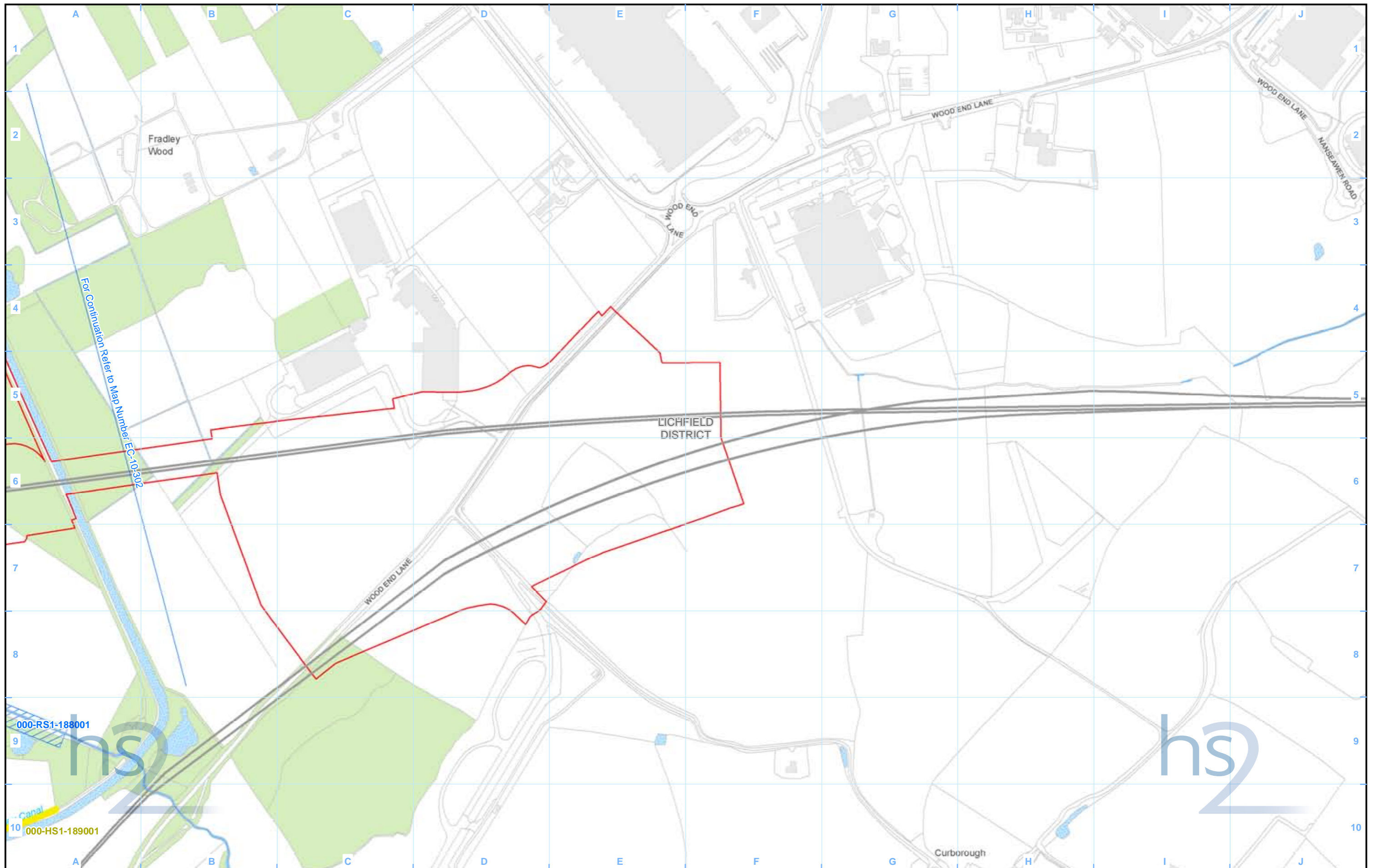
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| Legend  |  |  |                              |
|---|--|--|------------------------------|
| Route in bored tunnel                         | Watercourse  | National Vegetation Classification survey      | River corridor survey extent |
| Route on 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 | Possible 'Important' hedgerow - no access available for survey |  |                              |
| Community area boundary                       |  |  |                              |
| District/Borough boundary                     |  |  |                              |

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-301              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |




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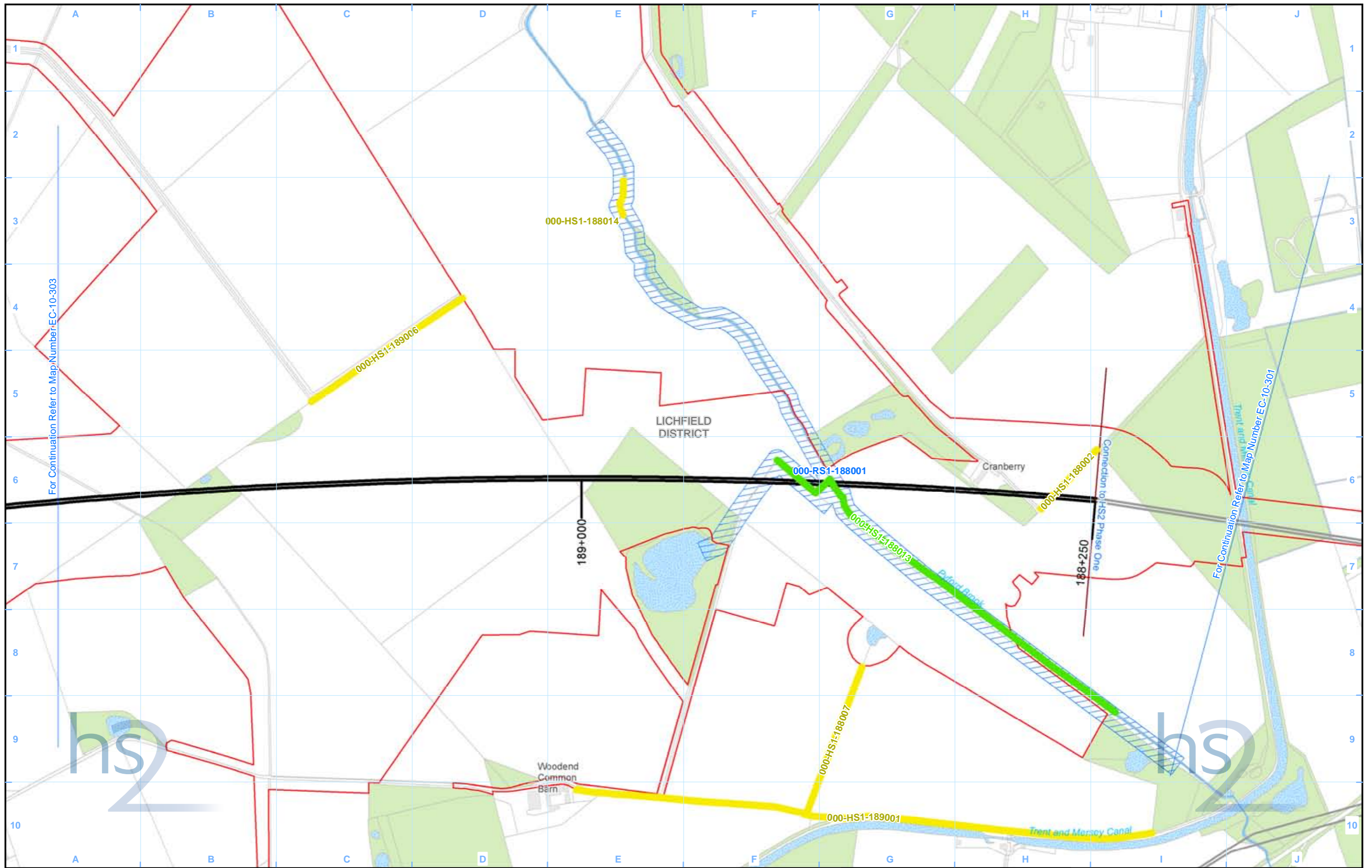
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Metres



Date: 14/06/17



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

Map Number  
**EC-10-302**

Map Name  
**Phase 2 Habitat Survey**

Community Area 1:  
**Fradley to Colton**

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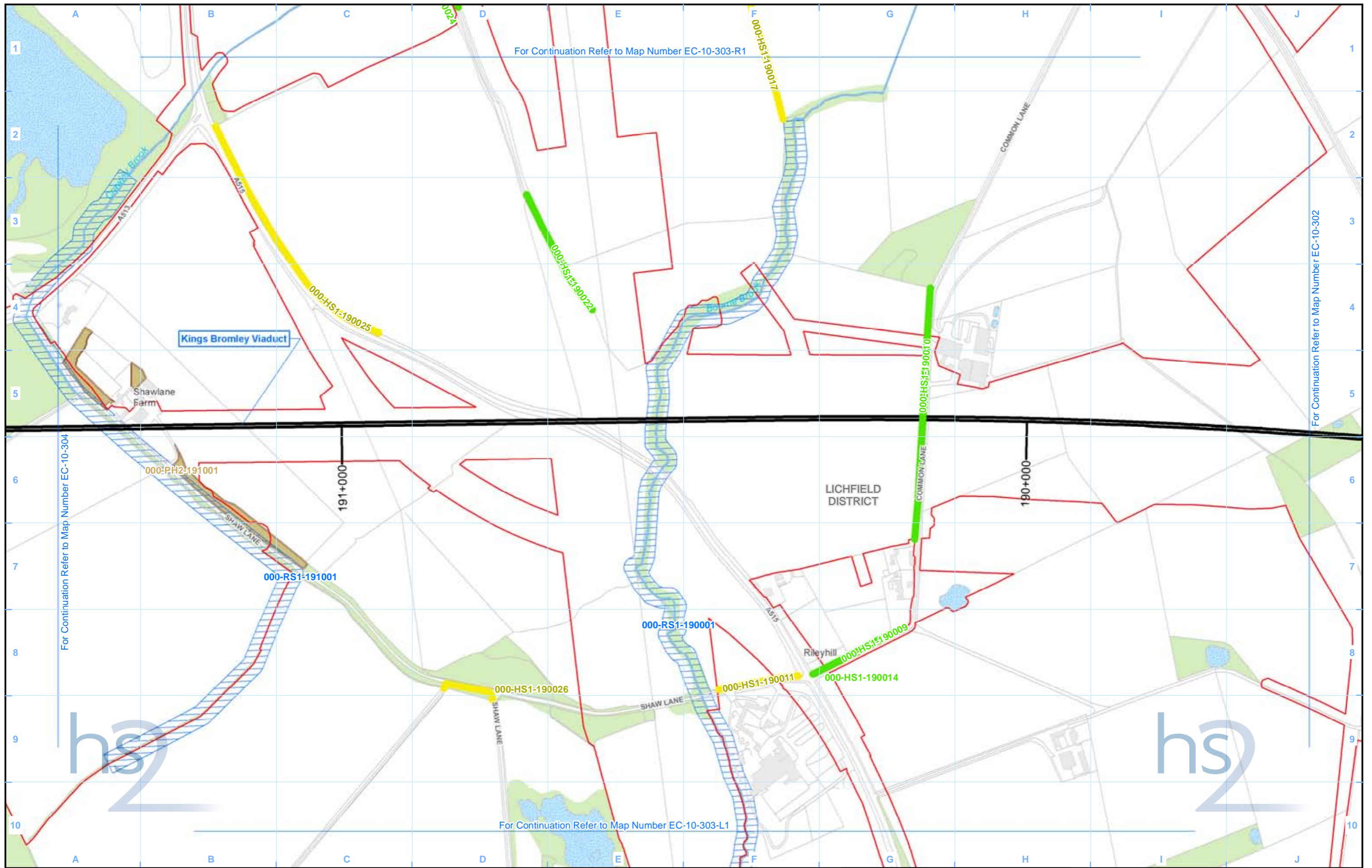
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For Continuation Refer to Map Number EC-10-302

For Continuation Refer to Map Number EC-10-304

For Continuation Refer to Map Number EC-10-303-L1

| 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-10-303              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |

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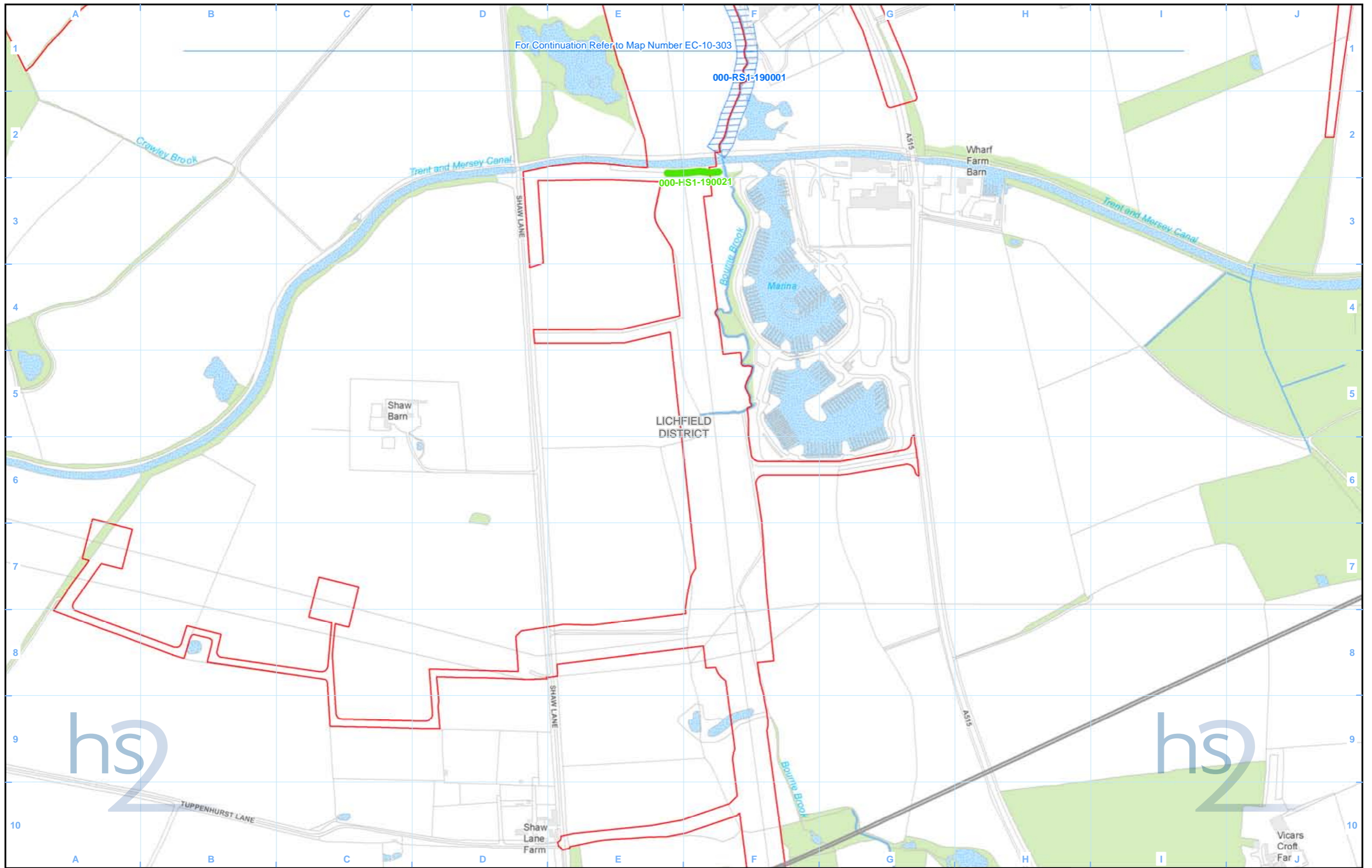
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For Continuation Refer to Map Number EC-10-303

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000-HS1-190021

LICHFIELD DISTRICT



| Legend |             |  |                              |
|--------|-------------|--|------------------------------|
|        | Watercourse | National Vegetation Classification survey      | River corridor survey extent |
|        | Water body  | Ditch vegetation survey                        | River habitat survey extent  |
|        | Woodland    | 'Important' hedgerow confirmed by field survey | Lake habitat                 |
|        |             | Possible 'Important' hedgerow                  |                              |
|        |             | - no access available for survey               |                              |
|        |             |  |                              |

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-303-L1           |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |

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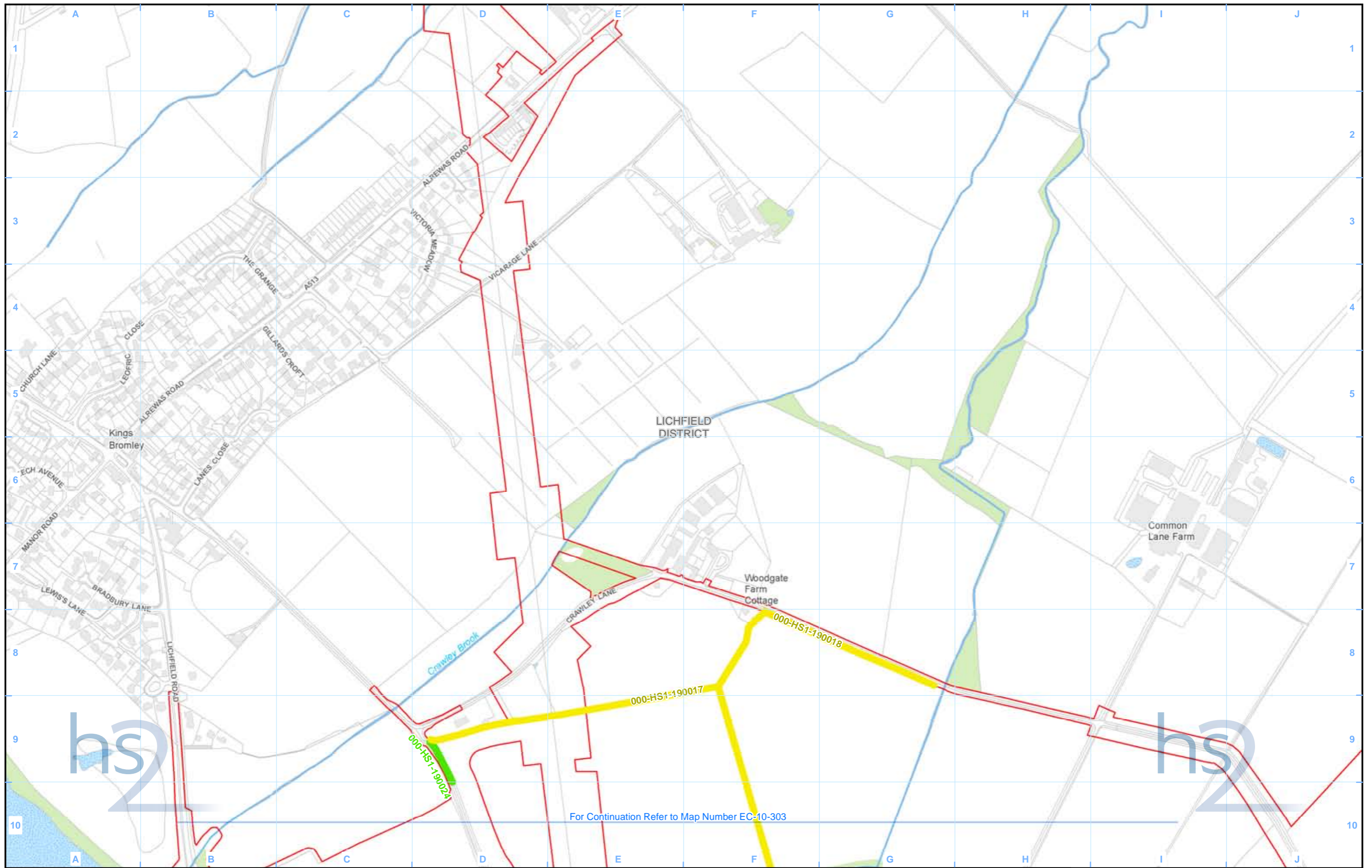
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- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat

For Continuation Refer to Map Number EC-10-303

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-303-R1           |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |

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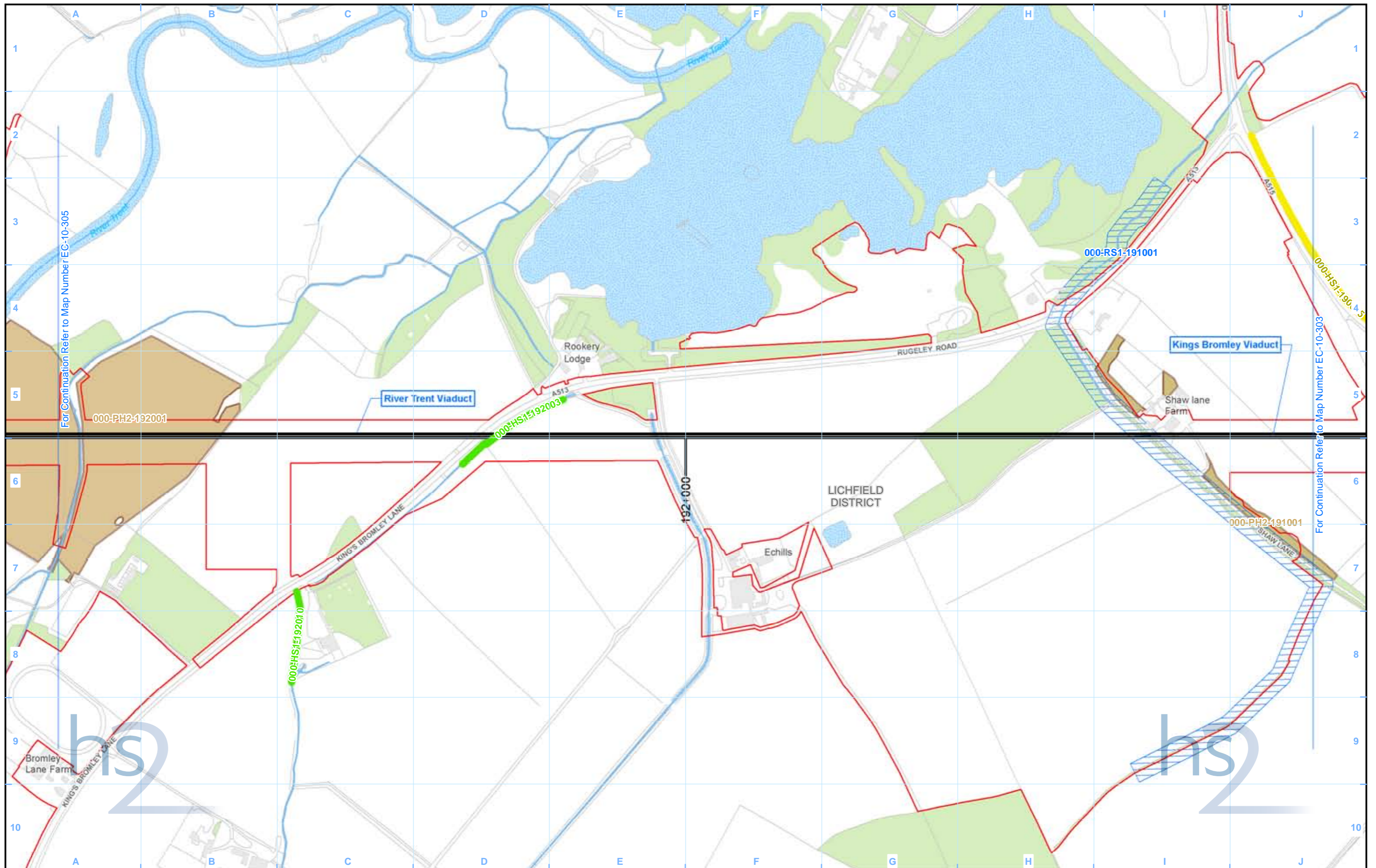
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building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

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-304              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |


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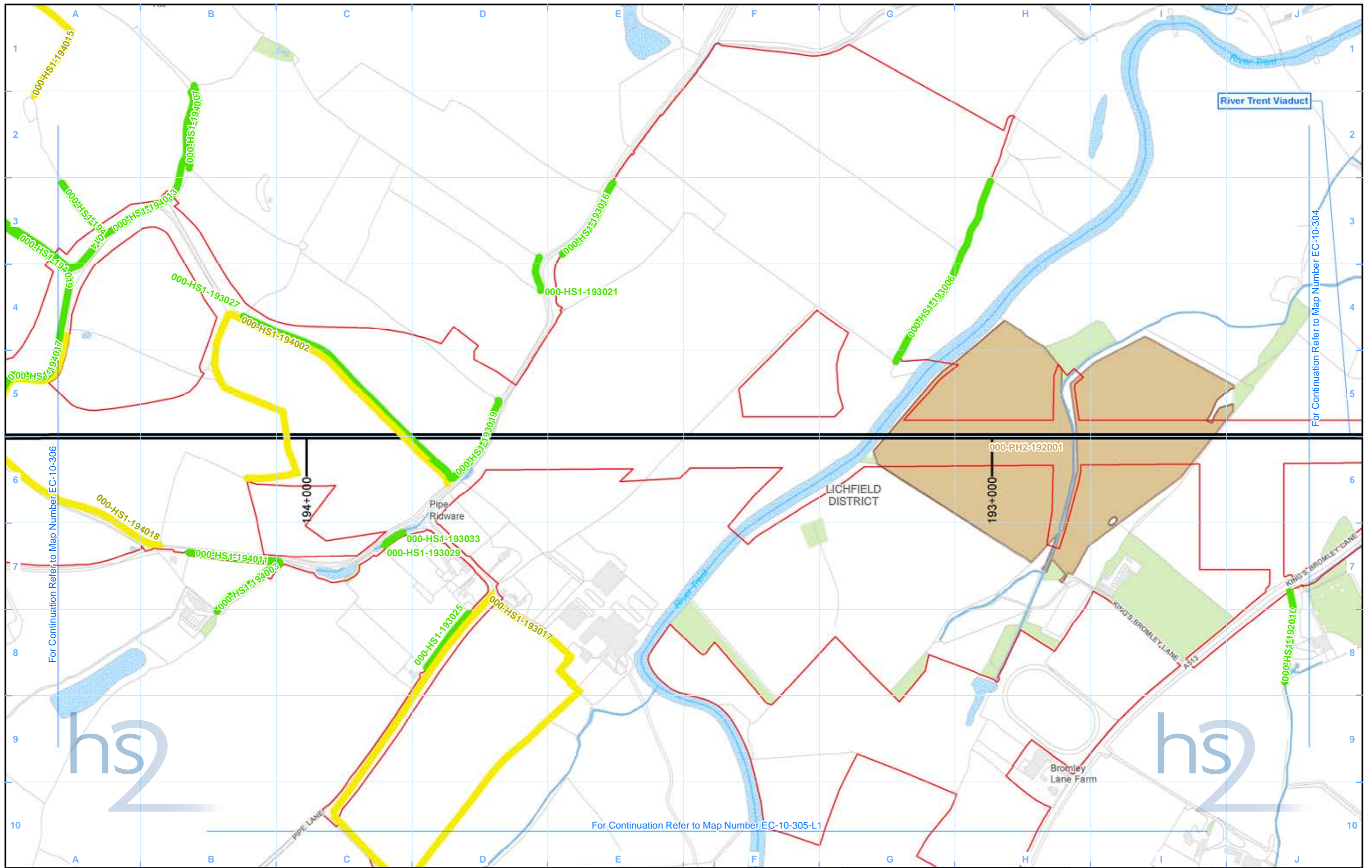
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**Legend**

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

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat

Map Number  
**EC-10-305**

Map Name  
**Phase 2 Habitat Survey**

Community Area 1:  
**Fradley to Colton**

**hs2**

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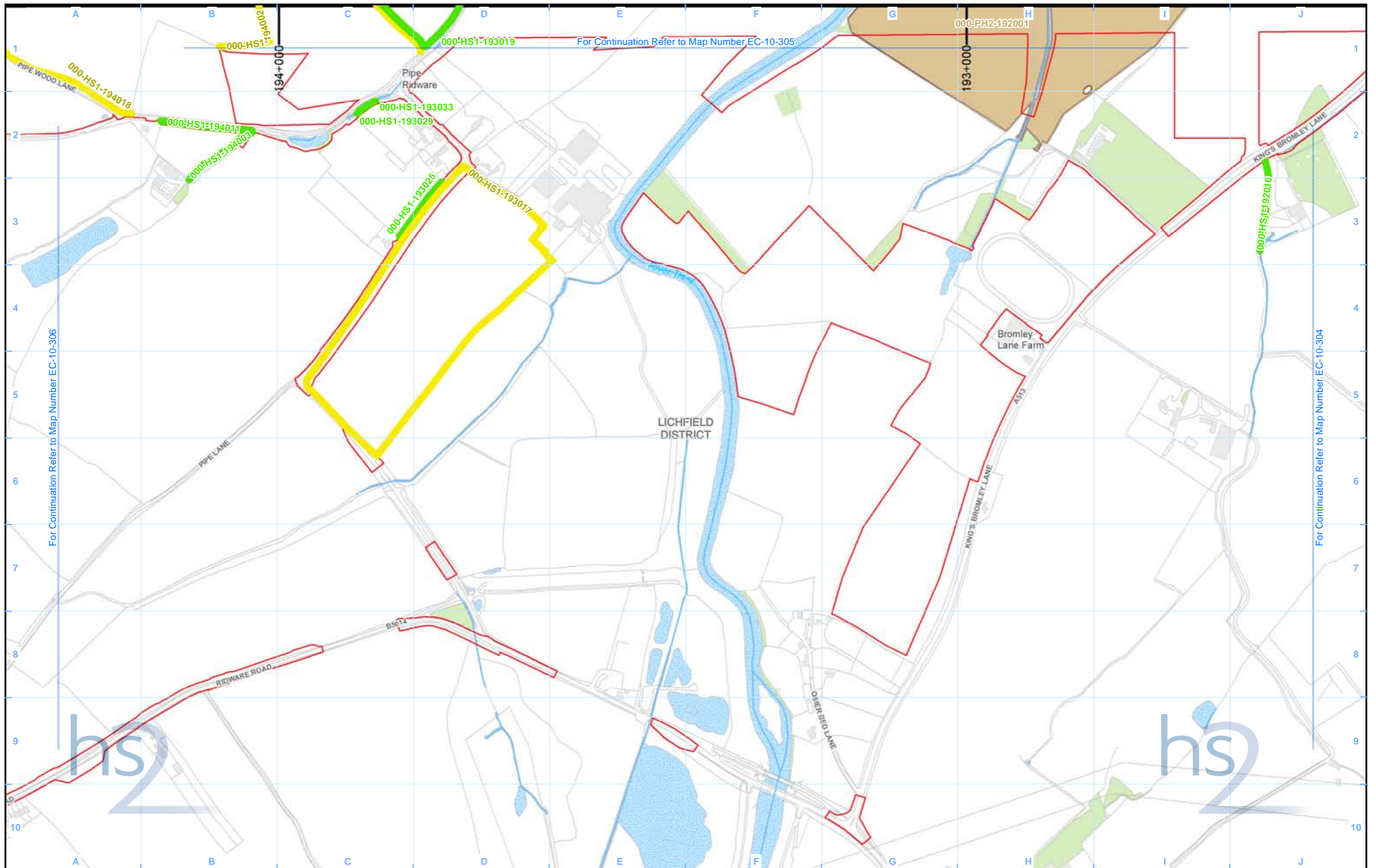
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Date: 14/06/17



| 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-10-305-L1           |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |

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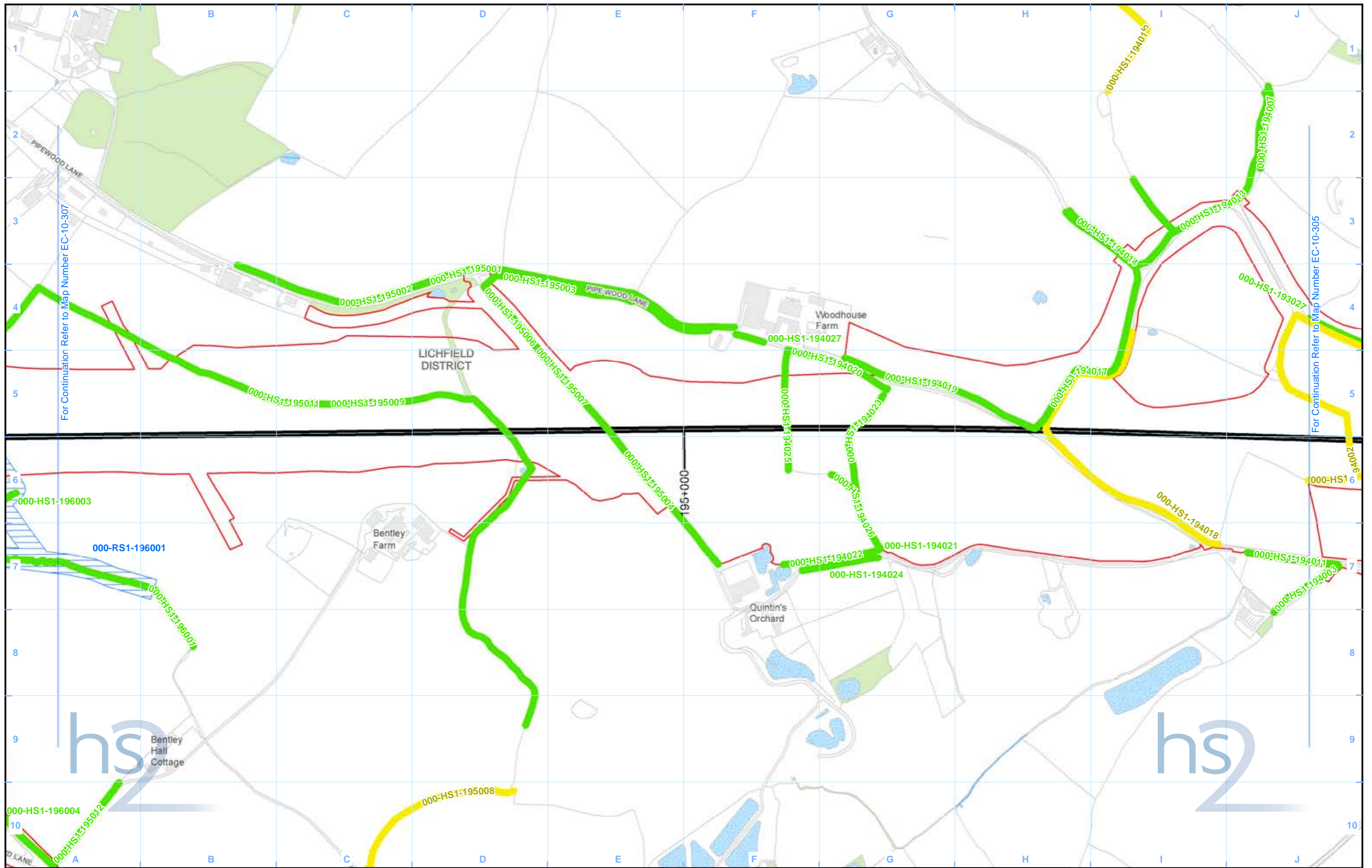
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For Continuation Refer to Map Number EC-10-305

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

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-306              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |

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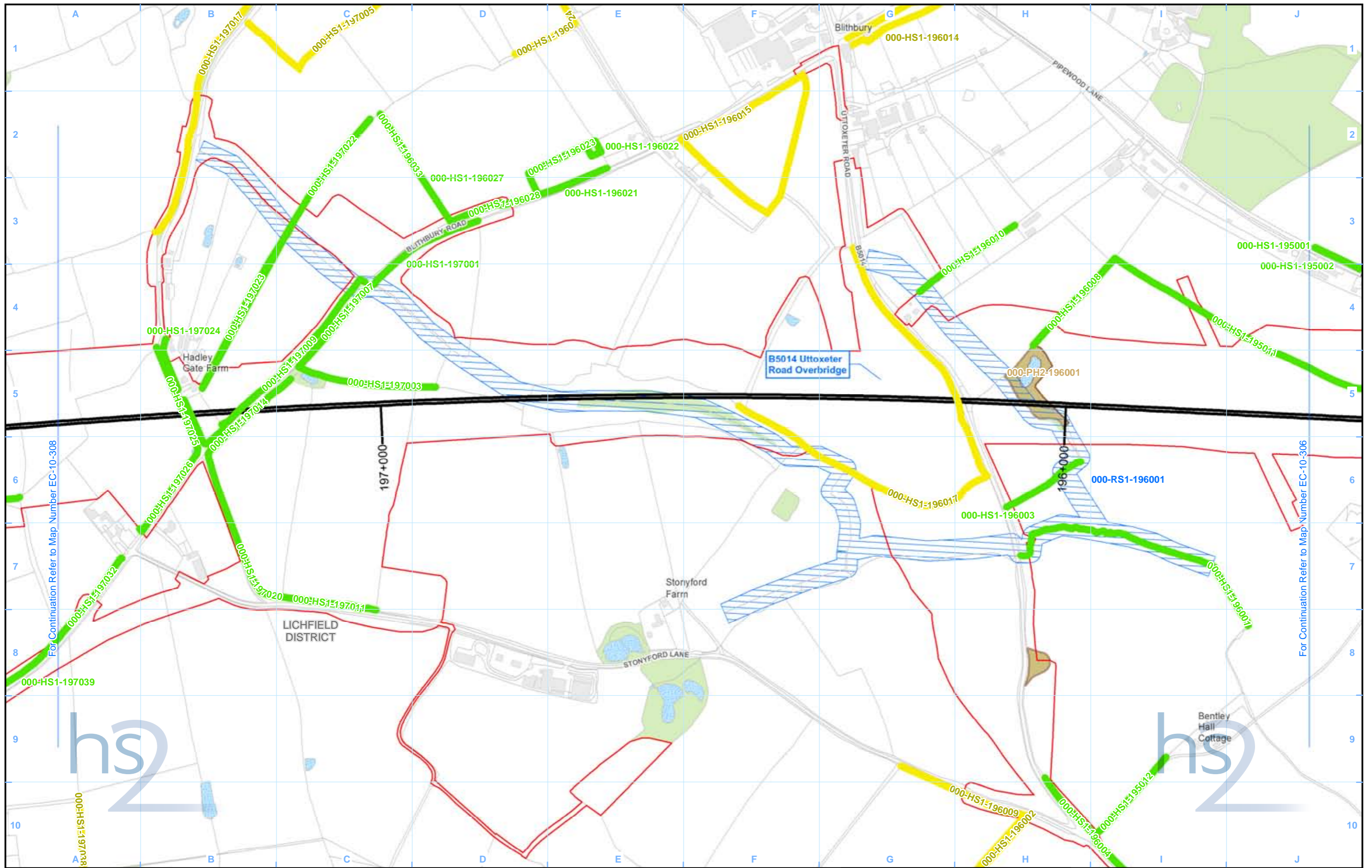
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Metres

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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
- District/Borough boundary

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'important' hedgerow - no access available for survey
- River corridor survey extent
- River habitat survey extent
- Lake habitat

Map Number: EC-10-307

Map Name: Phase 2 Habitat Survey

Community Area 1: Fradley to Colton

hs2

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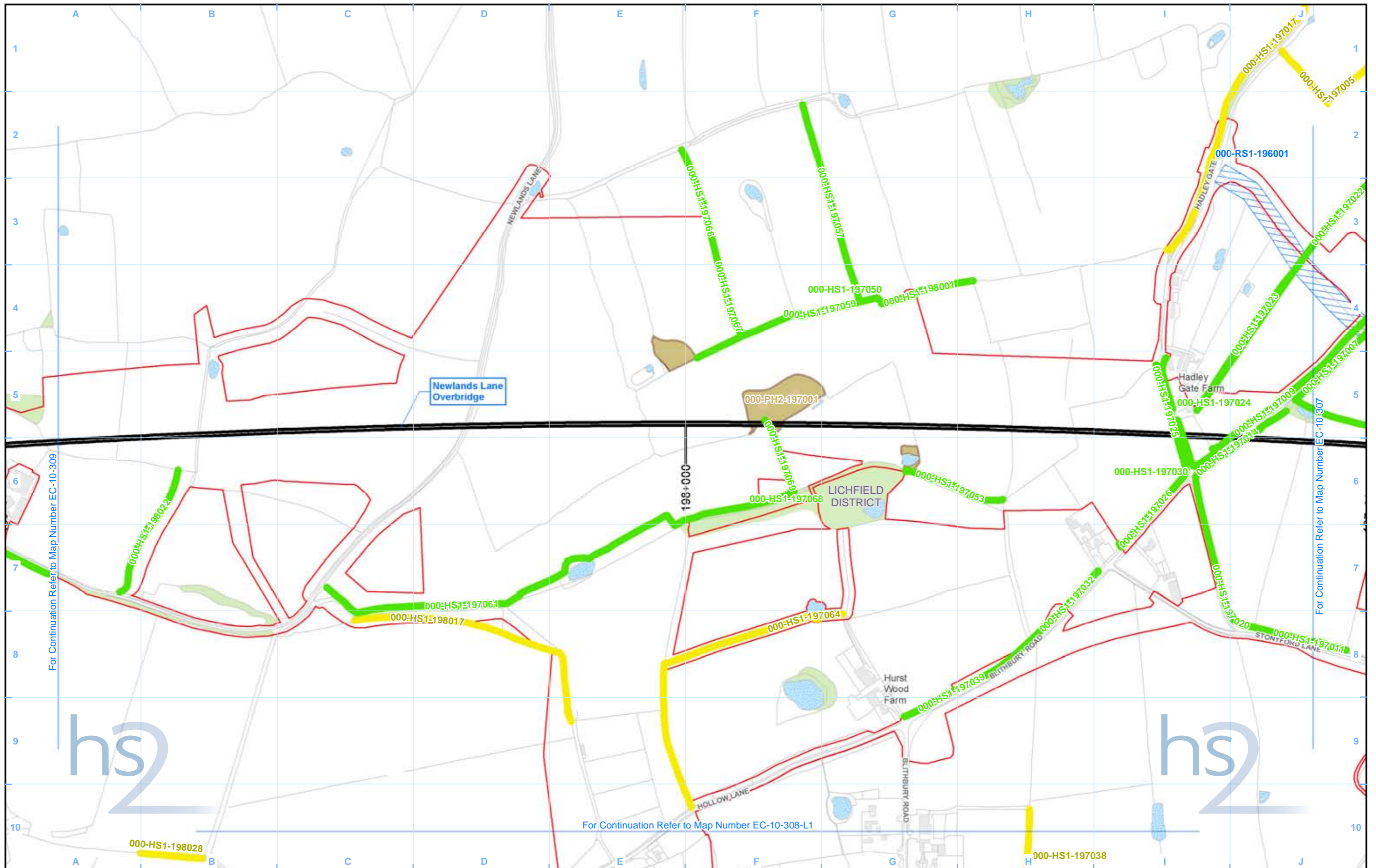
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Doc Number: C861-ARP-EV-MAP-000-080307-P03

Date: 14/06/17

For Continuation Refer to Map Number EC-10-308

For Continuation Refer to Map Number EC-10-306



**Legend**

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

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat

Map Number  
**EC-10-308**

Map Name  
**Phase 2 Habitat Survey**

Community Area 1:  
**Fradley to Colton**

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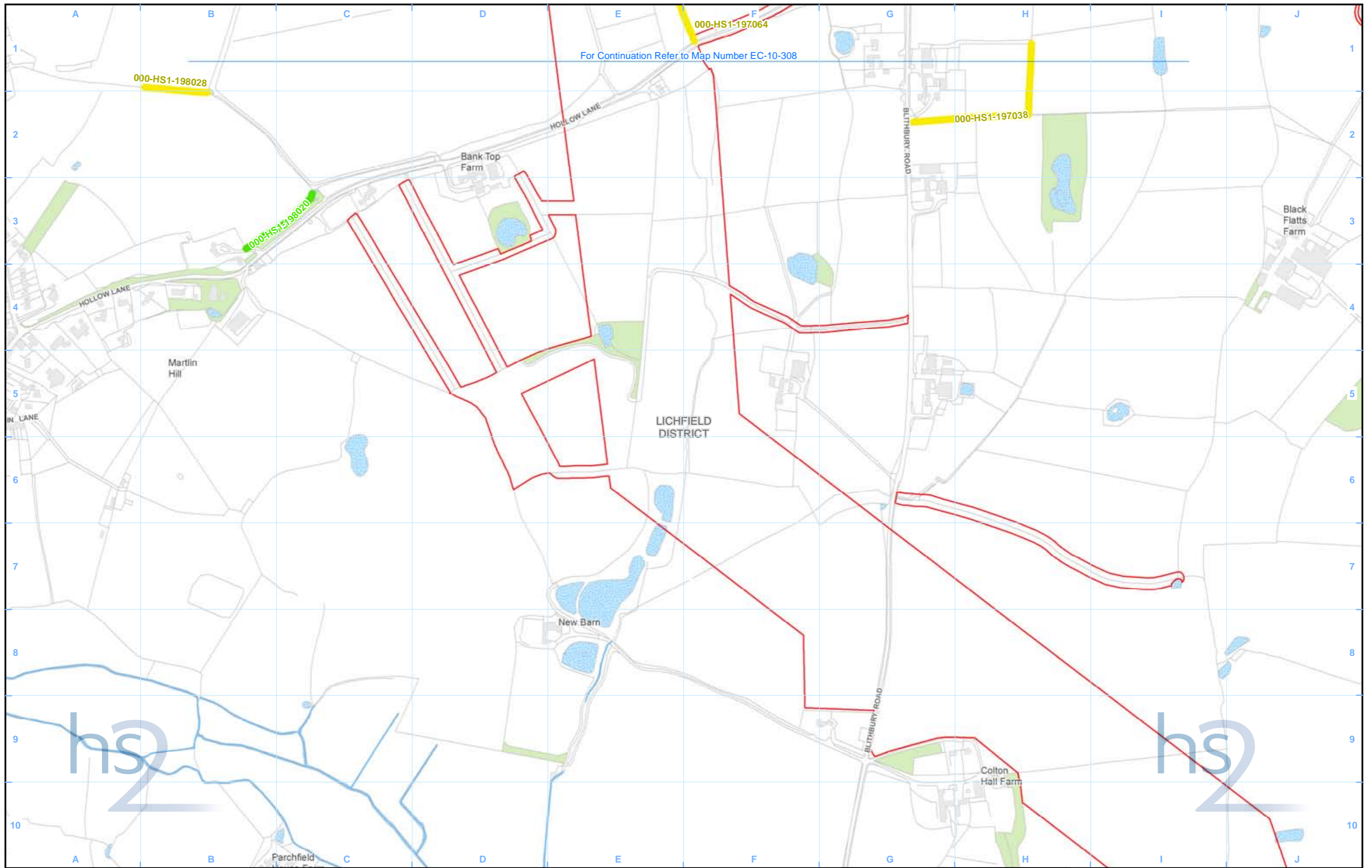
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0 50 100 150 200  
Metres

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Date: 14/06/17



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

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-308-L1           |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |

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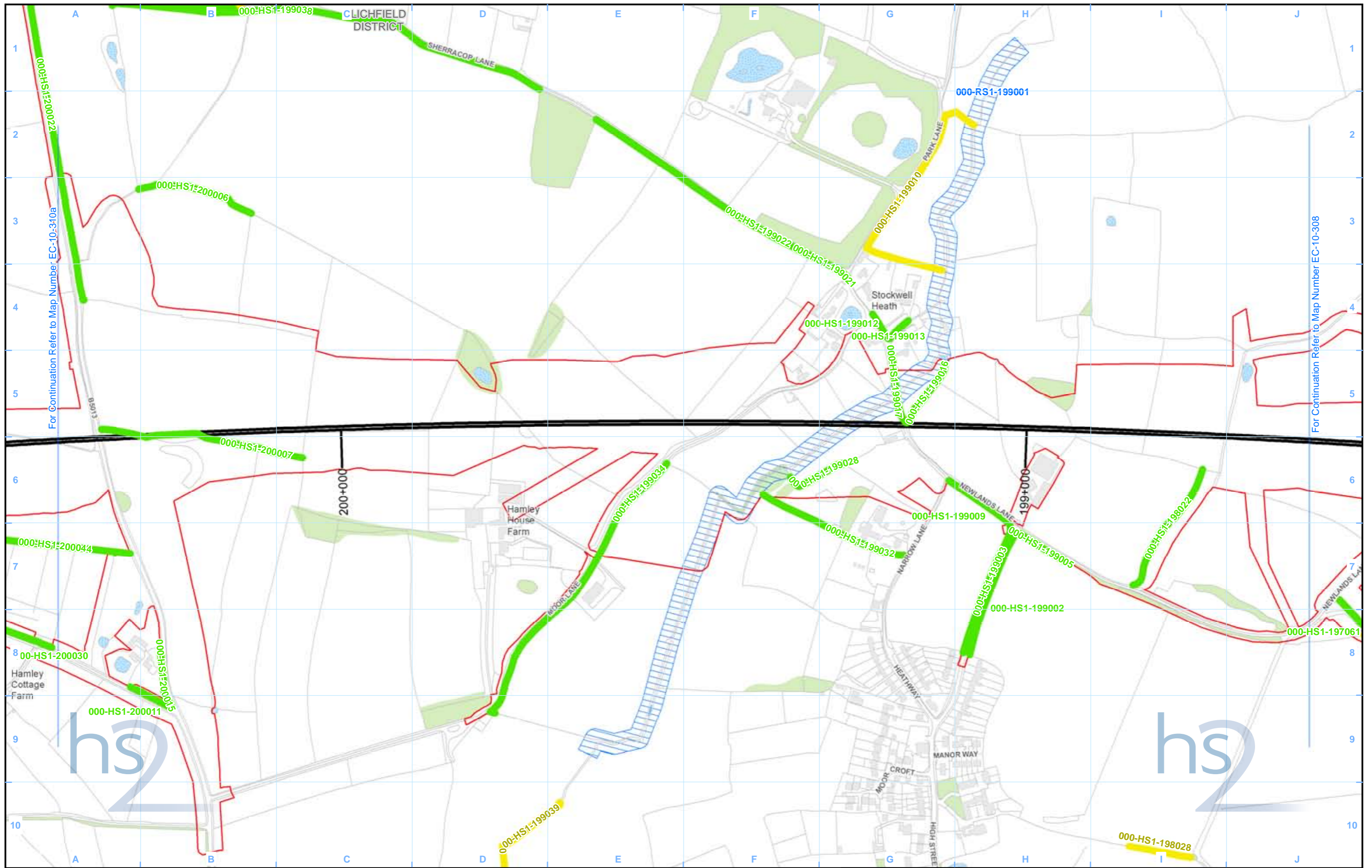
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For Continuation Refer to Map Number EC-10-310a

For Continuation Refer to Map Number EC-10-308

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

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-309              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |

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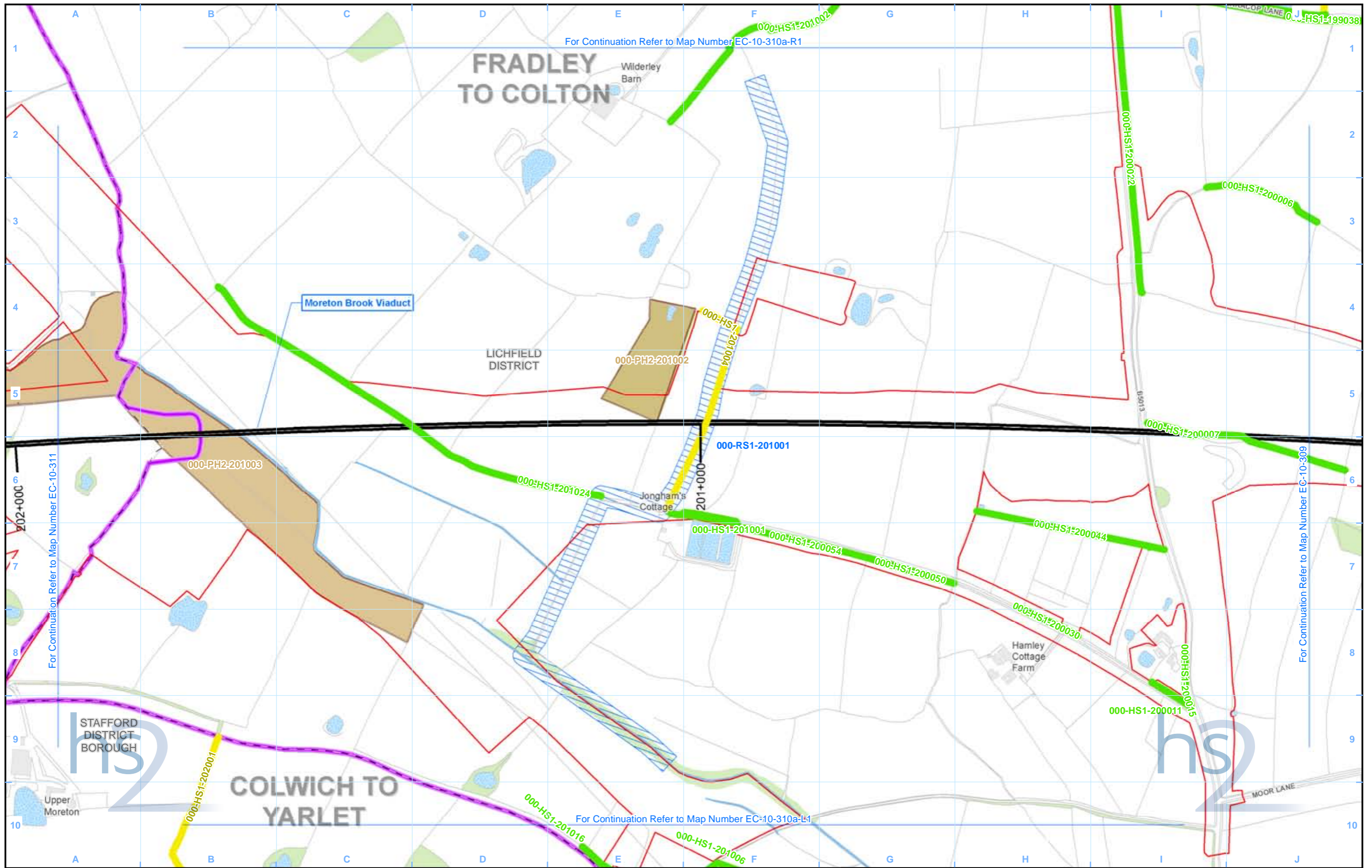
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building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

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-310a             |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |

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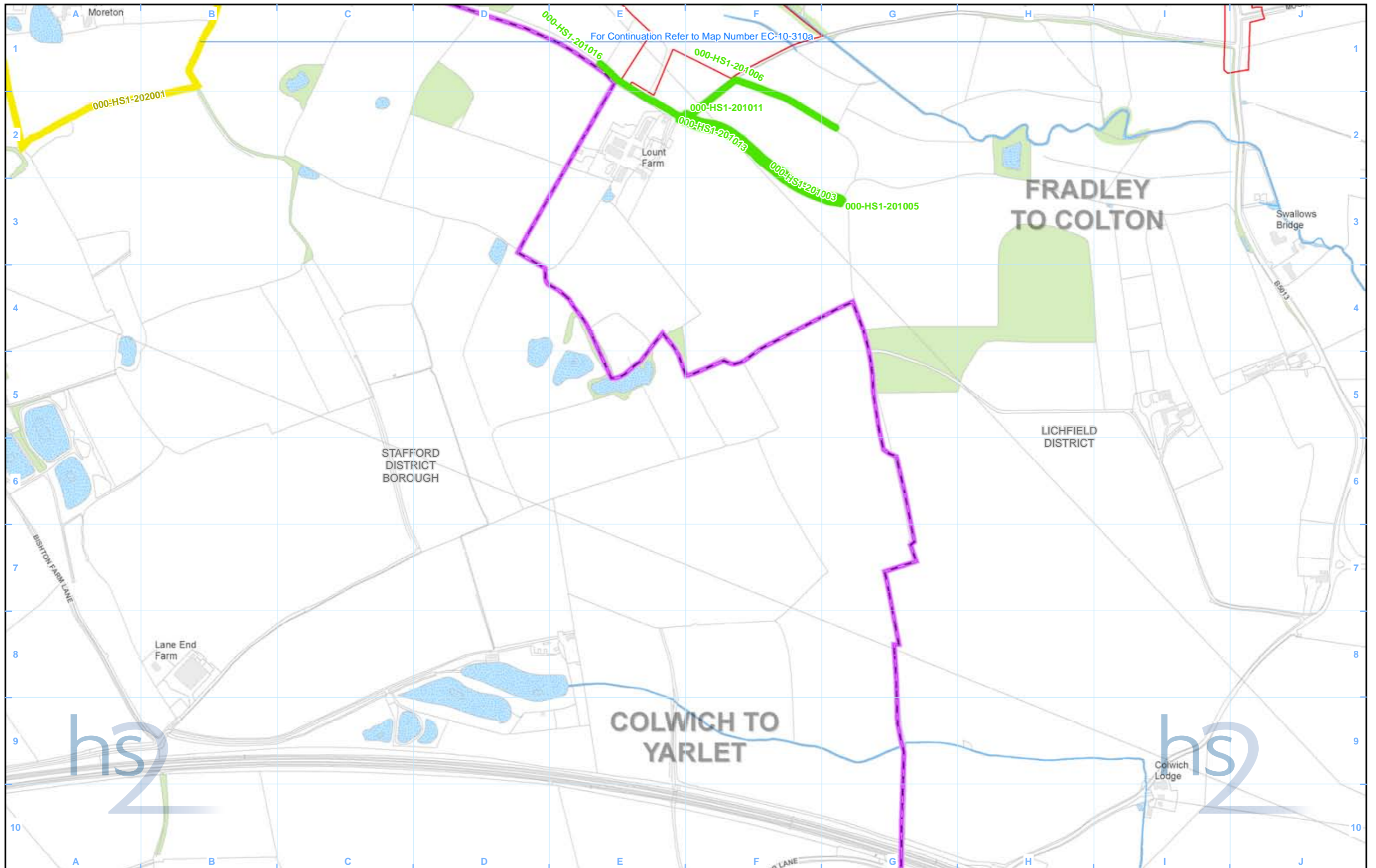
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# FRADLEY TO COLTON

STAFFORD DISTRICT BOROUGH

LICHFIELD DISTRICT

# COLWICH TO YARLET


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

- Watercourse
- Water body
- Woodland

- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat


|  |                        |
|--|------------------------|
| Map Number                             | EC-10-310a-L1          |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 1:<br>Fradley to Colton |                        |




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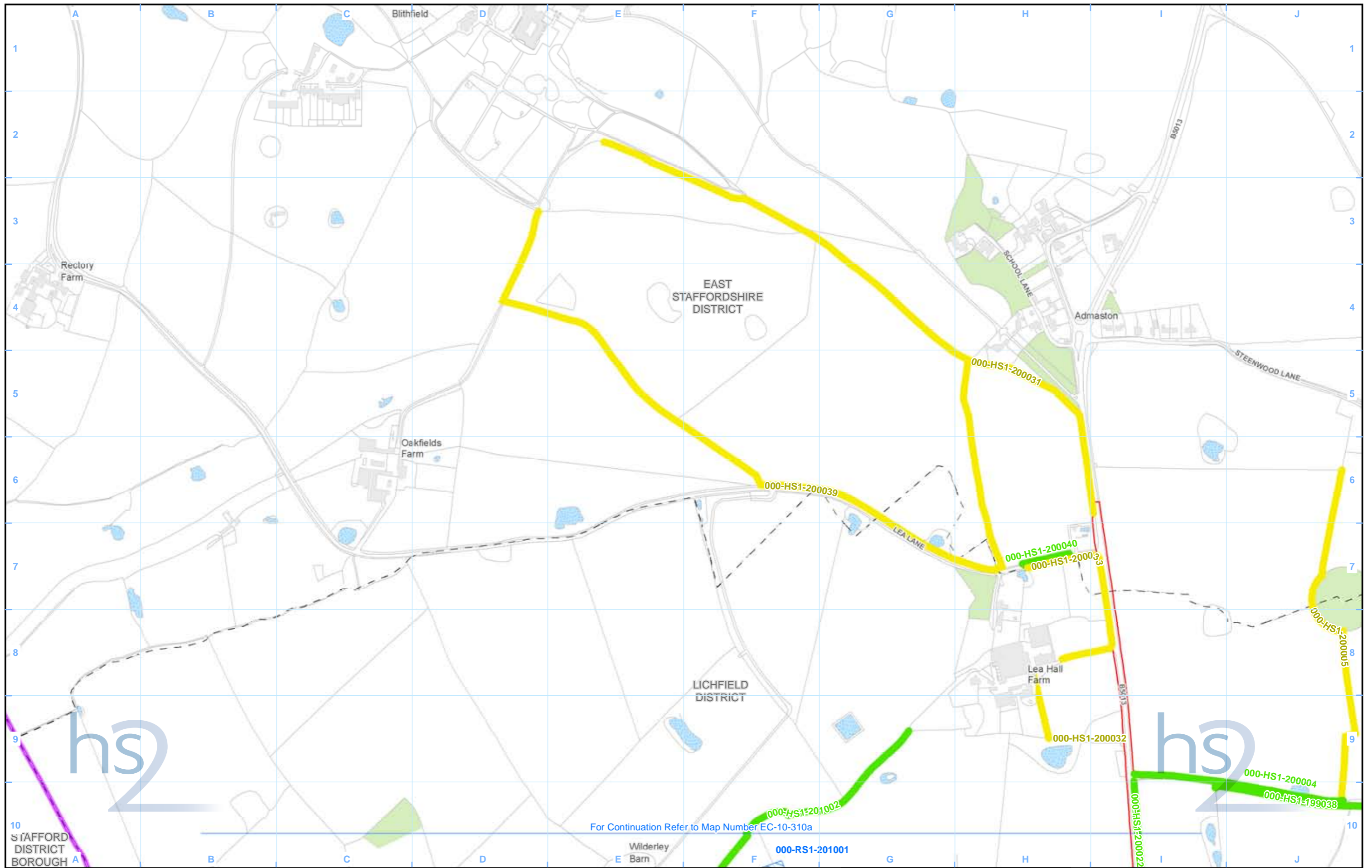


Scale at A3: 1:5,000



Metres

Date: 14/06/17



10  
STAFFORD  
DISTRICT  
BOROUGH

|  |             |  |  |
|--|-------------|--|--|
|  | Watercourse |  |  |
|  |             |  |  |
|  |             |  |  |
|  |             |  |  |
|  |             |  |  |
|  |             |  |  |

Map Number  
**EC-10-310a-R1**

Map Name  
**Phase 2 Habitat Survey**

Community Area 1:  
**Fradley to Colton**

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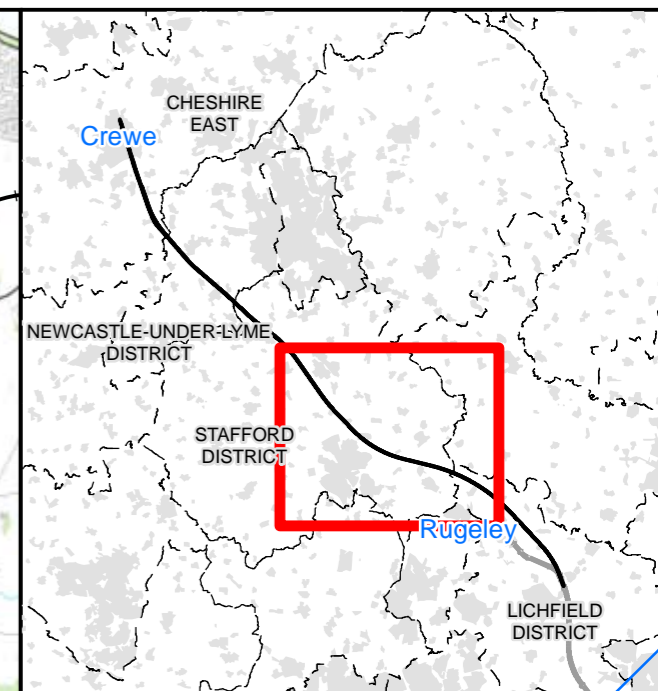
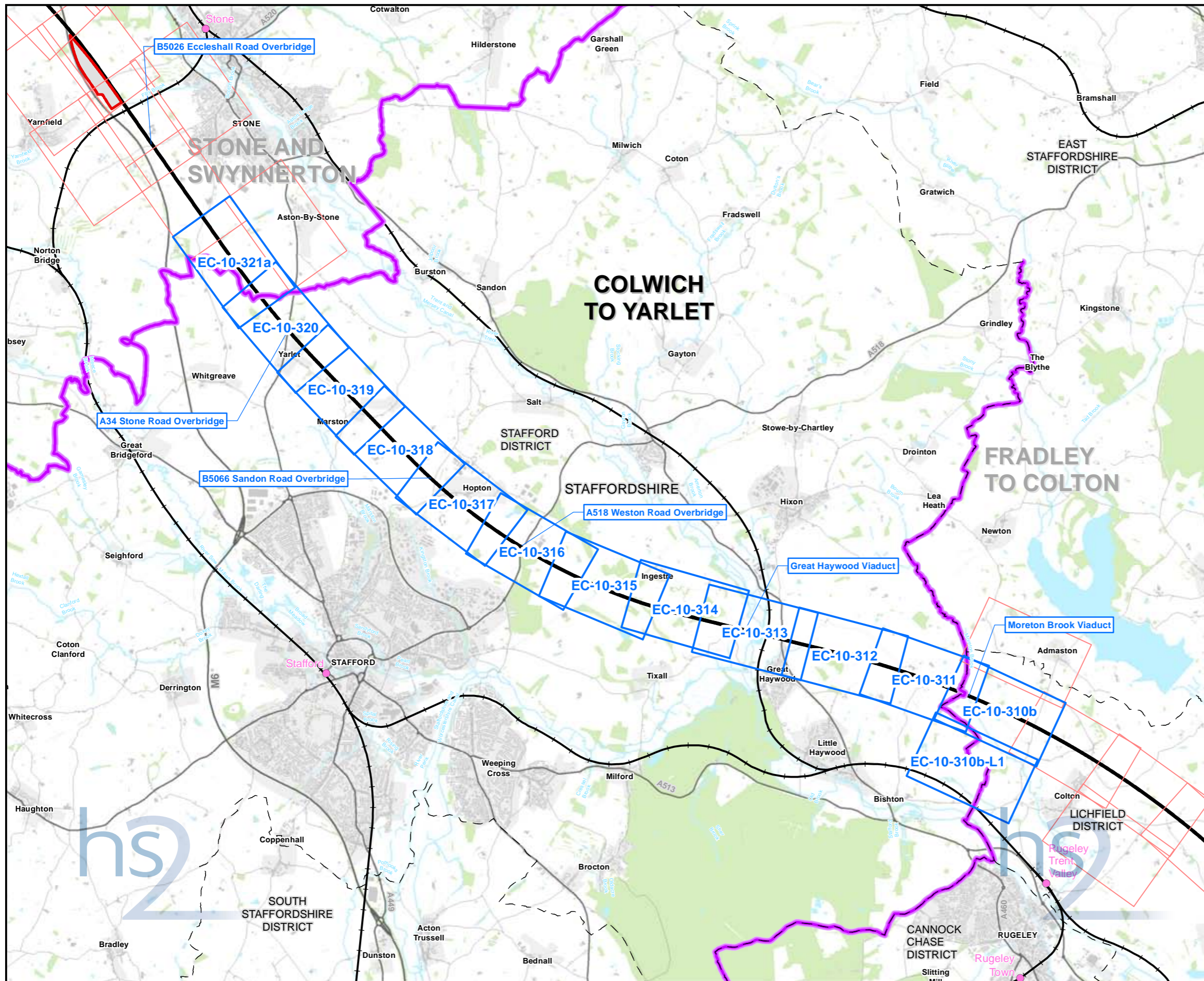
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**Map Series Information:**

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

Map Number: EC-10-INDEX-CA2

Map Name: Index Map of:  
Phase 2 Habitat Survey

Community Area 2:  
Colwich to Yarlet

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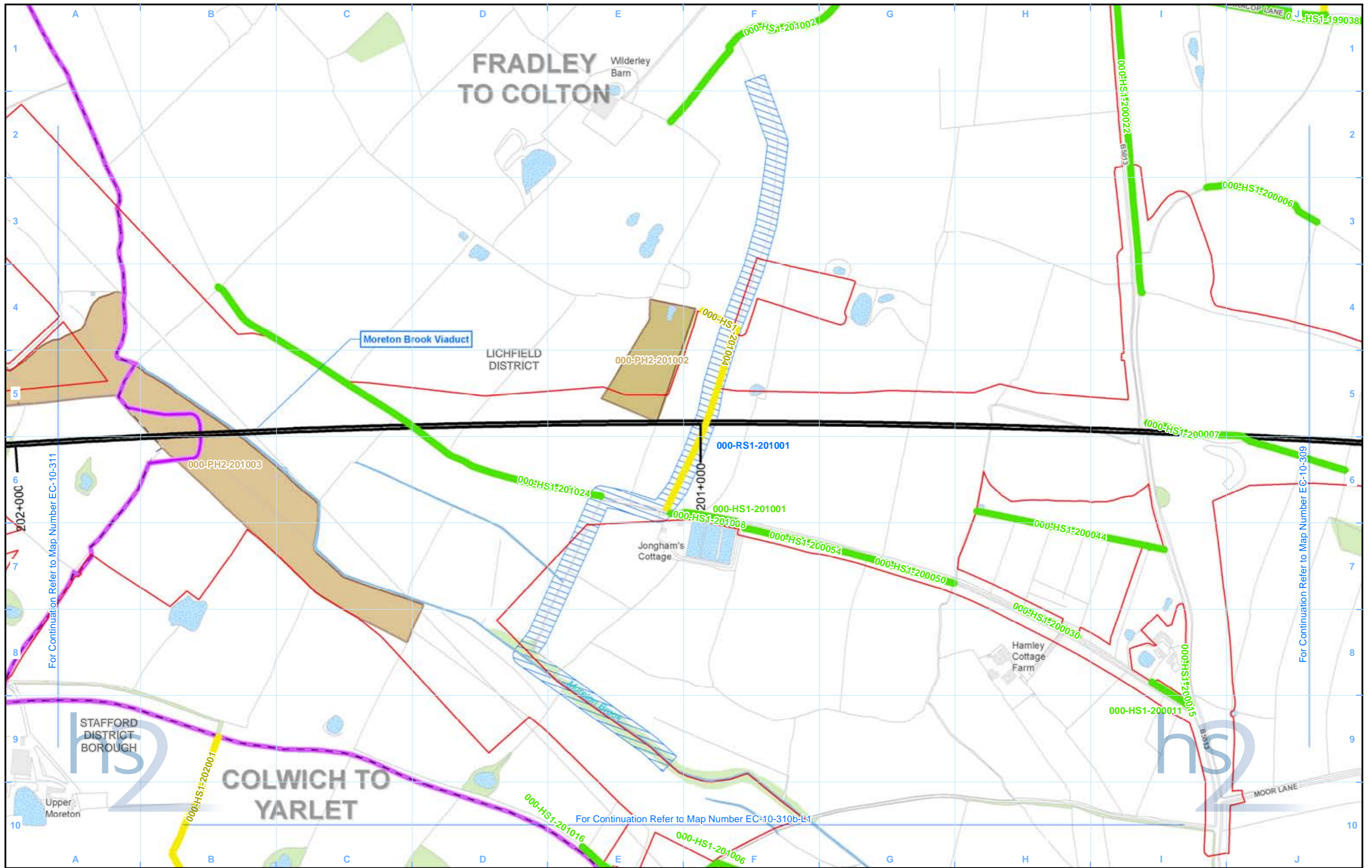
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**Legend**

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

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat

Map Number  
**EC-10-310b**

Map Name  
**Phase 2 Habitat Survey**

Community Area 2:  
Colwich to Yarlet

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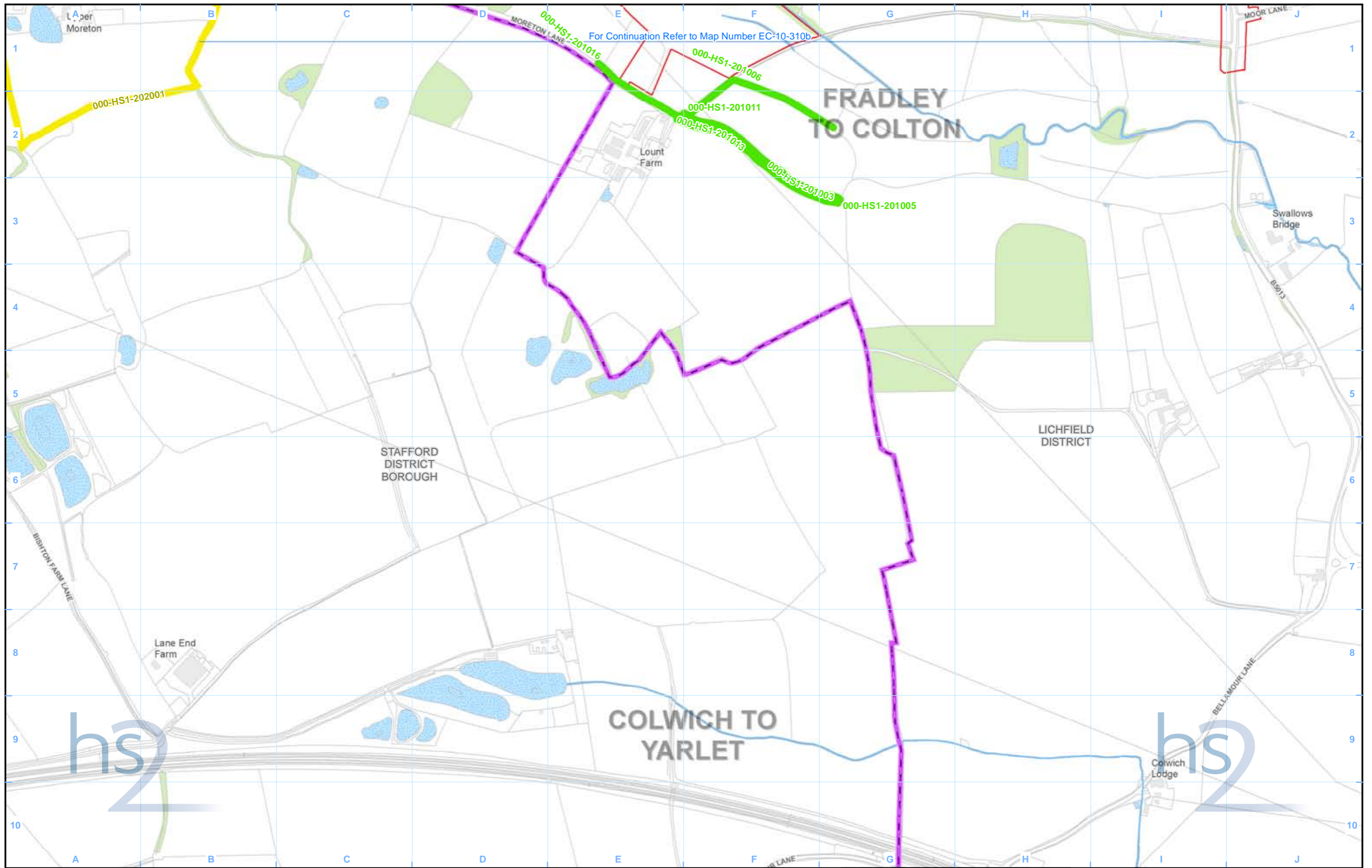
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | National Vegetation Classification survey                      |
|        | Route on surface                              |  | Ditch vegetation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

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-310b-L1          |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |

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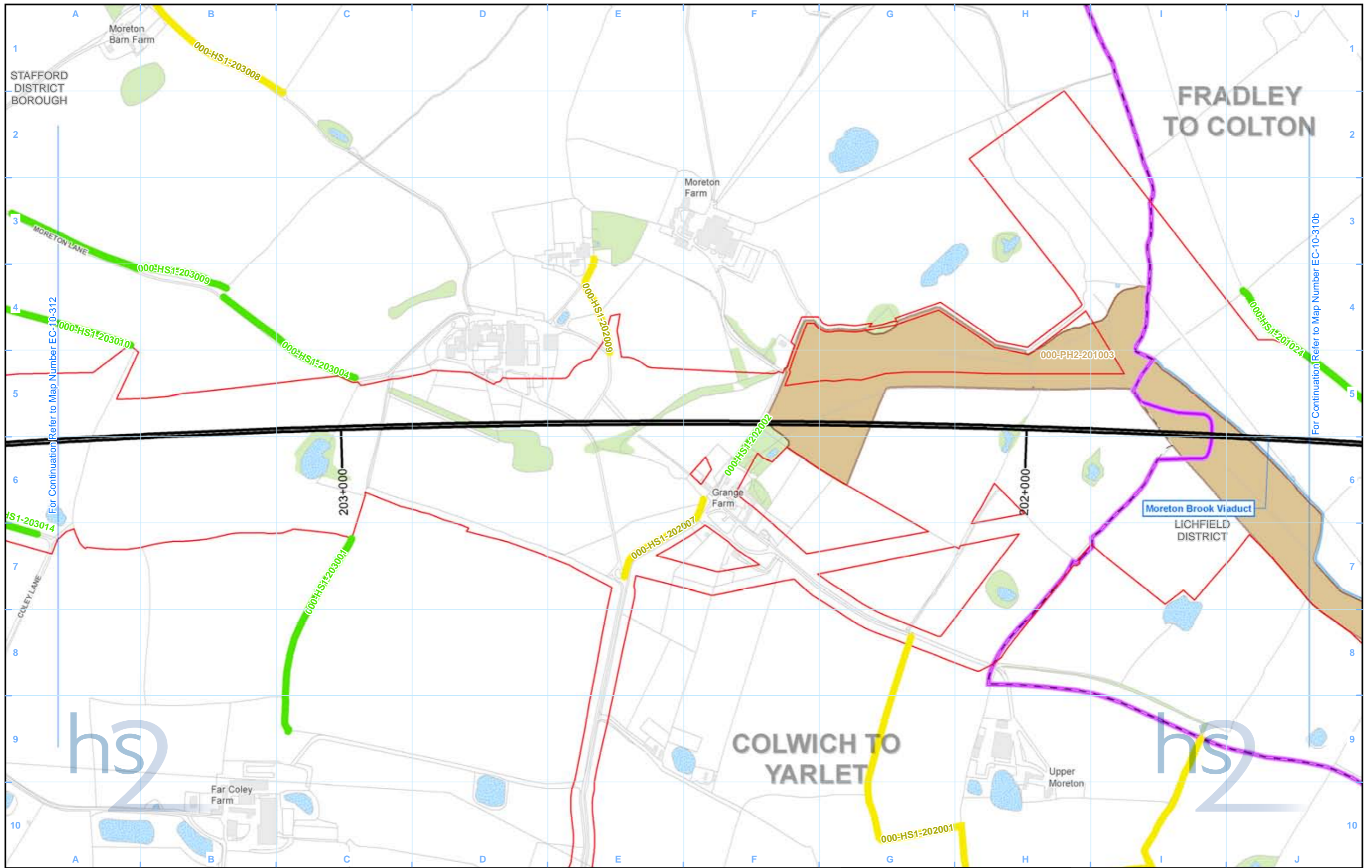
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**Legend**

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

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat

Map Number: EC-10-311

Map Name: Phase 2 Habitat Survey

Community Area 2: Colwich to Yarlet

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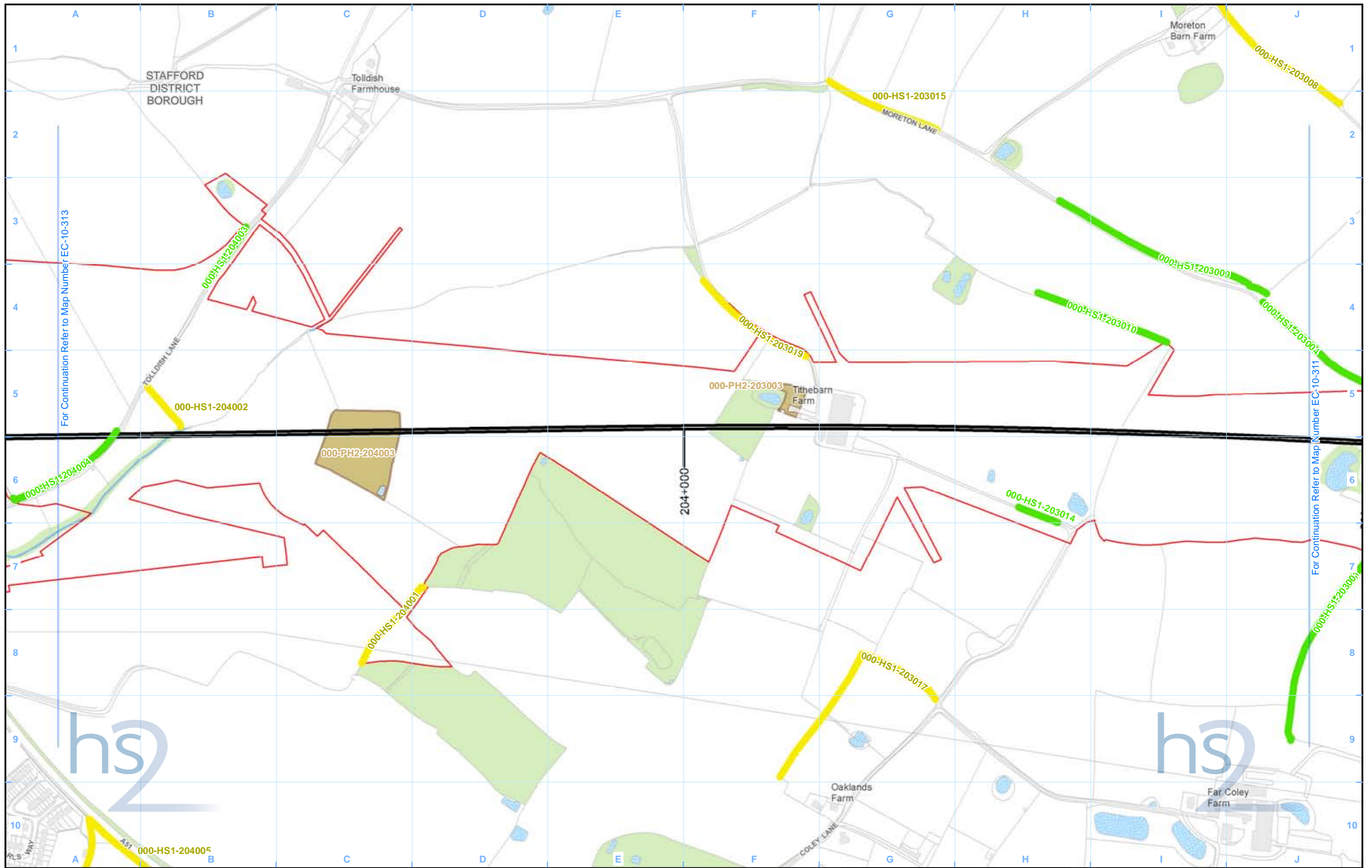
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | 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 |
| Community Area 2:<br>Colwich to Yarlet |                        |

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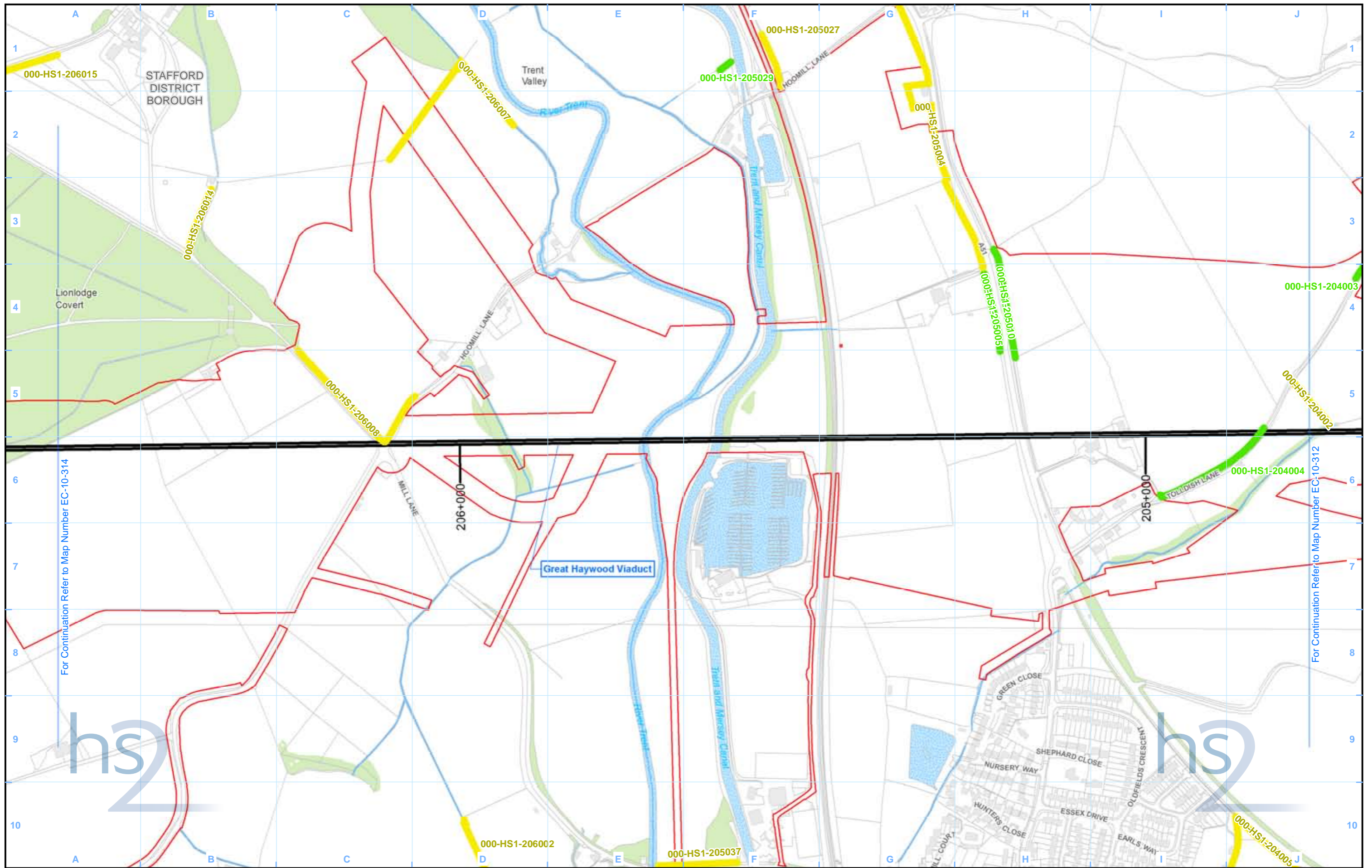
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | 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-10-313              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |

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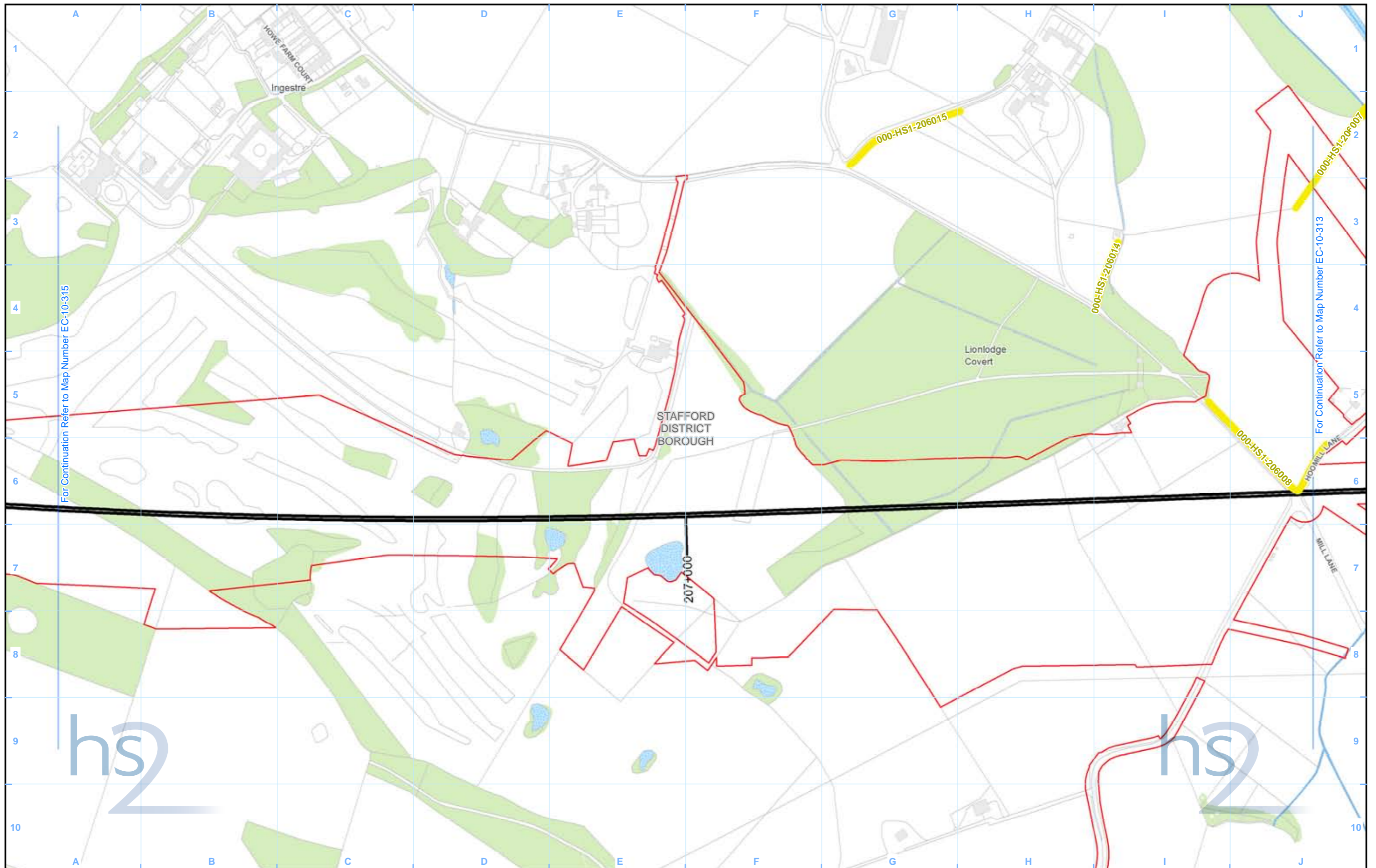
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Date: 14/06/17



| 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-10-314              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |

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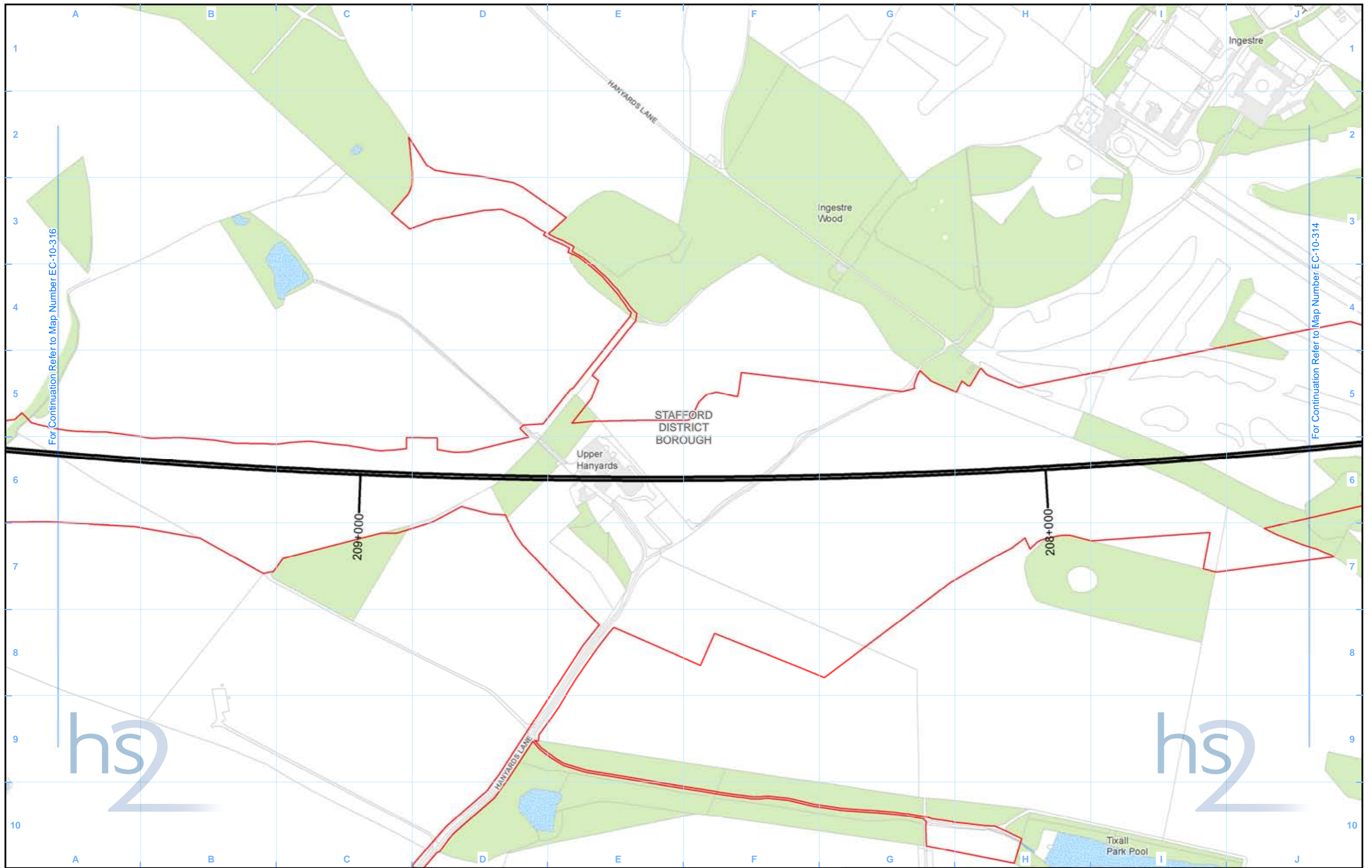
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For Continuation Refer to Map Number EC-10-314

| 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 |             | Possible 'Important' hedgerow                  |                              |
| Community area boundary                       |             | - no access available for survey               |                              |
| District/Borough boundary                     |             |  |                              |

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-315              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |




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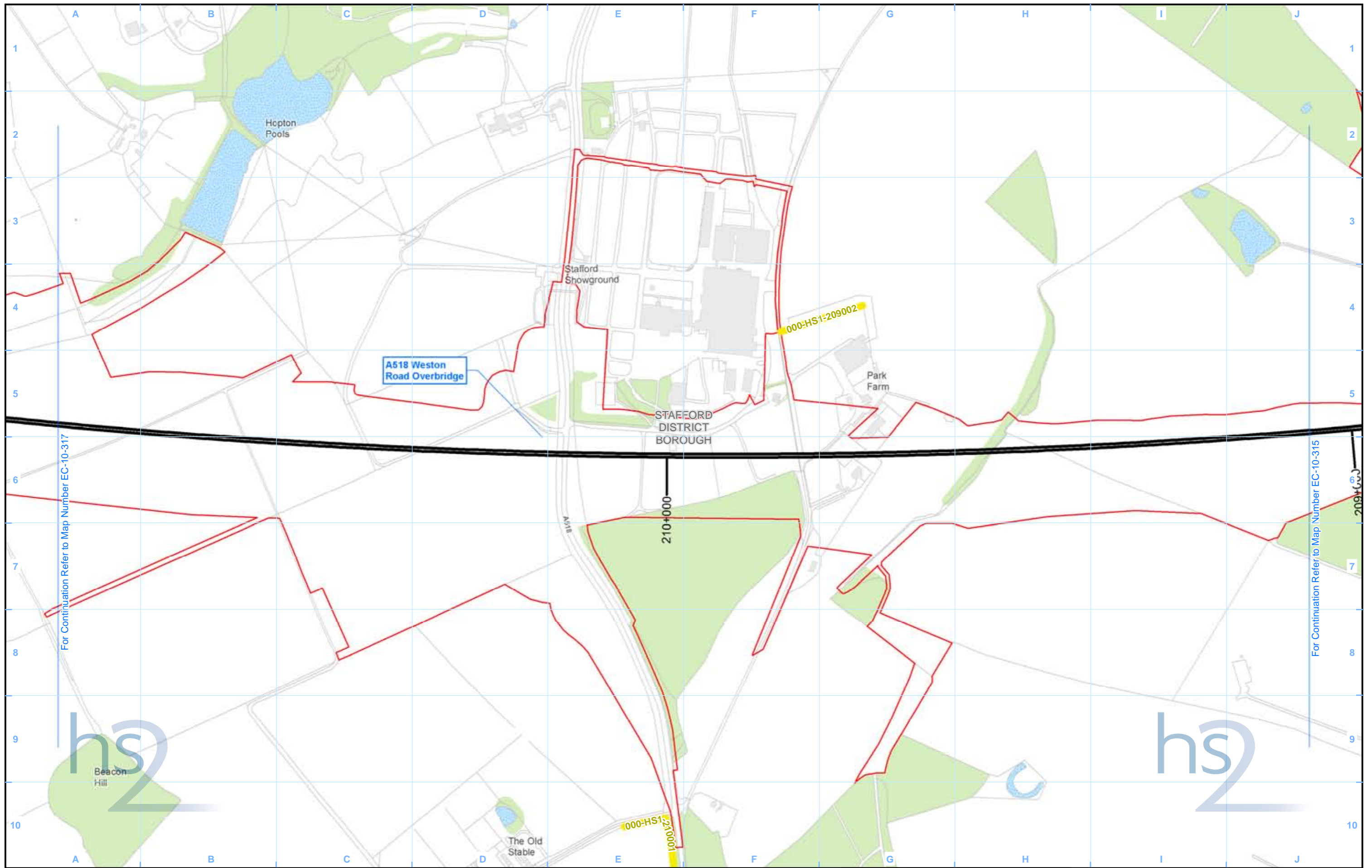


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For Continuation Refer to Map Number EC-10-317

For Continuation Refer to Map Number EC-10-315

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

|  |                        |
|--|------------------------|
| Map Number                             | EC-10-316              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |

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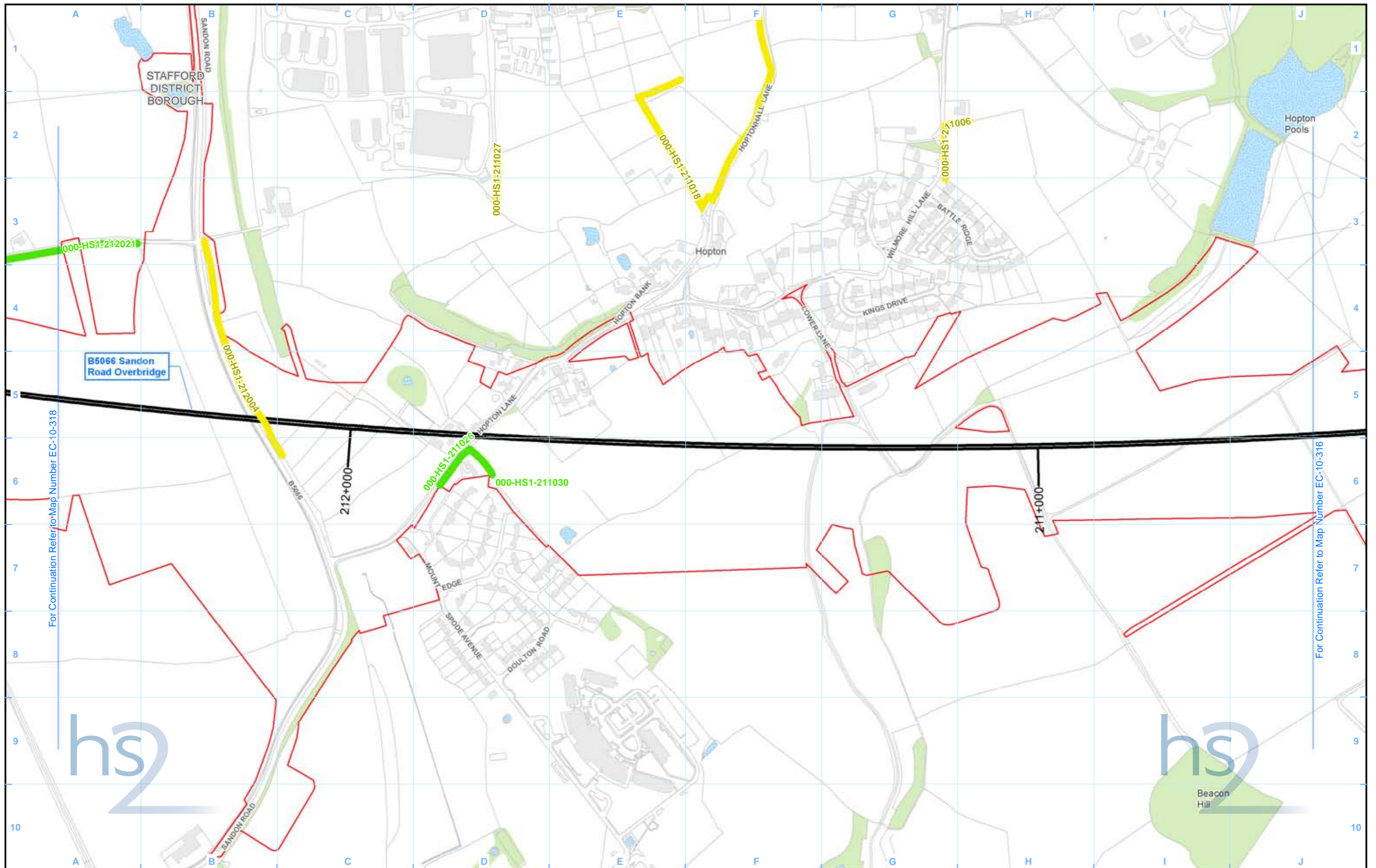
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Metres

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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-10-317              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |

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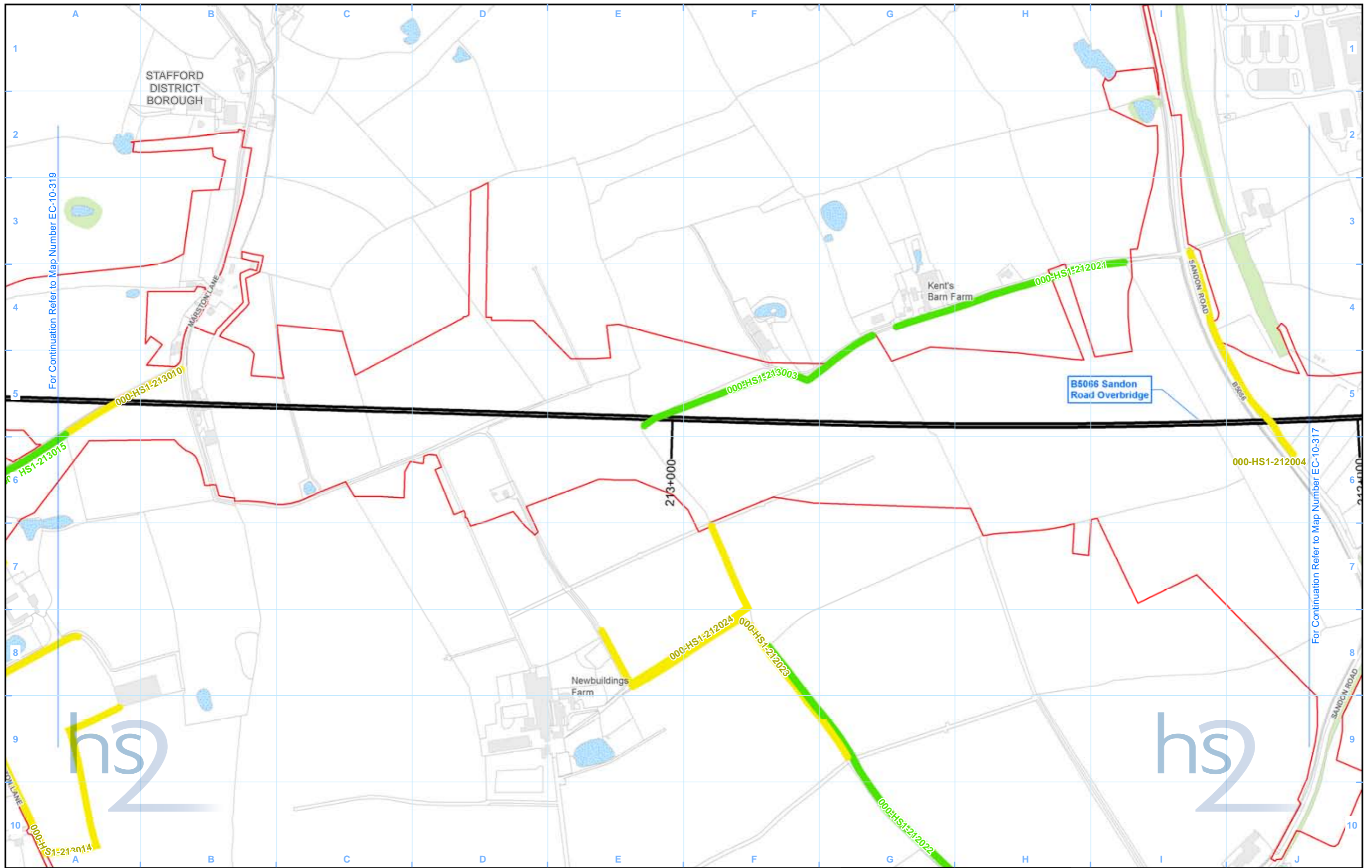
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | 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-10-318              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |

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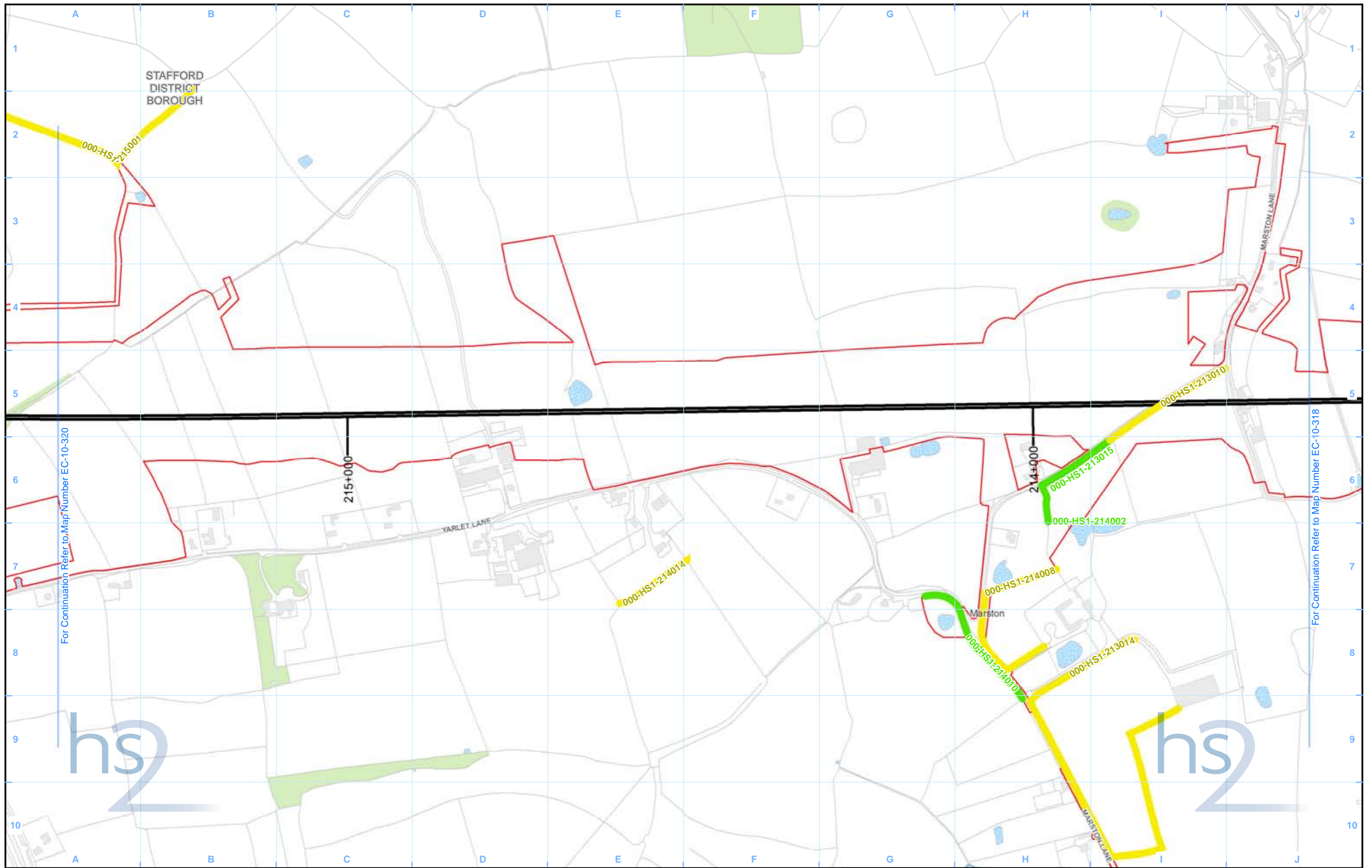
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Metres

Date: 14/06/17

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| Legend |  |  |  |
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|--|------------------------|
| Map Number                             | EC-10-319              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |

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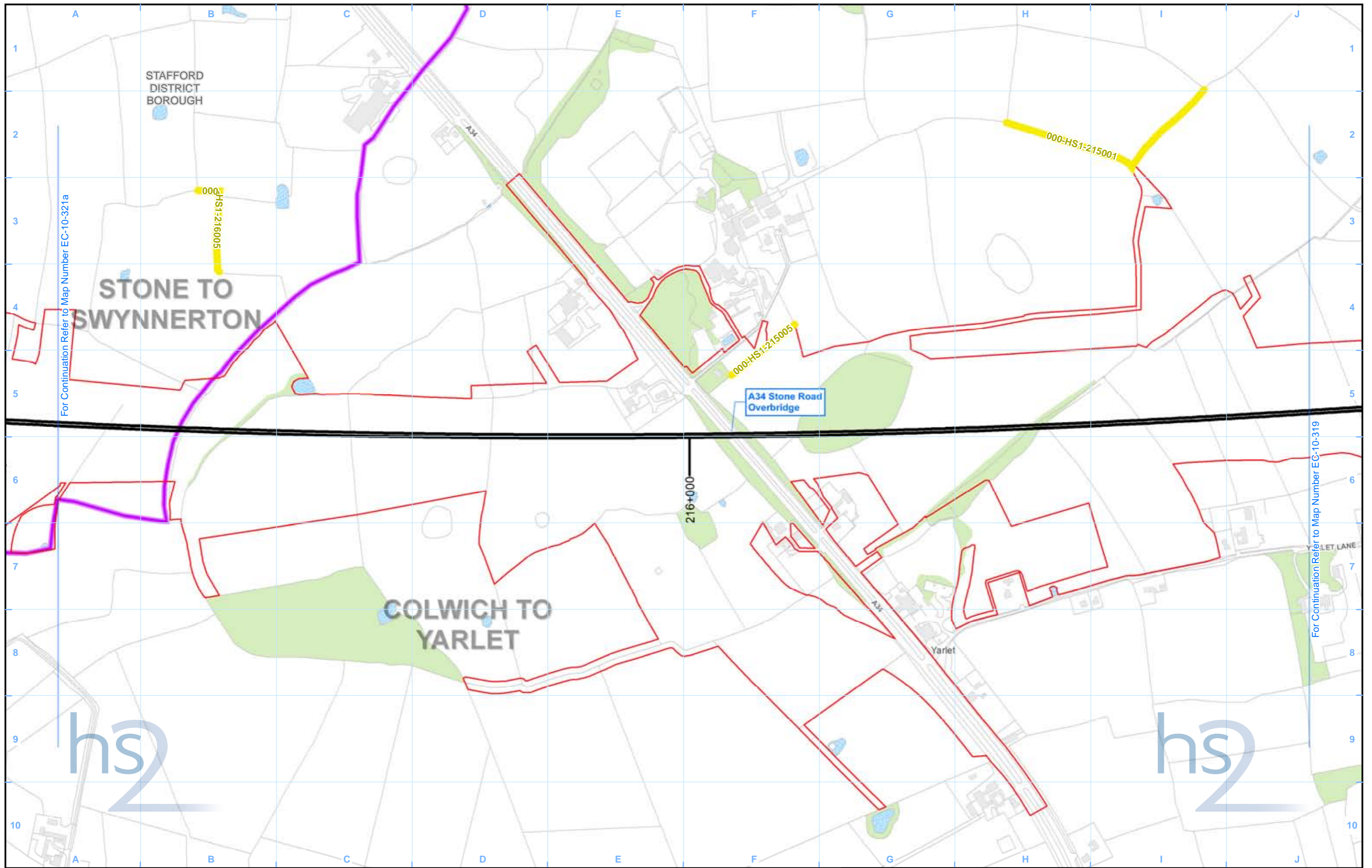
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Date: 14/06/17



For Continuation Refer to Map Number EC-10-321a

For Continuation Refer to Map Number EC-10-319

| 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   |

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|--|------------------------|
| Map Number                             | EC-10-320              |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |

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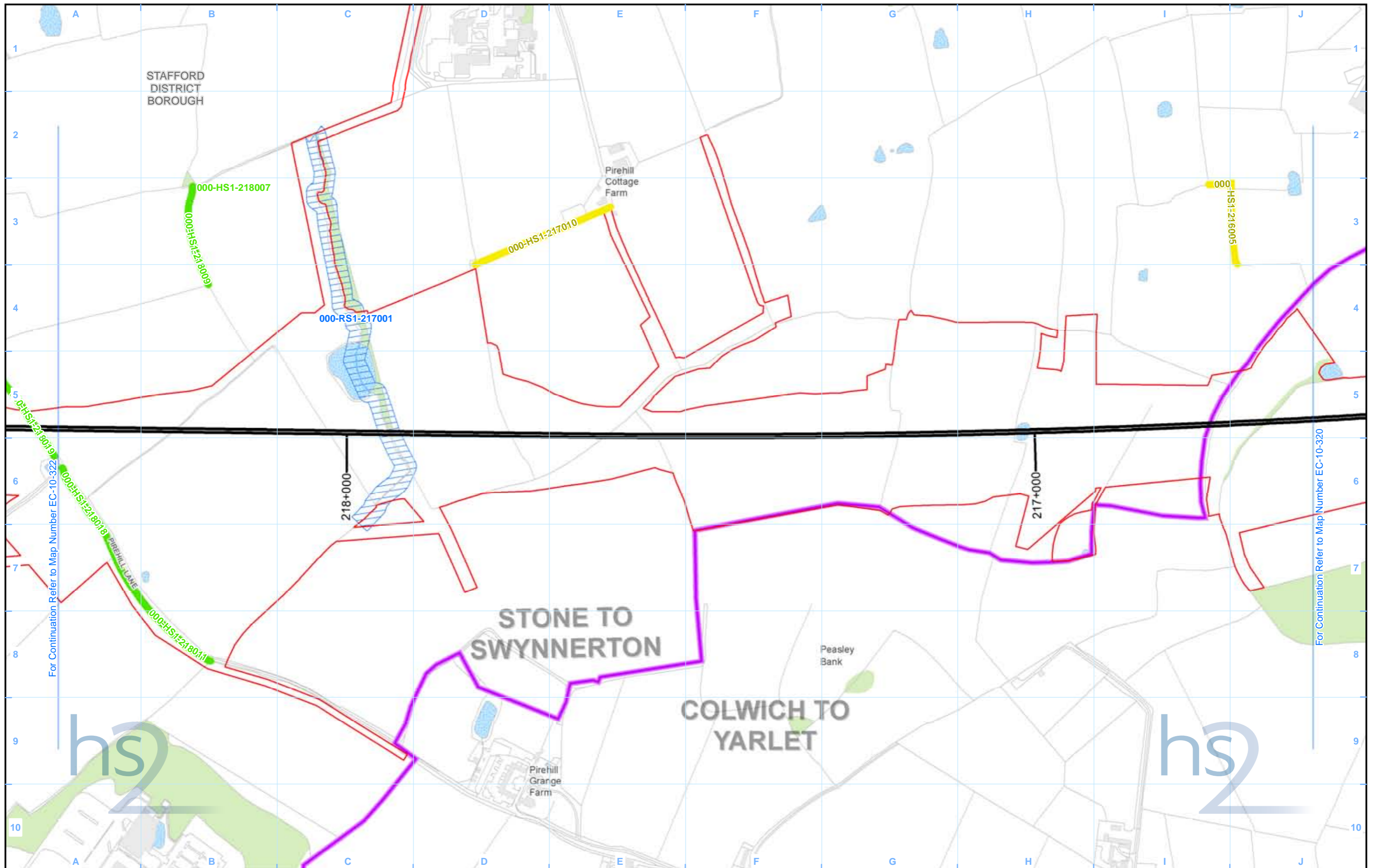
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | 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   |

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| Map Number                             | EC-10-321a             |
| Map Name                               | Phase 2 Habitat Survey |
| Community Area 2:<br>Colwich to Yarlet |                        |


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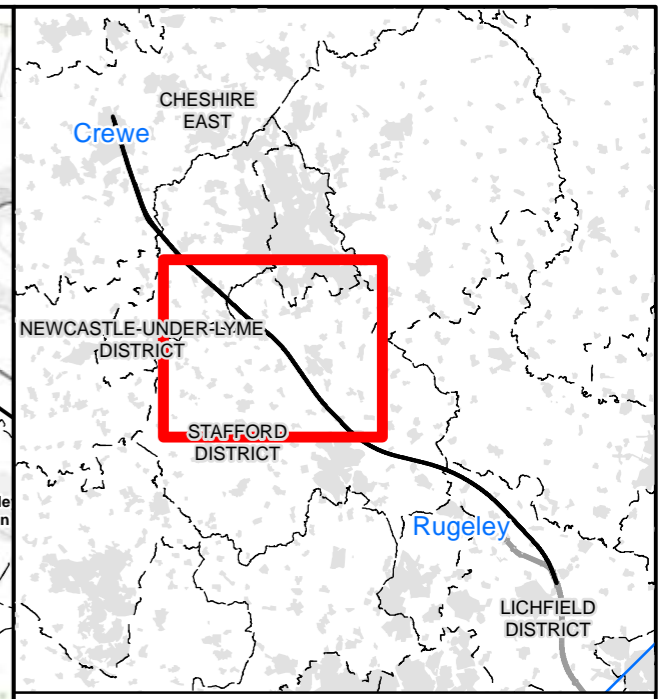
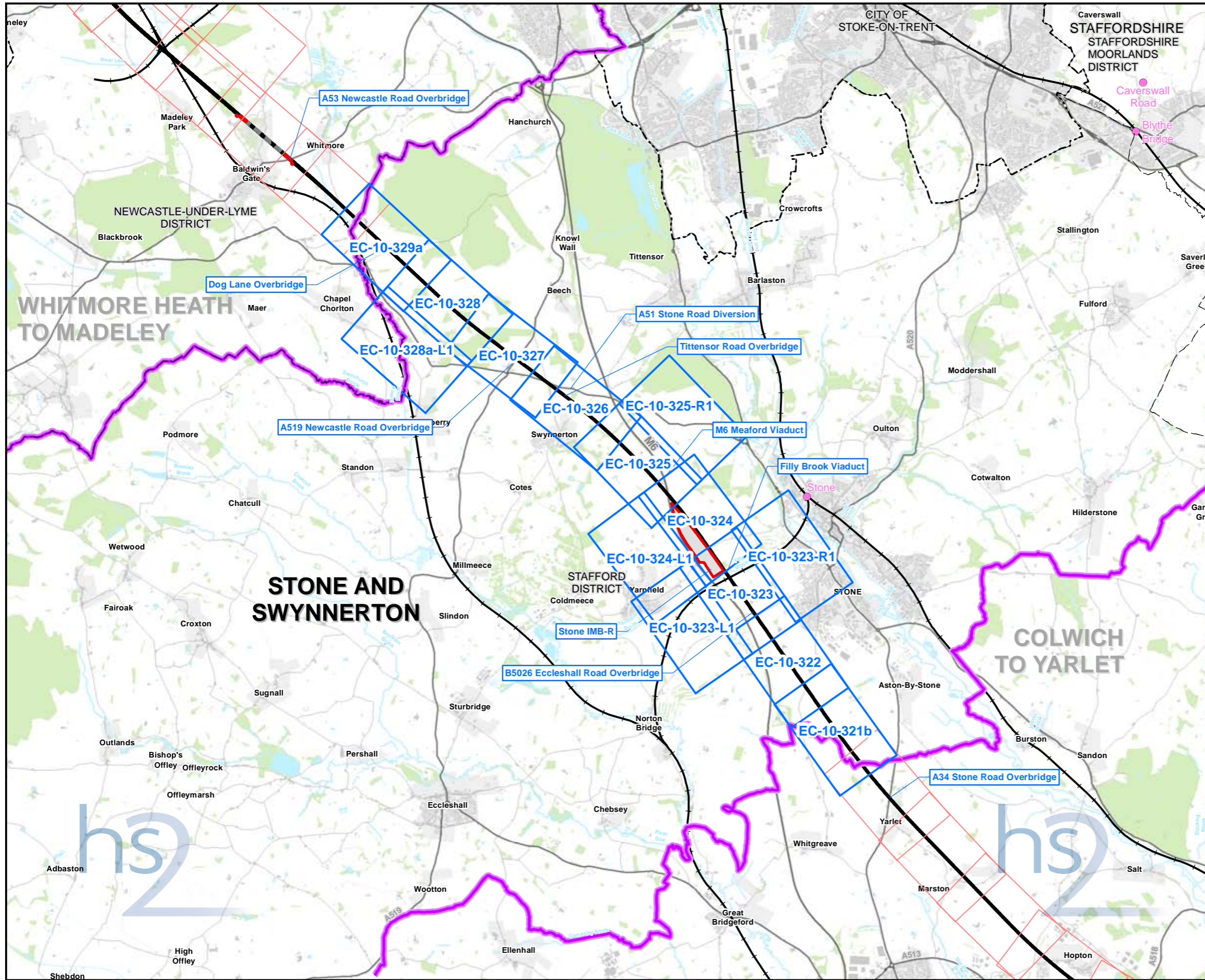
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**Map Series Information:**

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

Map Number: EC-10-INDEX-CA3

Map Name: Index Map of: Phase 2 Habitat Survey

Community Area 3: Stone and Swynnerton

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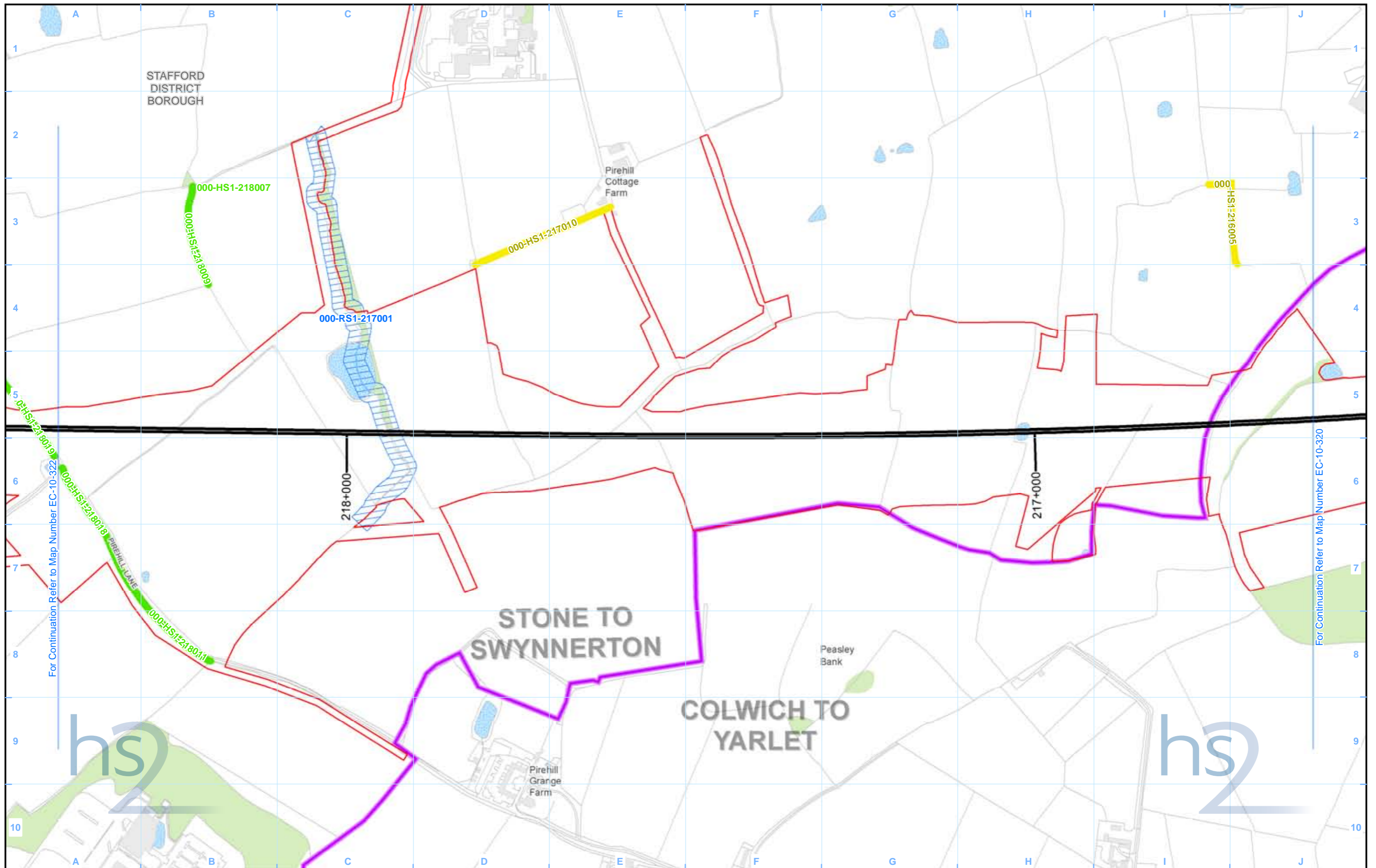
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Date: 14/06/17



| 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-10-321b             |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |


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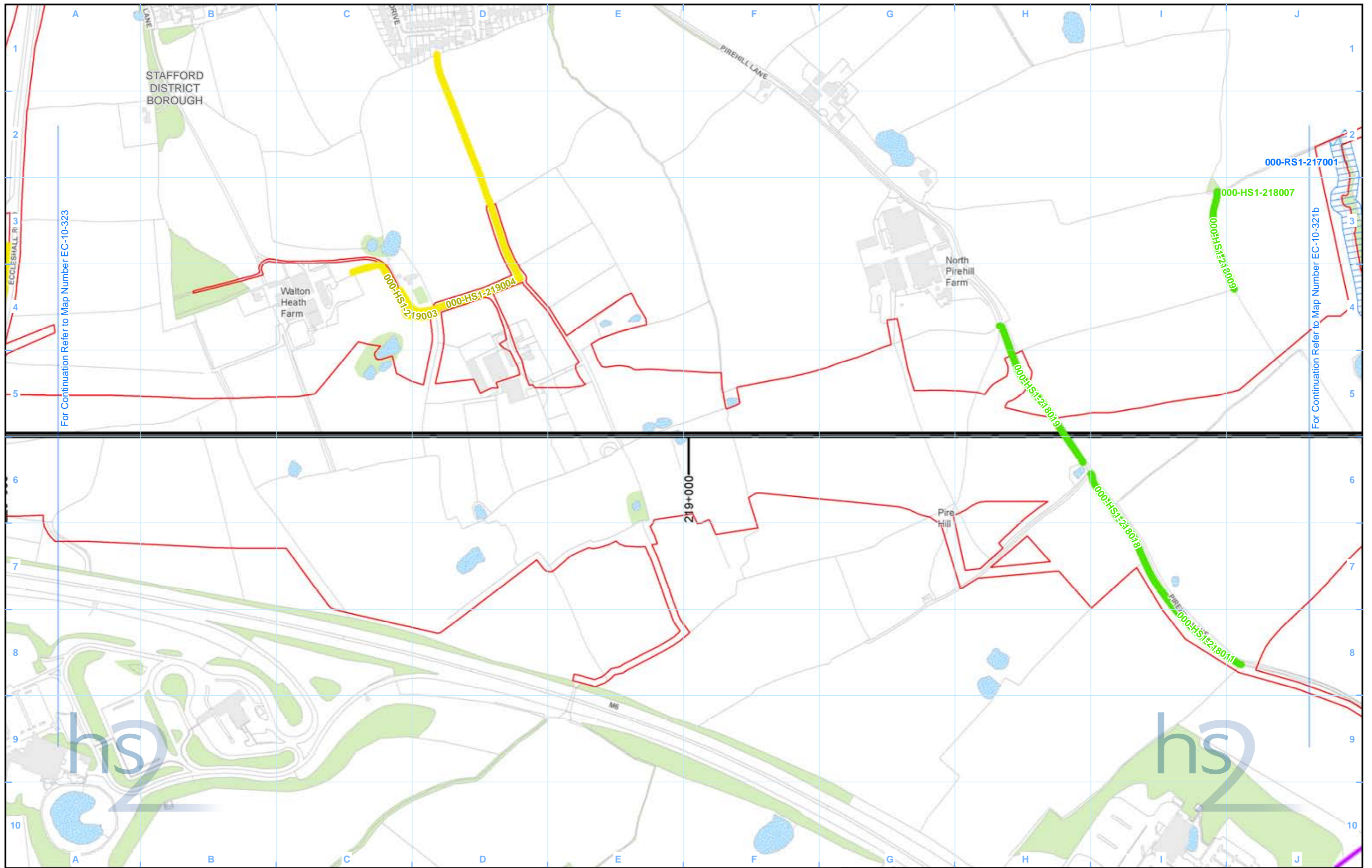
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**Legend**

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

- Watercourse
- ▭ Water body
- ▭ Woodland
- ▭ National Vegetation Classification survey
- ▭ Ditch vegetation survey
- ▭ 'Important' hedgerow confirmed by field survey
- ▭ Possible 'Important' hedgerow - no access available for survey

- ▭ River corridor survey extent
- ▭ River habitat survey extent
- ▭ Lake habitat

Map Number  
**EC-10-322**

Map Name  
**Phase 2 Habitat Survey**

Community Area 3:  
**Stone and Swynnerton**

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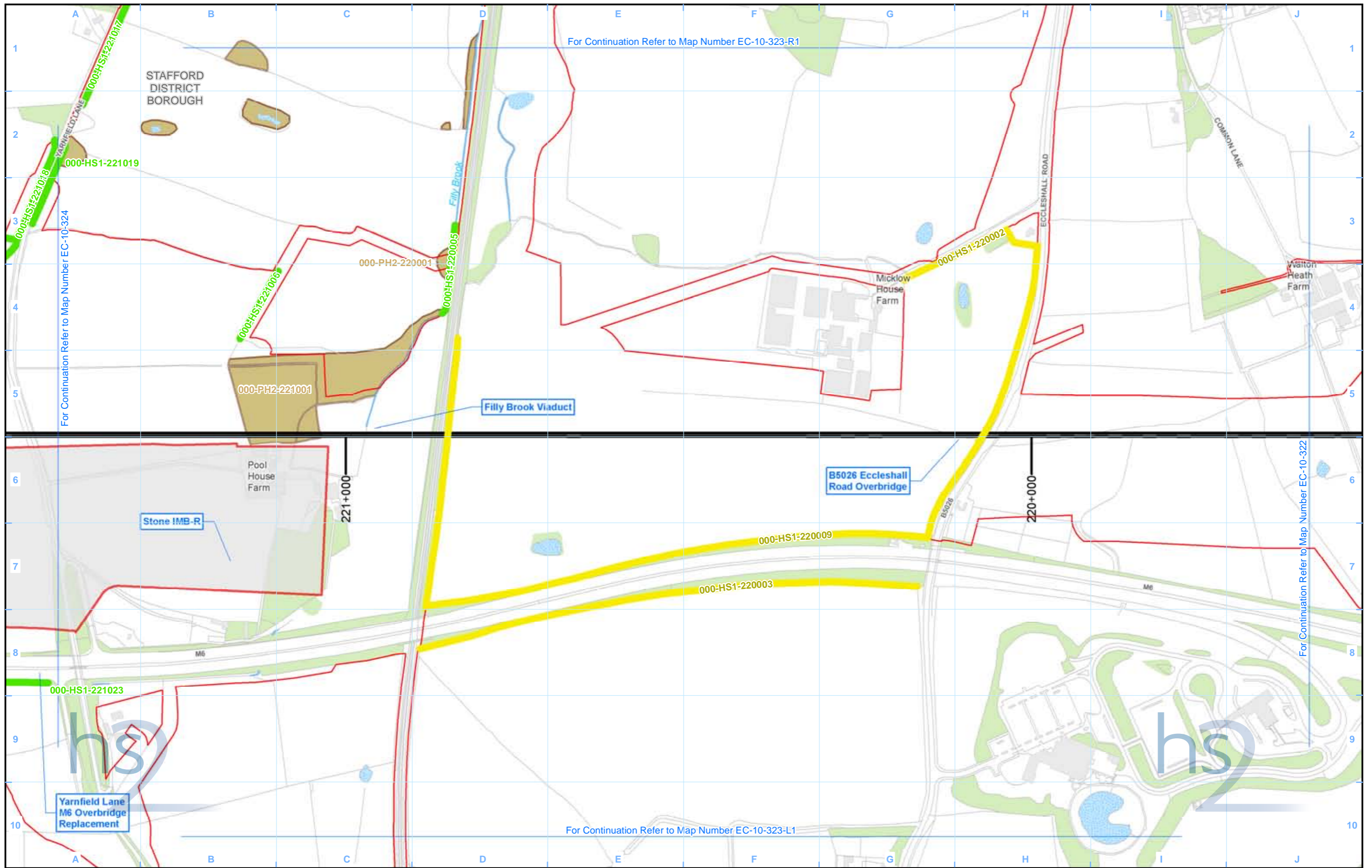
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Doc Number: C861-ARP-EV-MAP-000-080322-P03

Date: 14/06/17



For Continuation Refer to Map Number EC-10-323-R1

For Continuation Refer to Map Number EC-10-324

For Continuation Refer to Map Number EC-10-322

For Continuation Refer to Map Number EC-10-323-L1

| Legend |  |  |  |
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|---|------------------------|
| Map Number                                | EC-10-323              |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |

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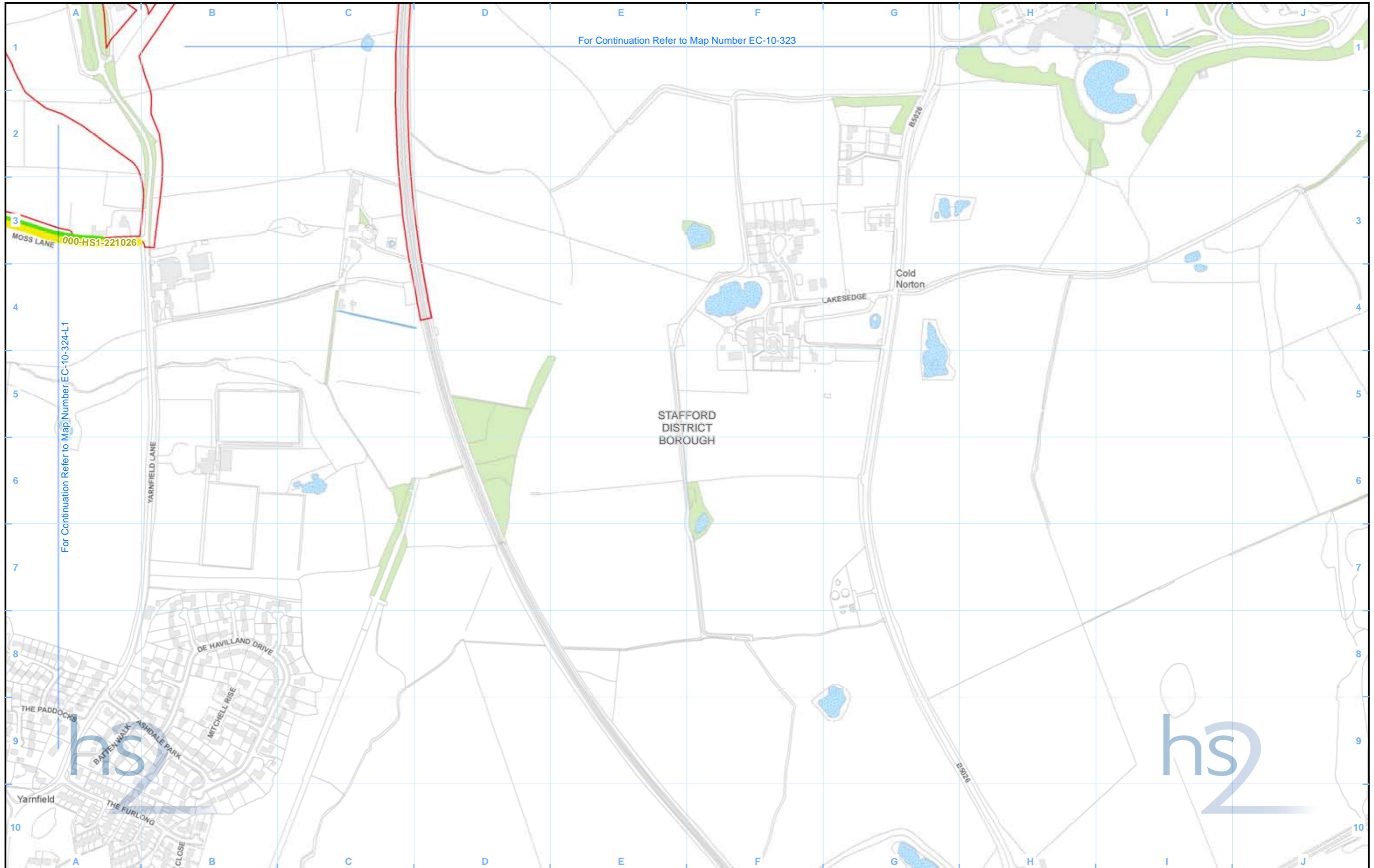
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-080323-P03 Date: 14/06/17

For Continuation Refer to Map Number EC-10-323



| Legend |  |  |  |
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|---|------------------------|
| Map Number                                | EC-10-323-L1           |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |

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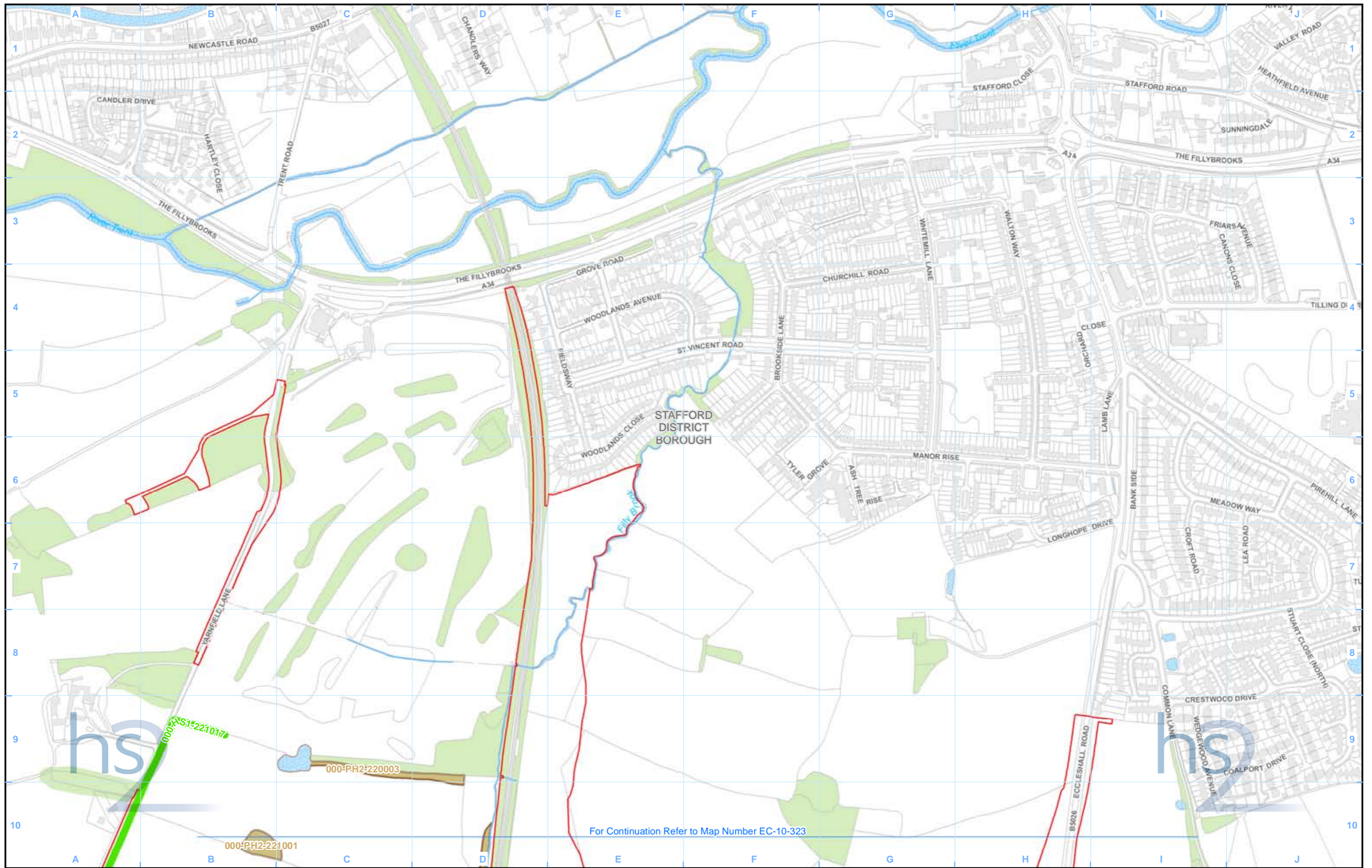
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Date: 14/06/17






For Continuation Refer to Map Number EC-10-323

| 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-10-323-R1           |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |




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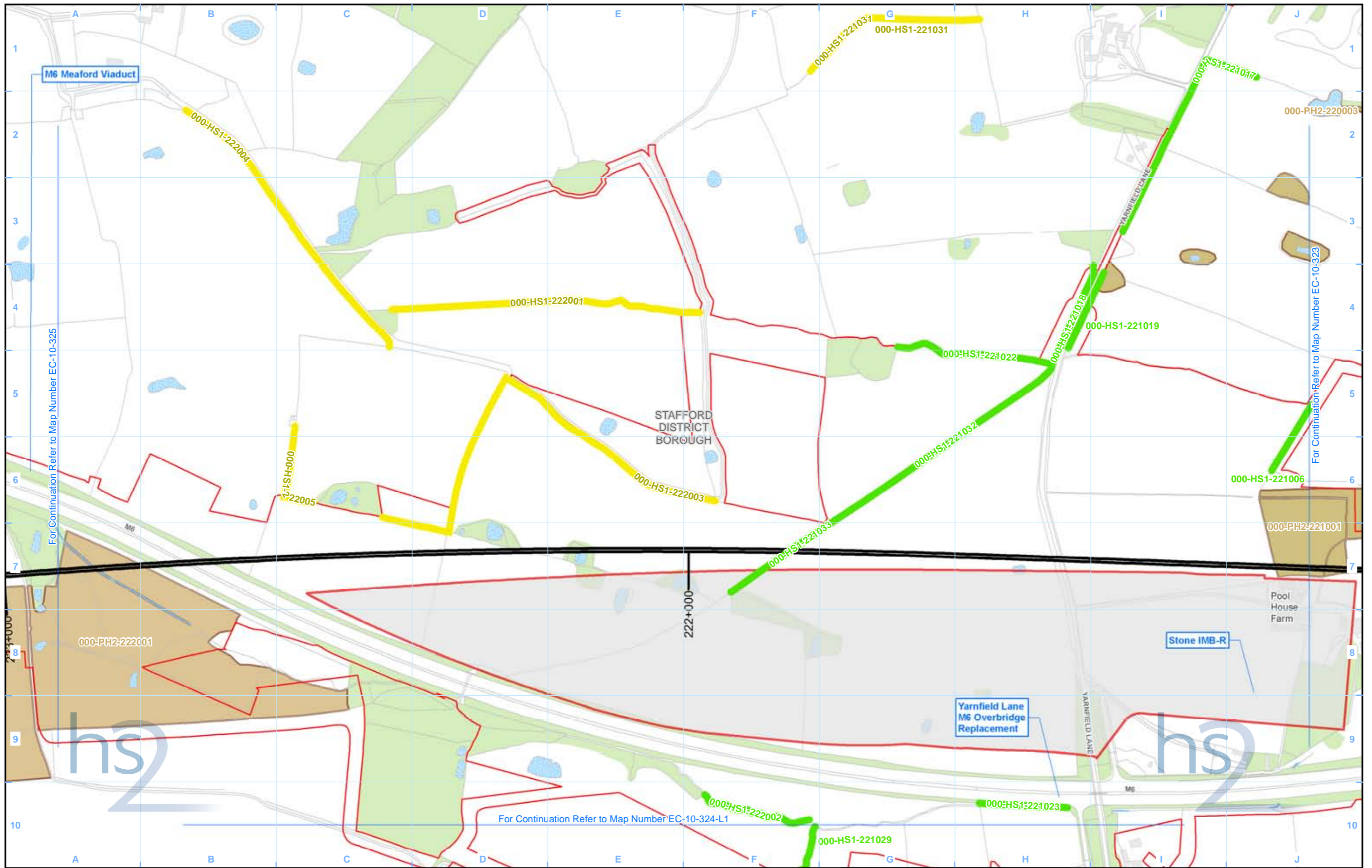


Scale at A3: 1:5,000




Metres

Date: 14/06/17




| 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-10-324              |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |


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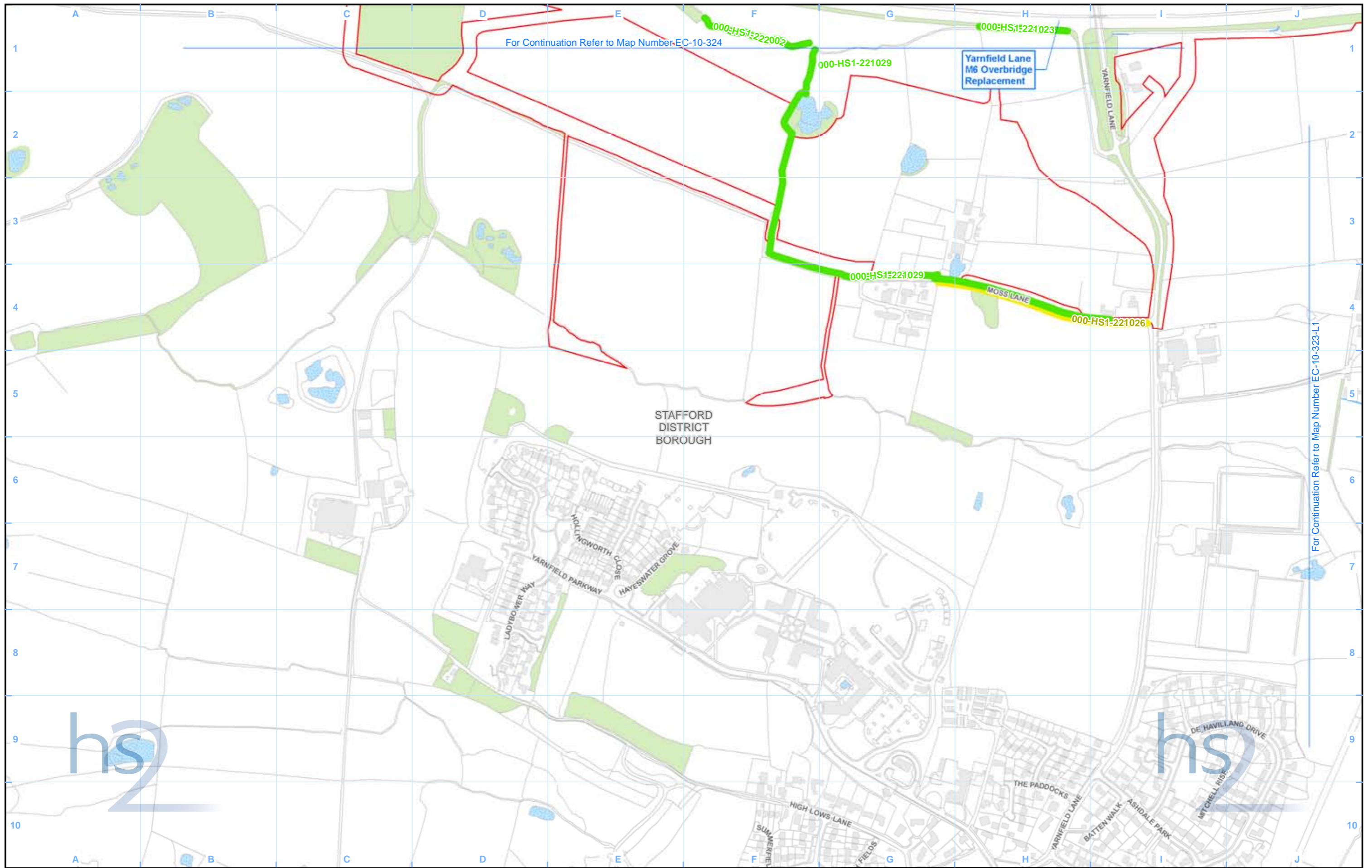
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | National Vegetation Classification survey                      |
|        | Route on surface                              |  | Ditch vegetation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

|   |                        |
|---|------------------------|
| Map Number                                | EC-10-324-L1           |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |

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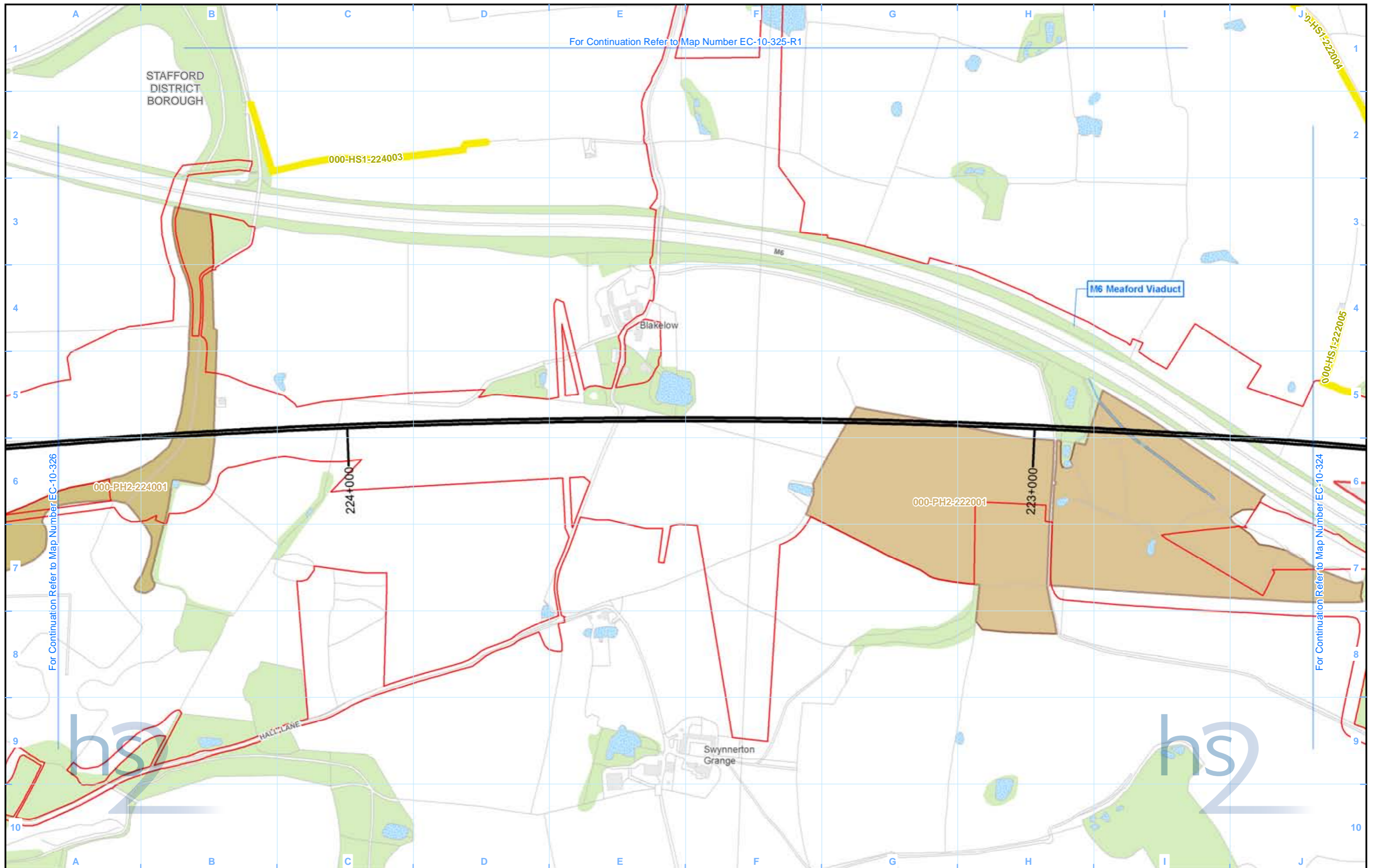
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For Continuation Refer to Map Number EC-10-326

For Continuation Refer to Map Number EC-10-324

| 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-10-325              |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |




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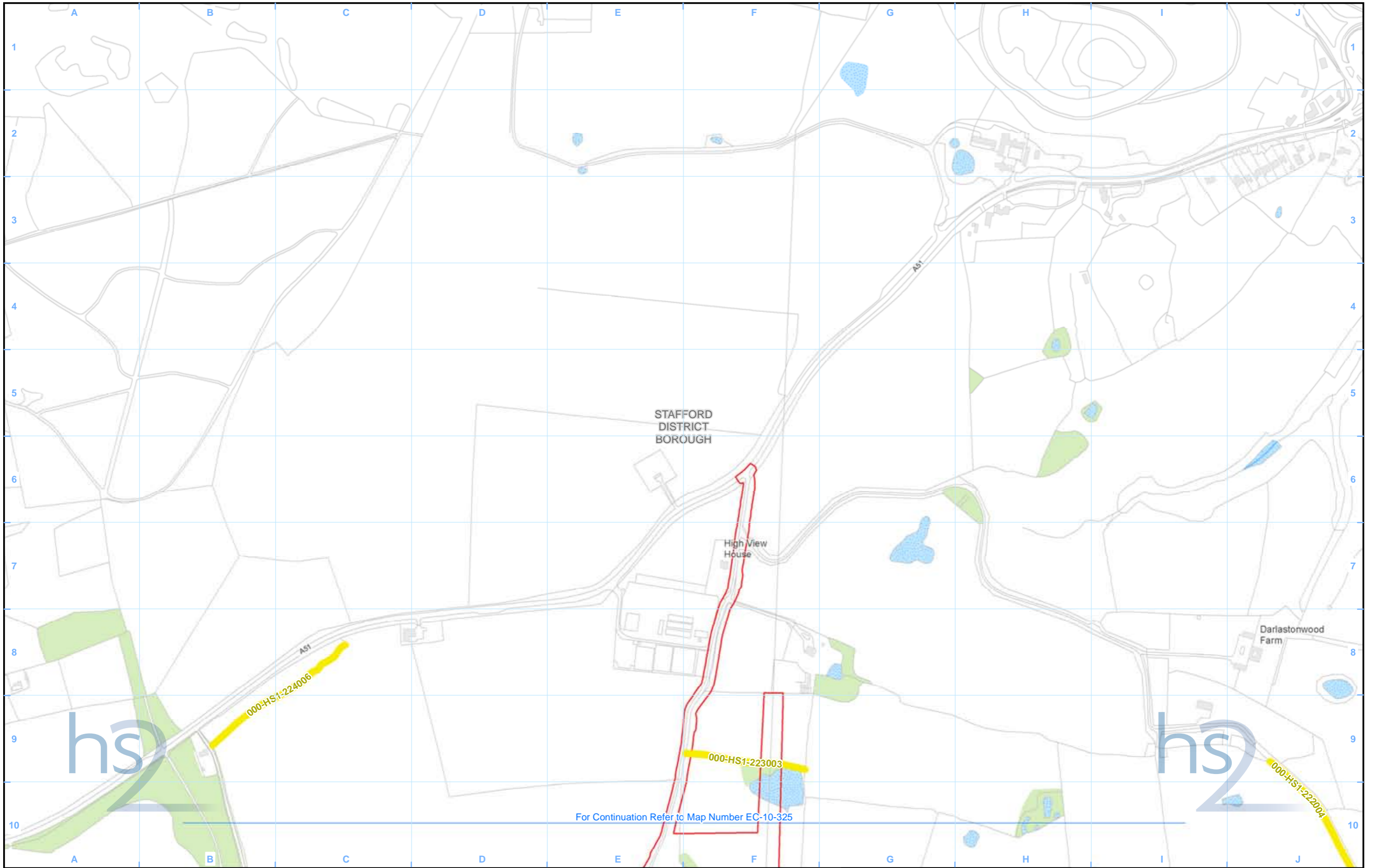


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| Map Number                                | EC-10-325-R1           |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |

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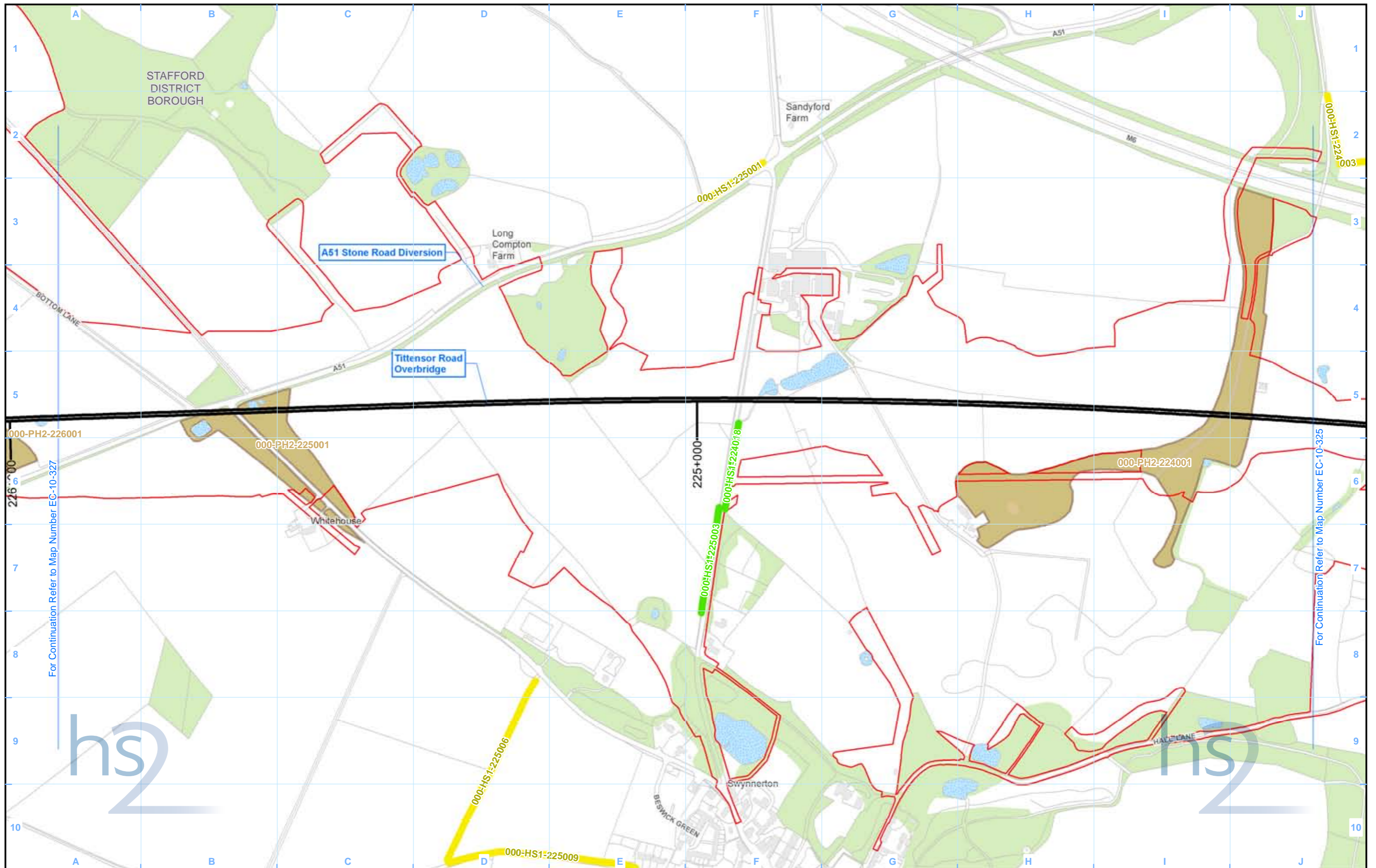
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| Legend  |             |  |                              |
|---|-------------|--|------------------------------|
| Route in bored tunnel                         | Watercourse | National Vegetation Classification survey                      | River 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 |             | Possible 'Important' hedgerow - no access available for survey |                              |
| Community area boundary                       |             |  |                              |
| District/Borough boundary                     |             |  |                              |

|   |                        |
|---|------------------------|
| Map Number                                | EC-10-326              |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |

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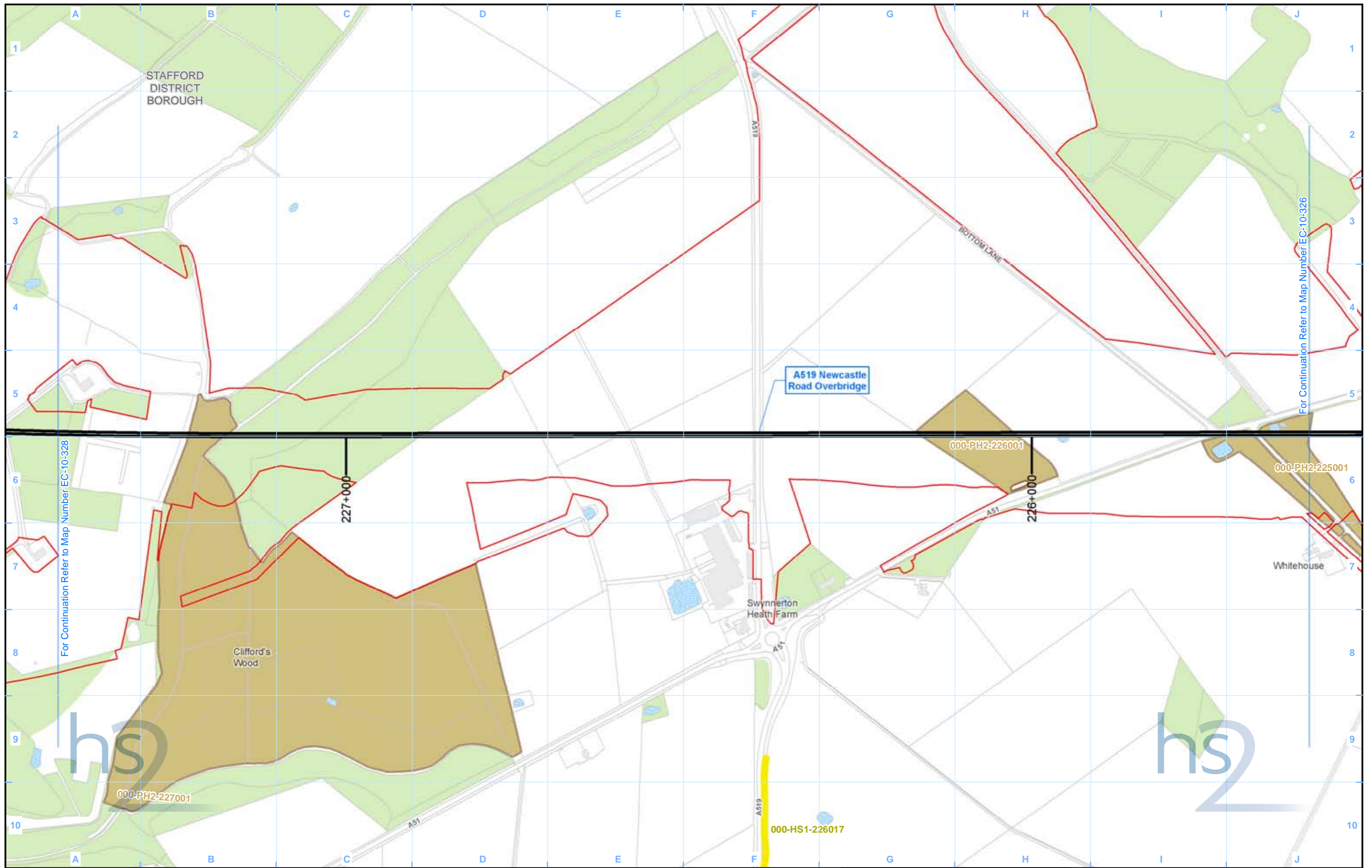
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|---|------------------------|
| Map Number                                | EC-10-327              |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |

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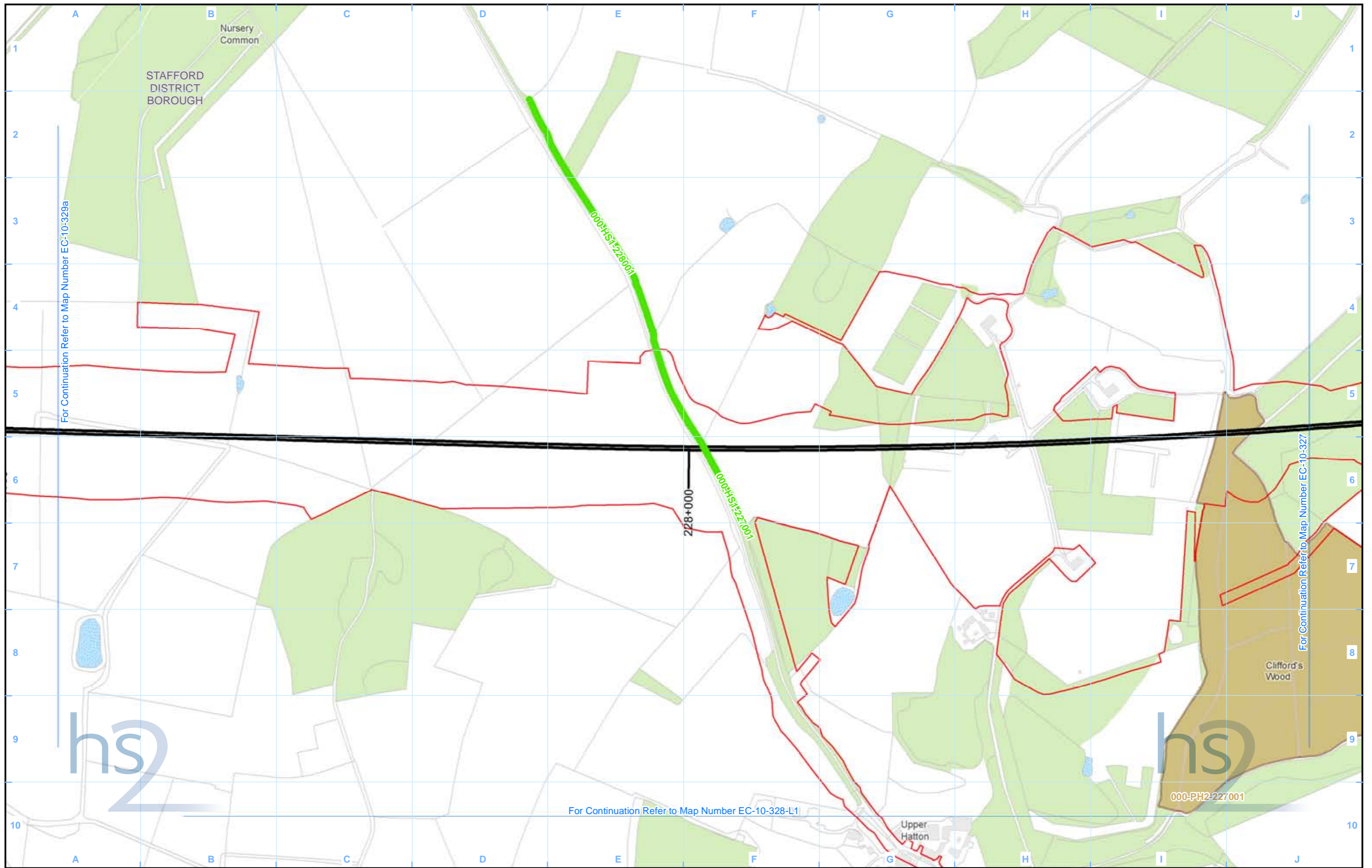
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0 50 100 150 200 Metres


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Date: 14/06/17




| 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-10-328              |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |


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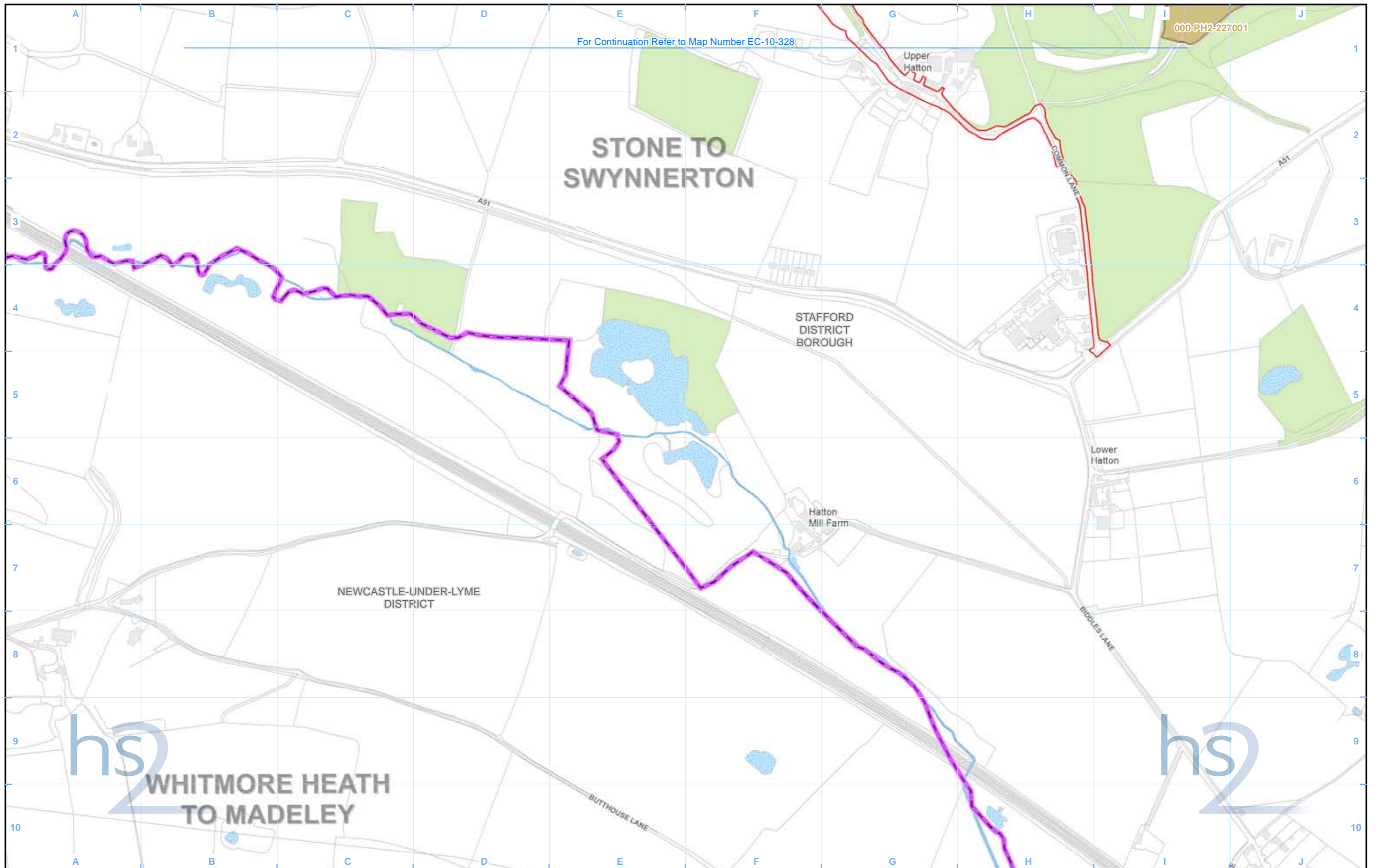

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Doc Number: C861-ARP-EV-MAP-000-080328-P03

Date: 14/06/17





For Continuation Refer to Map Number EC-10-328

000-PH2-227001

# STONE TO SWYNNERTON

STAFFORD DISTRICT BOROUGH

NEWCASTLE-UNDER-LYME DISTRICT

# WHITMORE HEATH TO MADELEY

| 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 | Possible 'Important' hedgerow - no access available for survey |  |                              |
| Community area boundary                       |  |  |                              |
| District/Borough boundary                     |  |  |                              |

|   |                        |
|---|------------------------|
| Map Number                                | EC-10-328a-L1          |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |

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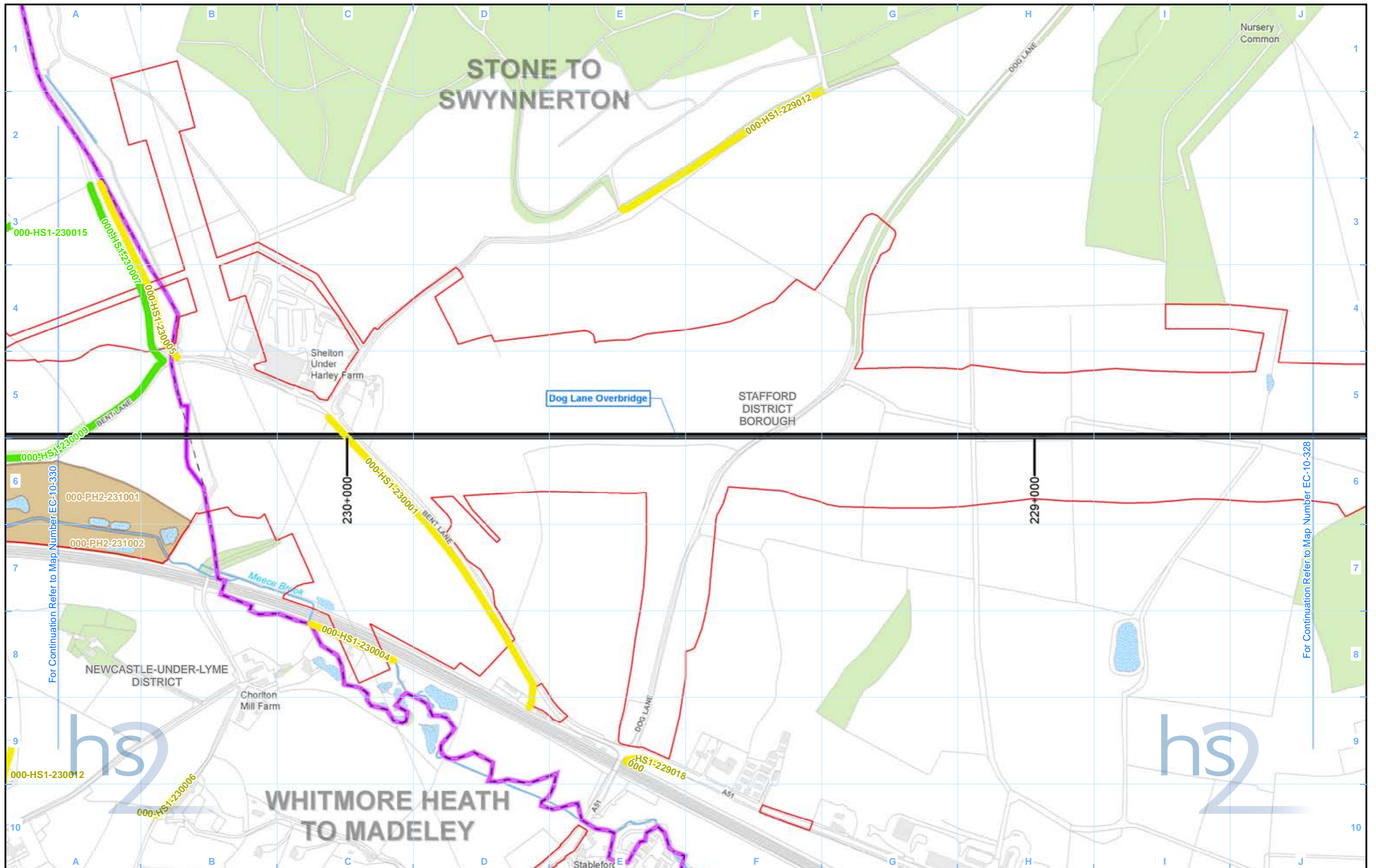
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building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

|   |                        |
|---|------------------------|
| Map Number                                | EC-10-329a             |
| Map Name                                  | Phase 2 Habitat Survey |
| Community Area 3:<br>Stone and Swynnerton |                        |


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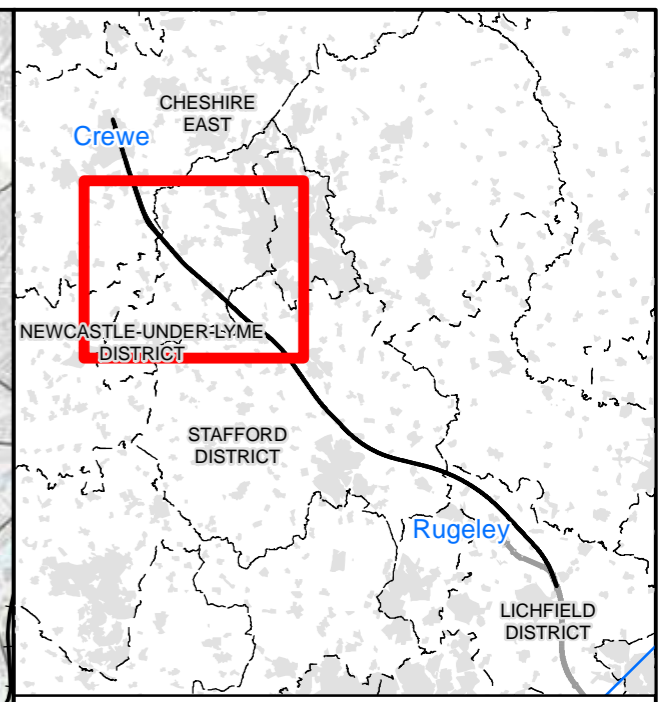
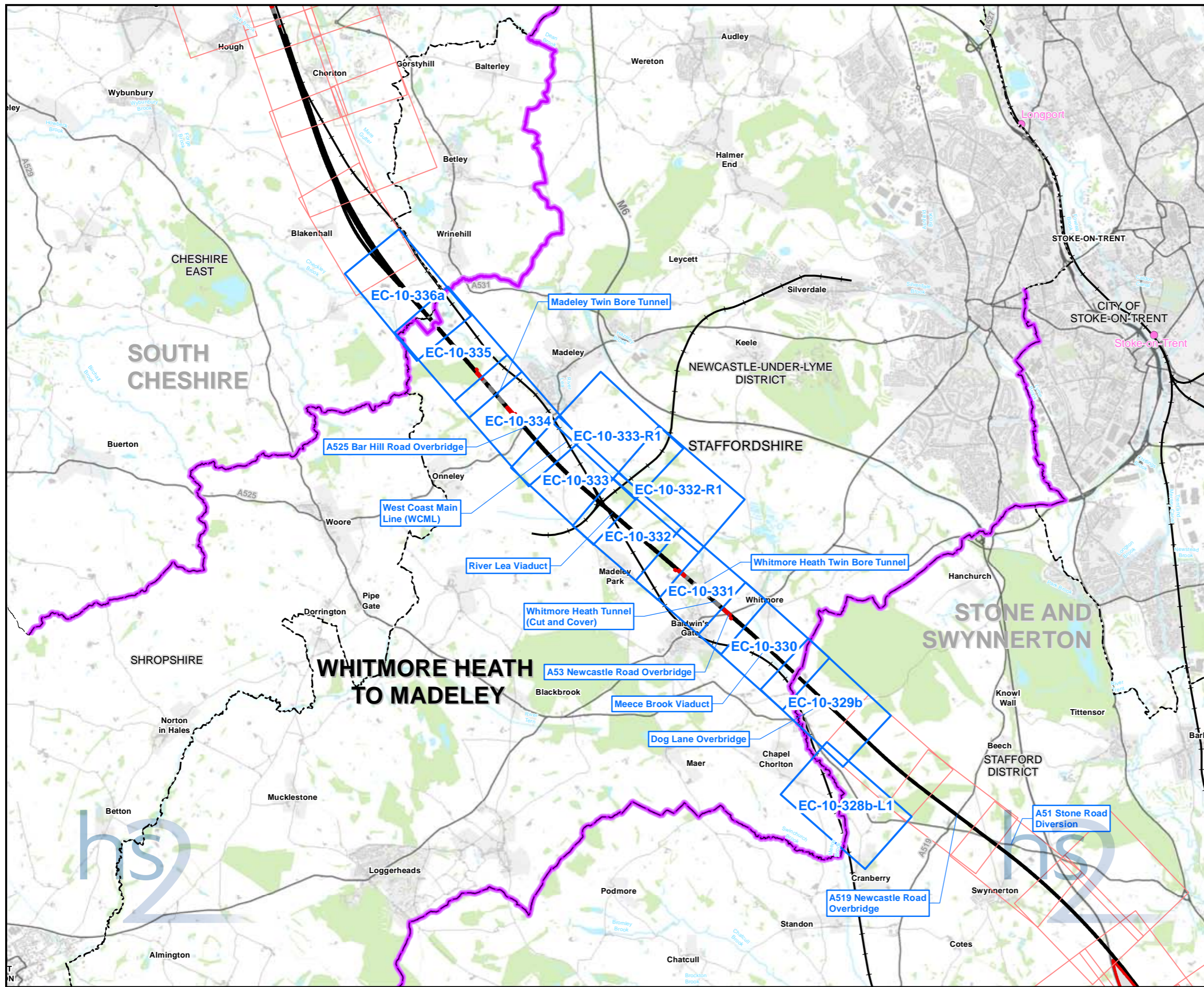
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**Map Series Information:**

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

|  |   |
|--|---|
| Map Number                                     | EC-10-INDEX-CA4                         |
| Map Name                                       | Index Map of:<br>Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

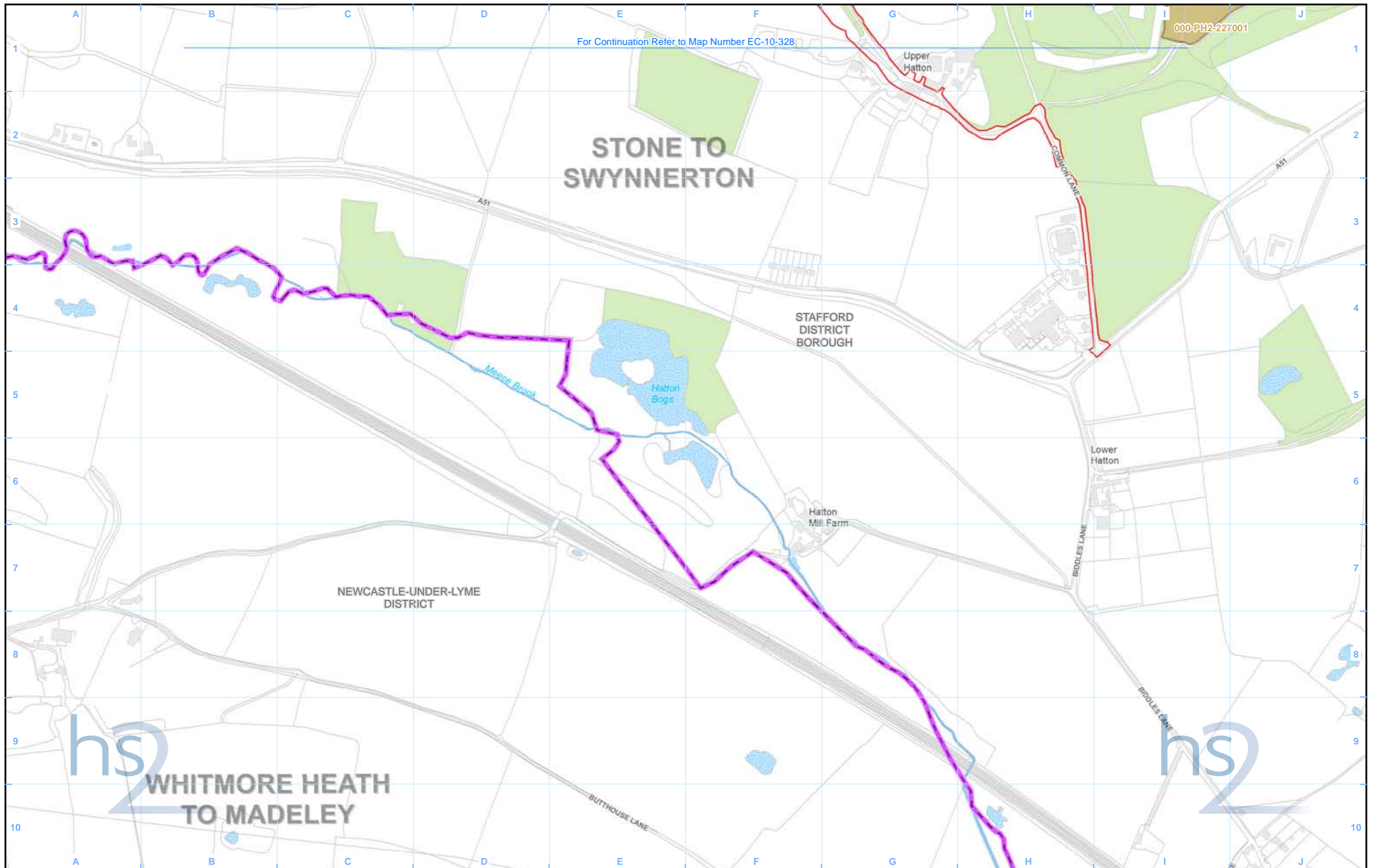
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For Continuation Refer to Map Number EC-10-328

000-PH2-227001

# STONE TO SWYNNERTON

STAFFORD DISTRICT BOROUGH

NEWCASTLE-UNDER-LYME DISTRICT

# WHITMORE HEATH TO MADELEY

| Legend |             |  |                              |
|--------|-------------|--|------------------------------|
|        | Watercourse | National Vegetation Classification survey      | River corridor survey extent |
|        | Water body  | Ditch vegetation survey                        | River habitat survey extent  |
|        | Woodland    | 'Important' hedgerow confirmed by field survey | Lake habitat                 |
|        |             | Possible 'Important' hedgerow                  |                              |
|        |             | - no access available for survey               |                              |
|        |             |  |                              |

|  |                        |
|--|------------------------|
| Map Number                                     | EC-10-328b-L1          |
| Map Name                                       | Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |                        |

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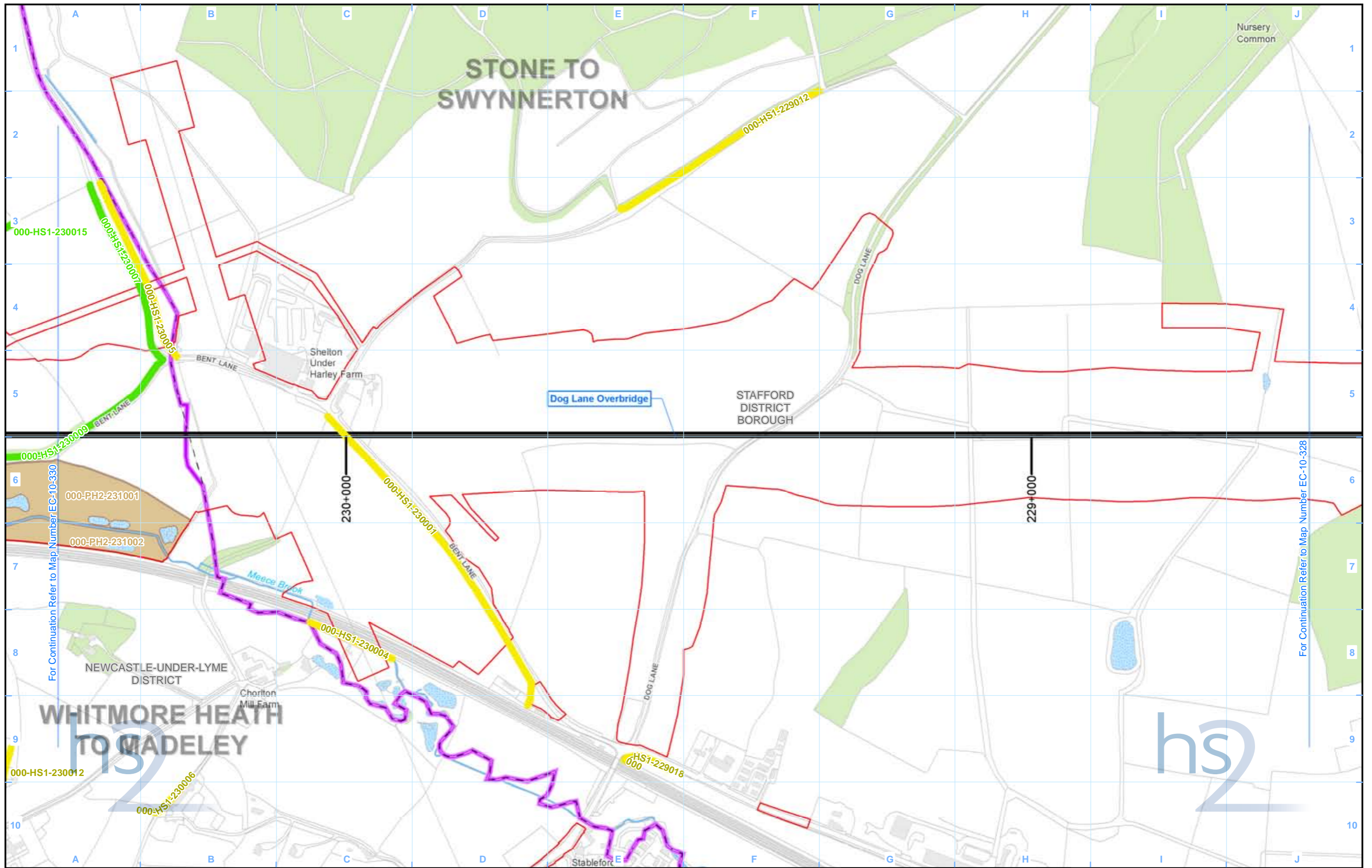
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | 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 habitat survey extent                                    |
|        |   |  | River corridor survey extent                                   |
|        |   |  | Lake habitat   |

|  |                        |
|--|------------------------|
| Map Number                                     | EC-10-329b             |
| Map Name                                       | Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |                        |

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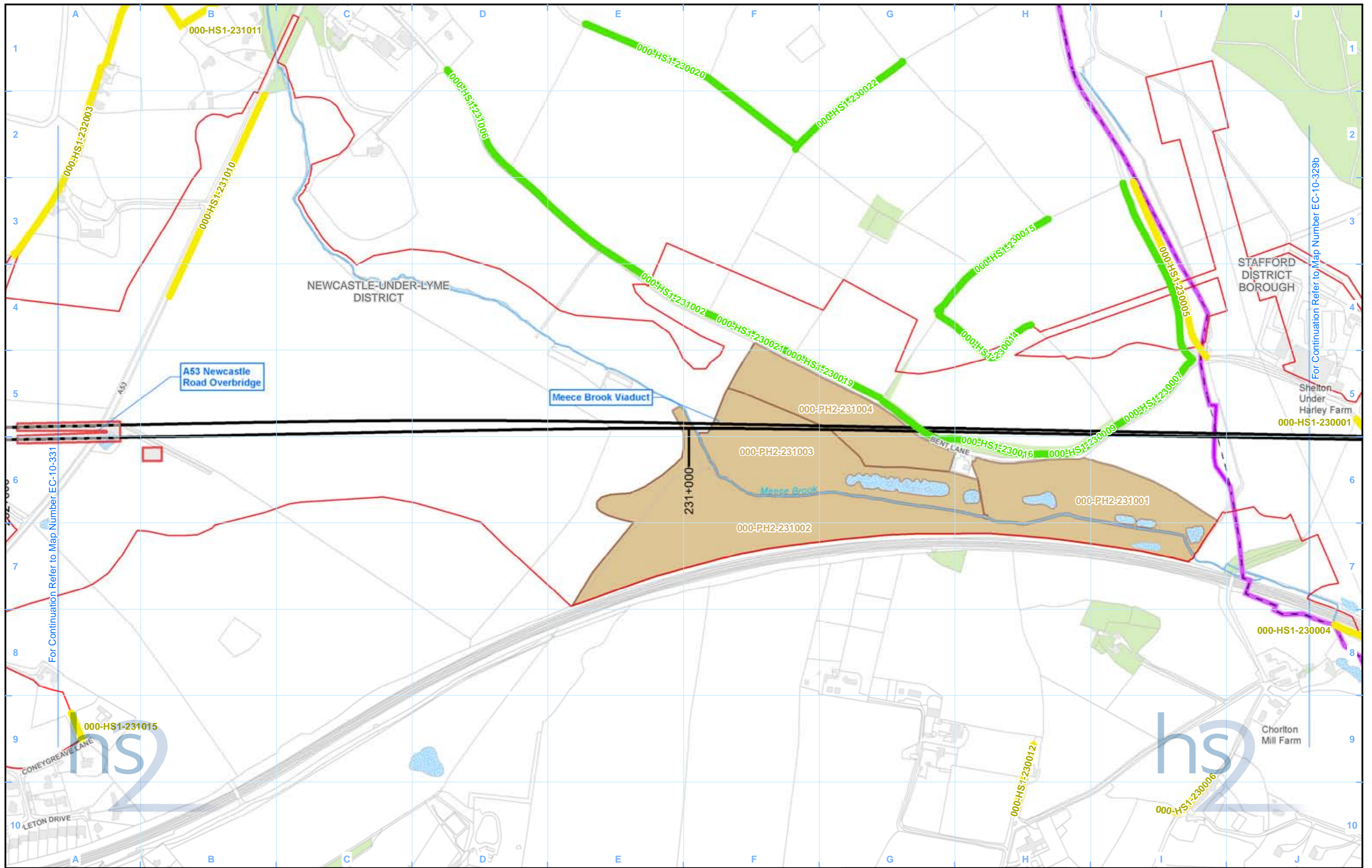
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**Legend**

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

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat

Map Number  
**EC-10-330**

Map Name  
**Phase 2 Habitat Survey**

Community Area 4:  
**Whitmore Heath to Madeley**

**hs**

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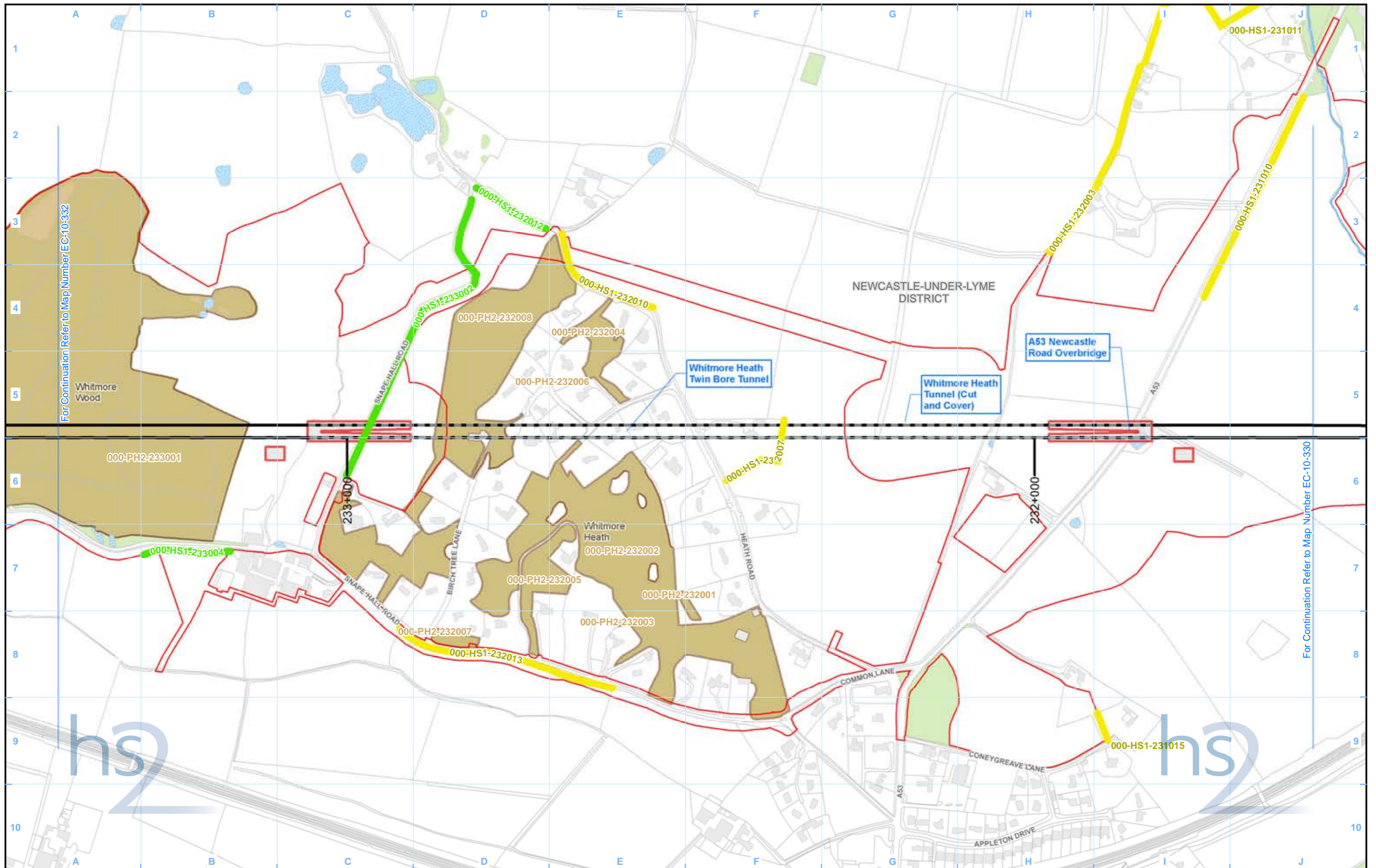
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For Continuation Refer to Map Number EC-10-332

For Continuation Refer to Map Number EC-10-330

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

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat

Map Number: EC-10-331

Map Name: Phase 2 Habitat Survey

Community Area 4:  
Whitmore Heath to Madeley

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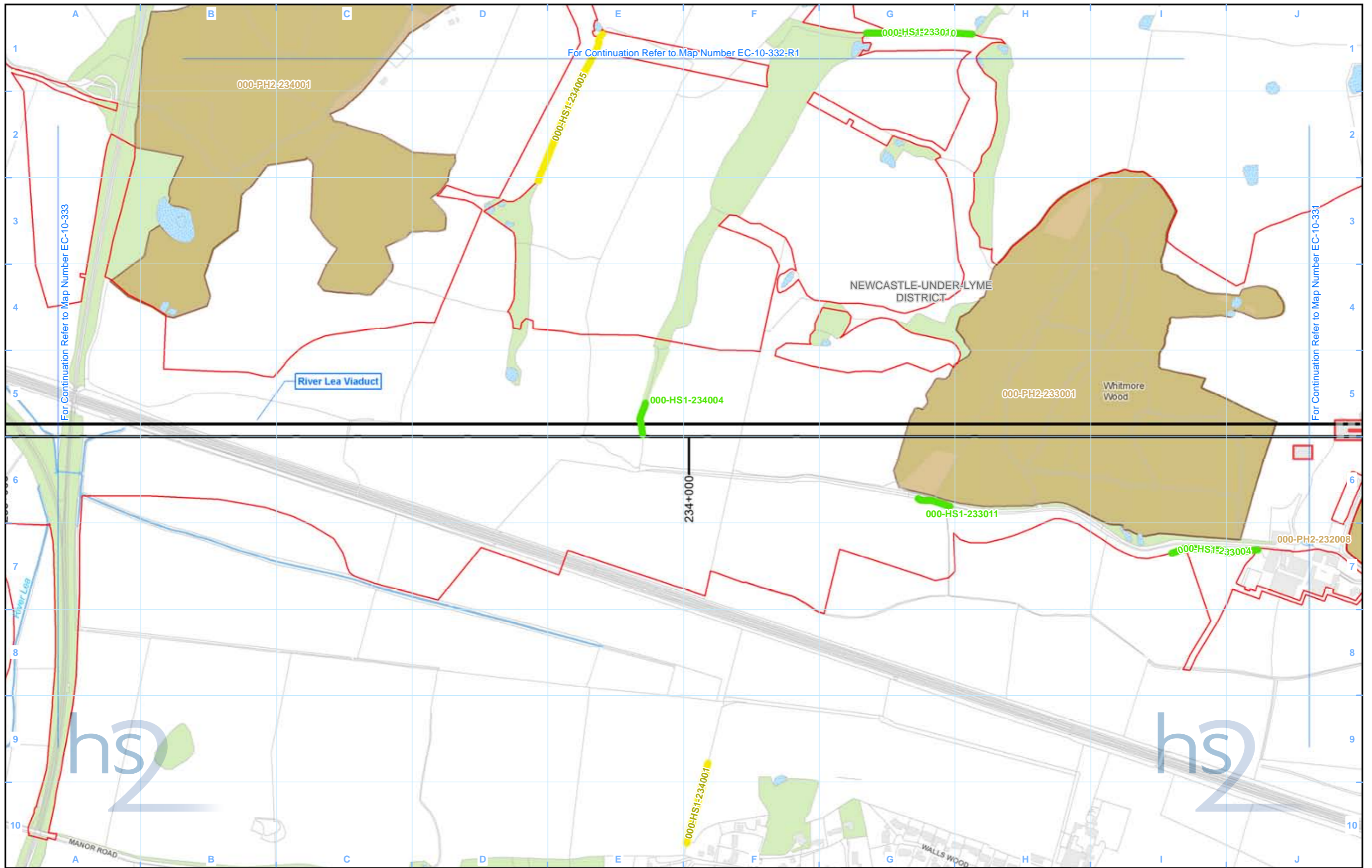
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | National Vegetation Classification survey                      |
|        | Route on surface                              |  | Ditch vegetation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

|  |                        |
|--|------------------------|
| Map Number                                     | EC-10-332              |
| Map Name                                       | Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |                        |

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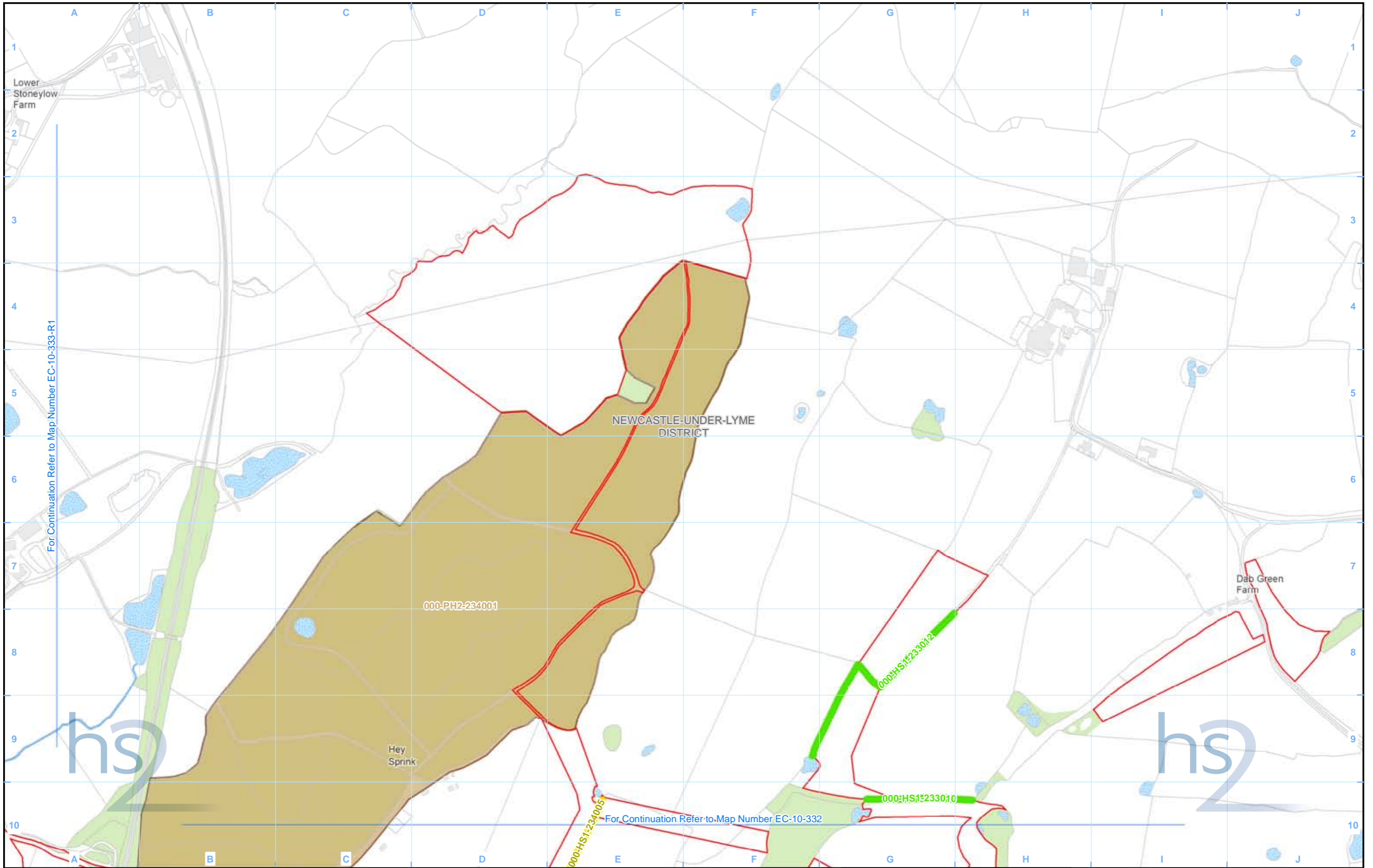
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Date: 14/06/17




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

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat

|  |                        |
|--|------------------------|
| Map Number                                     | EC-10-332-R1           |
| Map Name                                       | Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |                        |




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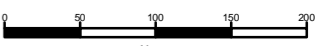
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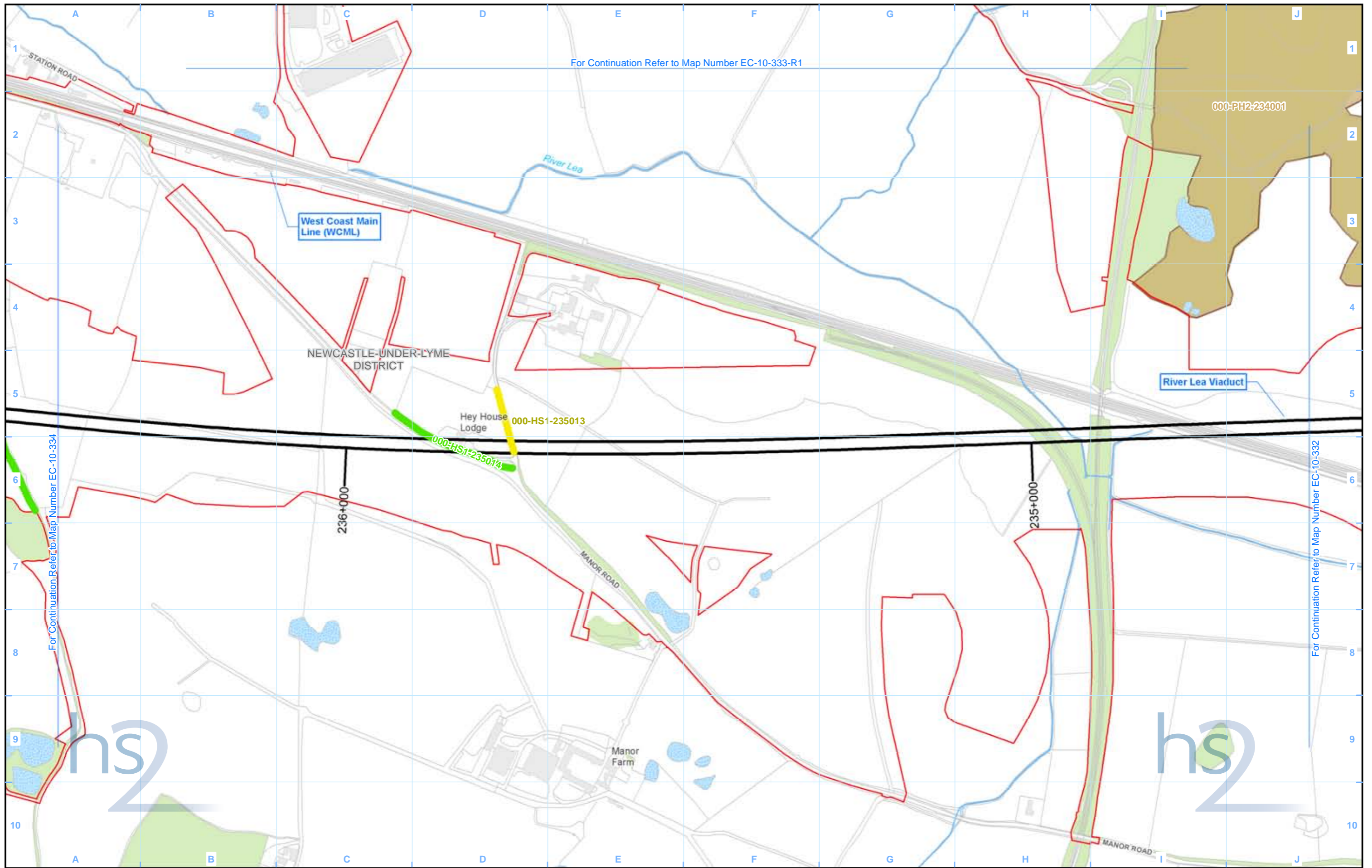


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For Continuation Refer to Map Number EC-10-334

For Continuation Refer to Map Number EC-10-332

| 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-10-333              |
| Map Name                                       | Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |                        |

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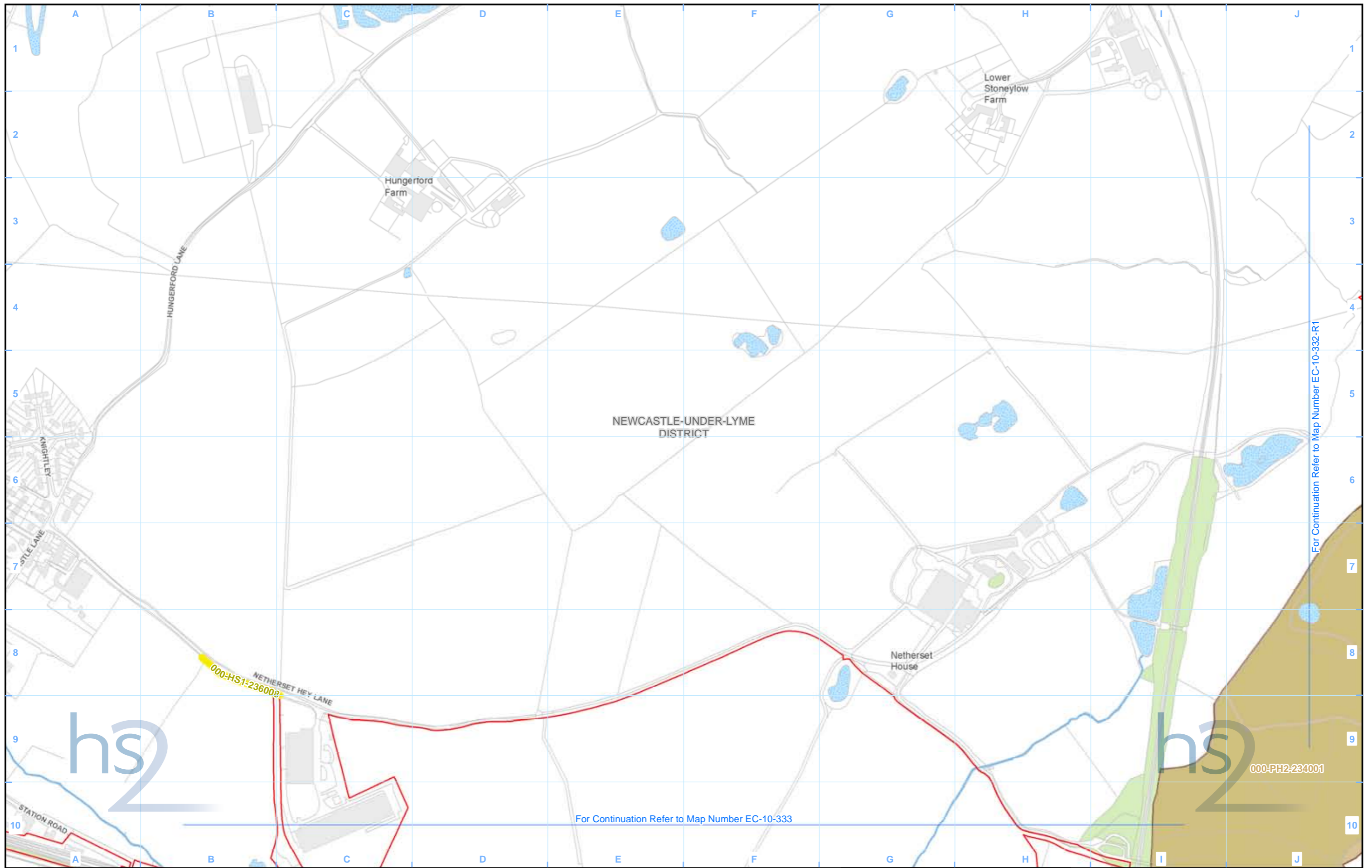
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For Continuation Refer to Map Number EC-10-332-R1

For Continuation Refer to Map Number EC-10-333

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

- Watercourse
- Water body
- Woodland

- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent
- Lake habitat

|  |                        |
|--|------------------------|
| Map Number                                     | EC-10-333-R1           |
| Map Name                                       | Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |                        |

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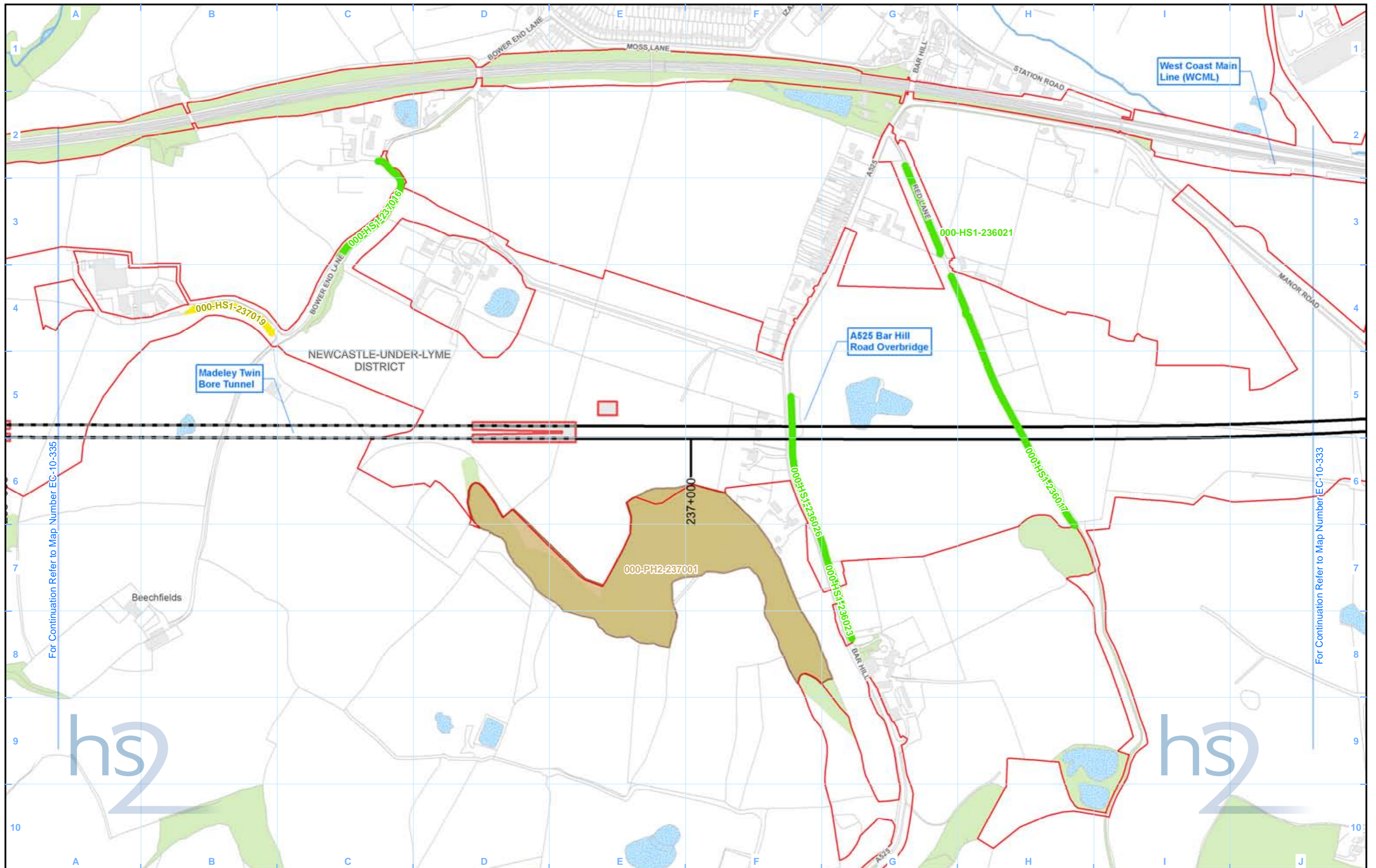
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Date: 14/06/17



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

|  |                        |
|--|------------------------|
| Map Number                                     | EC-10-334              |
| Map Name                                       | Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |                        |

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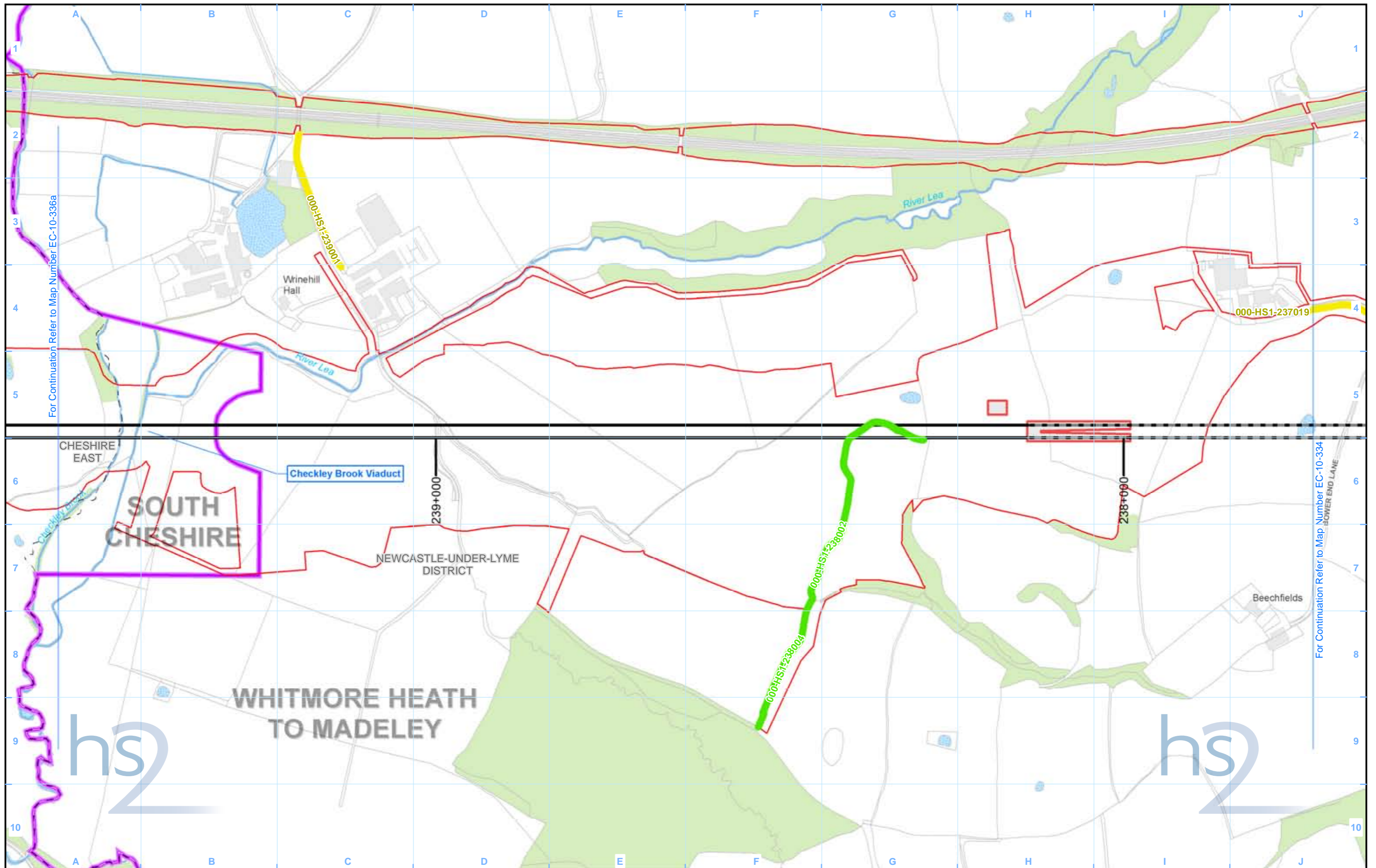
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Date: 14/06/17




| 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-10-335              |
| Map Name                                       | Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |                        |


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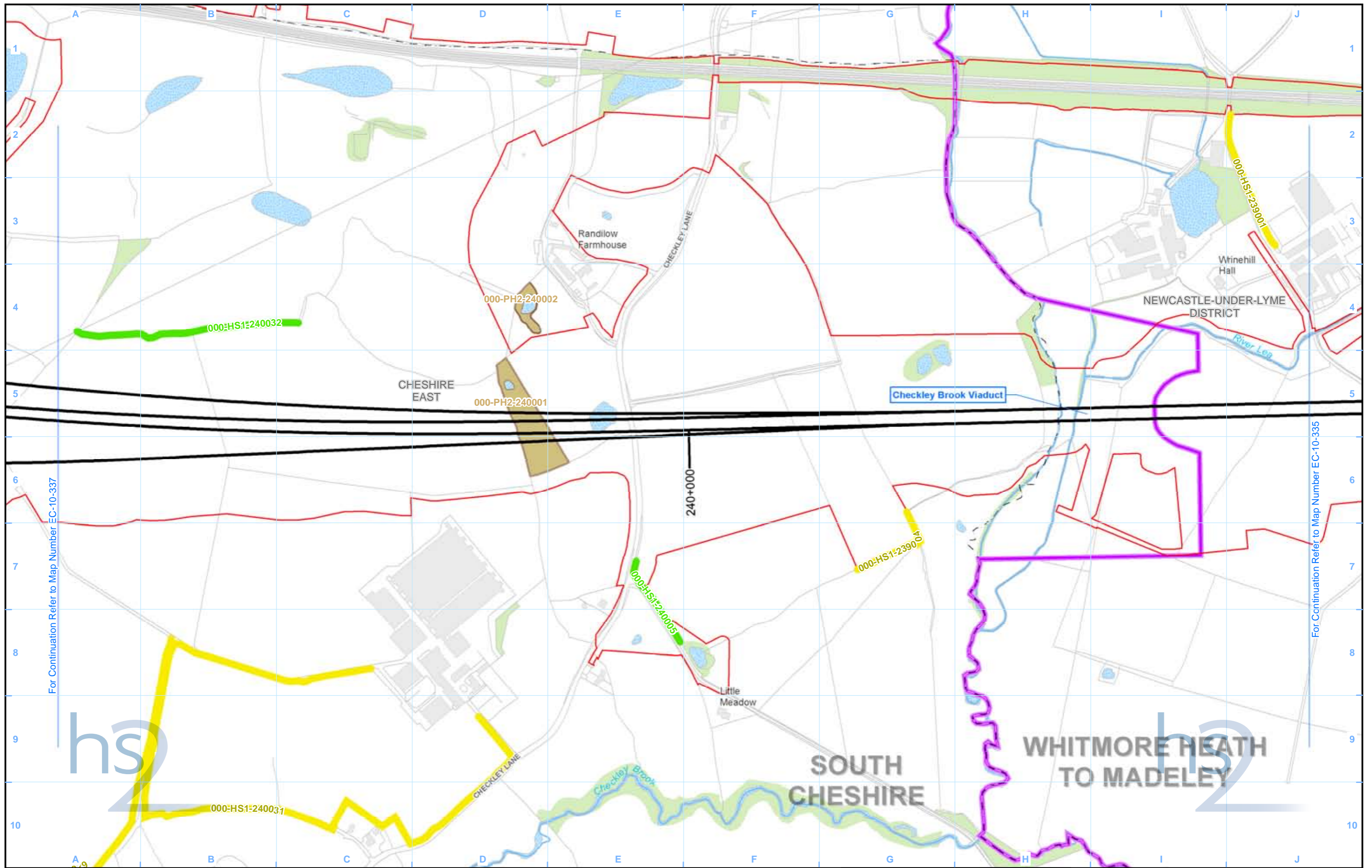
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For Continuation Refer to Map Number EC-10-335

| Legend |  |  |  |
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|--|------------------------|
| Map Number                                     | EC-10-336a             |
| Map Name                                       | Phase 2 Habitat Survey |
| Community Area 4:<br>Whitmore Heath to Madeley |                        |

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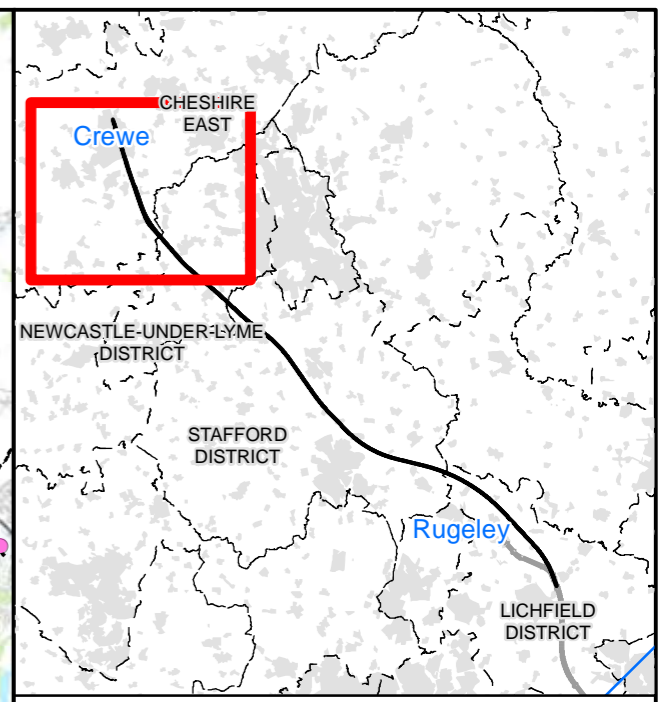
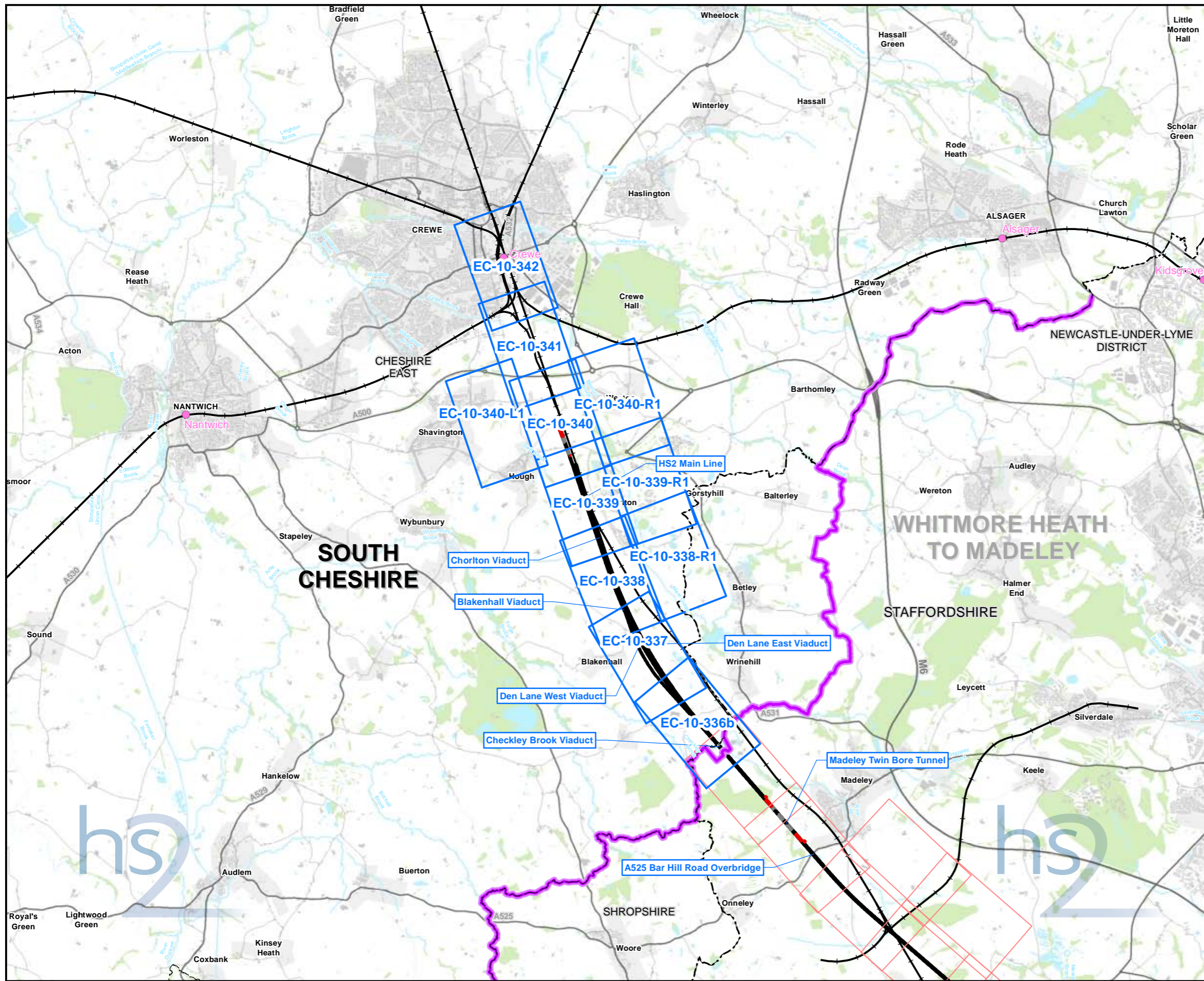
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Date: 14/06/17

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

Map Number: EC-10-INDEX-CA5

Map Name: Index Map of: Phase 2 Habitat Survey

Community Area 5: South Cheshire

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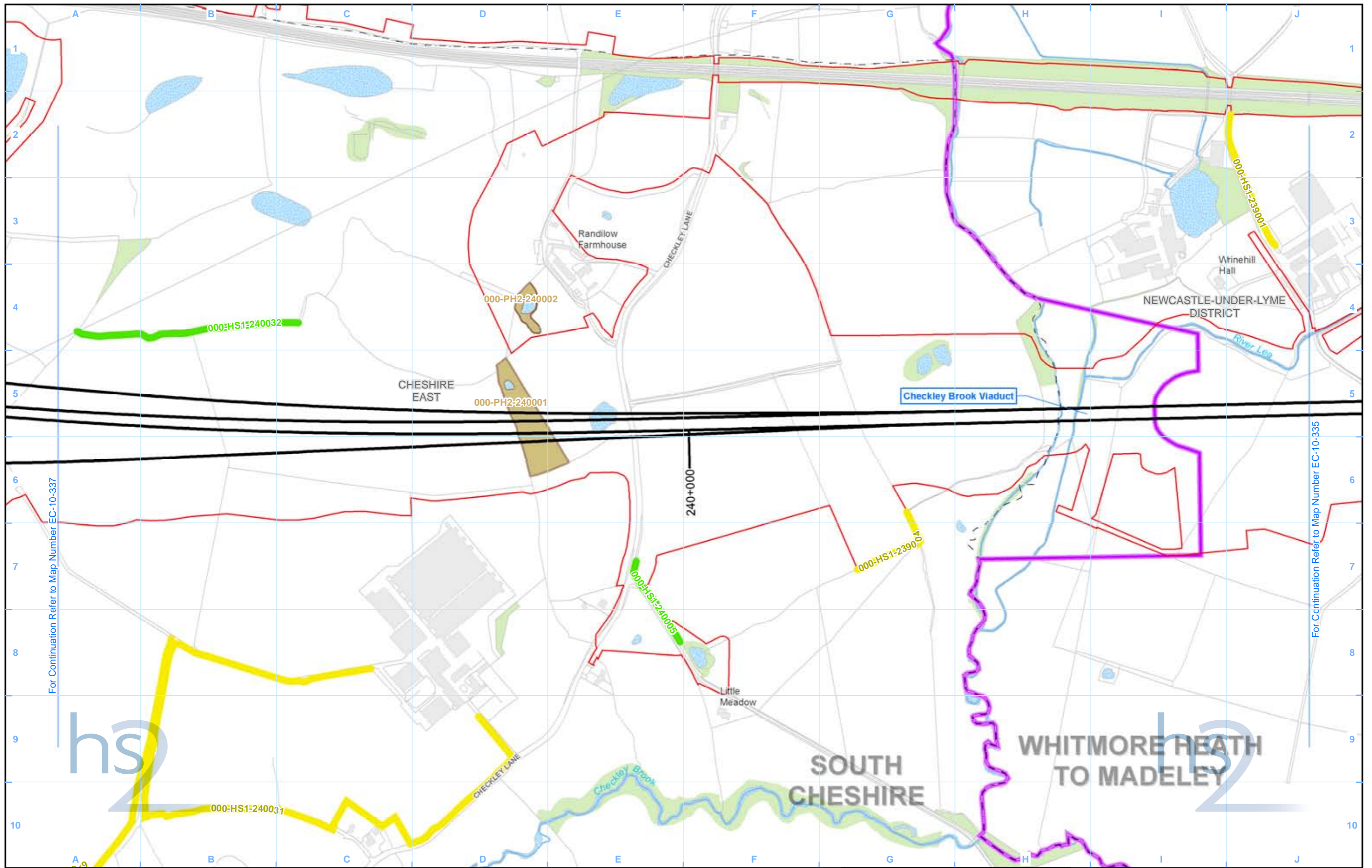
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Date: 14/06/17





For Continuation Refer to Map Number EC-10-337

For Continuation Refer to Map Number EC-10-335

| Legend |  |  |  |
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|                                     |                        |
|-------------------------------------|------------------------|
| Map Number                          | EC-10-336b             |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |

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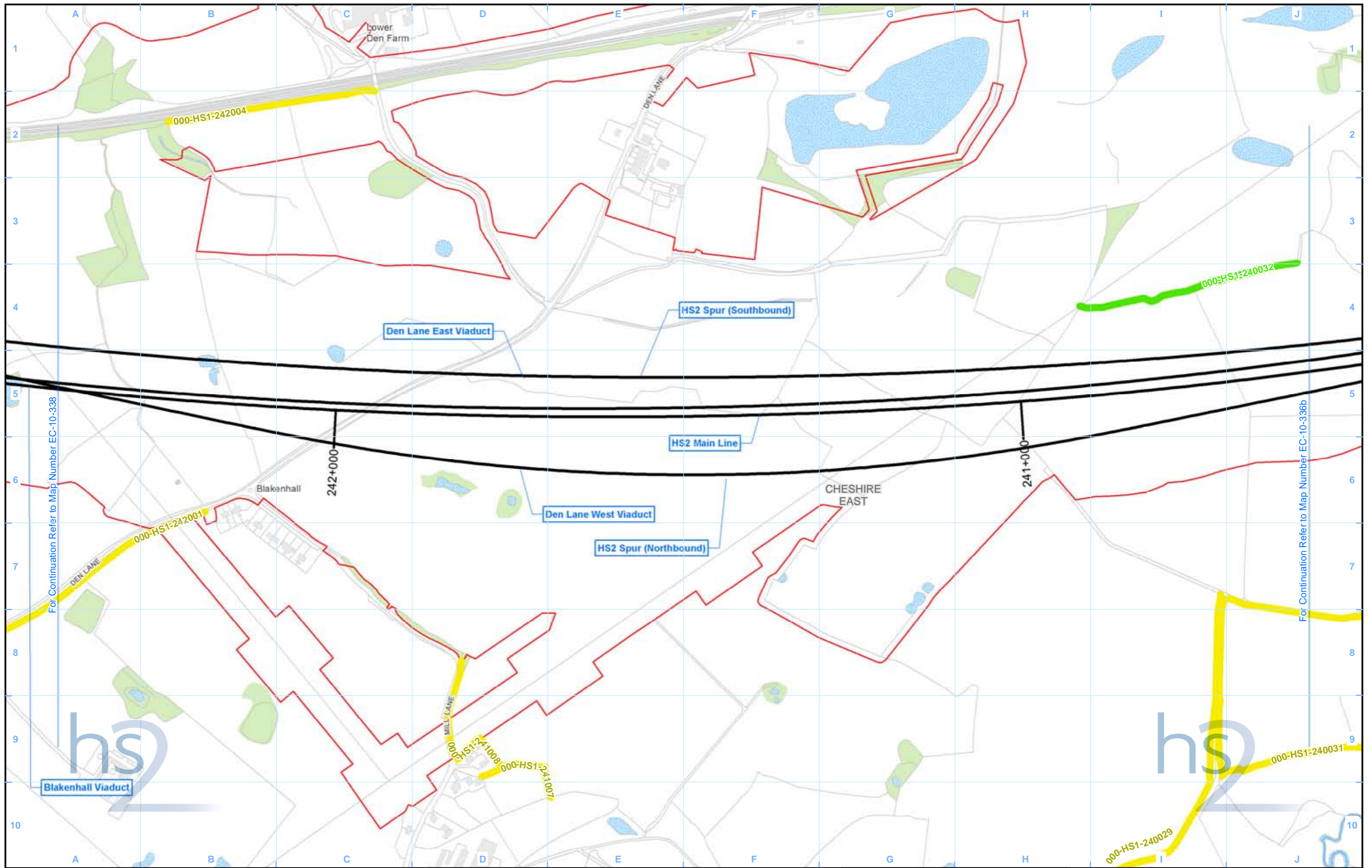
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | 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-10-337              |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |

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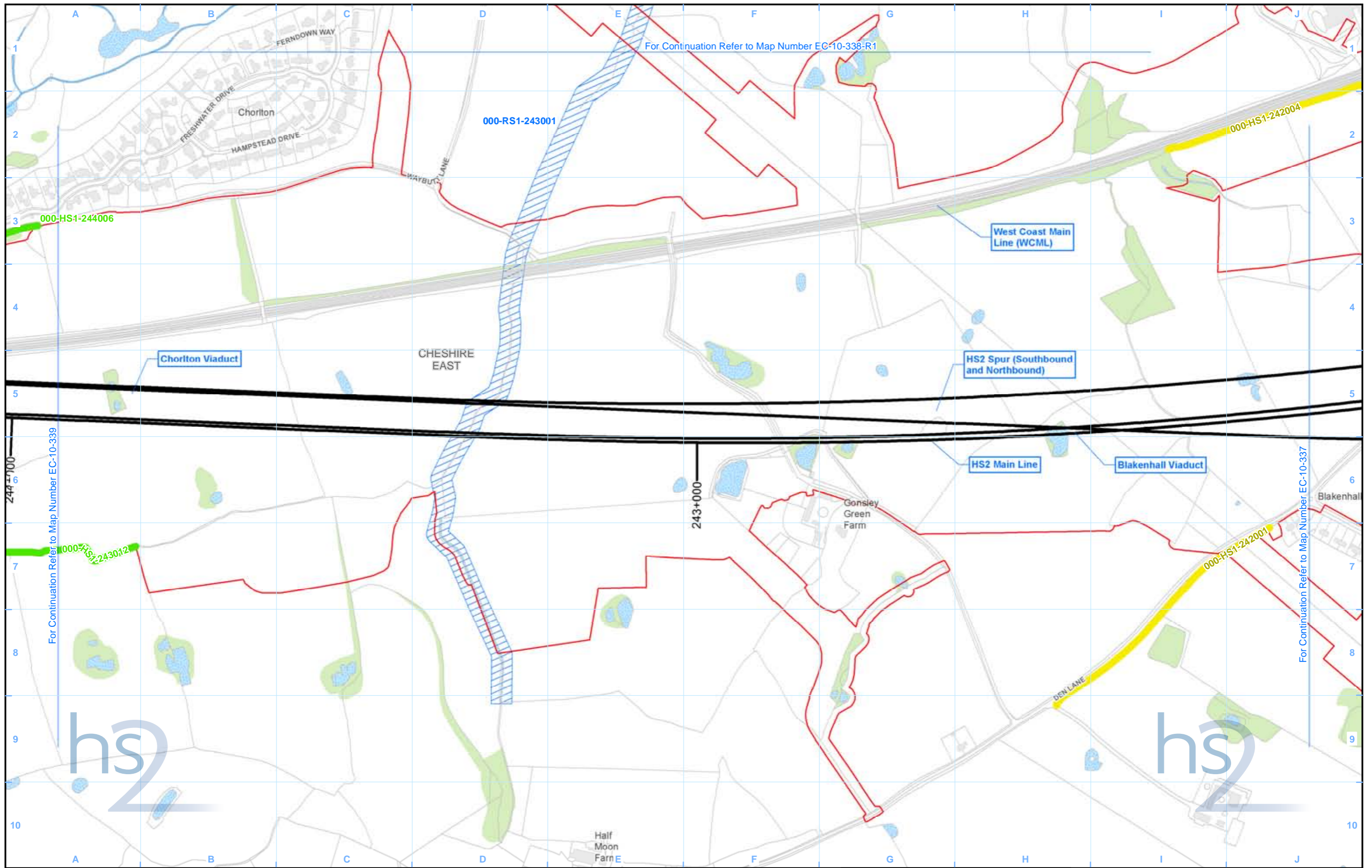
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For Continuation Refer to Map Number EC-10-339

For Continuation Refer to Map Number EC-10-337

| Legend |  |  |  |
|--------|--|--|--|
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|                                     |                        |
|-------------------------------------|------------------------|
| Map Number                          | EC-10-338              |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |

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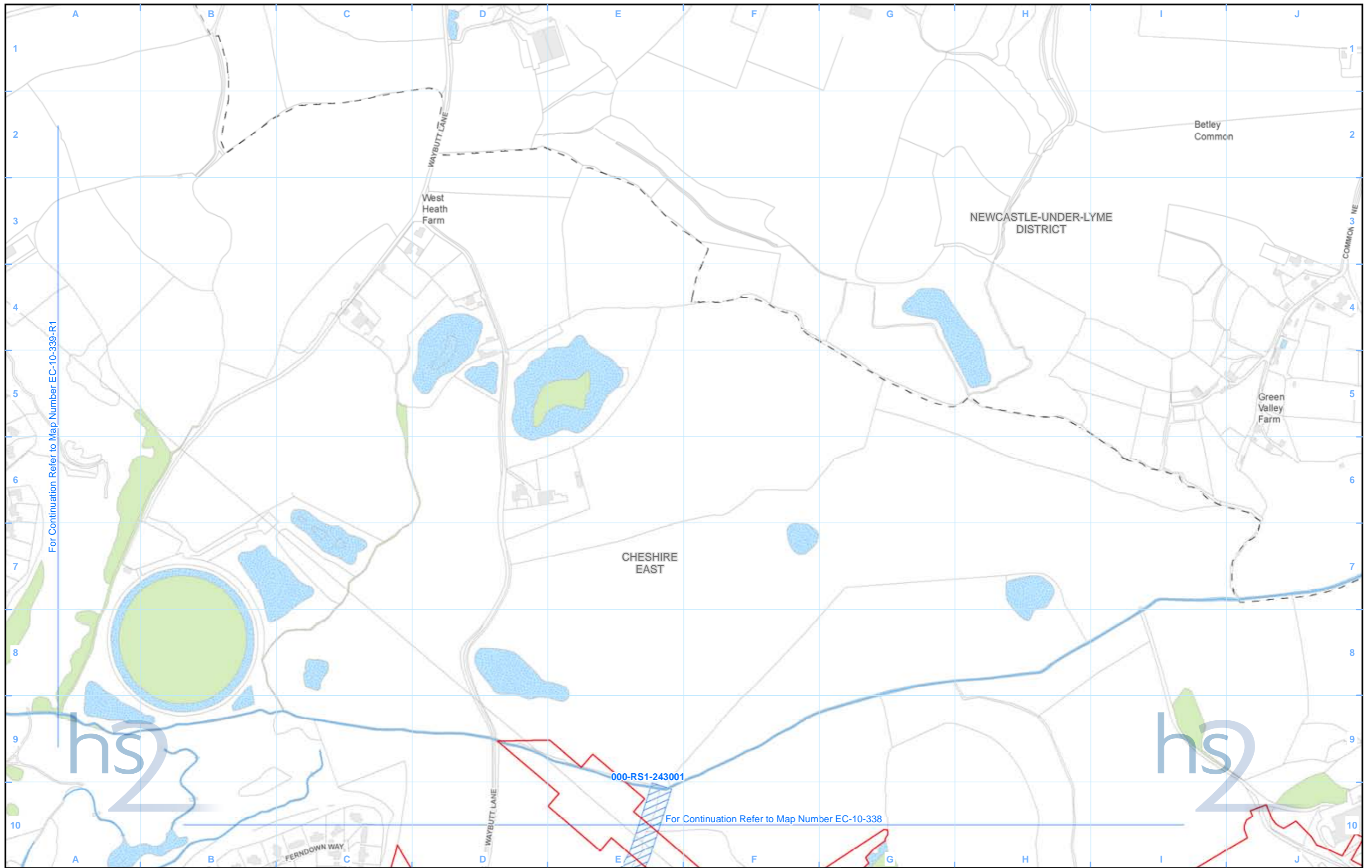
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Doc Number: C861-ARP-EV-MAP-000-080338-P03

Date: 14/06/17




For Continuation Refer to Map Number EC-10-339-R1

For Continuation Refer to Map Number EC-10-338

| 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-10-338-R1           |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |




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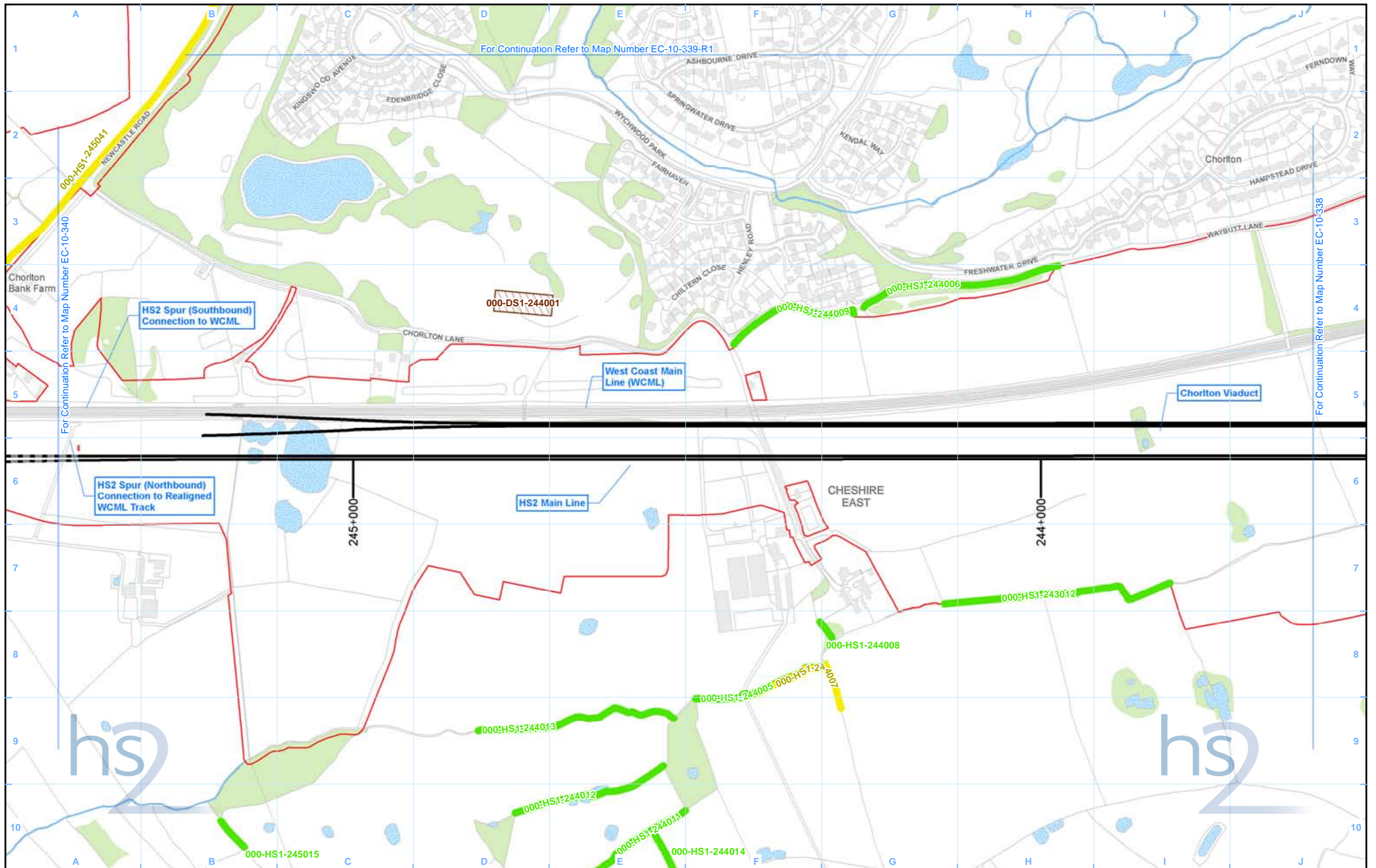


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Date: 14/06/17

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For Continuation Refer to Map Number EC-10-340

For Continuation Refer to Map Number EC-10-338

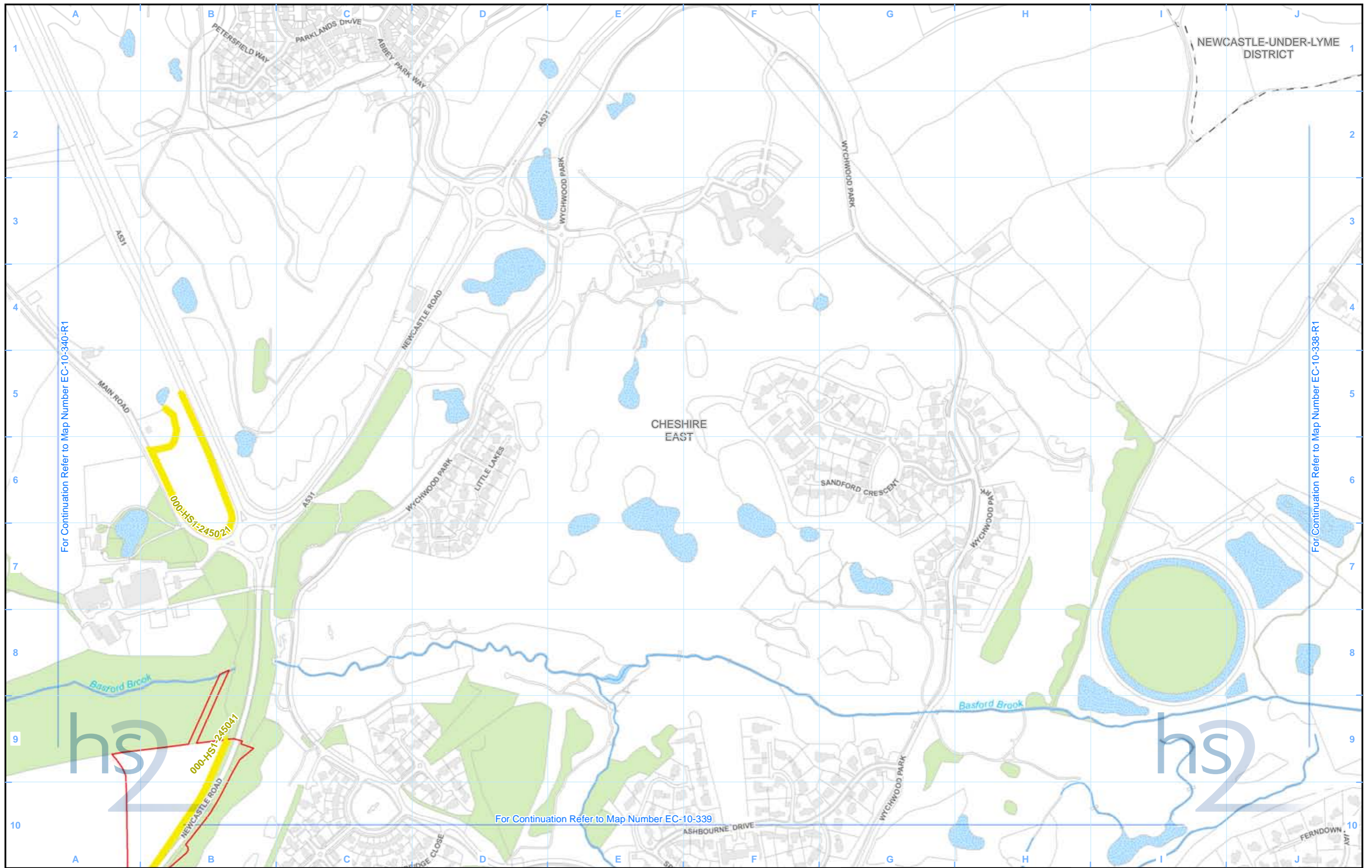
- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey
- River corridor survey extent
- River habitat survey extent
- Lake habitat

Map Number: EC-10-339  
 Map Name: Phase 2 Habitat Survey  
 Community Area 5: South Cheshire

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For Continuation Refer to Map Number EC-10-340-R1

For Continuation Refer to Map Number EC-10-338-R1

For Continuation Refer to Map Number EC-10-339

| Legend |             |  |                              |
|--------|-------------|--|------------------------------|
|        | Watercourse | National Vegetation Classification survey                      | River corridor survey extent |
|        | Water body  | Ditch vegetation survey  | River habitat survey extent  |
|        | Woodland    | 'Important' hedgerow confirmed by field survey                 | Lake habitat                 |
|        |             | Possible 'Important' hedgerow - no access available for survey |                              |
|        |             |  |                              |
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|                                     |                        |
|-------------------------------------|------------------------|
| Map Number                          | EC-10-339-R1           |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |

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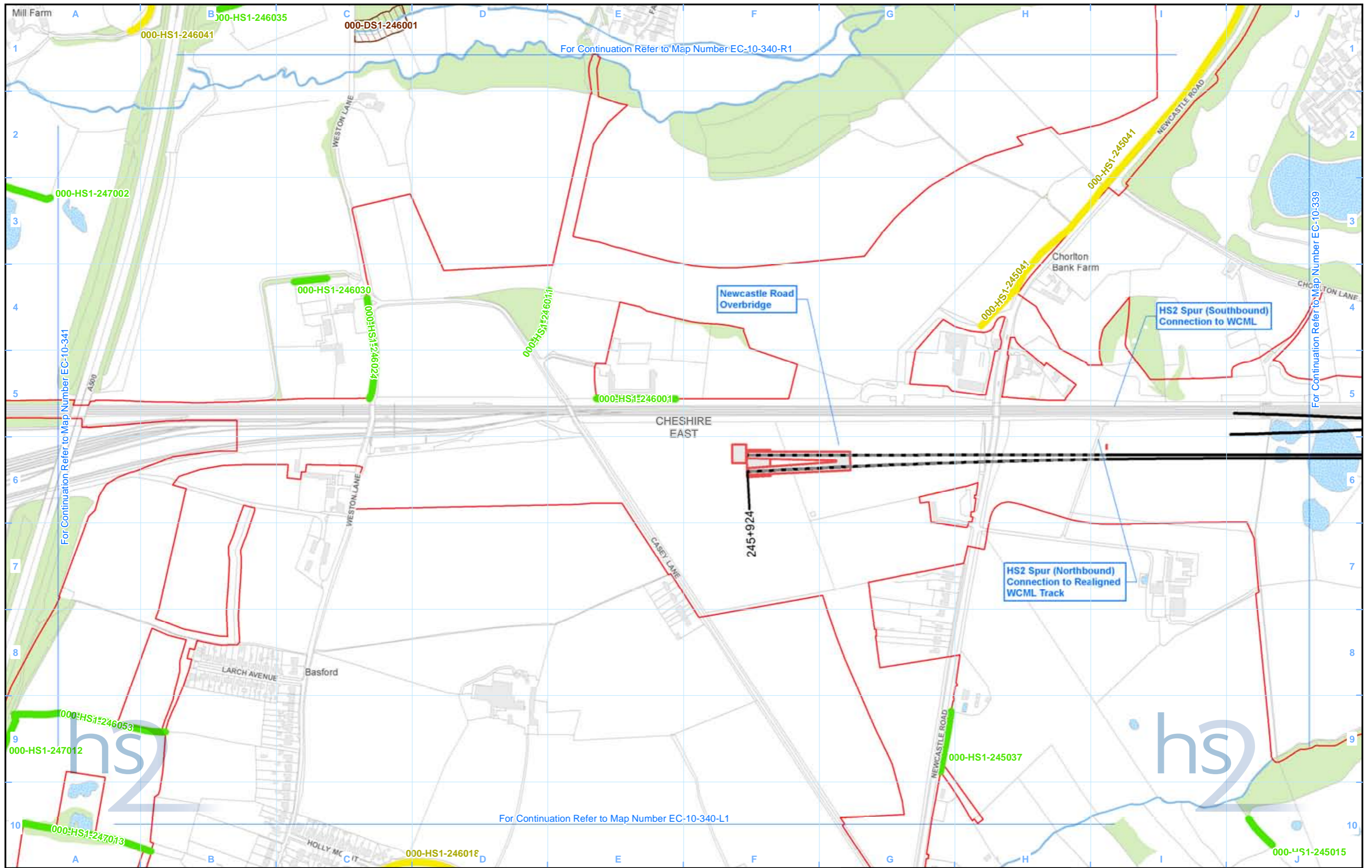
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| Legend  |             |  |                              |
|---|-------------|--|------------------------------|
| Route in bored tunnel                         | Watercourse | National Vegetation Classification survey                      | River 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 |             | Possible 'Important' hedgerow - no access available for survey |                              |
| Community area boundary                       |             |  |                              |
| District/Borough boundary                     |             |  |                              |

|                                     |                        |
|-------------------------------------|------------------------|
| Map Number                          | EC-10-340              |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |




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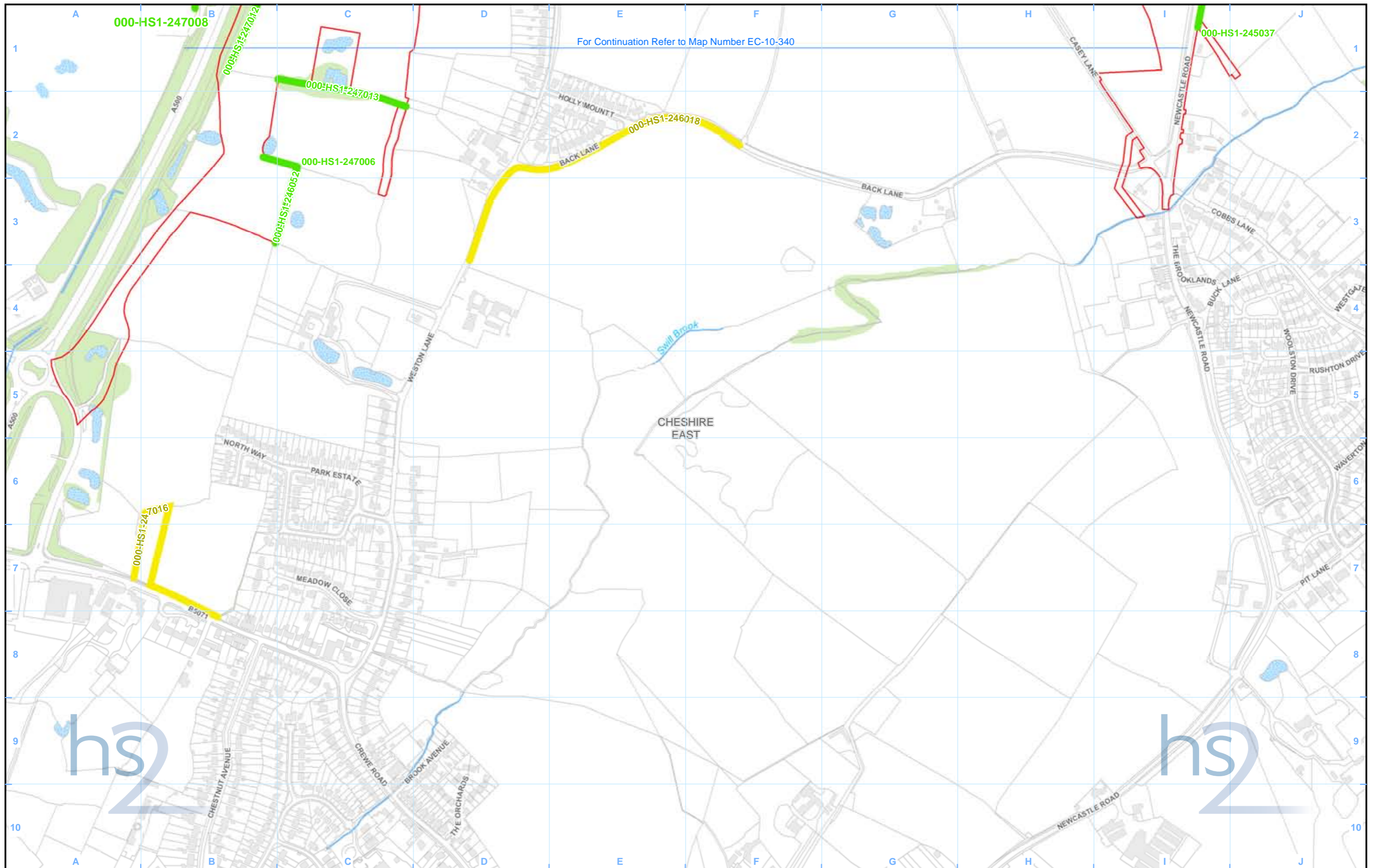
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Metres




Date: 14/06/17



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|-------------------------------------|------------------------|
| Map Number                          | EC-10-340-L1           |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |




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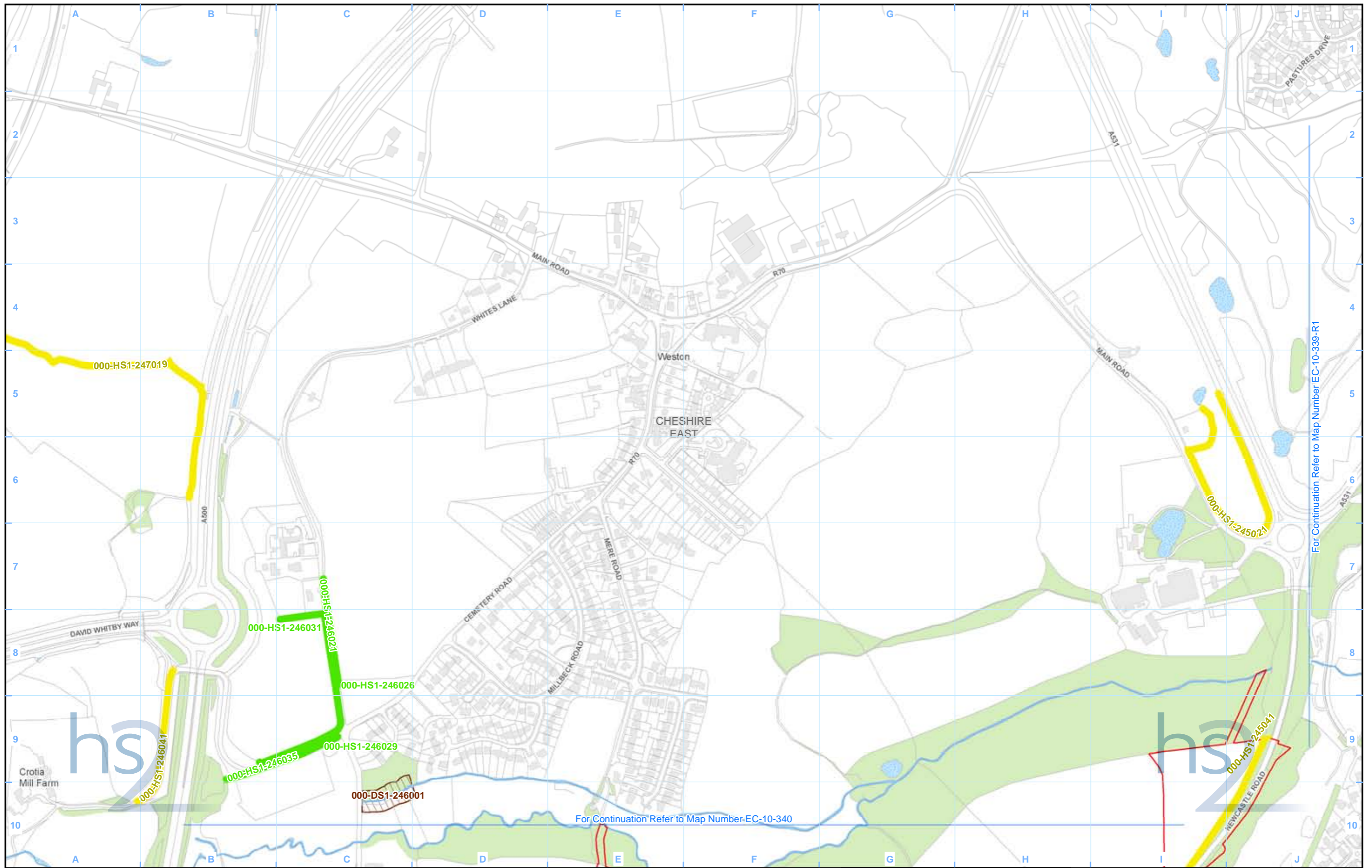
Scale at A3: 1:5,000



Metres

Date: 14/06/17





For Continuation Refer to Map Number EC-10-339-R1

For Continuation Refer to Map Number EC-10-340

| Legend |  |  |  |
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|-------------------------------------|------------------------|
| Map Number                          | EC-10-340-R1           |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |

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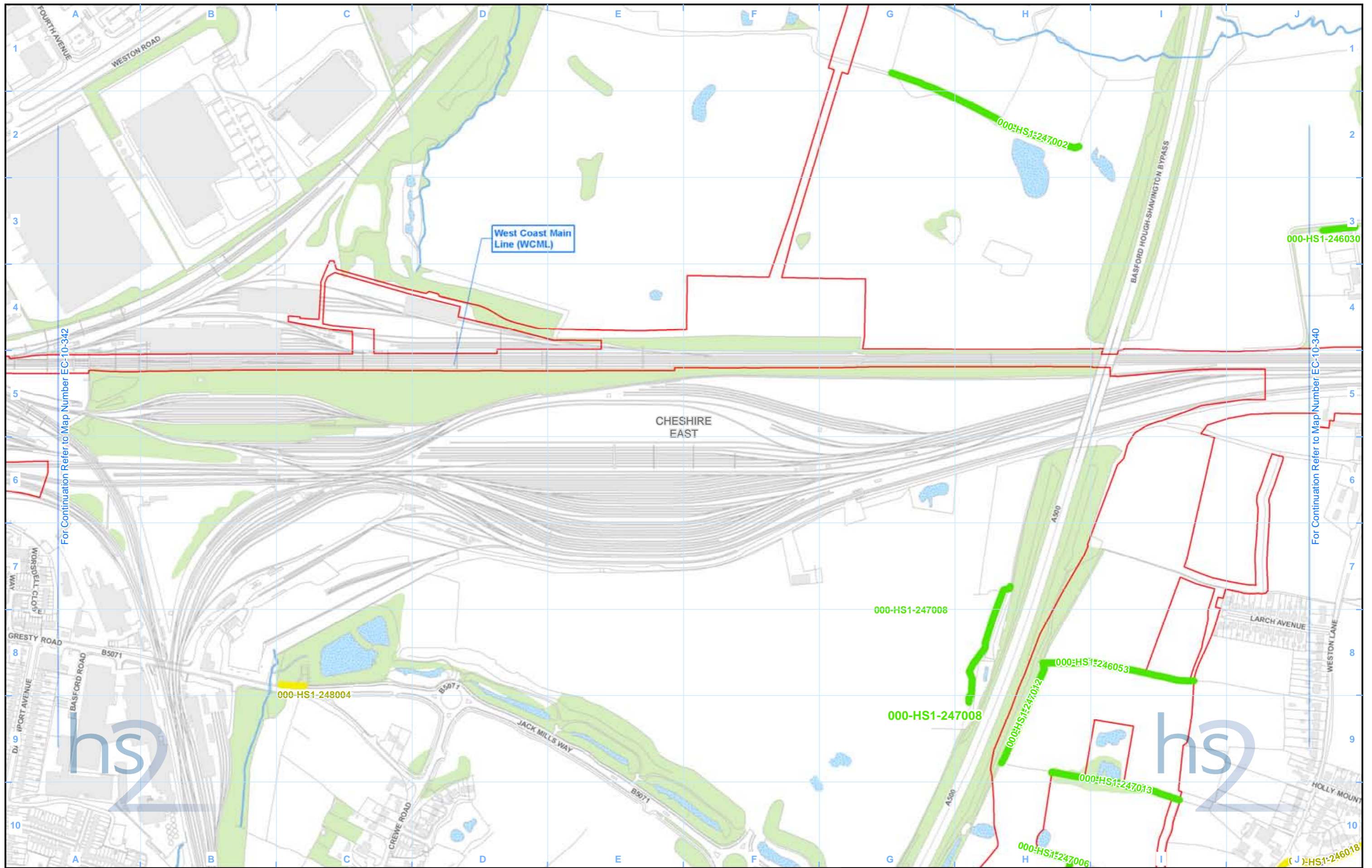
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For Continuation Refer to Map Number EC-10-340

| 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-10-341              |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |

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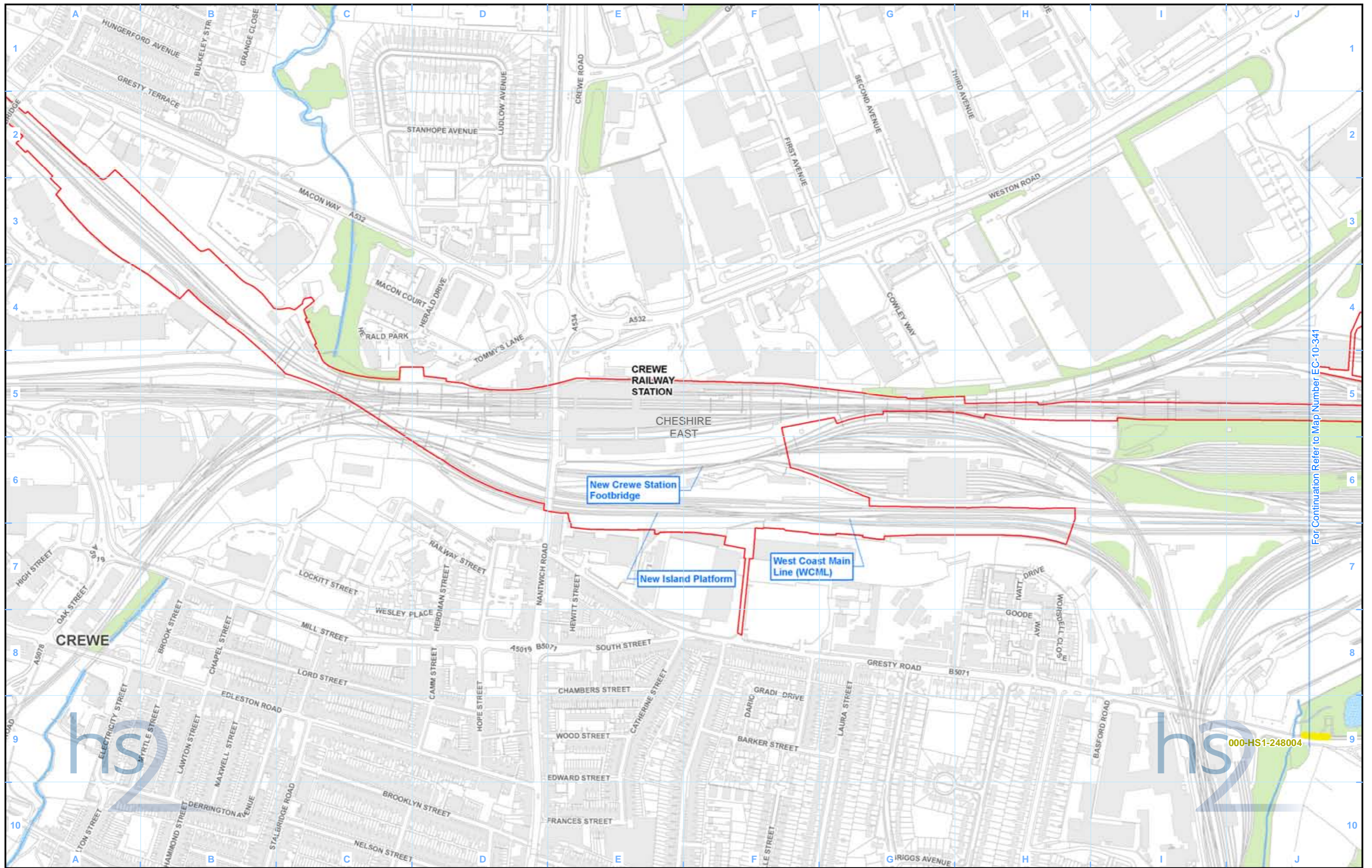
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Date: 14/06/17



For Continuation Refer to Map Number EC-10-341

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

- Watercourse
- Water body
- Woodland
- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey
- River corridor survey extent
- River habitat survey extent
- Lake habitat

|                                     |                        |
|-------------------------------------|------------------------|
| Map Number                          | EC-10-342              |
| Map Name                            | Phase 2 Habitat Survey |
| Community Area 5:<br>South Cheshire |                        |

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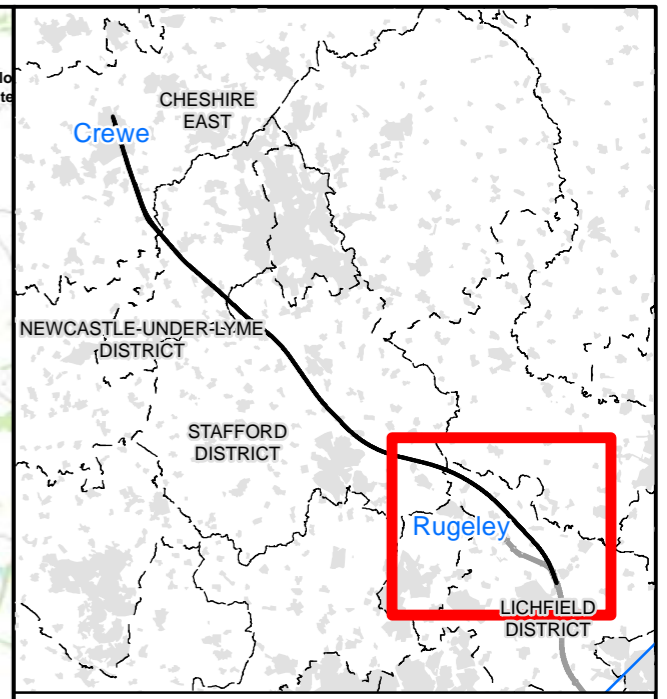
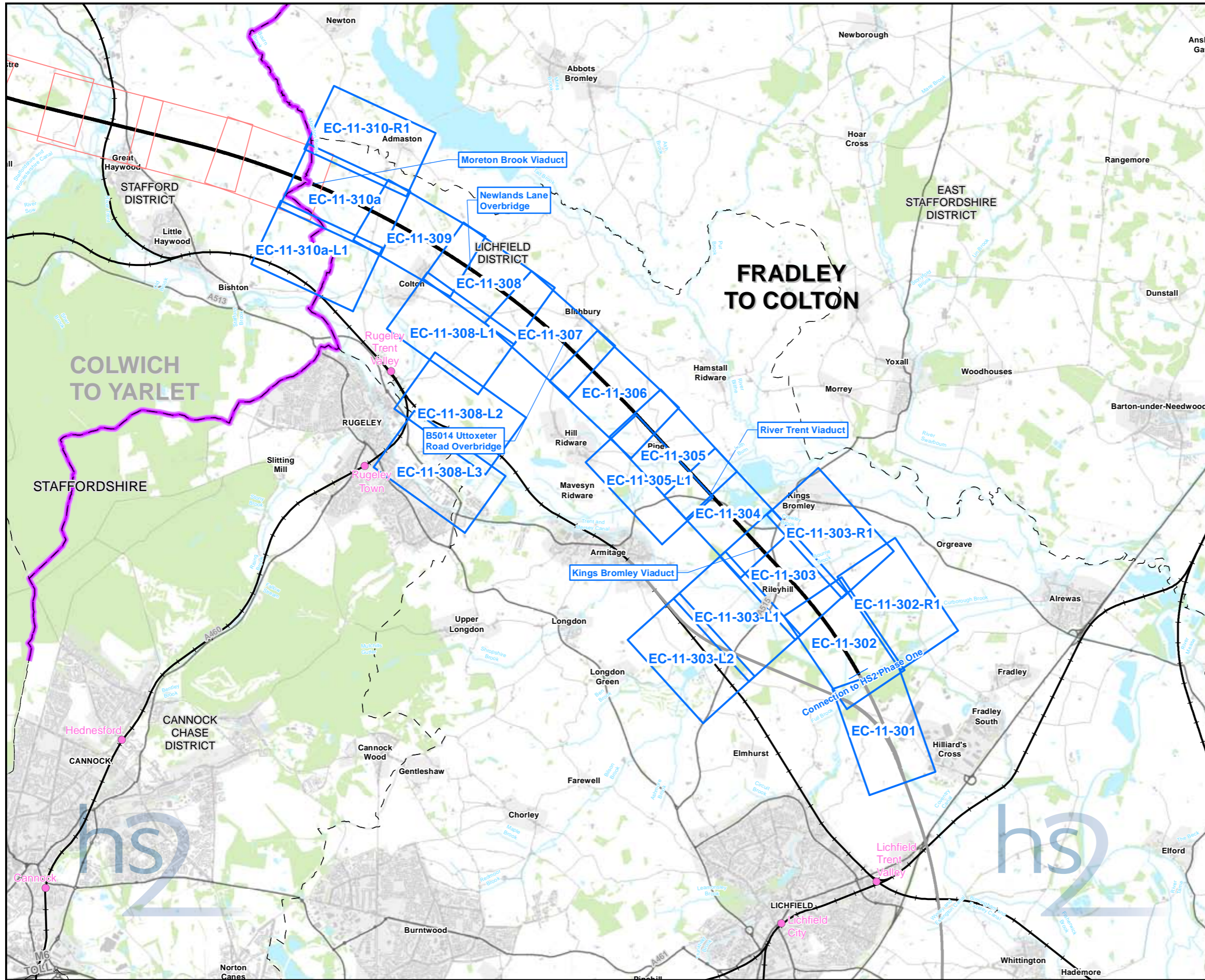
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High Speed Two Phase 2a (West Midlands-Crewe)  
Background Information and Data  
**EC-11 - Other Protected and Notable Species (1)**



**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
  - Map sheets not included in this community area

|            |   |
|------------|---|
| Map Number | EC-11-INDEX-CA1   |
| Map Name   | Index Map of:<br>Other Protected and Notable<br>Species (1) |
|            | Community Area 1:<br>Fradley to Colton                      |

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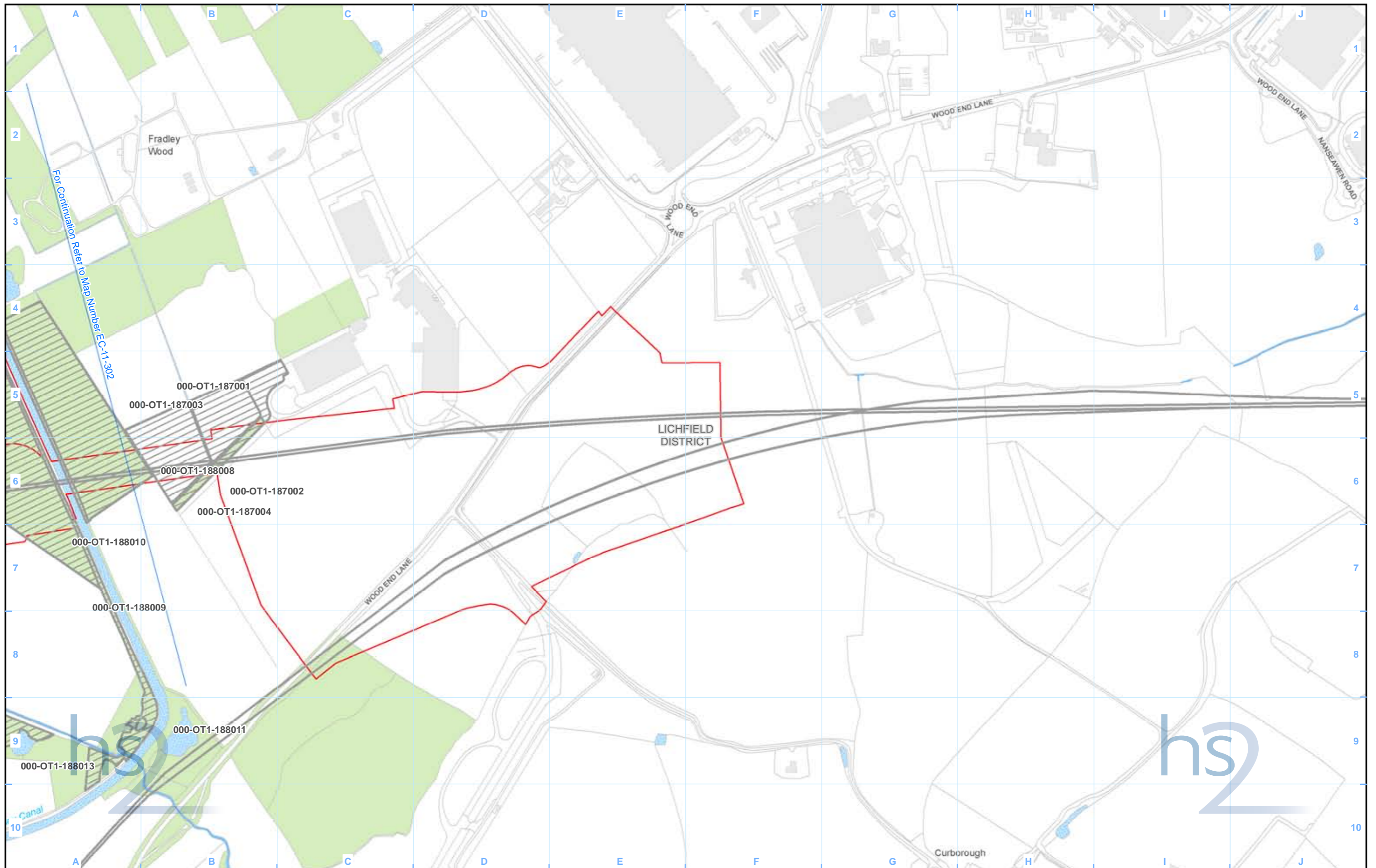
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Doc Number: C861-ARP-EV-MAP-000-081001-P04 **Date: 14/06/17**

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



| Legend |   | Otter: | White clawed crayfish: | Pond survey: | Fish: |
|--------|---|--------|------------------------|--------------|-------|
|        | Route in bored tunnel                         |        |                        |              |       |
|        | Route on surface                              |        |                        |              |       |
|        | Depot, station, headhouse or portal building  |        |                        |              |       |
|        | Land potentially required during construction |        |                        |              |       |
|        | Community area boundary                       |        |                        |              |       |
|        | District/Borough boundary                     |        |                        |              |       |
|        | Watercourse                                   |        |                        |              |       |
|        | Water body                                    |        |                        |              |       |
|        | Woodland (verified by survey)                 |        |                        |              |       |

|  |   |
|--|---|
| Map Number                             | EC-11-301                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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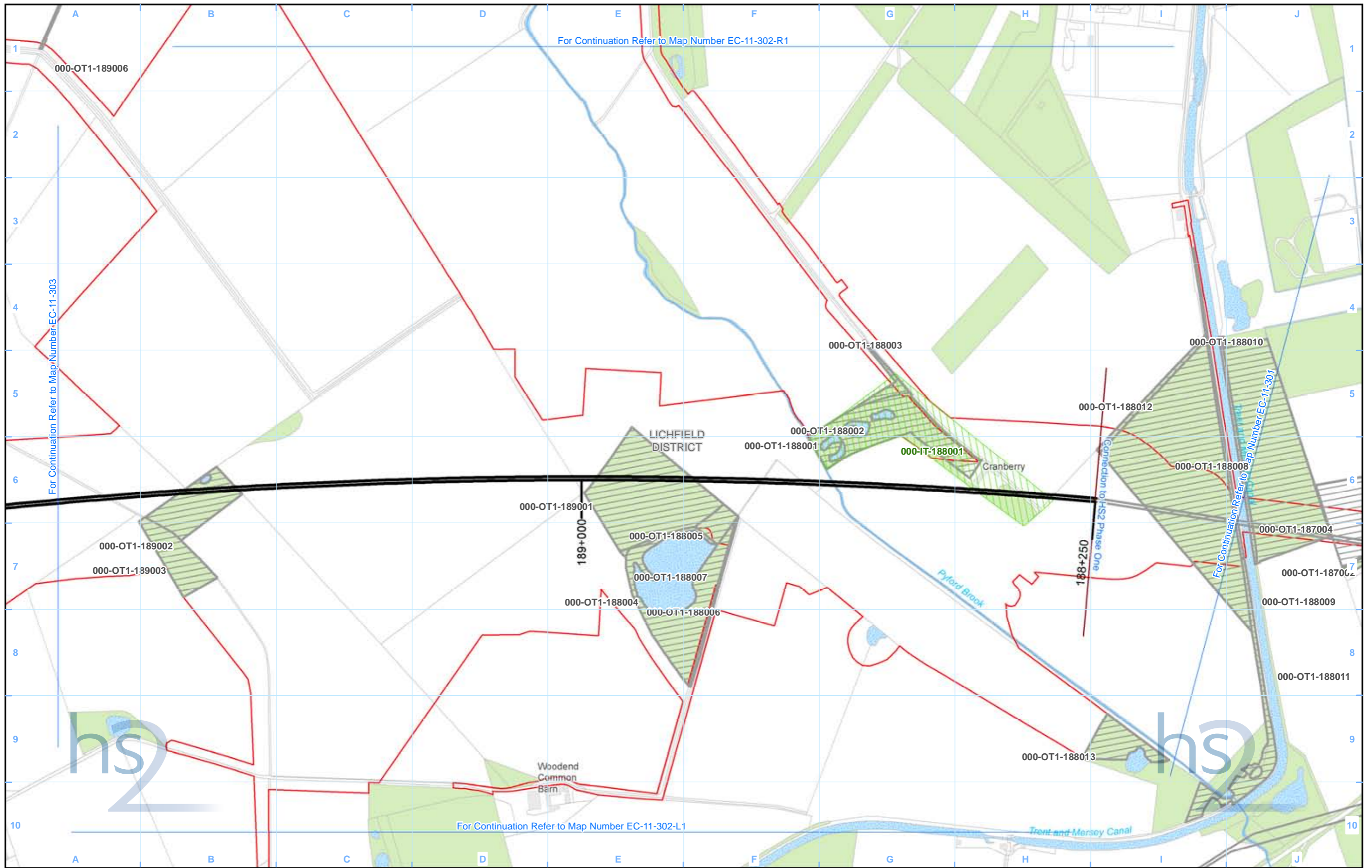
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-081346-P03 Date: 14/06/17



For Continuation Refer to Map Number EC-11-302-R1

For Continuation Refer to Map Number EC-11-303

For Continuation Refer to Map Number EC-11-301

LICHFIELD DISTRICT

Cranberry

Pyford Brook

Trent and Mersey Canal

Woodend Common Barn

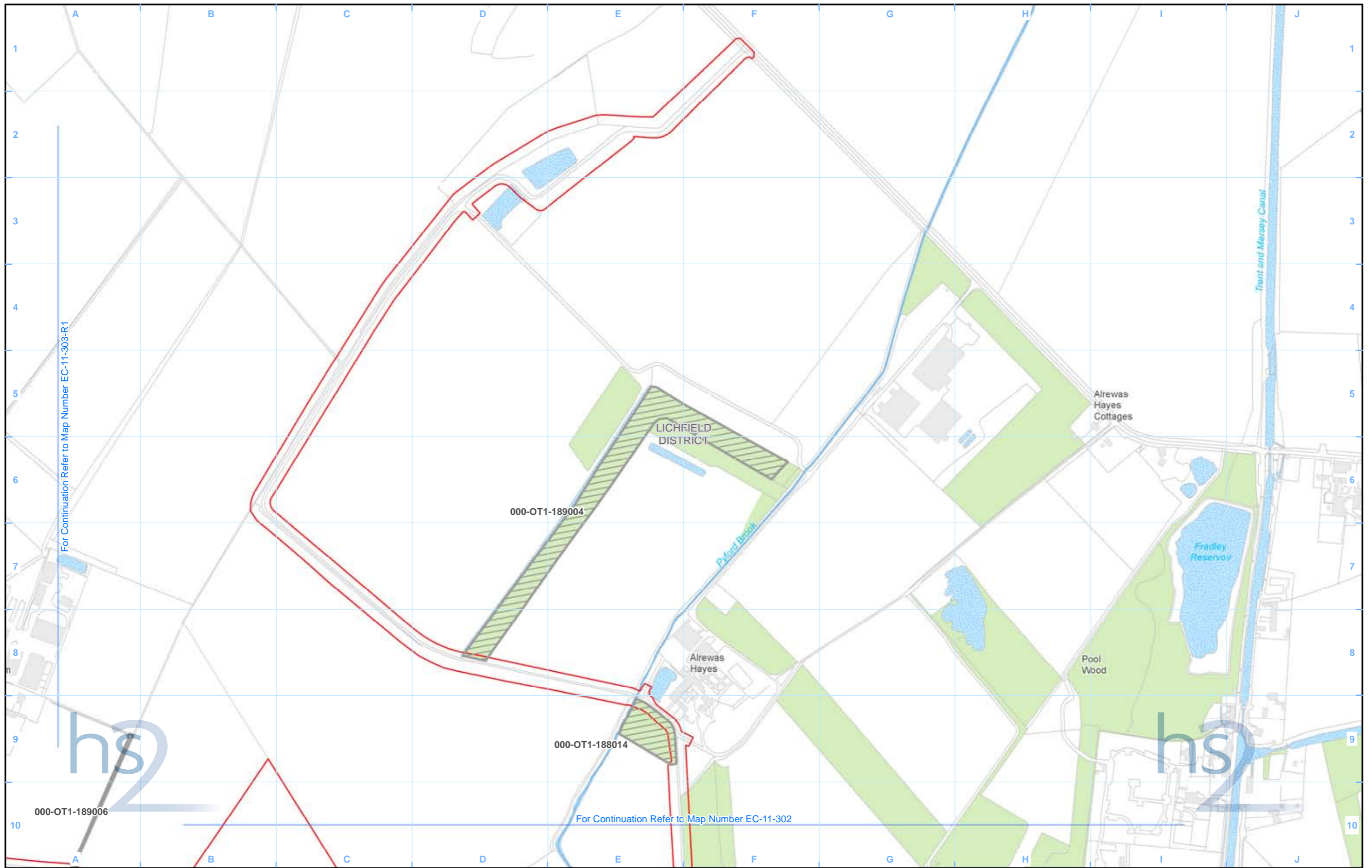
189+000

188+250

For Continuation Refer to Map Number EC-11-302-L1

|   |  |  |  |   |  |  |  |  |                          |  |  |
|---|--|--|--|---|--|--|--|--|--------------------------|--|--|
| <b>Legend</b><br>Route in bored tunnel<br>Route on surface<br>Depot, station, headhouse or portal building<br>Land potentially required during construction<br>Community area boundary<br>District/Borough boundary |  | Watercourse<br>Water body<br>Woodland (verified by survey) |  | <b>Otter:</b><br>Active otter holt<br>Potential otter holt<br>Otter terrestrial habitat |  | <b>White clawed crayfish:</b><br>Manual search and/or trapping conducted and presence confirmed<br>Manual search and/or trapping conducted and assumed absent<br>Site identified as potentially suitable but no access available |  | <b>Pond survey:</b><br>Pond survey - national pond survey<br>Pond survey - PSYM<br>Pond survey - rapid assessment method |                          | <b>Fish:</b><br>Fish survey location<br><b>Terrestrial invertebrate:</b><br>Terrestrial invertebrate survey extent |  |
| Map Number: EC-11-302<br>Map Name: Other Protected and Notable Species (1)  |  |  |  |   |  | Registered in England. Registration number 06791686.<br>Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.<br>© Crown copyright and database rights 2017.<br>Ordnance Survey Licence Number 100049190.                 |  |  | Scale at A3: 1:5,000<br> |  |  |
| Community Area 1:<br>Fradley to Colton  |  |  | Doc Number: C861-ARP-EV-MAP-000-081345-P03 |   |  | Date: 14/06/17   |  |  |                          |  |  |





| Legend |   | Otter: |                           | White clawed crayfish: |   | Pond survey: |                                       | Fish: |  |
|--------|---|--------|---------------------------|------------------------|---|--------------|---------------------------------------|-------|--|
|        | Route in bored 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)                 |        |                           |                        |   |              |                                       |       |  |

|            |   |
|------------|---|
| Map Number | EC-11-302-R1                            |
| Map Name   | Other Protected and Notable Species (1) |
|            | Community Area 1:<br>Fradley to Colton  |

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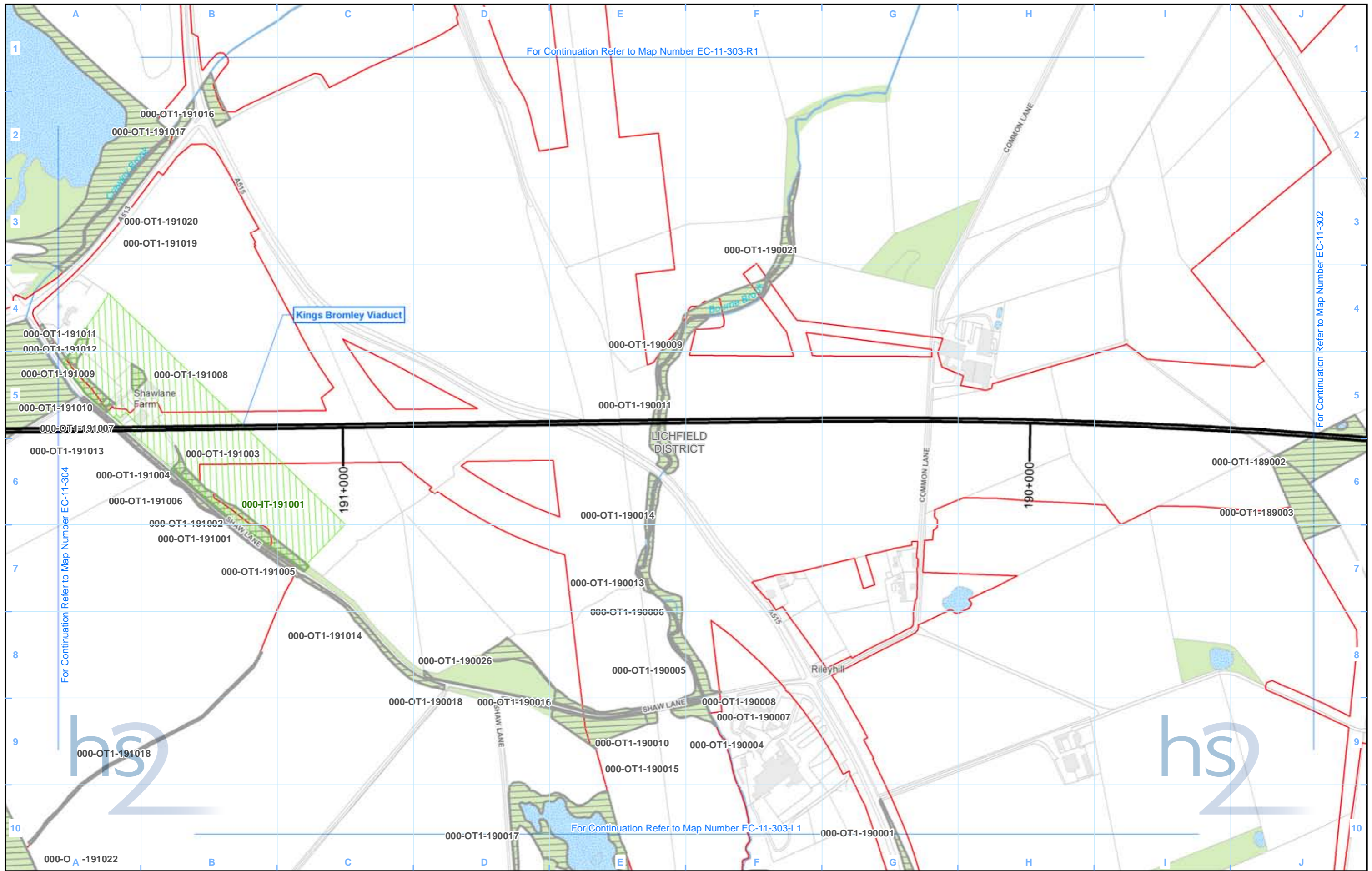
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Doc Number: C861-ARP-EV-MAP-000-081344-P03

Date: 14/06/17



For Continuation Refer to Map Number EC-11-303-R1

For Continuation Refer to Map Number EC-11-302

For Continuation Refer to Map Number EC-11-304

For Continuation Refer to Map Number EC-11-303-L1

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

|  |   |
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| Map Number                             | EC-11-303                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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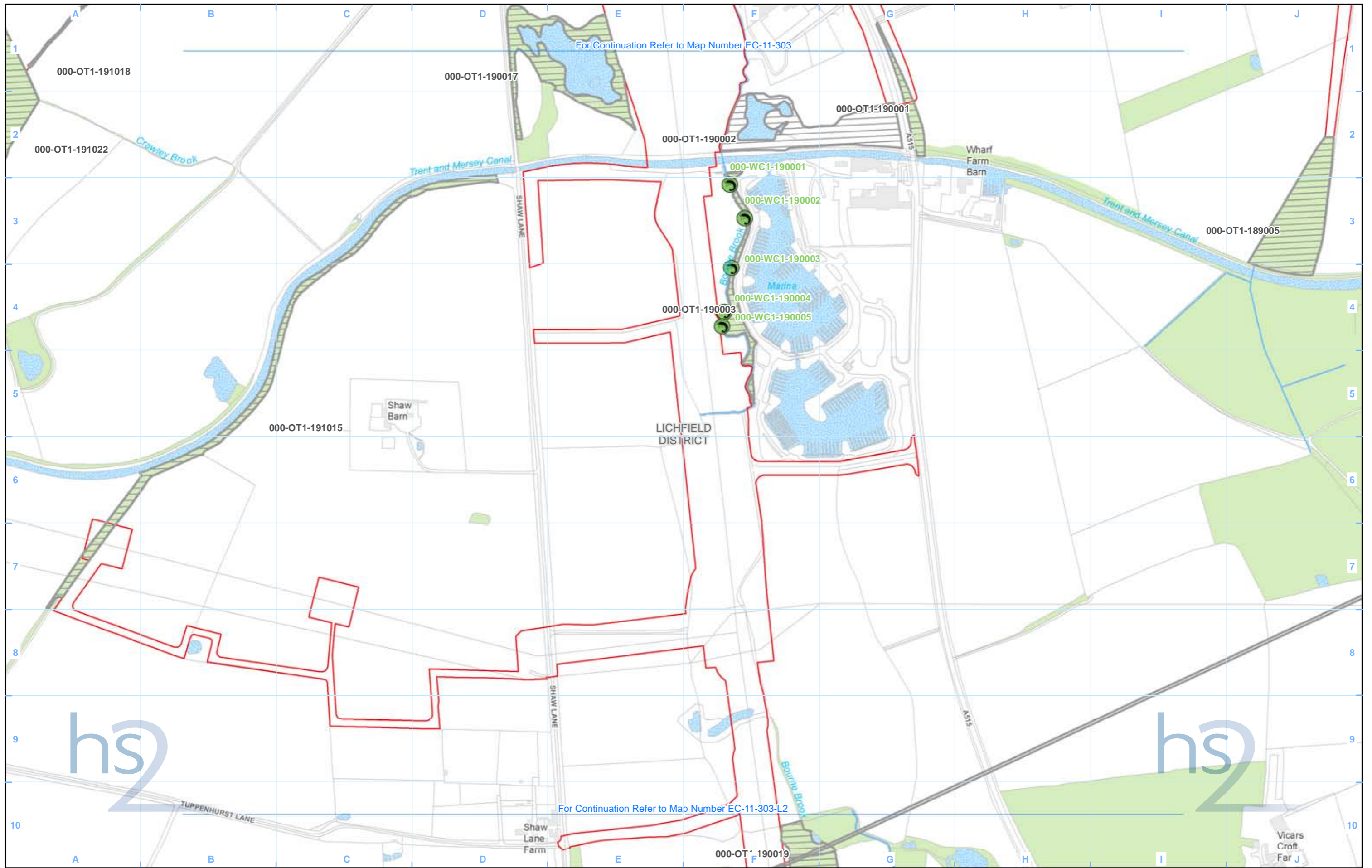
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Date: 14/06/17

Scale at A3: 1:5,000

0 50 100 150 200 Metres



For Continuation Refer to Map Number EC-11-303

For Continuation Refer to Map Number EC-11-303-L2

| Legend |   | Otter: |                               | White clawed crayfish: |                           | Pond survey: |   | Fish: |                                       |  |  |
|--------|---|--------|-------------------------------|------------------------|---------------------------|--------------|---|-------|---------------------------------------|--|--|
|        | Route in bored tunnel                         |        | Watercourse                   |                        | Active otter holt         |              | Manual search and/or trapping conducted and presence confirmed  |       | Pond survey - national pond survey    |  | Fish survey location   |
|        | Route on surface                              |        | Water body                    |                        | 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  |        | Woodland (verified by survey) |                        | 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                     |        |                               |                        |                           |              |   |       |                                       |  |  |

|  |   |
|--|---|
| Map Number                             | EC-11-303-L1                            |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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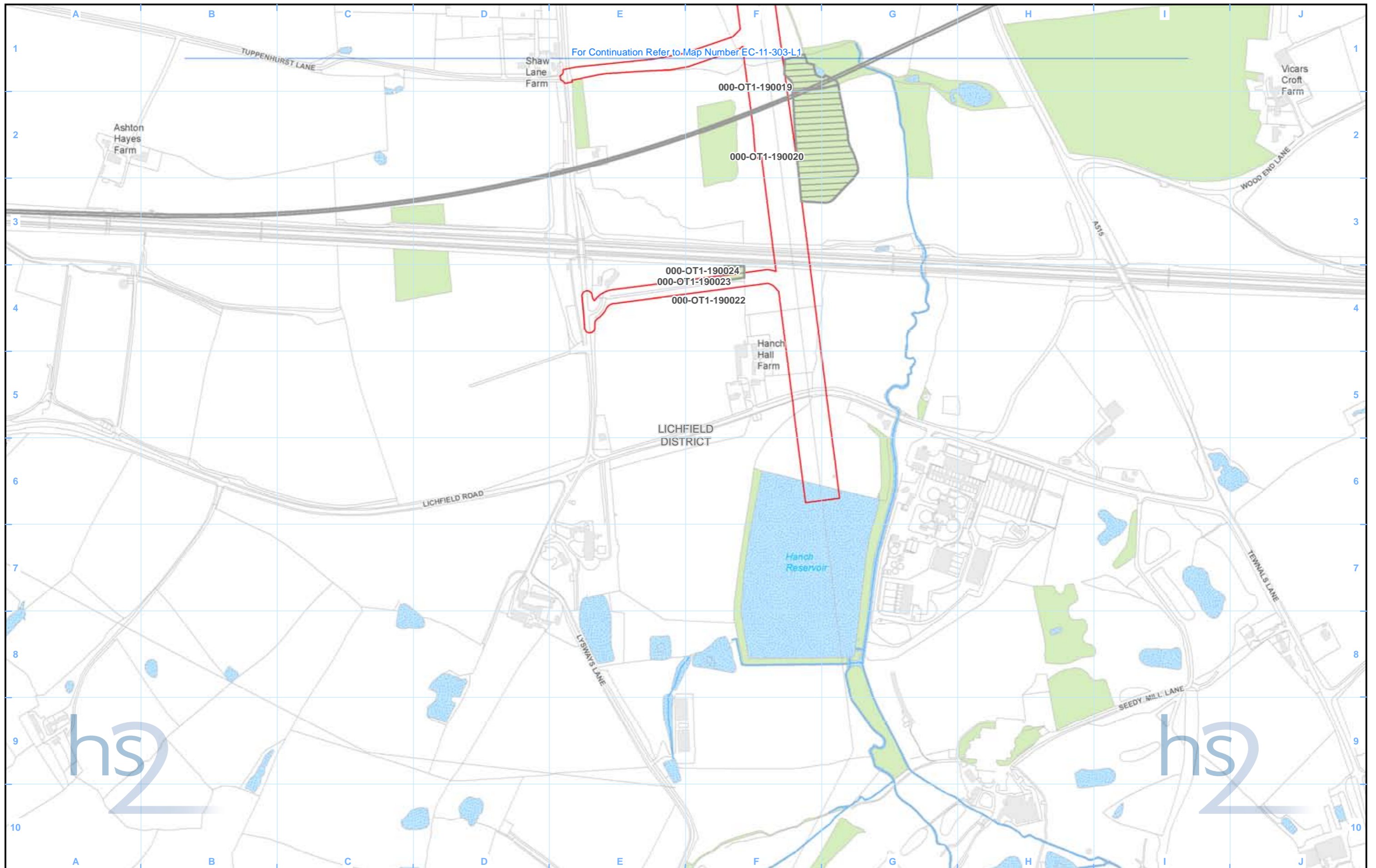
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-081342-P03 Date: 14/06/17



| Legend |   | Otter: |                               | White clawed crayfish: |                           | Pond survey: |   | Fish: |                                       |  |  |
|--------|---|--------|-------------------------------|------------------------|---------------------------|--------------|---|-------|---------------------------------------|--|--|
|        | Route in bored tunnel                         |        | Watercourse                   |                        | Active otter holt         |              | Manual search and/or trapping conducted and presence confirmed  |       | National pond survey                  |  | Fish survey location                   |
|        | Route on surface                              |        | Water body                    |                        | Potential otter holt      |              | Manual search and/or trapping conducted and assumed absent      |       | Pond survey - PSYM                    |  | Terrestrial invertebrate survey extent |
|        | Depot, station, headhouse or portal building  |        | Woodland (verified by survey) |                        | 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                     |        |                               |                        |                           |              |   |       |                                       |  |  |

|            |   |
|------------|---|
| Map Number | EC-11-303-L2                            |
| Map Name   | Other Protected and Notable Species (1) |
|            | Community Area 1:<br>Fradley to Colton  |

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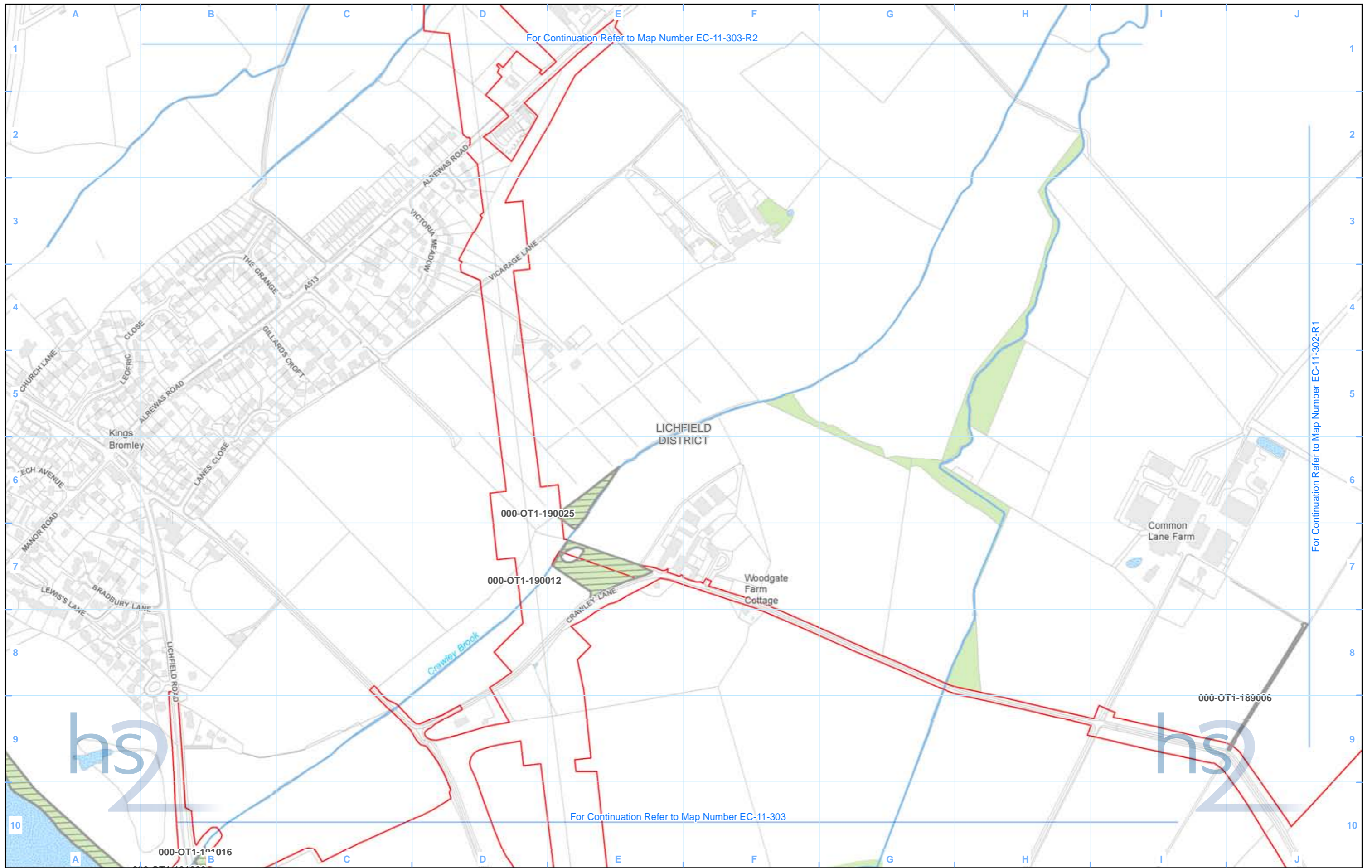
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For Continuation Refer to Map Number EC-11-303-R2

For Continuation Refer to Map Number EC-11-302-R1

For Continuation Refer to Map Number EC-11-303

| Legend                           |   |
|----------------------------------|---|
|                                  | Route in bored tunnel   |
|                                  | Route on surface  |
|                                  | Depot, station, headhouse or portal building                    |
|                                  | Land potentially required during construction                   |
|                                  | Community area boundary   |
|                                  | District/Borough boundary                                       |
|                                  | Watercourse   |
|                                  | Water body  |
|                                  | Woodland (verified by survey)                                   |
| <b>Otter:</b>                    |   |
|                                  | 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-11-303-R1                            |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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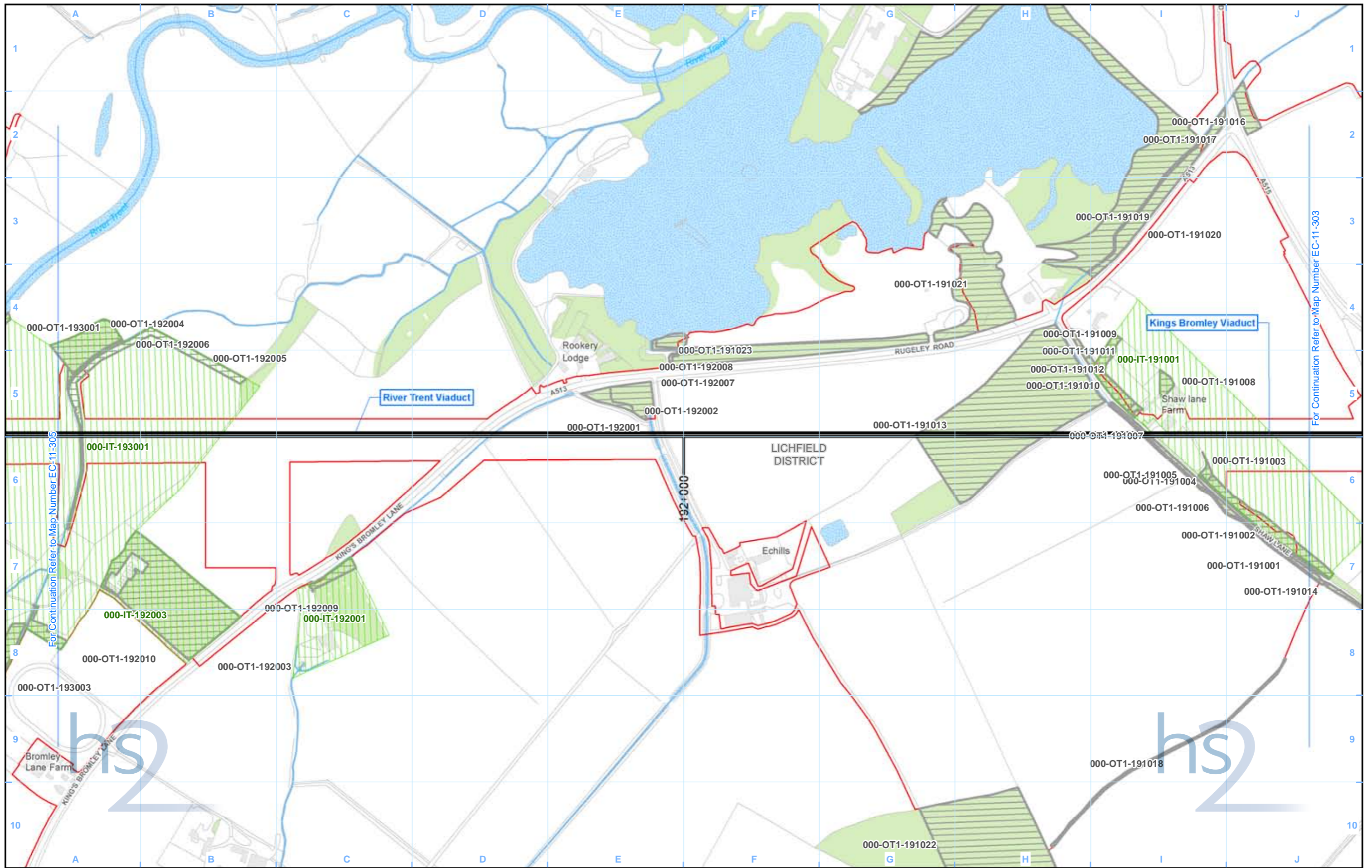
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**Legend**

|  |   |  |   |   |   |
|--|---|--|---|---|---|
| <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 (verified by survey)</li> </ul> | <p><b>Otter:</b></p> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Otter terrestrial habitat</li> </ul> | <p><b>White clawed crayfish:</b></p> <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> | <p><b>Pond survey:</b></p> <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> | <p><b>Fish:</b></p> <ul style="list-style-type: none"> <li> Fish survey location</li> </ul> <p><b>Terrestrial invertebrate:</b></p> <ul style="list-style-type: none"> <li> Terrestrial invertebrate survey extent</li> </ul> |
|--|---|--|---|---|---|

|  |   |
|--|---|
| Map Number                             | EC-11-304                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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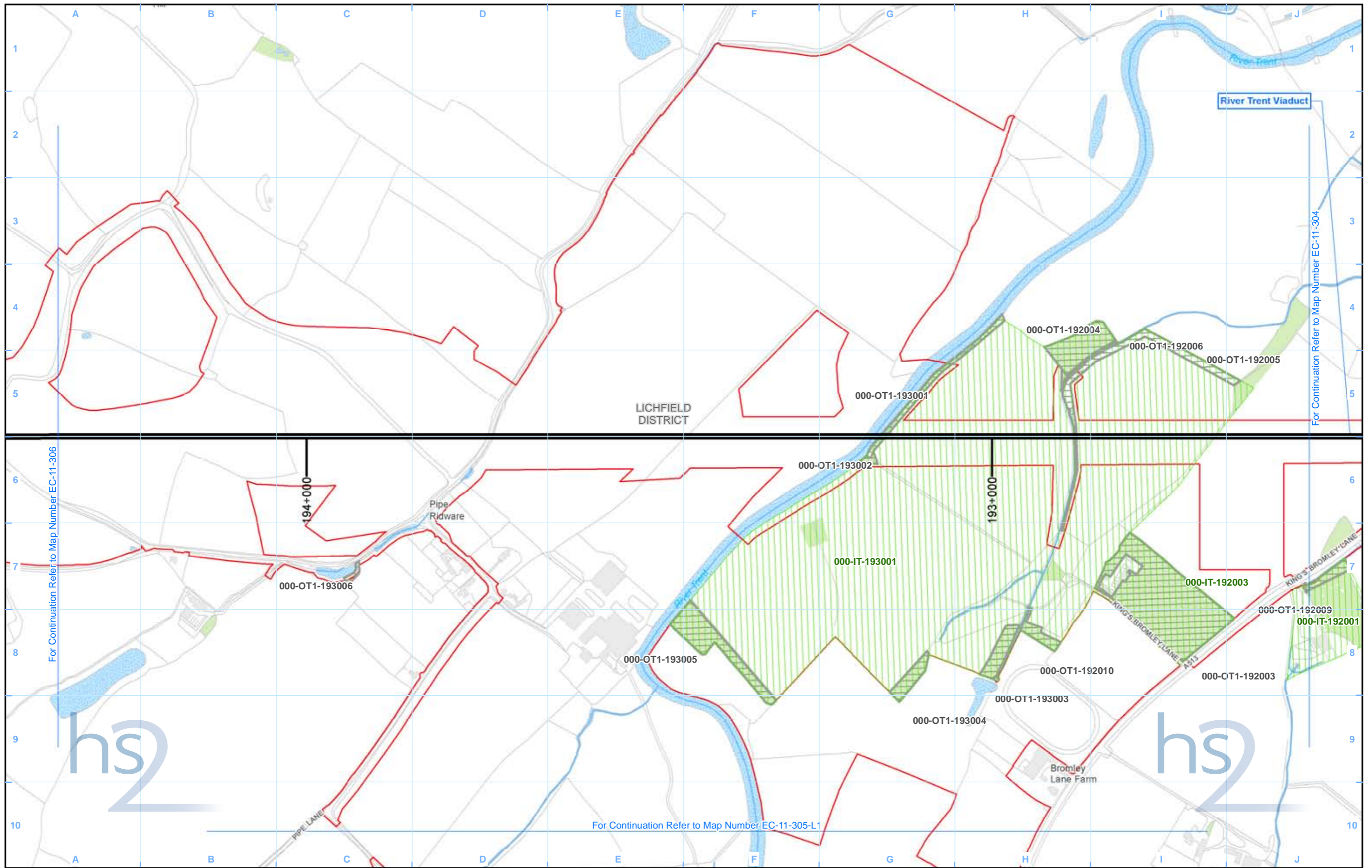
Date: 14/06/17

Scale at A3: 1:5,000

0 50 100 150 200 Metres

For Continuation Refer to Map Number EC-11-303

For Continuation Refer to Map Number EC-11-305



**Legend**

|  |   |  |                               |
|--|---|--|-------------------------------|
|  | Route in bored tunnel                         |  | Watercourse                   |
|  | Route on surface                              |  | Water body                    |
|  | Depot, station, headhouse or portal building  |  | Woodland (verified by survey) |
|  | Land potentially required during construction |  |                               |
|  | Community area boundary                       |  |                               |
|  | District/Borough boundary                     |  |                               |

**Otter:**

|  |                           |
|--|---------------------------|
|  | Active otter holt         |
|  | Potential otter holt      |
|  | Otter terrestrial habitat |

**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 |

**Pond survey:**

|  |                                       |
|--|---------------------------------------|
|  | Pond survey - national pond survey    |
|  | Pond survey - PSYM                    |
|  | Pond survey - rapid assessment method |

**Fish:**

|  |  |
|--|--|
|  | Fish survey location   |
|  | Terrestrial invertebrate: Terrestrial invertebrate survey extent |

|  |   |
|--|---|
| Map Number                             | EC-11-305                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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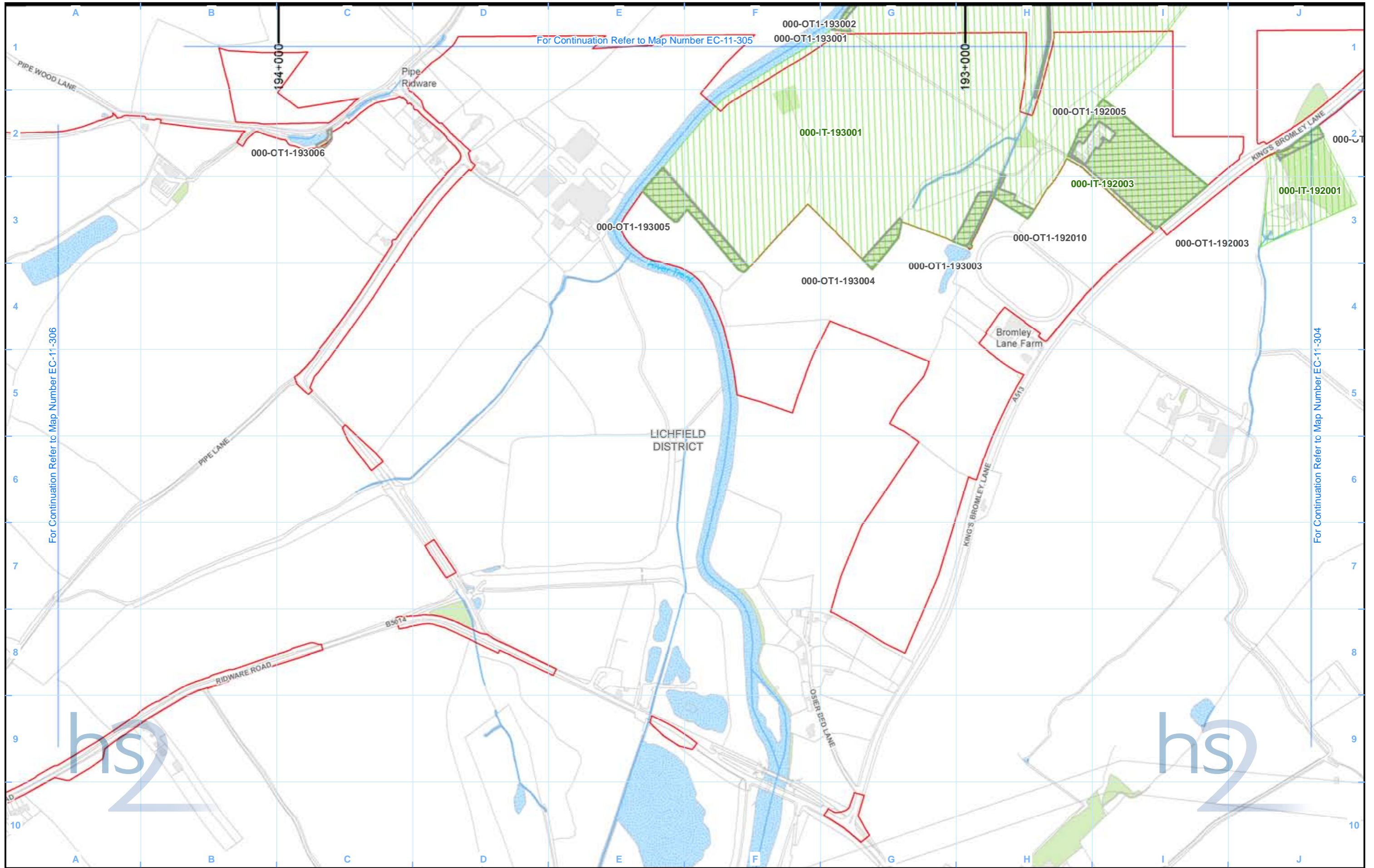
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Date: 14/06/17



| Legend |   | Otter: |                           | White clawed crayfish: |   | Pond survey: |                                       | Fish: |   |
|--------|---|--------|---------------------------|------------------------|---|--------------|---------------------------------------|-------|---|
|        | Route in bored 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: 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)                 |        |                           |                        |   |              |                                       |       |   |

|  |   |
|--|---|
| Map Number                             | EC-11-305-L1                            |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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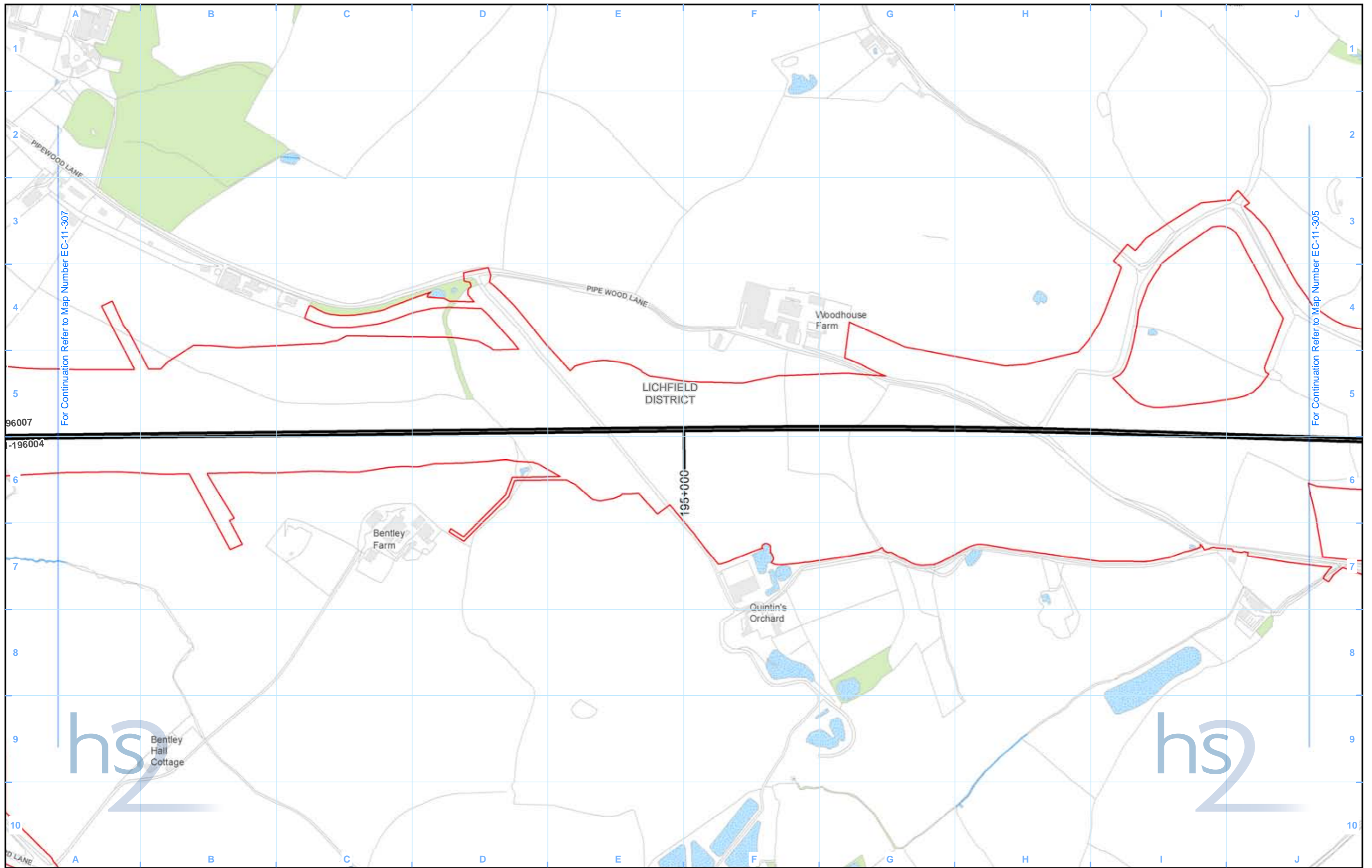
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Date: 14/06/17





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

|  |   |
|--|---|
| Map Number                             | EC-11-306                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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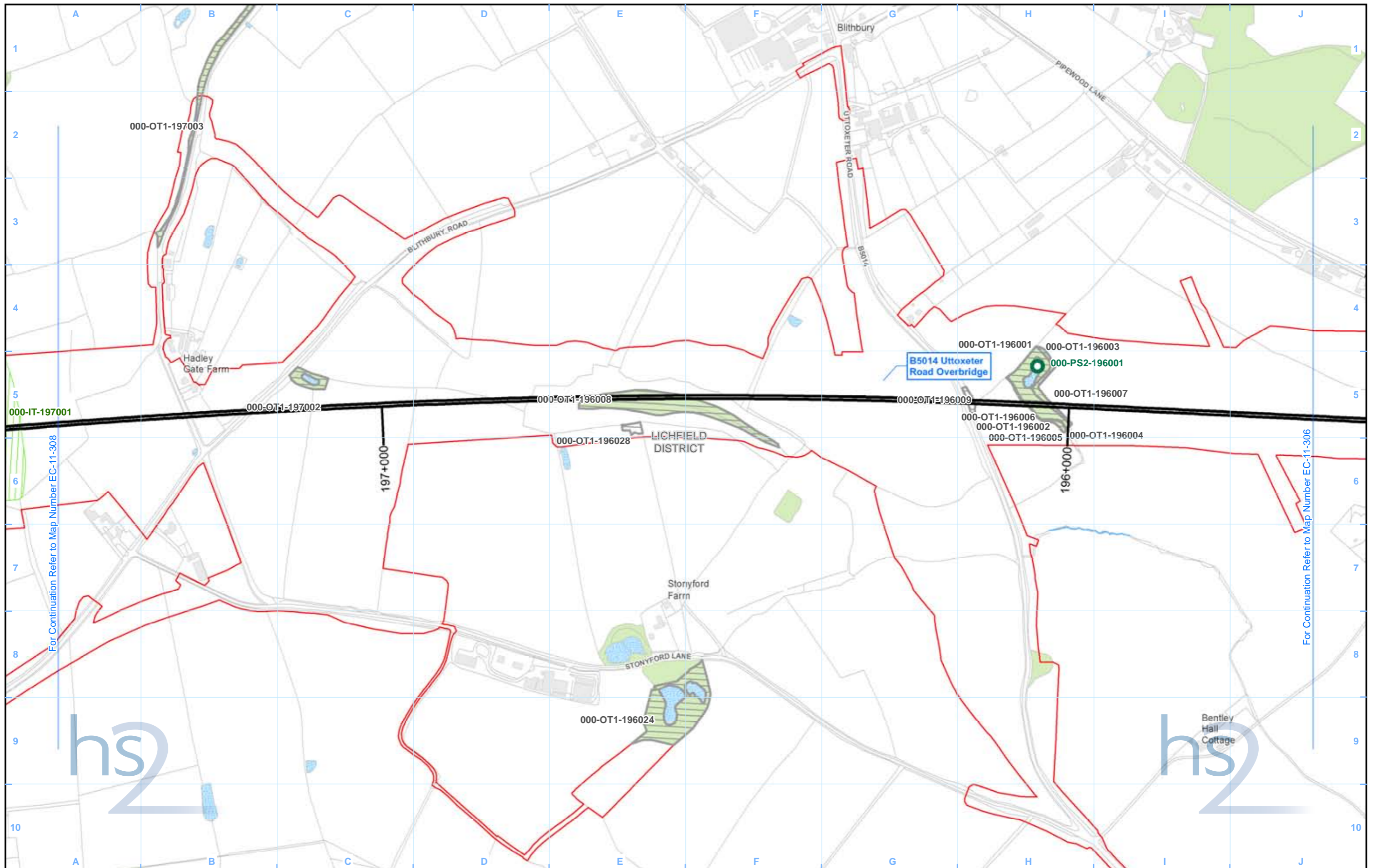
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| Legend |   |
|--------|---|
|        | Route in bored tunnel   |
|        | Route on surface  |
|        | Depot, station, headhouse or portal building  |
|        | Land potentially required during construction   |
|        | Community area boundary   |
|        | District/Borough boundary   |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)   |
|        | Otter: Active otter holt  |
|        | Potential otter holt  |
|        | Otter terrestrial habitat   |
|        | 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                       |
|        | Pond survey: Pond survey – national pond survey                                       |
|        | Pond survey - PSYM  |
|        | Pond survey – rapid assessment method   |
|        | Fish: Fish survey location  |
|        | Terrestrial invertebrate: Terrestrial invertebrate survey extent                      |

|  |   |
|--|---|
| Map Number                             | EC-11-307                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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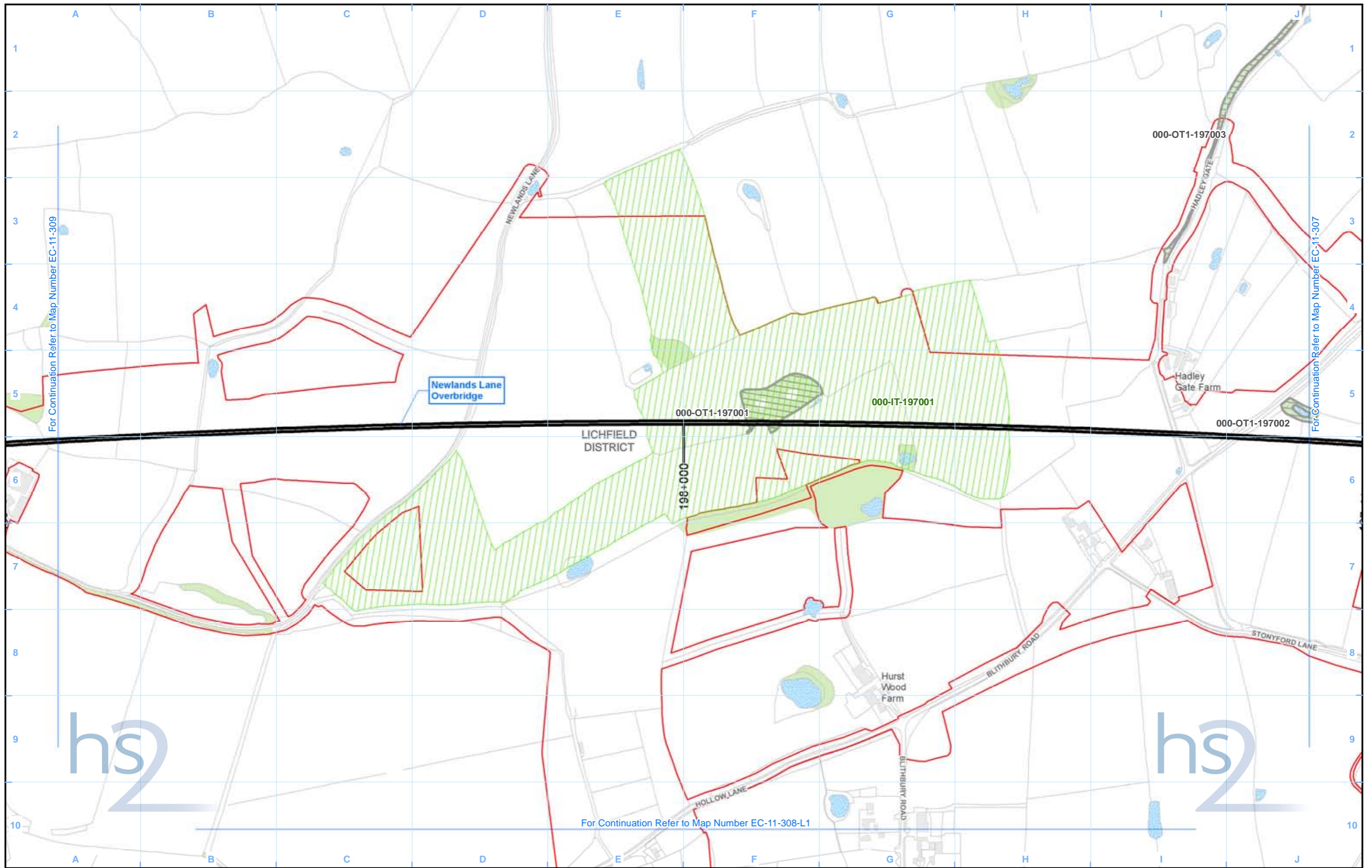
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Date: 14/06/17



| Legend                           |   |
|----------------------------------|---|
|                                  | Route in bored tunnel   |
|                                  | Route on surface  |
|                                  | Depot, station, headhouse or portal building                    |
|                                  | Land potentially required during construction                   |
|                                  | Community area boundary   |
|                                  | District/Borough boundary                                       |
|                                  | Watercourse   |
|                                  | Water body  |
|                                  | Woodland (verified by survey)                                   |
| <b>Otter:</b>                    |   |
|                                  | 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-11-308                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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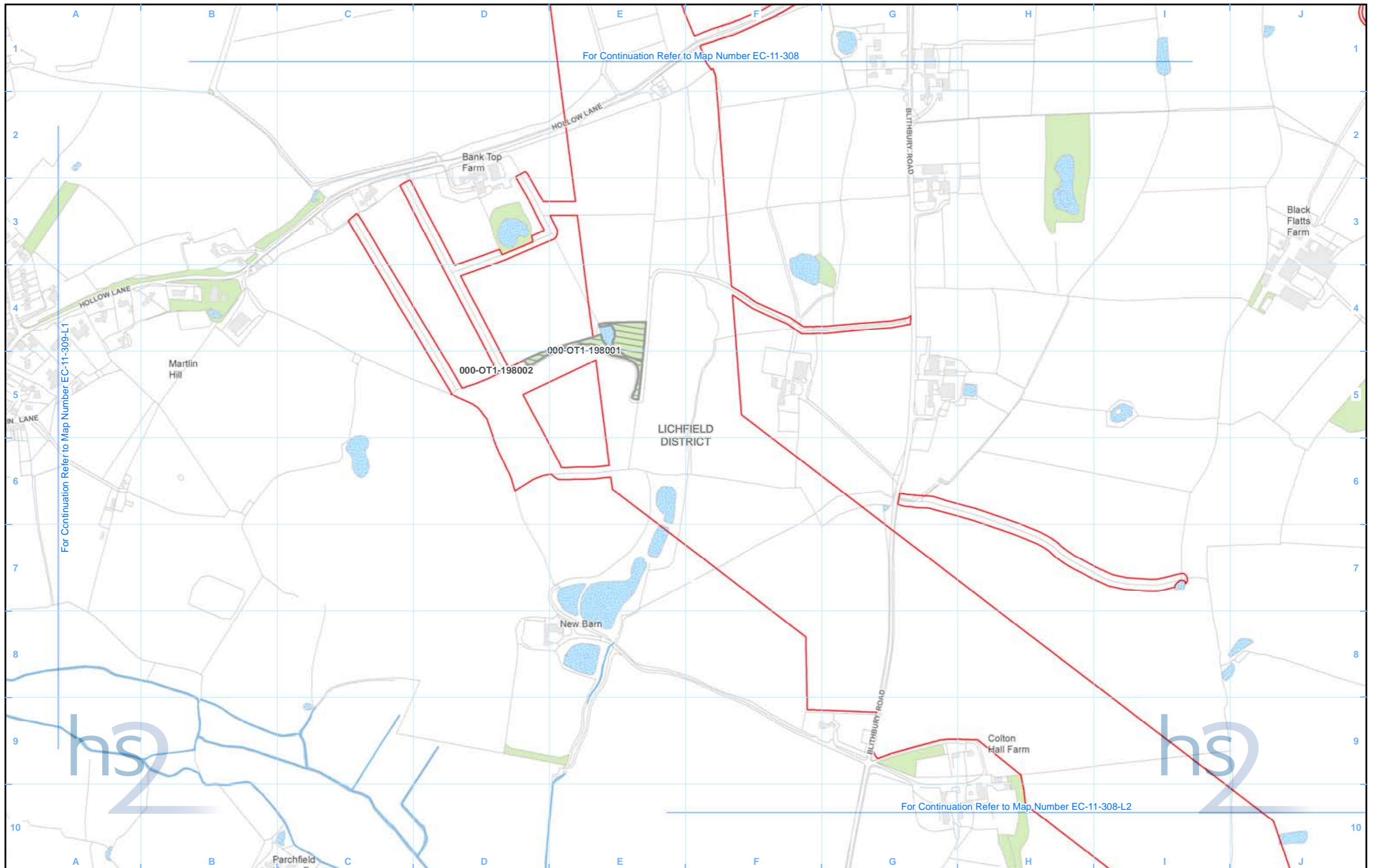
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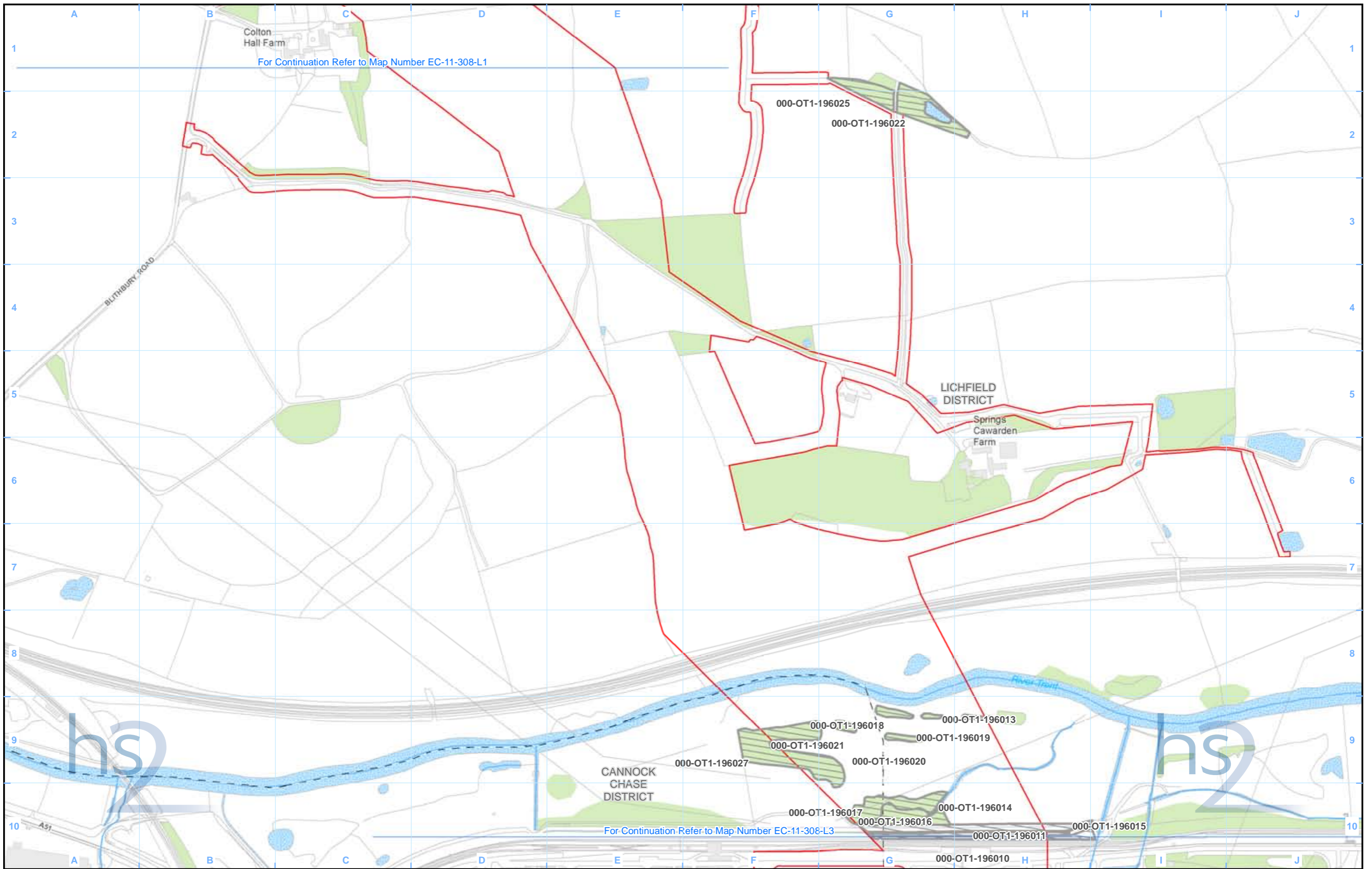


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For Continuation Refer to Map Number EC-11-309-L1

For Continuation Refer to Map Number EC-11-308-L2

|   |  |  |  |   |  |  |  |  |  |  |  |
|---|--|--|--|---|--|--|--|--|--|--|--|
| <b>Legend</b><br>Route in bored tunnel<br>Route on surface<br>Depot, station, headhouse or portal building<br>Land potentially required during construction<br>Community area boundary<br>District/Borough boundary |  | Watercourse<br>Water body<br>Woodland (verified by survey) |  | <b>Otter:</b><br>Active otter holt<br>Potential otter holt<br>Otter terrestrial habitat                                 |  | <b>White clawed crayfish:</b><br>Manual search and/or trapping conducted and presence confirmed<br>Manual search and/or trapping conducted and assumed absent<br>Site identified as potentially suitable but no access available |  | <b>Pond survey:</b><br>Pond survey - national pond survey<br>Pond survey - PSYM<br>Pond survey - rapid assessment method |  | <b>Fish:</b><br>Fish survey location<br><b>Terrestrial invertebrate:</b><br>Terrestrial invertebrate survey extent |  |
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|   |  |  |  | Date: 14/06/17  |  |  |  |  |  |  |  |



**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Otter terrestrial habitat

**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

**Pond survey:**

- Pond survey – national pond survey
- Pond survey - PSYM
- Pond survey – rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial invertebrate: Terrestrial invertebrate survey extent

Map Number: EC-11-308-L2

Map Name: Other Protected and Notable Species (1)

Community Area 1: Fradley to Colton

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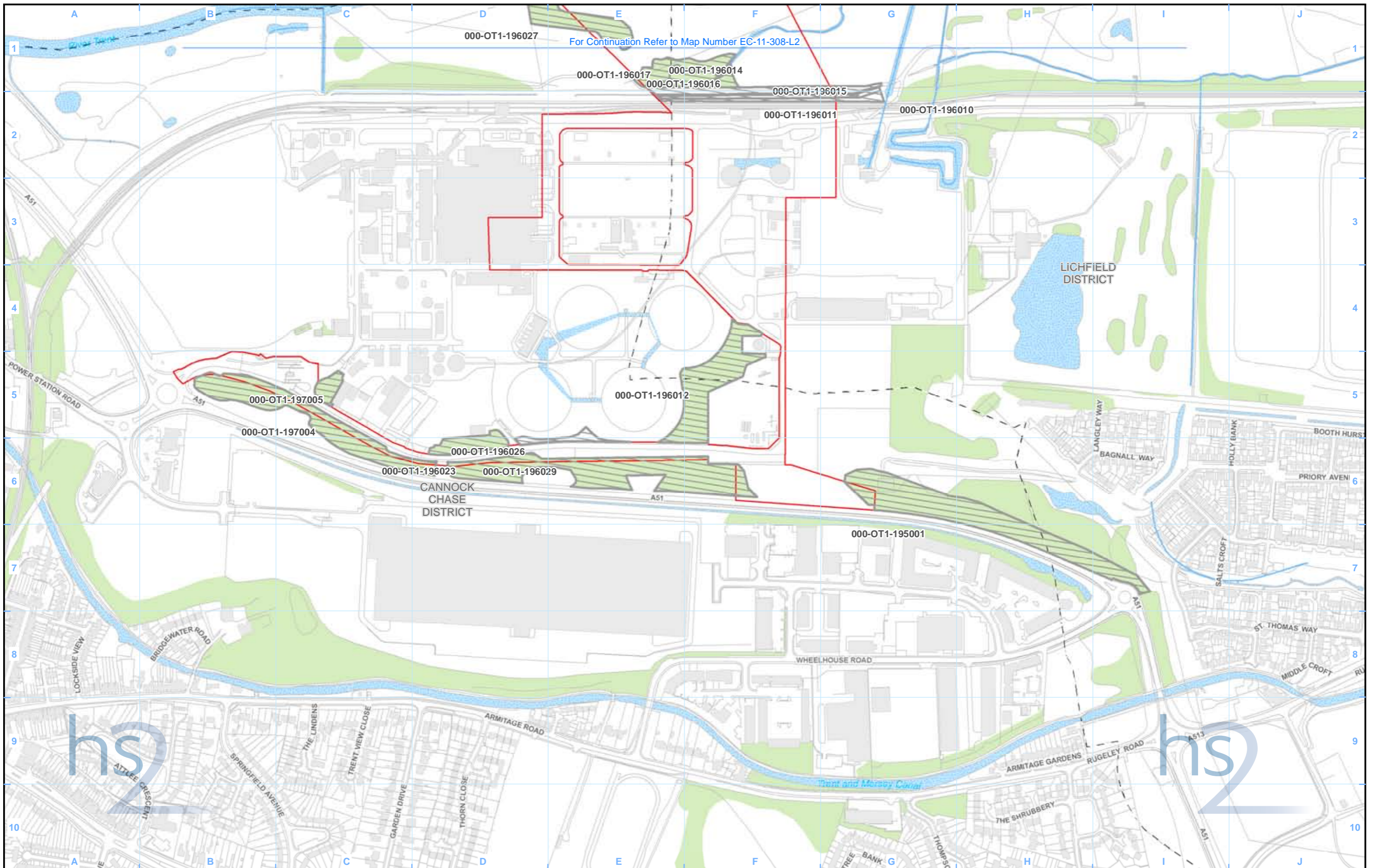
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**Legend**

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)

**Otter:**

- Active otterholt
- Potential otterholt
- Otter terrestrial habitat

**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

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location

**Terrestrial invertebrate:**

- Terrestrial invertebrate survey extent

Map Number: EC-11-308-L3

Map Name: Other Protected and Notable Species (1)

Community Area 1: Fradley to Colton

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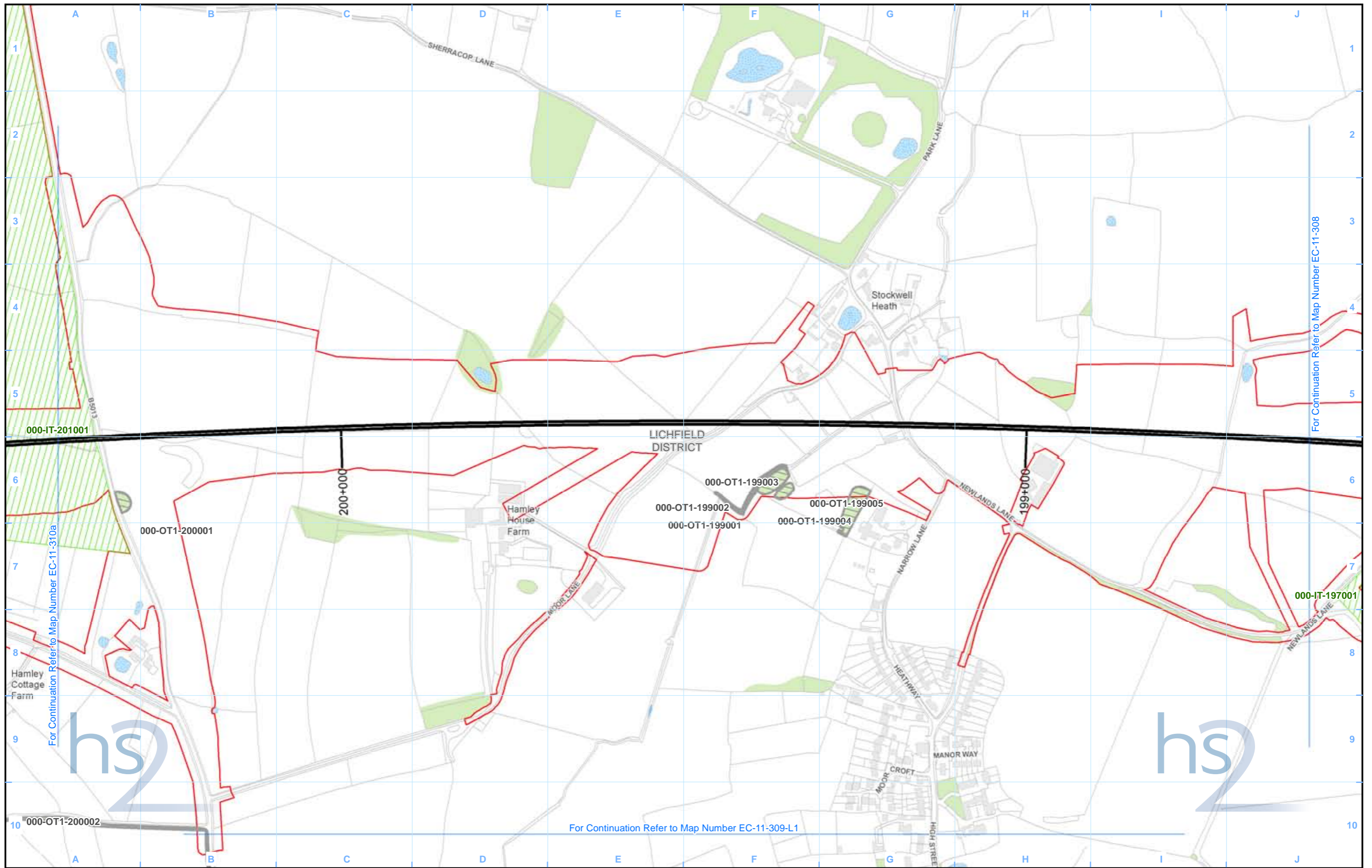
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Date: 14/06/17



**Legend**

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

- Watercourse
- Water body
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Otter terrestrial habitat

**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

**Pond survey:**

- Pond survey – national pond survey
- Pond survey - PSYM
- Pond survey – rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial invertebrate: Terrestrial invertebrate survey extent

Map Number: EC-11-309

Map Name: Other Protected and Notable Species (1)

Community Area 1: Fradley to Colton

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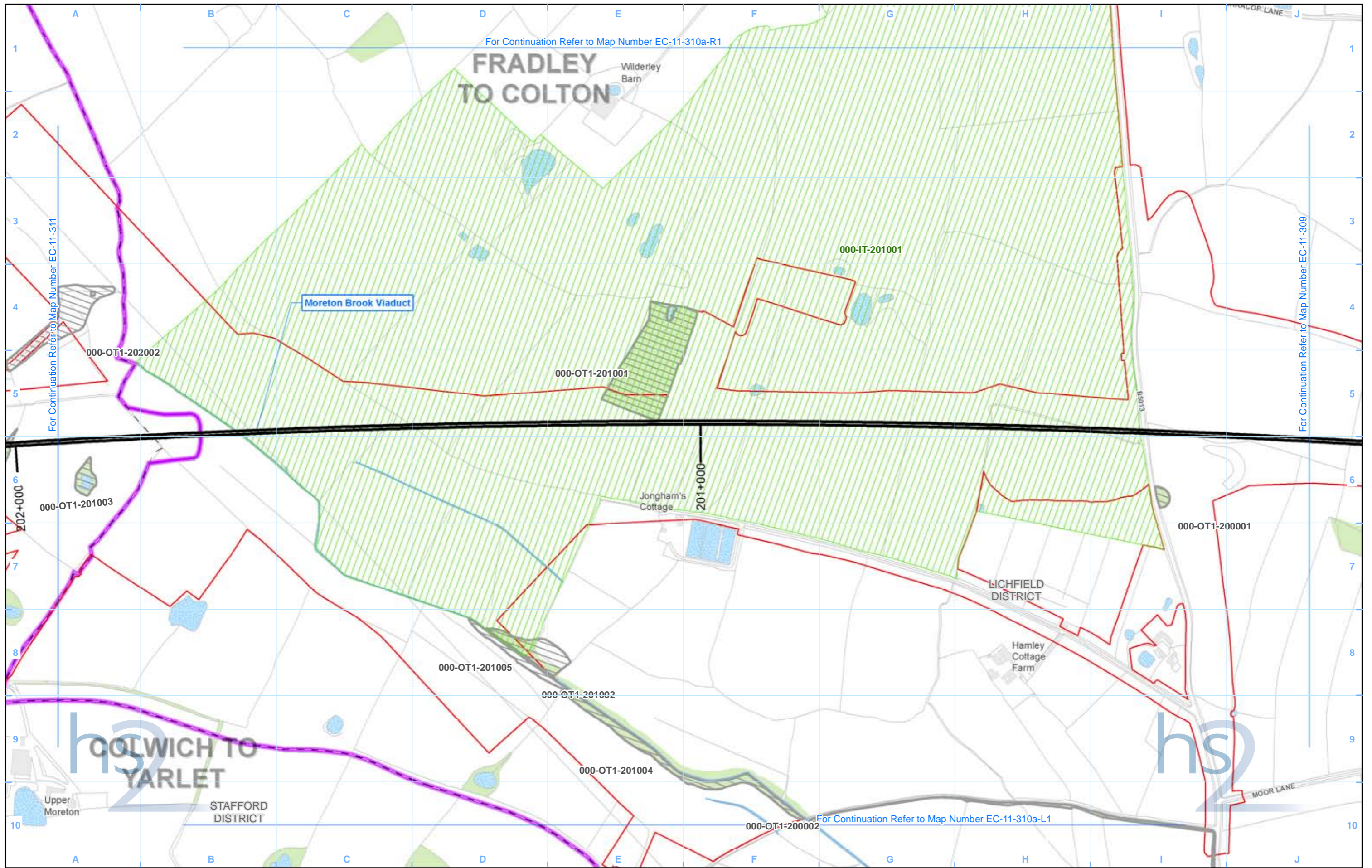
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| Legend |  |
|--------|--|
|        | Route in bored tunnel  |
|        | Route on surface   |
|        | Depot, station, headhouse or portal building   |
|        | Land potentially required during construction  |
|        | Community area boundary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

|  |   |
|--|---|
| Map Number                             | EC-11-310a                              |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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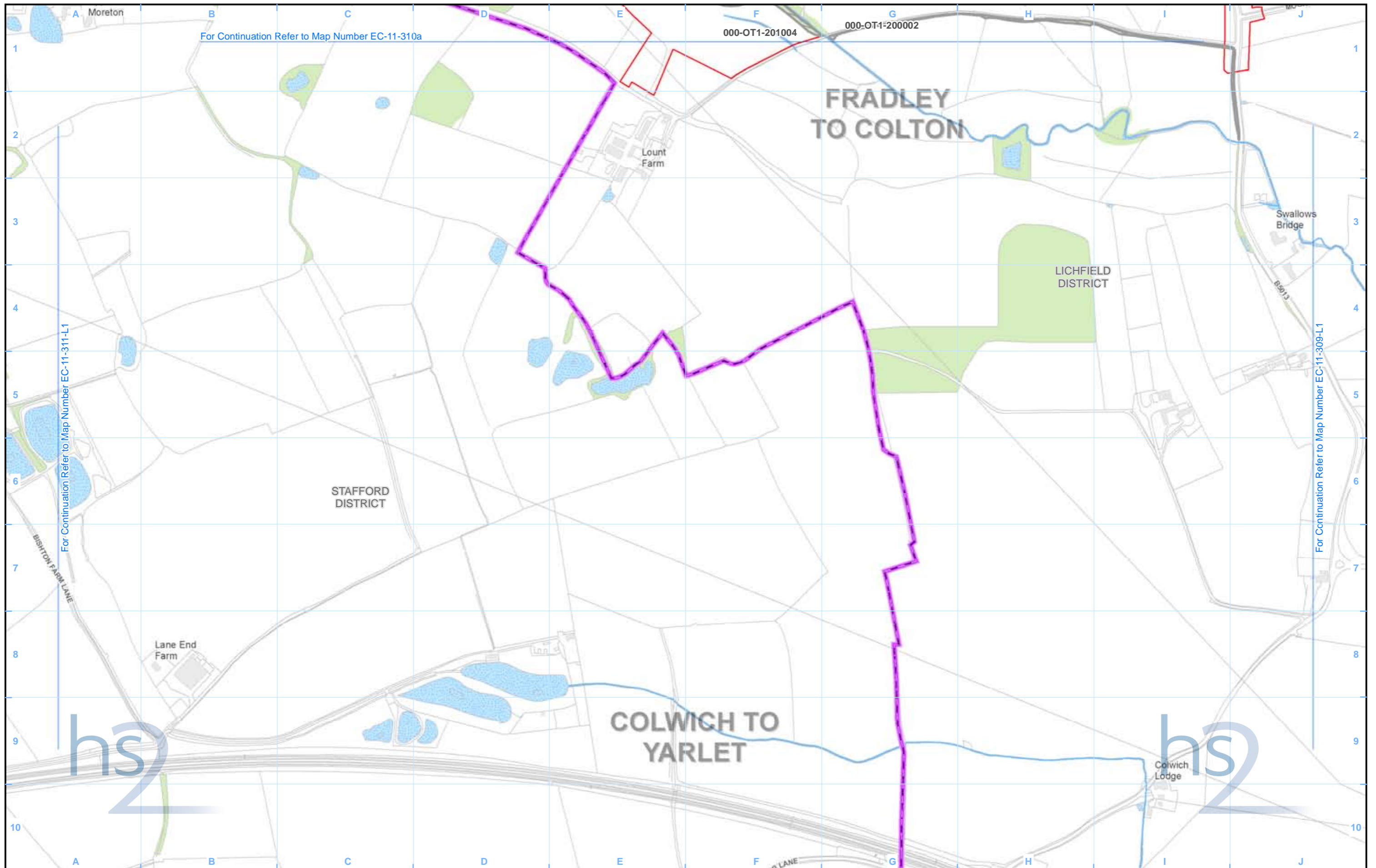
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| Legend |   |
|--------|---|
|        | Route in bored tunnel   |
|        | Route on surface  |
|        | Depot, station, headhouse or portal building                    |
|        | Land potentially required during construction                   |
|        | Community area boundary   |
|        | District/Borough boundary                                       |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)                                   |
|        | Active otter holt   |
|        | Potential otter holt  |
|        | Otter terrestrial habitat                                       |
|        | 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 |
|        | Pond survey - national pond survey                              |
|        | Pond survey - PSYM  |
|        | Pond survey - rapid assessment method                           |
|        | Fish survey location  |
|        | Terrestrial invertebrate survey extent                          |

|  |   |
|--|---|
| Map Number                             | EC-11-310a-L1                           |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 1:<br>Fradley to Colton |   |

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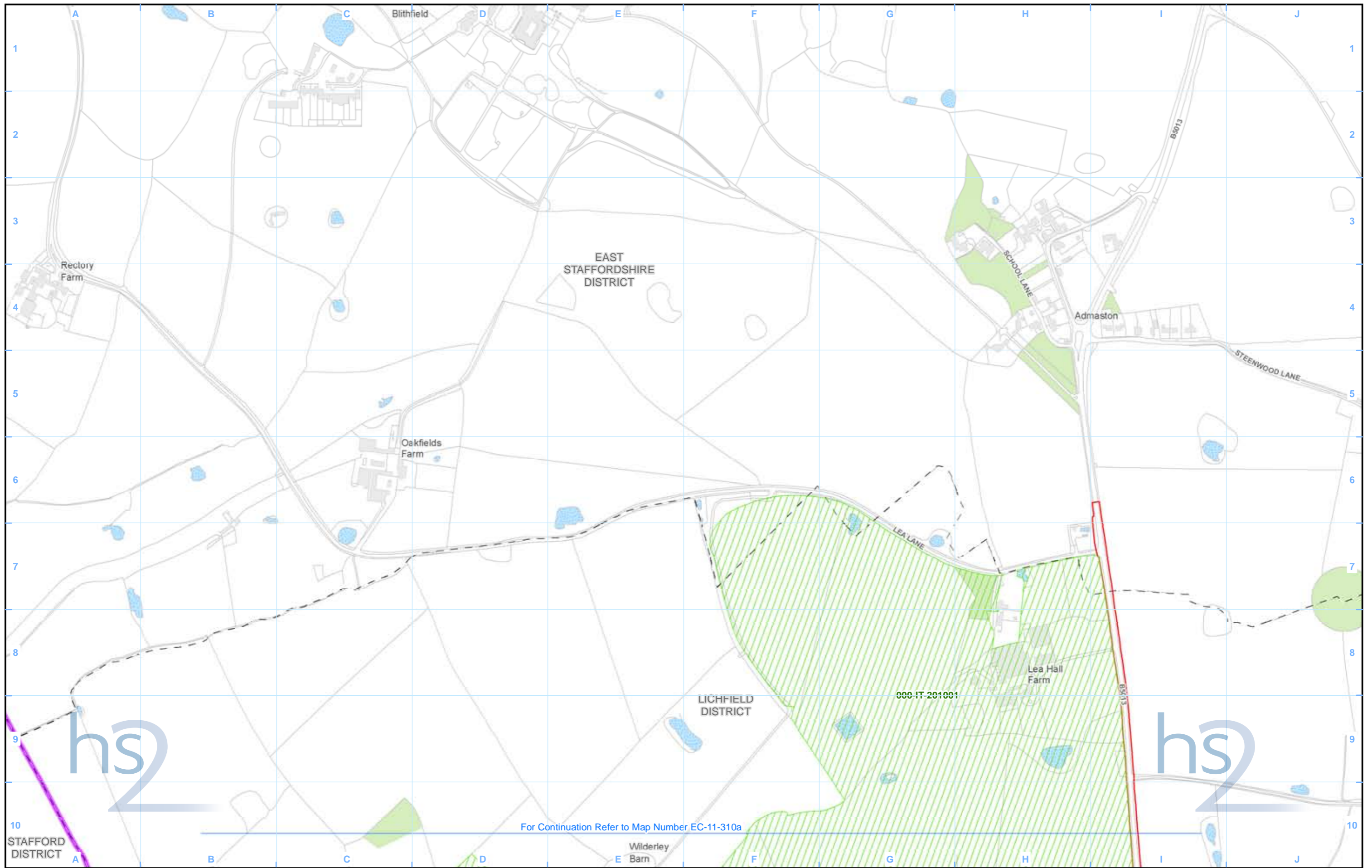
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Doc Number: C861-ARP-EV-MAP-000-081334-P03

Date: 14/06/17



For Continuation Refer to Map Number EC-11-310a

**Legend**

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

- Watercourse
- Water body
- Woodland (verified by survey)

**Otter:**

- Active otter holt
- Potential otter holt
- Otter terrestrial habitat

**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

**Pond survey:**

- Pond survey - national pond survey
- Pond survey - PSYM
- Pond survey - rapid assessment method

**Fish:**

- Fish survey location
- Terrestrial invertebrate:**
- Terrestrial invertebrate survey extent

Map Number **EC-11-310a-R1**

Map Name **Other Protected and Notable Species (1)**

Community Area 1:  
Fradley to Colton

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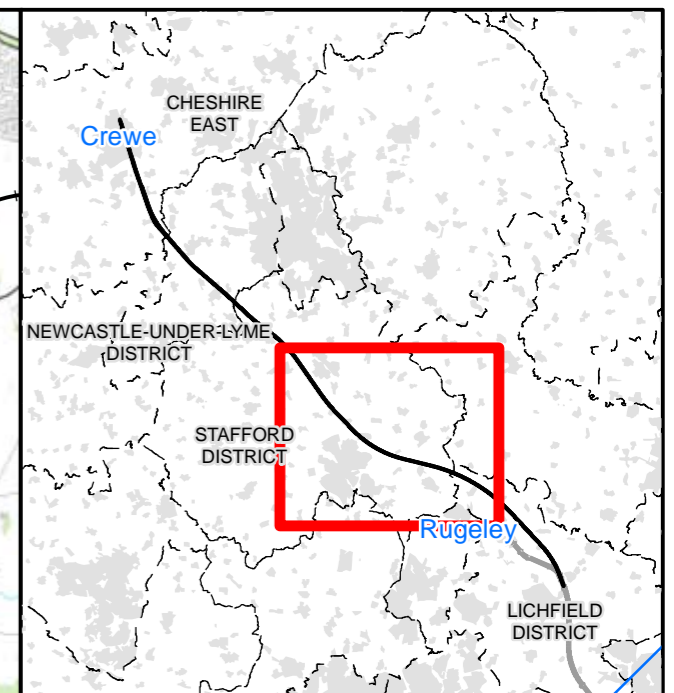
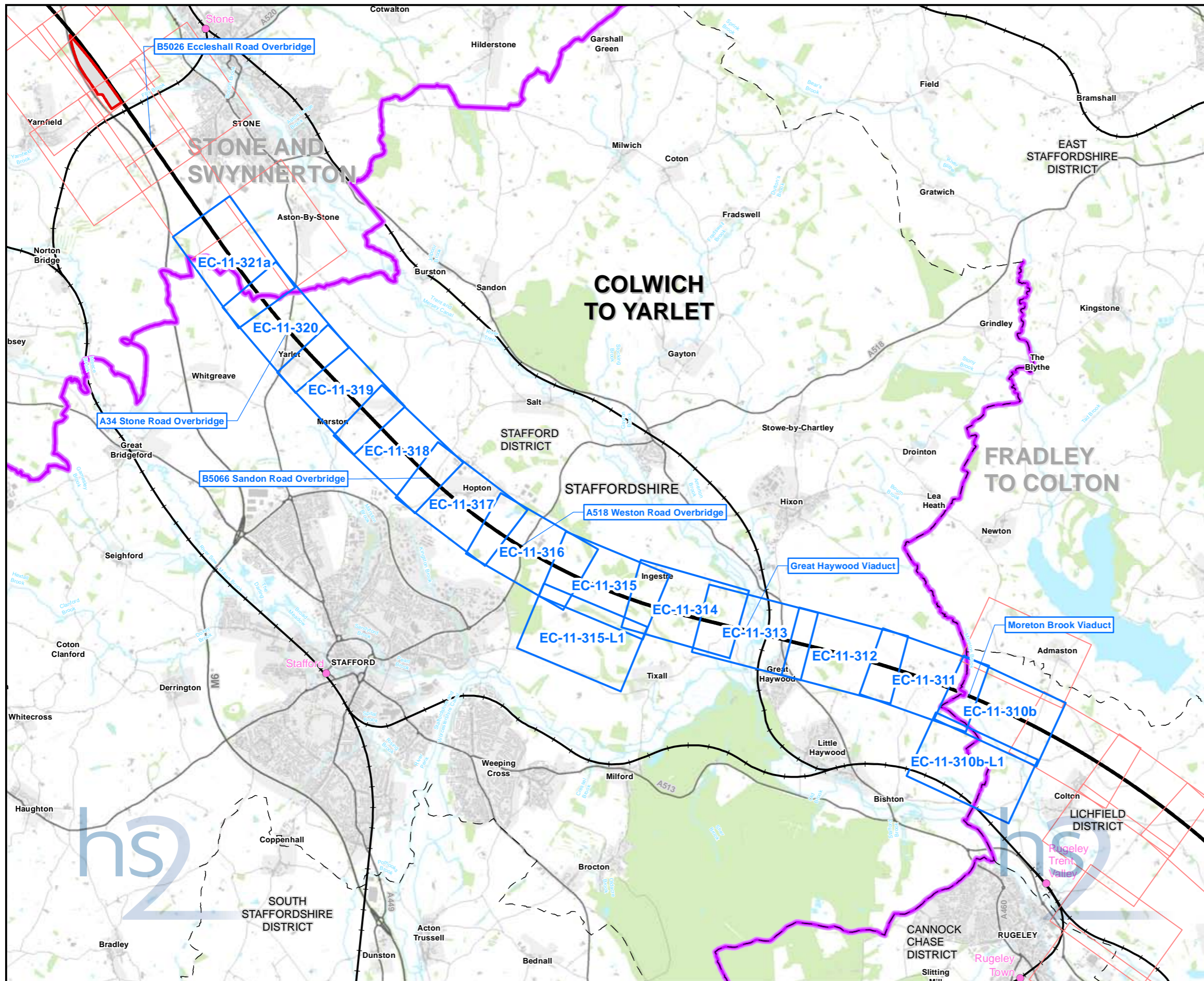
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Doc Number: C861-ARP-EV-MAP-000-081433-P03

Date: 14/06/17

Scale at A3: 1:5,000

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**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
  - Map sheets not included in this community area

|            |   |
|------------|---|
| Map Number | EC-11-INDEX-CA2   |
| Map Name   | Index Map of:<br>Other Protected and Notable<br>Species (1) |
|            | Community Area 2:<br>Colwich to Yarlet                      |

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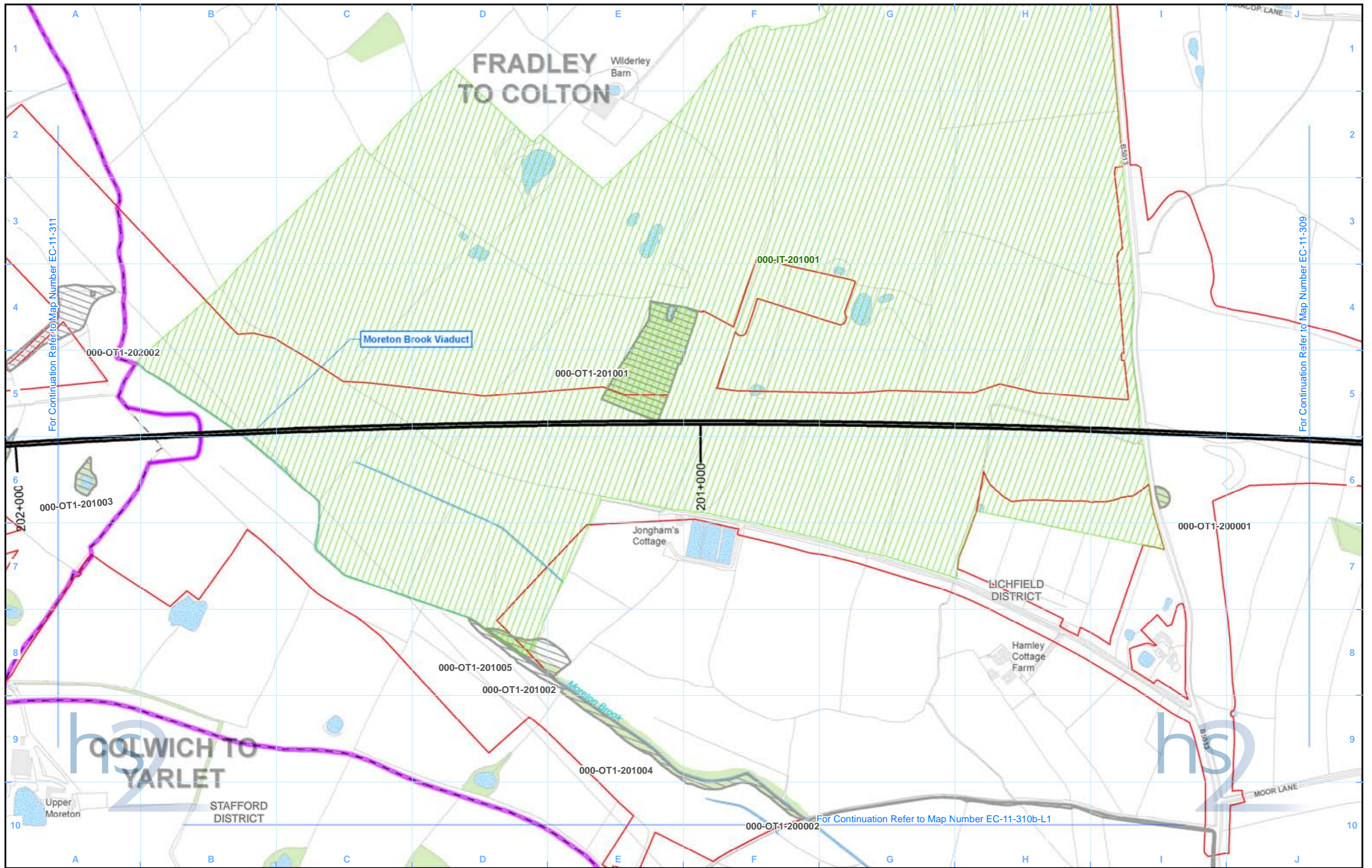
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0 700 1,400 2,100 2,800 Metres

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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  |
|        | District/Borough boundary  |
|        | Watercourse  |
|        | Water body   |
|        | Woodland (verified by survey)  |
|        | Otter: Active otter holt   |
|        | Potential otter holt   |
|        | Otter terrestrial habitat  |
|        | White clawed crayfish: Manual search and/or trapping conducted and presence confirmed  |
|        | White clawed crayfish: Manual search and/or trapping conducted and assumed absent      |
|        | White clawed crayfish: Site identified as potentially suitable but no access available |
|        | Pond survey: Pond survey - national pond survey  |
|        | Pond survey - PSYM   |
|        | Pond survey - rapid assessment method  |
|        | Fish: Fish survey location   |
|        | Terrestrial invertebrate: Terrestrial invertebrate survey extent                       |

|  |   |
|--|---|
| Map Number                             | EC-11-310b                              |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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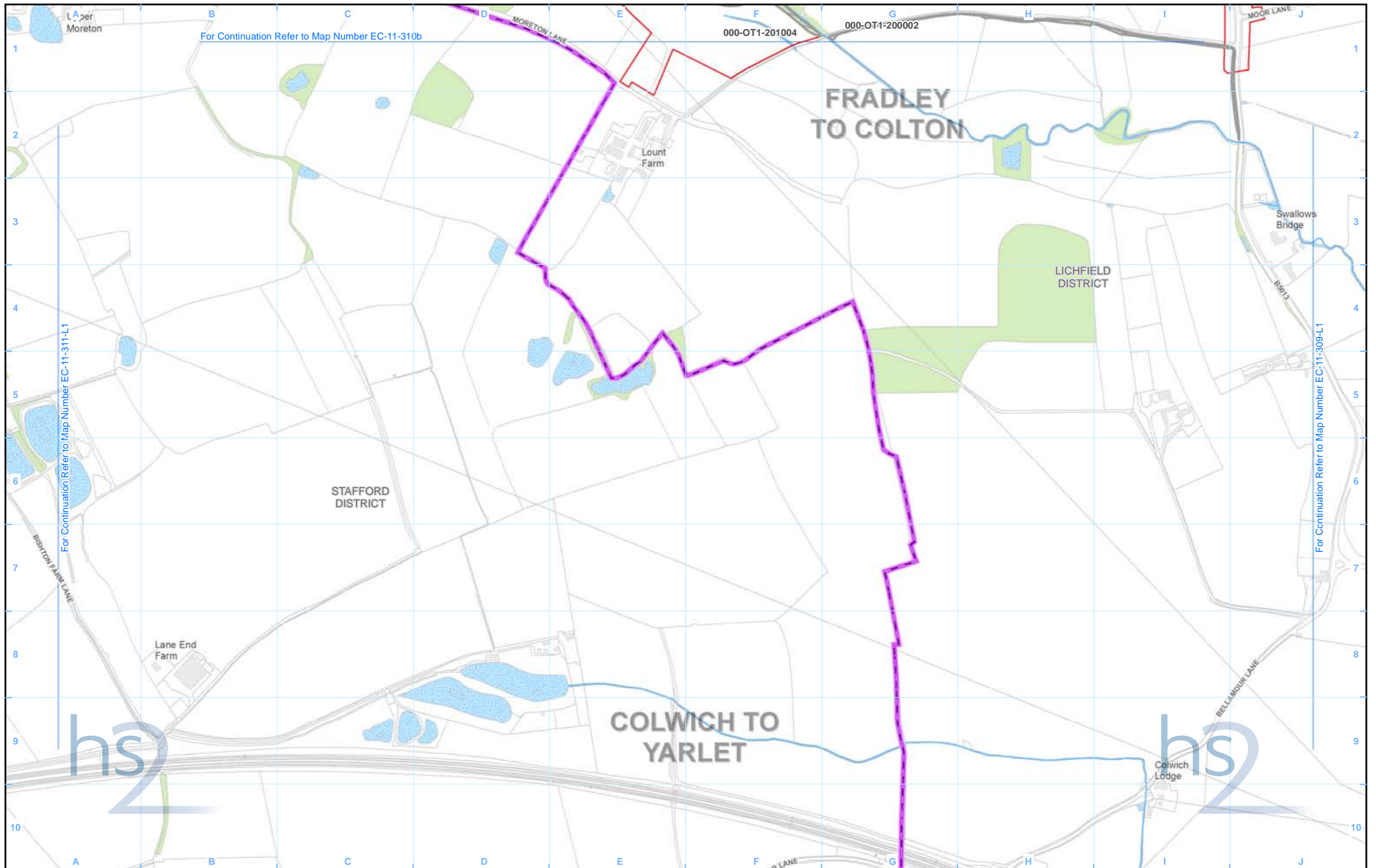
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-081333-P03 Date: 14/06/17



| Legend |   | Watercourse | Water body | Woodland (verified by survey) | Otter: | White clawed crayfish: | Pond survey: | Fish: |
|--------|---|-------------|------------|-------------------------------|--------|------------------------|--------------|-------|
|        | Route in bored tunnel                         |             |            |                               |        |                        |              |       |
|        | Route on surface                              |             |            |                               |        |                        |              |       |
|        | Depot, station, headhouse or portal building  |             |            |                               |        |                        |              |       |
|        | Land potentially required during construction |             |            |                               |        |                        |              |       |
|        | Community area boundary                       |             |            |                               |        |                        |              |       |
|        | District/Borough boundary                     |             |            |                               |        |                        |              |       |

|                   |   |
|-------------------|---|
| Map Number        | EC-11-310b-L1                           |
| Map Name          | Other Protected and Notable Species (1) |
| Community Area 2: | Colwich to Yarlet                       |

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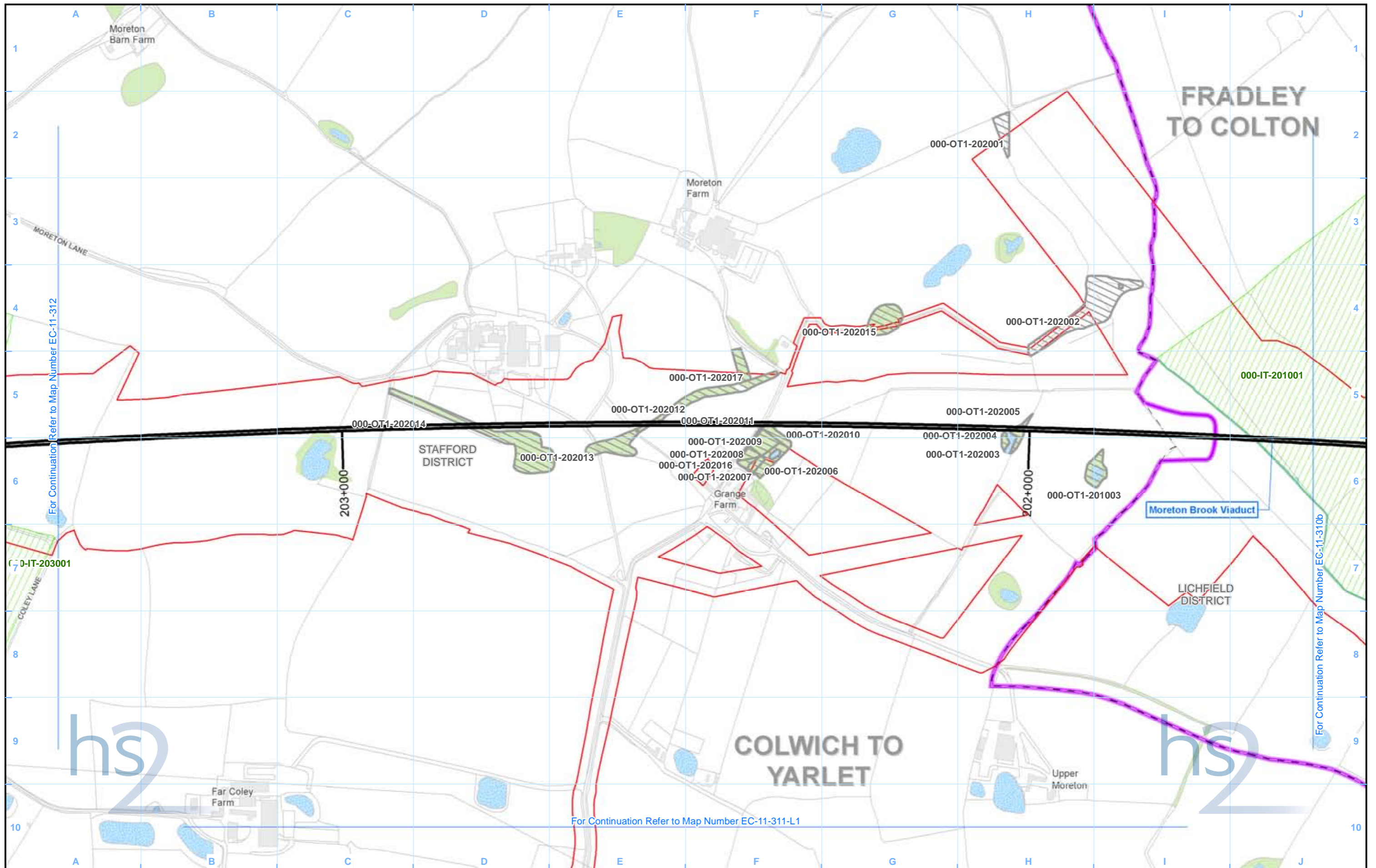
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Date: 14/06/17



| Legend |   |
|--------|---|
|        | Route in bored tunnel   |
|        | Route on surface  |
|        | Depot, station, headhouse or portal building                    |
|        | Land potentially required during construction                   |
|        | Community area boundary   |
|        | District/Borough boundary                                       |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)                                   |
|        | Active otter holt   |
|        | Potential otter holt  |
|        | Otter terrestrial habitat                                       |
|        | 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 |
|        | Pond survey - national pond survey                              |
|        | Pond survey - PSYM  |
|        | Pond survey - rapid assessment method                           |
|        | Fish survey location  |
|        | Terrestrial invertebrate survey extent                          |

|  |   |
|--|---|
| Map Number                             | EC-11-311                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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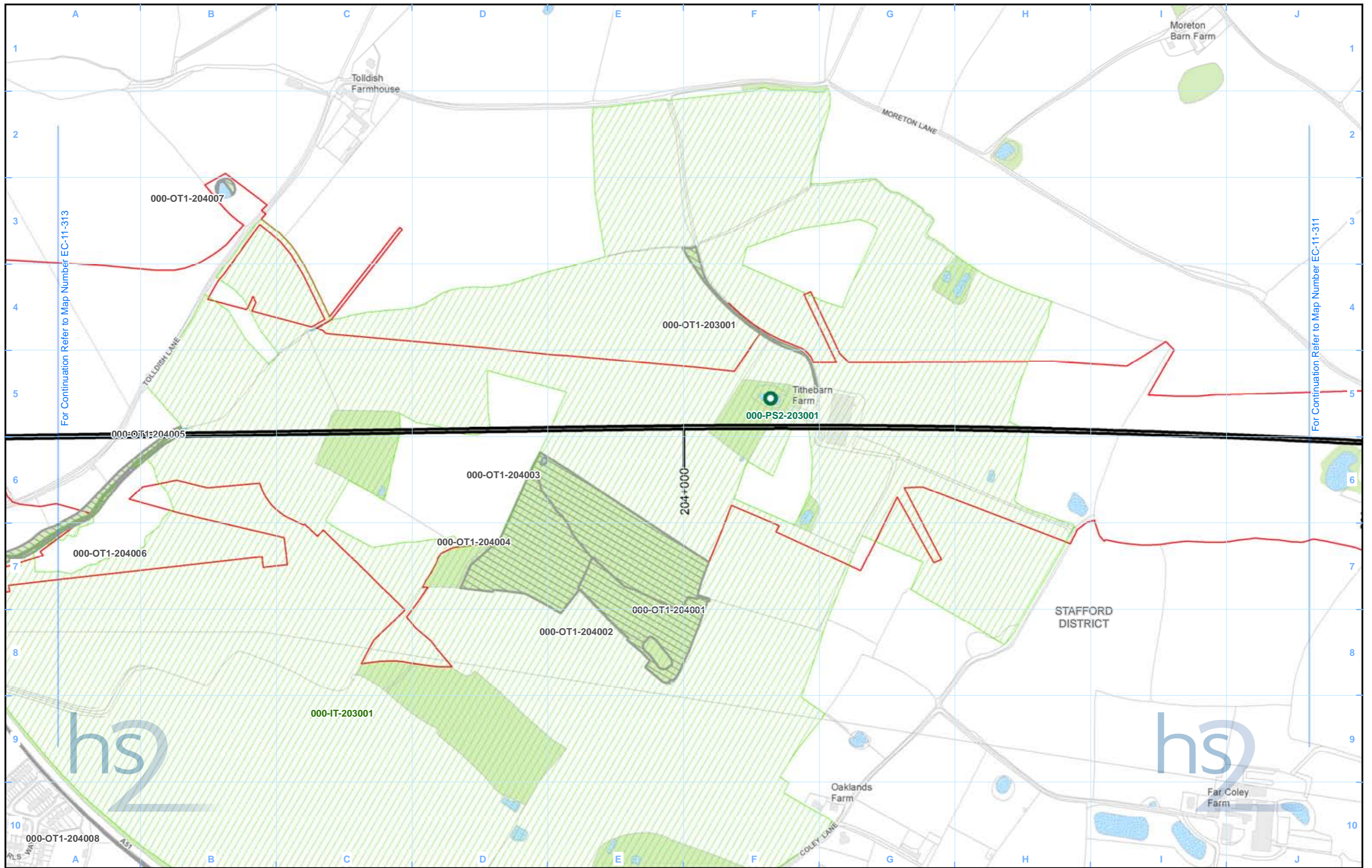
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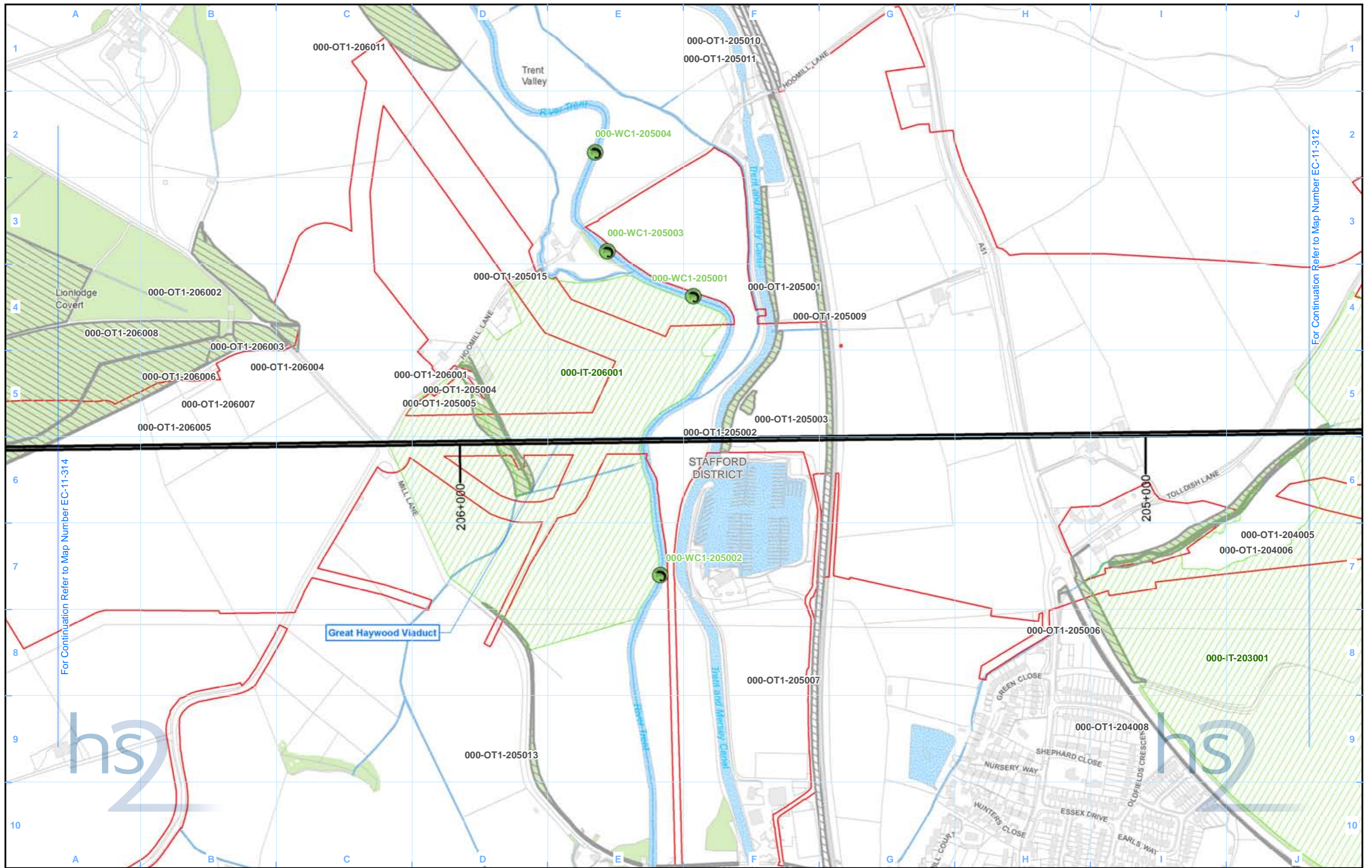


For Continuation Refer to Map Number EC-11-313

For Continuation Refer to Map Number EC-11-311

|  |  |  |  |   |  |  |  |  |  |
|--|--|--|--|---|--|--|--|--|--|
| <b>Legend</b><br><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> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> </ul> |  | <b>Otter:</b><br><ul style="list-style-type: none"> <li> Active otterholt</li> <li> Potential otterholt</li> <li> Otter terrestrial habitat</li> </ul> |  | <b>White clawed crayfish:</b><br><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><br><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><br><ul style="list-style-type: none"> <li> Fish survey location</li> <li> Terrestrial invertebrate survey extent</li> </ul> |  |
| <b>Map Number</b><br><p style="text-align: center;">EC-11-312</p>  |  | <b>Map Name</b><br><p style="text-align: center;">Other Protected and Notable Species (1)</p>  |  |   |  | <p>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> |  |  |  |
| <b>Community Area 2:</b><br><p style="text-align: center;">Colwich to Yarlet</p>   |  | <p style="text-align: center;">Scale at A3: 1:5,000</p>  |  | <p>Registered in England. Registration number 06791686.<br/> Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p>   |  | <p>© Crown copyright and database rights 2017.<br/> Ordnance Survey Licence Number 100049190.</p>  |  | <p>Doc Number: C861-ARP-EV-MAP-000-081429-P03</p>  |  |
|  |  |  |  |   |  | <p style="text-align: right;">Date: 14/06/17</p>   |  |  |  |





For Continuation Refer to Map Number EC-11-314

For Continuation Refer to Map Number EC-11-312

| Legend |   | Otter: | White clawed crayfish: | Pond survey: | Fish: |
|--------|---|--------|------------------------|--------------|-------|
|        | Route in bored tunnel                         |        |                        |              |       |
|        | Route on surface                              |        |                        |              |       |
|        | Depot, station, headhouse or portal building  |        |                        |              |       |
|        | Land potentially required during construction |        |                        |              |       |
|        | Community area boundary                       |        |                        |              |       |
|        | District/Borough boundary                     |        |                        |              |       |
|        | Watercourse                                   |        |                        |              |       |
|        | Water body                                    |        |                        |              |       |
|        | Woodland (verified by survey)                 |        |                        |              |       |

|  |   |
|--|---|
| Map Number                             | EC-11-313                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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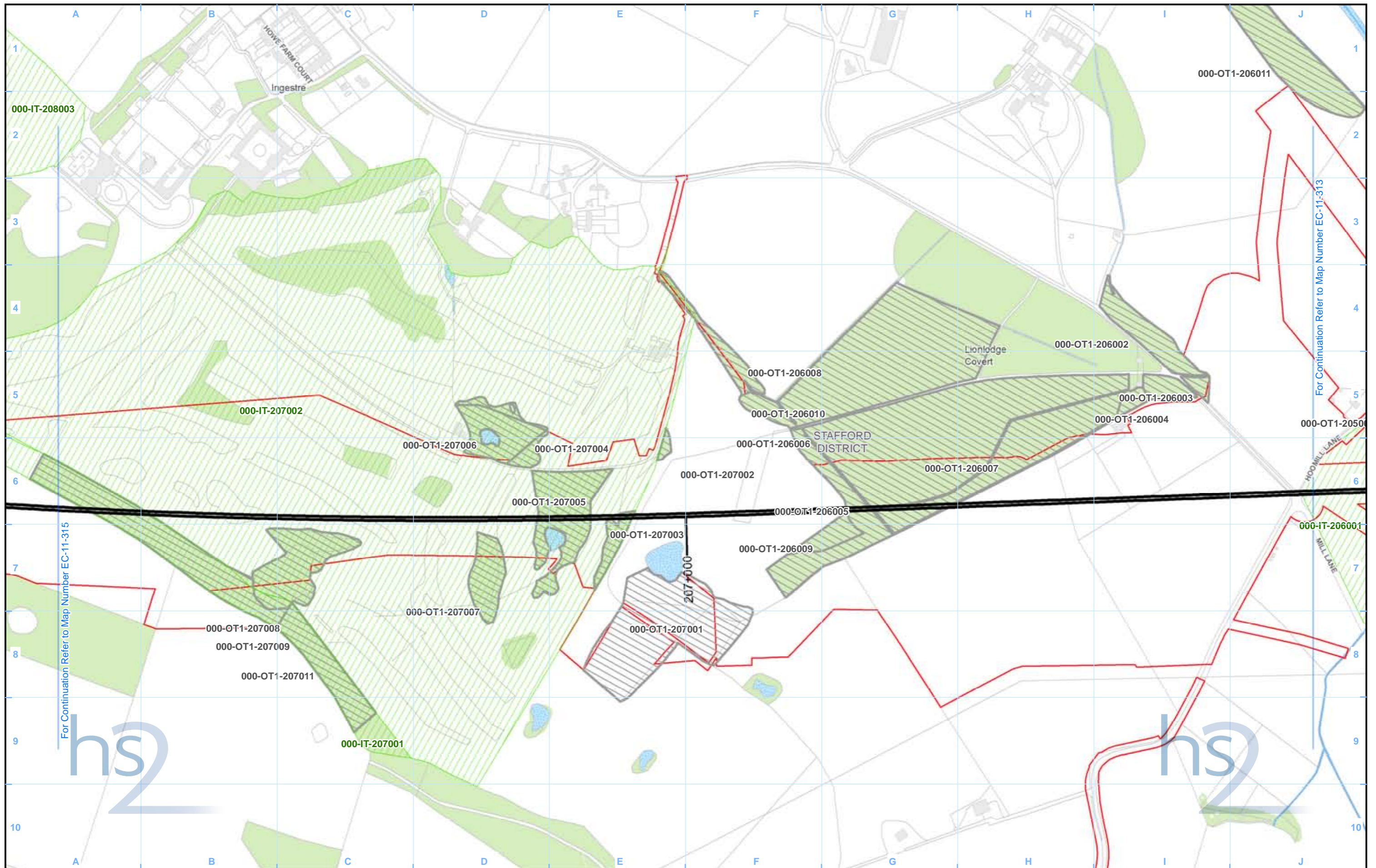
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Scale at A3: 1:5,000

Metres

Date: 14/06/17



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

|  |   |
|--|---|
| Map Number                             | EC-11-314                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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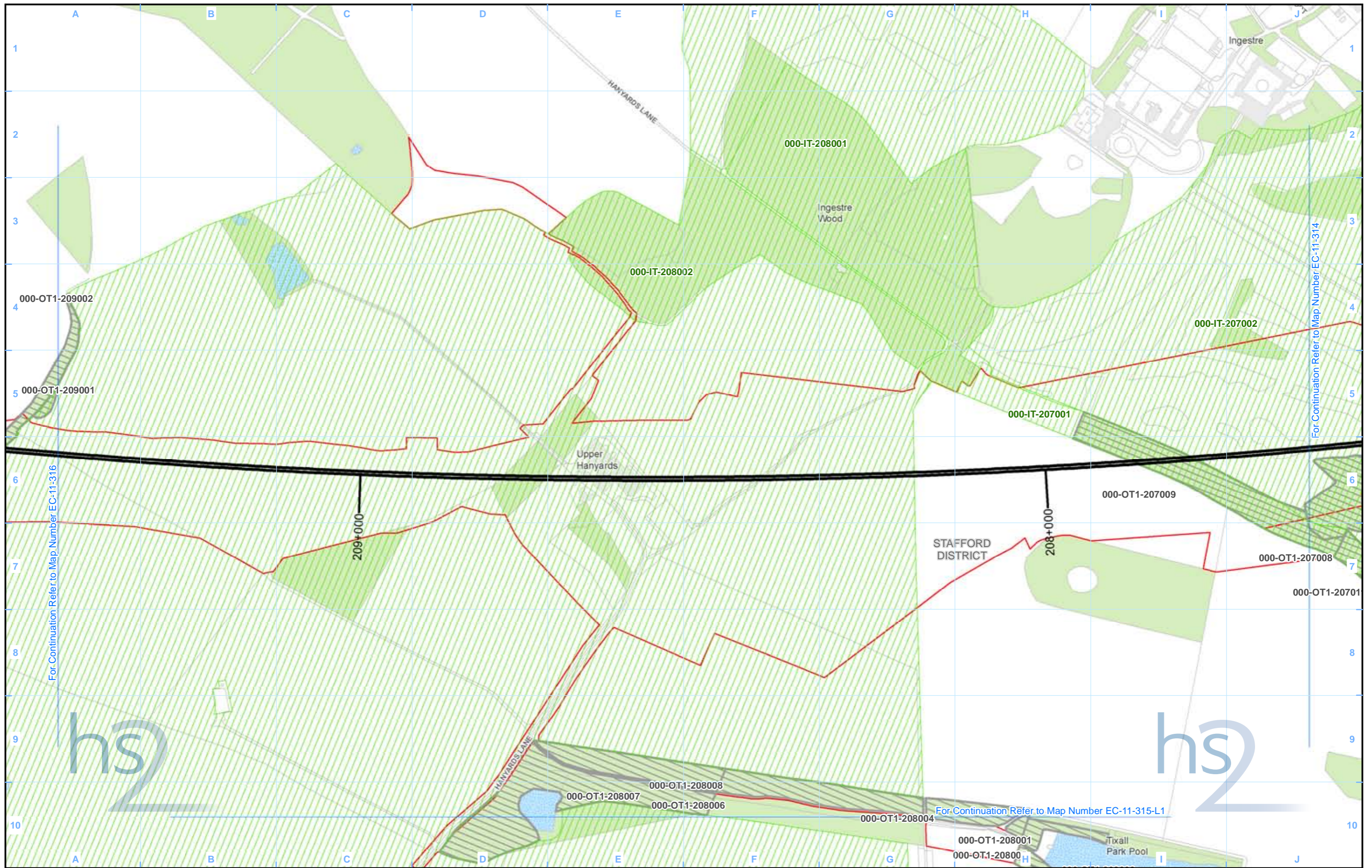
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0 50 100 150 200 Metres

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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                       |
|        | District/Borough boundary                     |
|        | Watercourse                                   |
|        | Water body                                    |
|        | Woodland (verified by survey)                 |

| Otter: |                           |
|--------|---------------------------|
|        | Active otter holt         |
|        | Potential otter holt      |
|        | Otter terrestrial habitat |

| 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 |

| Pond survey: |                                       |
|--------------|---------------------------------------|
|              | Pond survey - national pond survey    |
|              | Pond survey - PSYM                    |
|              | Pond survey - rapid assessment method |

| Fish: |  |
|-------|--|
|       | Fish survey location   |
|       | Terrestrial invertebrate: Terrestrial invertebrate survey extent |

|  |   |
|--|---|
| Map Number                             | EC-11-315                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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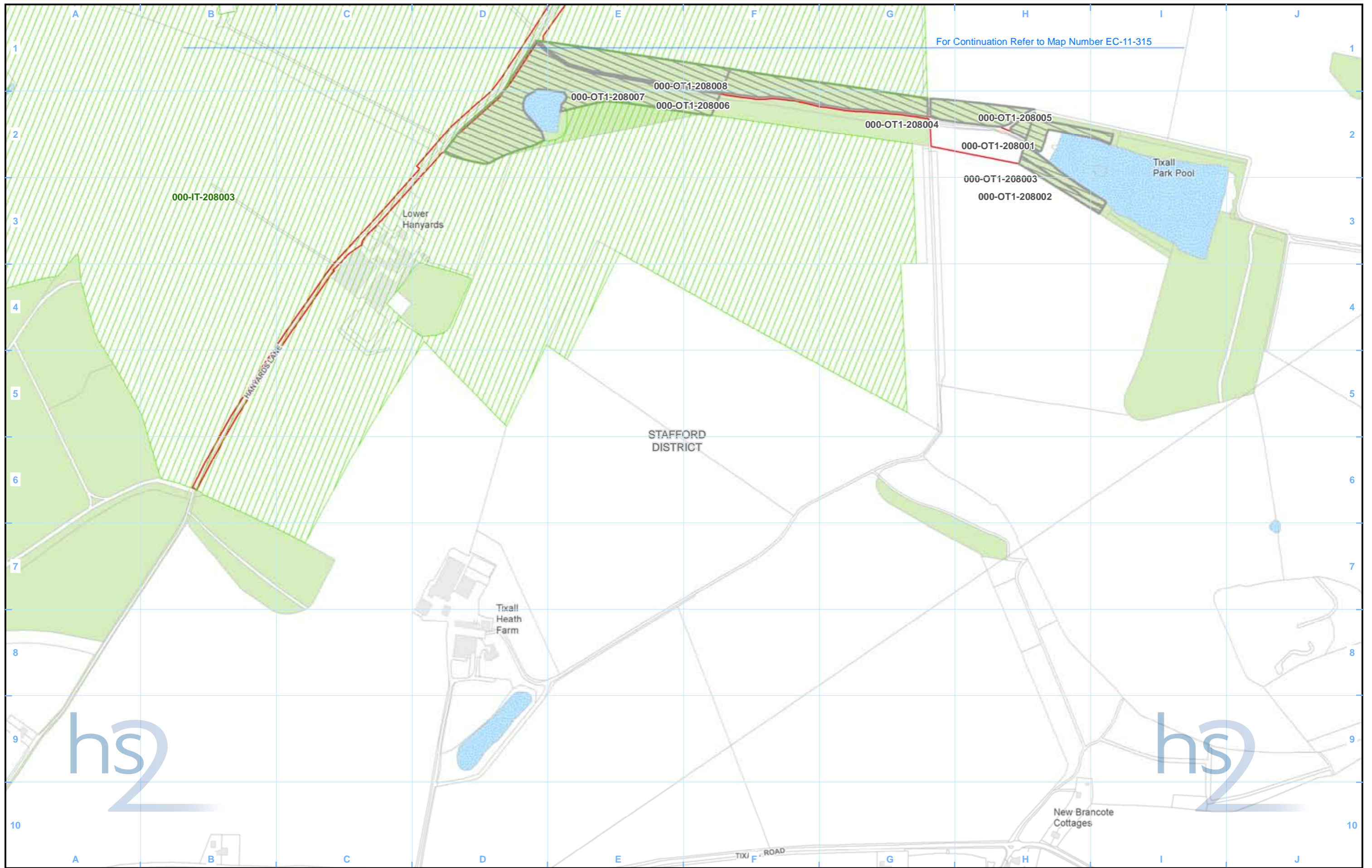
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Metres

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For Continuation Refer to Map Number EC-11-315

| Legend |   | Otter: | White clawed crayfish: | Pond survey: | Fish: |
|--------|---|--------|------------------------|--------------|-------|
|        | Route in bored tunnel                         |        |                        |              |       |
|        | Route on surface                              |        |                        |              |       |
|        | Depot, station, headhouse or portal building  |        |                        |              |       |
|        | Land potentially required during construction |        |                        |              |       |
|        | Community area boundary                       |        |                        |              |       |
|        | District/Borough boundary                     |        |                        |              |       |
|        | Watercourse                                   |        |                        |              |       |
|        | Water body                                    |        |                        |              |       |
|        | Woodland (verified by survey)                 |        |                        |              |       |

|  |   |
|--|---|
| Map Number                             | EC-11-315-L1                            |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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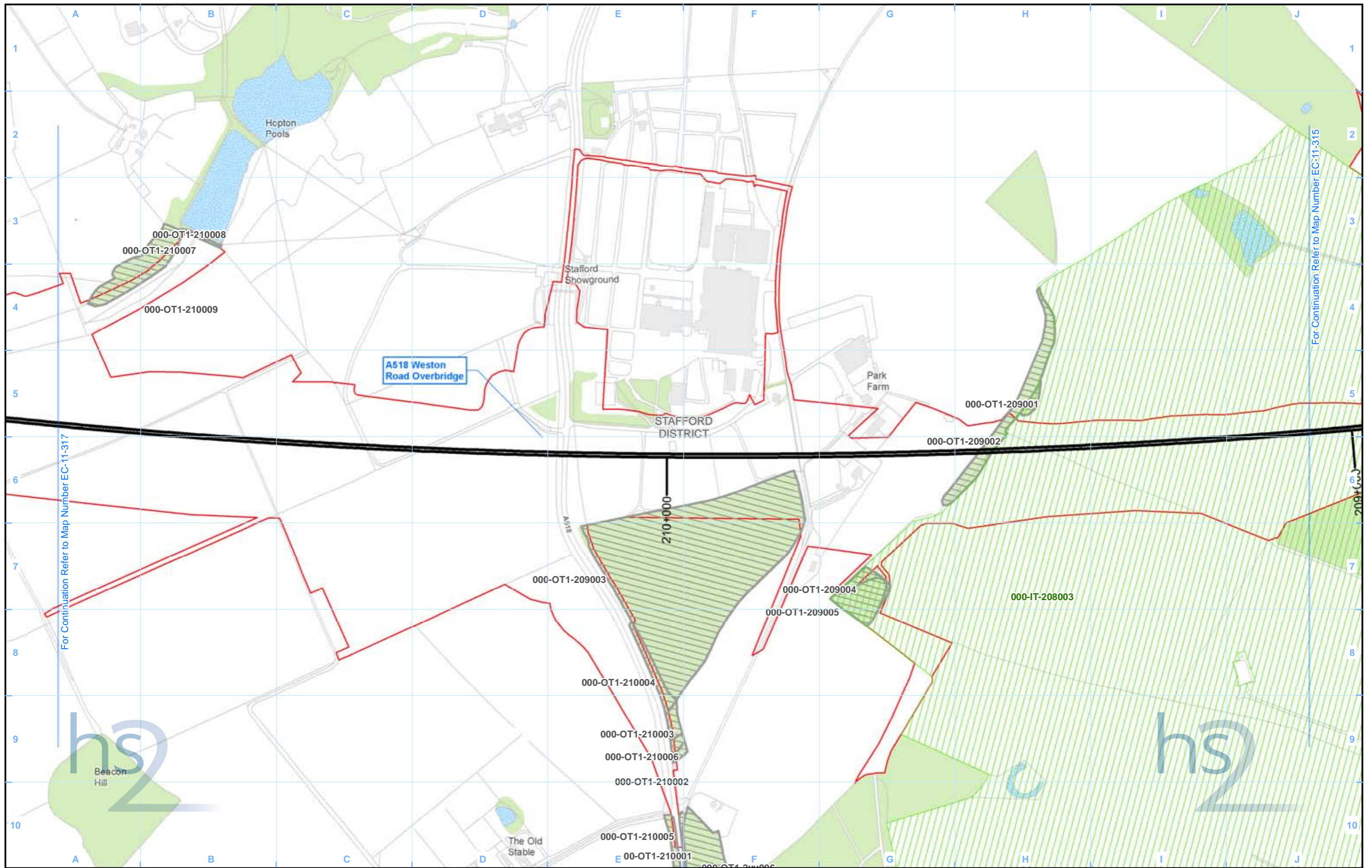
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For Continuation Refer to Map Number EC-11-317

For Continuation Refer to Map Number EC-11-315

| Legend |   | Otter: |                               | White clawed crayfish: |                           | Pond survey: |   | Fish: |                                       |  |  |
|--------|---|--------|-------------------------------|------------------------|---------------------------|--------------|---|-------|---------------------------------------|--|--|
|        | Route in bored tunnel                         |        | Watercourse                   |                        | Active otter holt         |              | Manual search and/or trapping conducted and presence confirmed  |       | Pond survey - national pond survey    |  | Fish survey location                   |
|        | Route on surface                              |        | Water body                    |                        | Potential otter holt      |              | Manual search and/or trapping conducted and assumed absent      |       | Pond survey - PSYM                    |  | Terrestrial invertebrate survey extent |
|        | Depot, station, headhouse or portal building  |        | Woodland (verified by survey) |                        | 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                     |        |                               |                        |                           |              |   |       |                                       |  |  |

|  |   |
|--|---|
| Map Number                             | EC-11-316                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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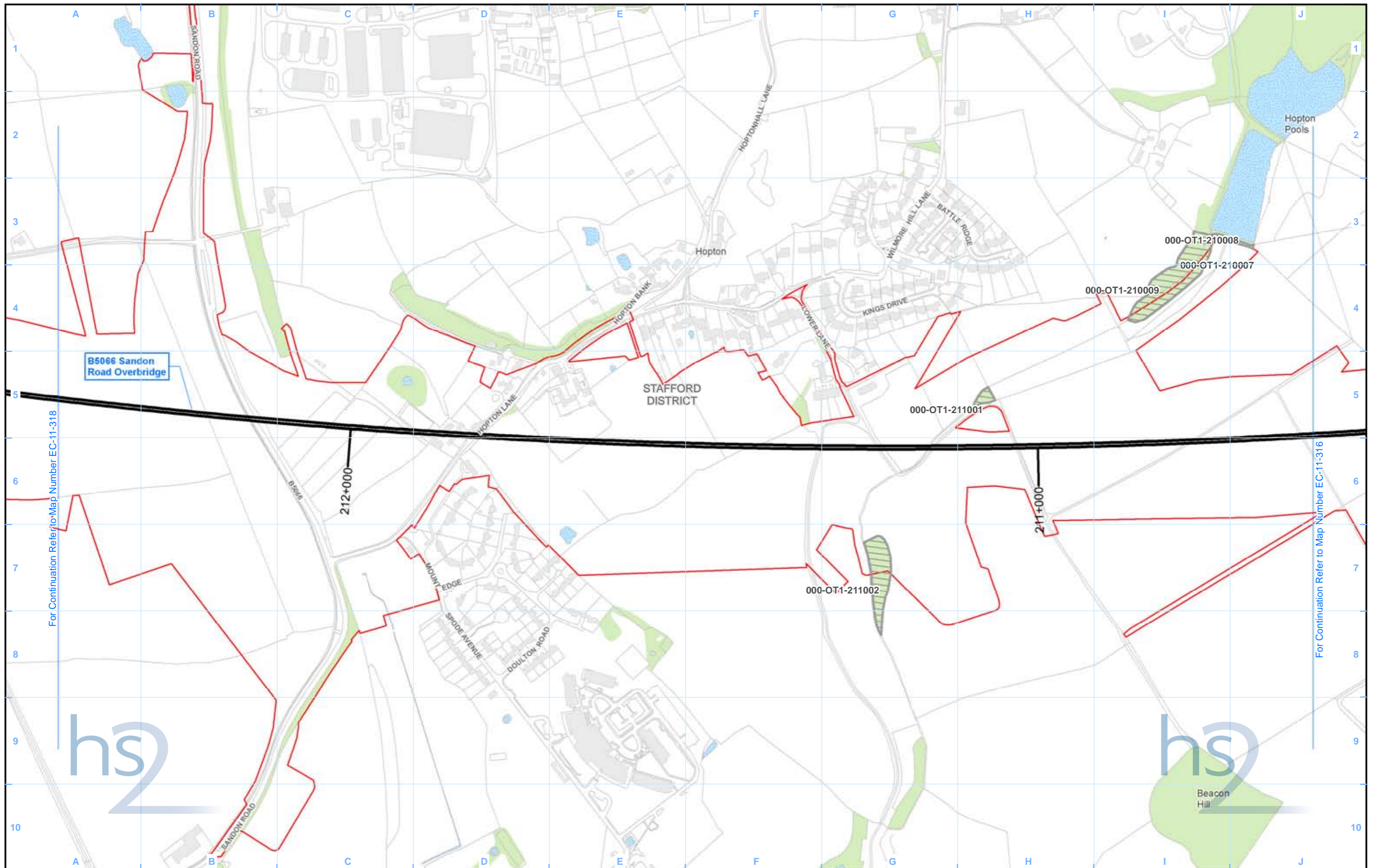
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Metres

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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   |
|        | District/Borough boundary                                       |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)                                   |
|        | Active otter holt   |
|        | Potential otter holt  |
|        | Otter terrestrial habitat                                       |
|        | 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 |
|        | Pond survey - national pond survey                              |
|        | Pond survey - PSYM  |
|        | Pond survey - rapid assessment method                           |
|        | Fish survey location  |
|        | Terrestrial invertebrate survey extent                          |

|  |   |
|--|---|
| Map Number                             | EC-11-317                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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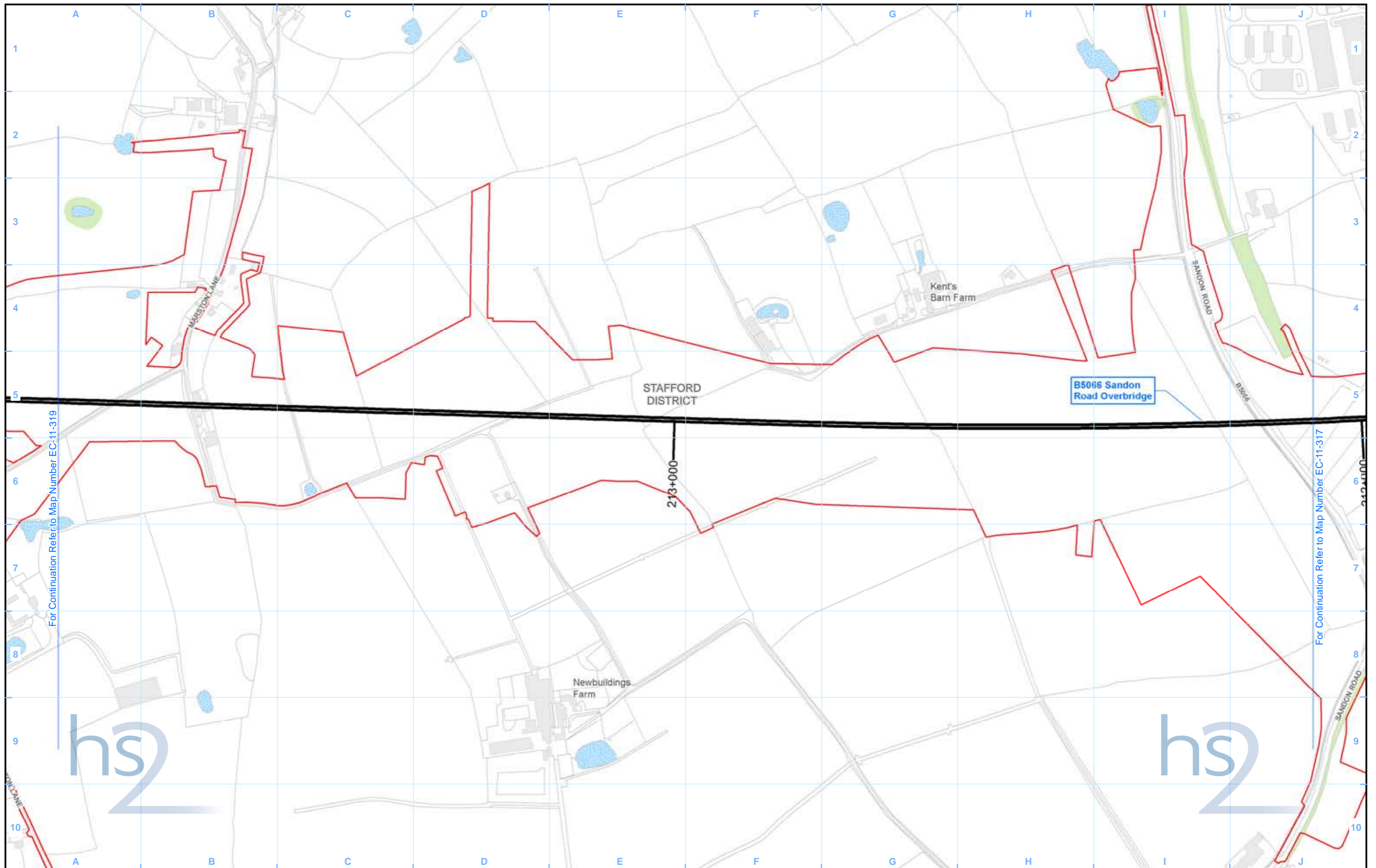
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| Legend  |   |
|---|---|
| Route in bored tunnel                         | Watercourse   |
| Route on surface                              | Water body  |
| Depot, station, headhouse or portal building  | Woodland (verified by survey)            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

|  |   |
|--|---|
| Map Number                             | EC-11-318                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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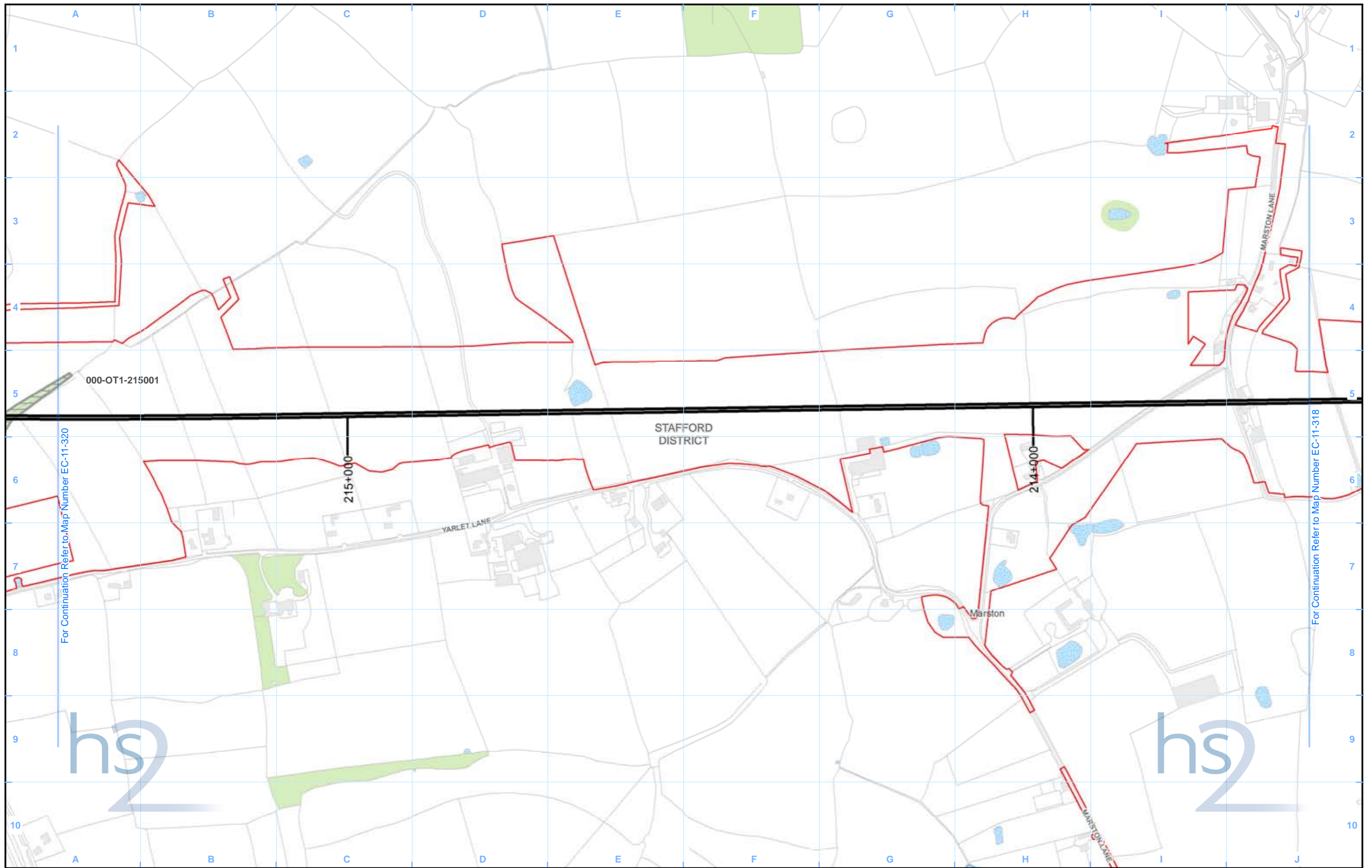
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Date: 19/06/17



| Legend  |   |
|---|---|
| Route in bored tunnel                         | Watercourse   |
| Route on surface                              | Water body  |
| Depot, station, headhouse or portal building  | Woodland (verified by survey)                                   |
| Land potentially required during construction |   |
| Community area boundary                       |   |
| District/Borough boundary                     |   |
| <b>Otter:</b>                                 | <b>White clawed crayfish:</b>                                   |
| Active otter holt                             | Manual search and/or trapping conducted and presence confirmed  |
| Potential otter holt                          | Manual search and/or trapping conducted and assumed absent      |
| Otter terrestrial habitat                     | 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-11-319                               |
| Map Name   | Other Protected and Notable Species (1) |
|            | Community Area 2:<br>Colwich to Yarlet  |

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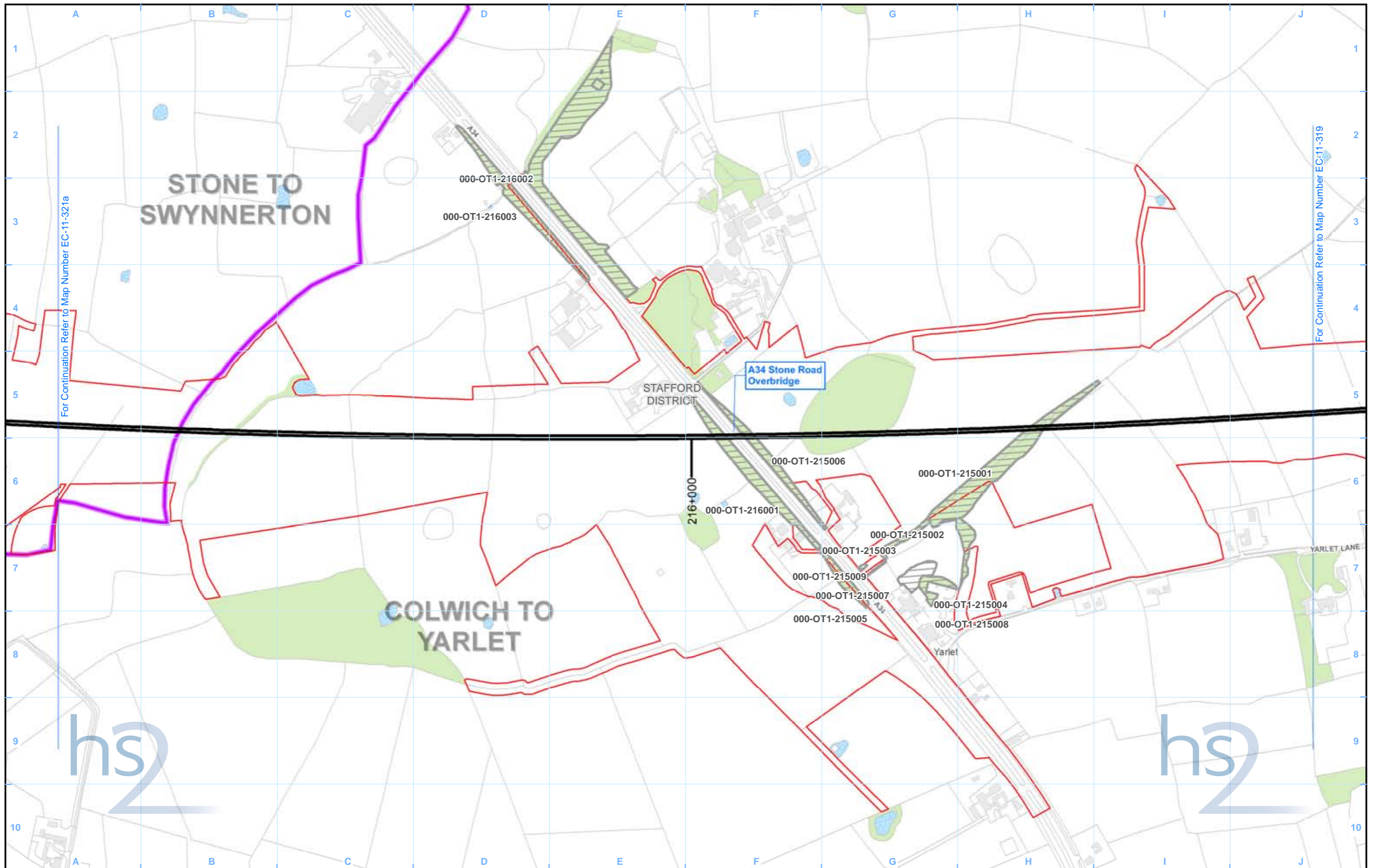
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Scale at A3: 1:5,000

0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-081326-P03 Date: 14/06/17





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

|  |   |
|--|---|
| Map Number                             | EC-11-320                               |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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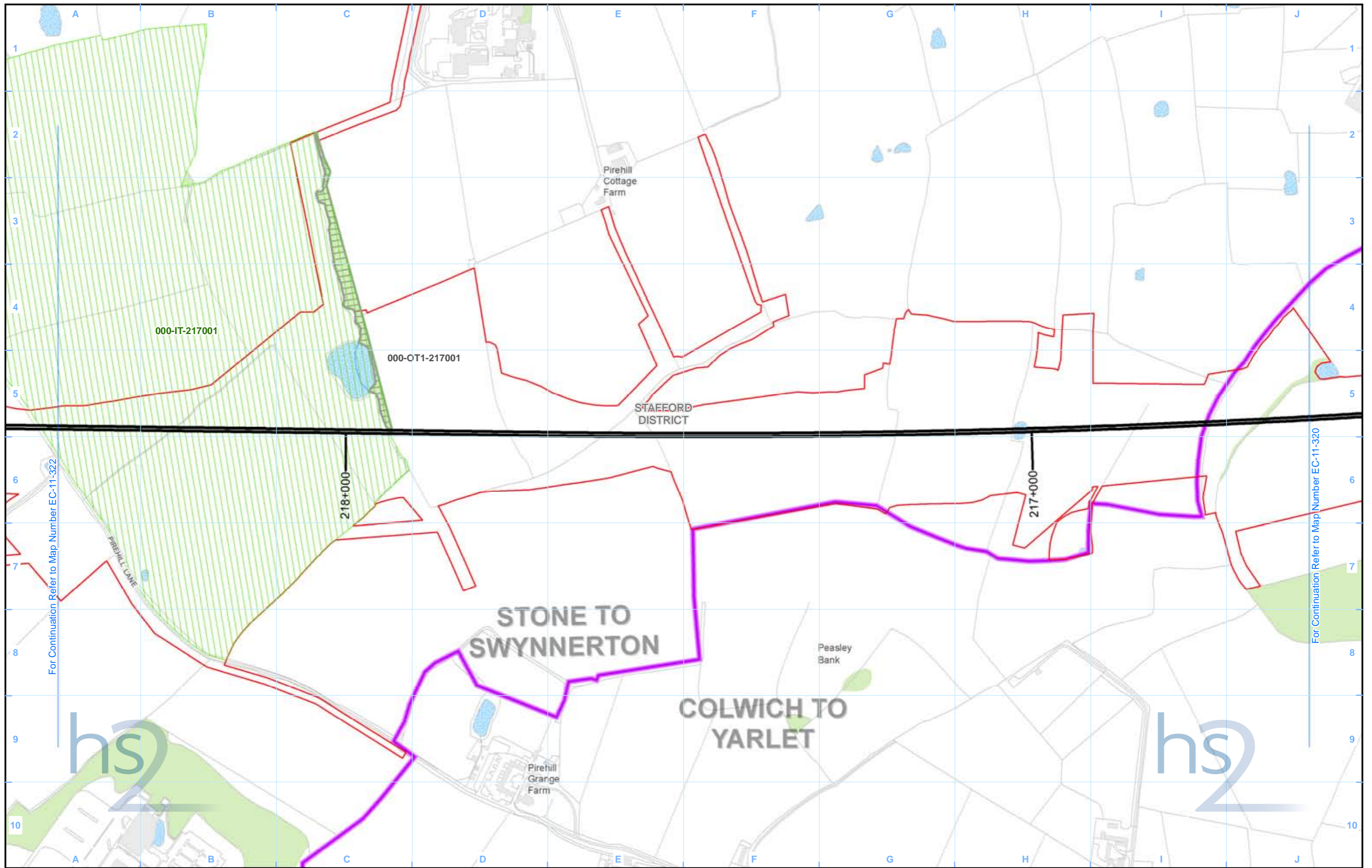
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| Legend |  |
|--------|--|
|        | Route in bored tunnel  |
|        | Route on surface   |
|        | Depot, station, headhouse or portal building   |
|        | Land potentially required during construction  |
|        | Community area boundary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

|  |   |
|--|---|
| Map Number                             | EC-11-321a                              |
| Map Name                               | Other Protected and Notable Species (1) |
| Community Area 2:<br>Colwich to Yarlet |   |

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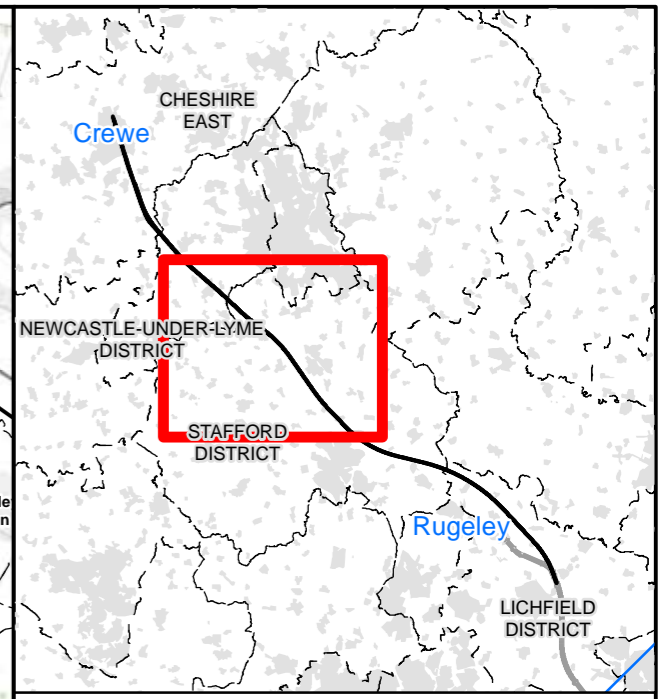
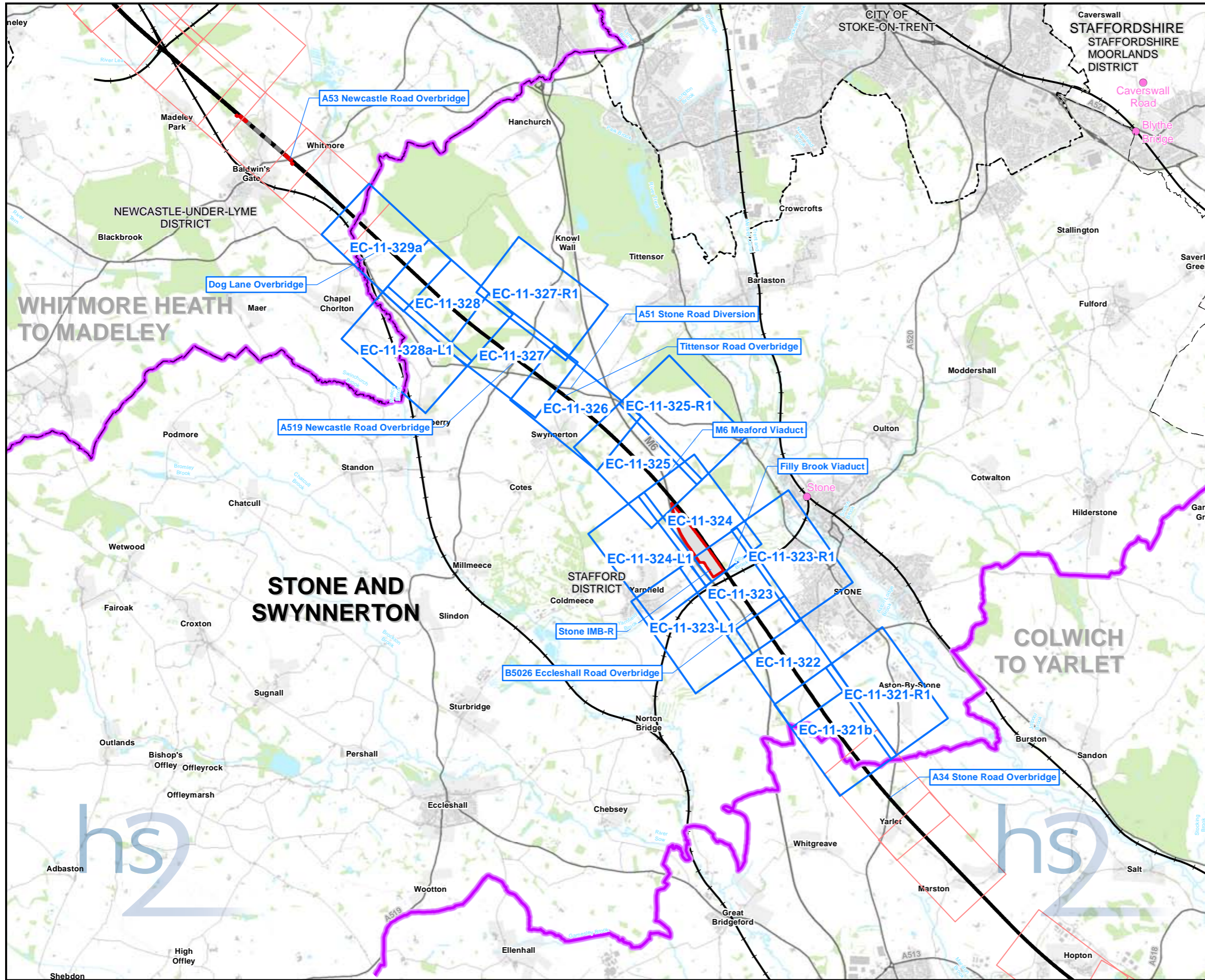
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**Map Series Information:**

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
- Map sheets not included in this community area

Map Number: EC-11-INDEX-CA3

Map Name: Index Map of:  
Other Protected and Notable  
Species (1)

Community Area 3:  
Stone and Swynnerton

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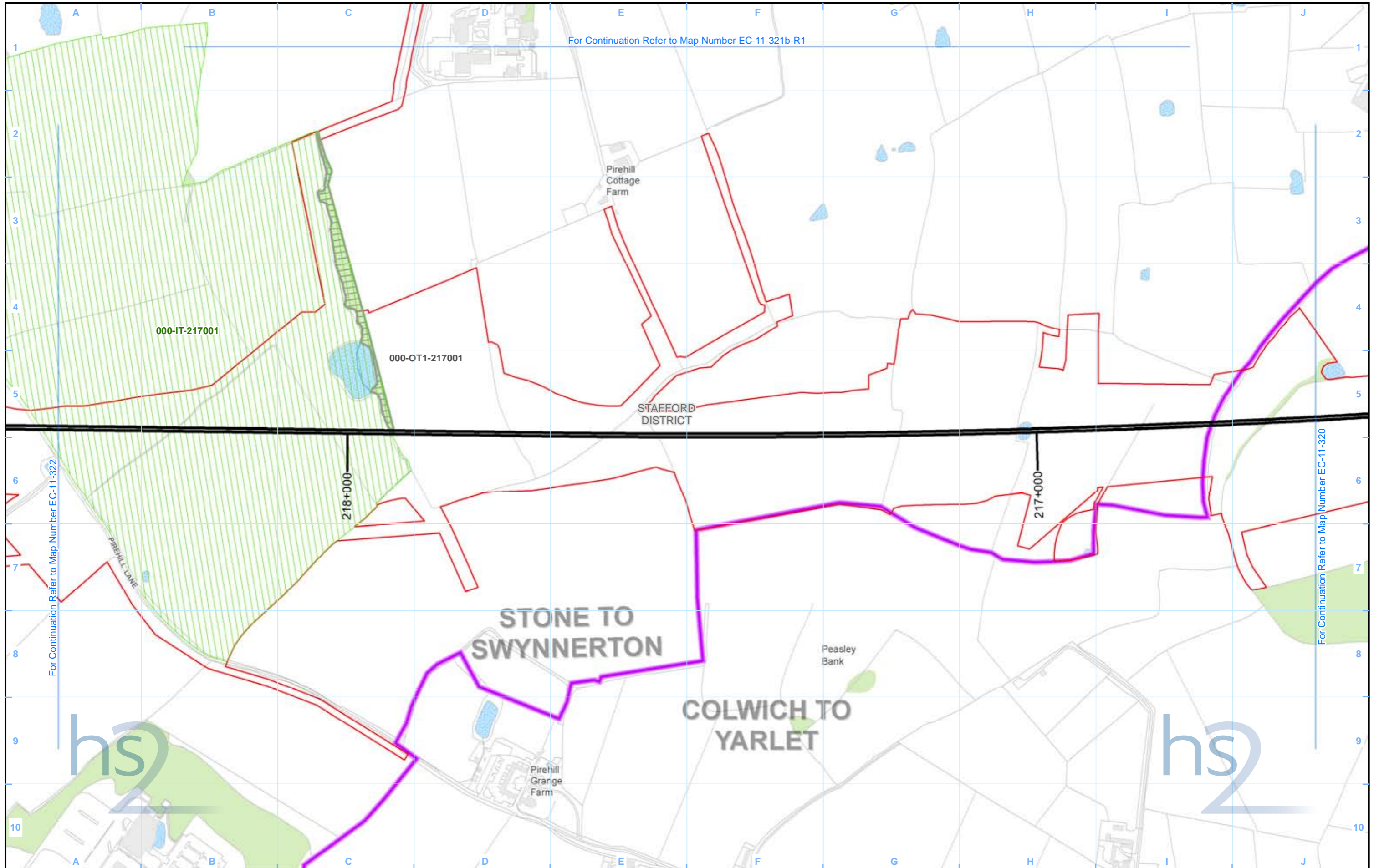
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Doc Number: C861-ARP-EV-MAP-000-081003-P03

Date: 14/06/17

For Continuation Refer to Map Number EC-11-321b-R1



| Legend |   | Otter: |                               | White clawed crayfish: |                           | Pond survey: |  | Fish: |  |
|--------|---|--------|-------------------------------|------------------------|---------------------------|--------------|--|-------|--|
|        | Route in bored tunnel                         |        | Watercourse                   |                        | Active otter holt         |              | Manual search and/or trapping conducted and presence confirmed |       | Fish survey location                   |
|        | Route on surface                              |        | Water body                    |                        | Potential otter holt      |              | Manual search and/or trapping conducted and assumed absent     |       | Fish survey location                   |
|        | Depot, station, headhouse or portal building  |        | Woodland (verified by survey) |                        | Otter terrestrial habitat |              | Pond survey - PSYM   |       | Terrestrial invertebrate survey extent |
|        | Land potentially required during construction |        |                               |                        |                           |              | Pond survey - rapid assessment method                          |       |  |
|        | Community area boundary                       |        |                               |                        |                           |              |  |       |  |
|        | District/Borough boundary                     |        |                               |                        |                           |              |  |       |  |

|   |   |
|---|---|
| Map Number                                | EC-11-321b                              |
| Map Name                                  | Other Protected and Notable Species (1) |
| Community Area 3:<br>Stone and Swynnerton |   |

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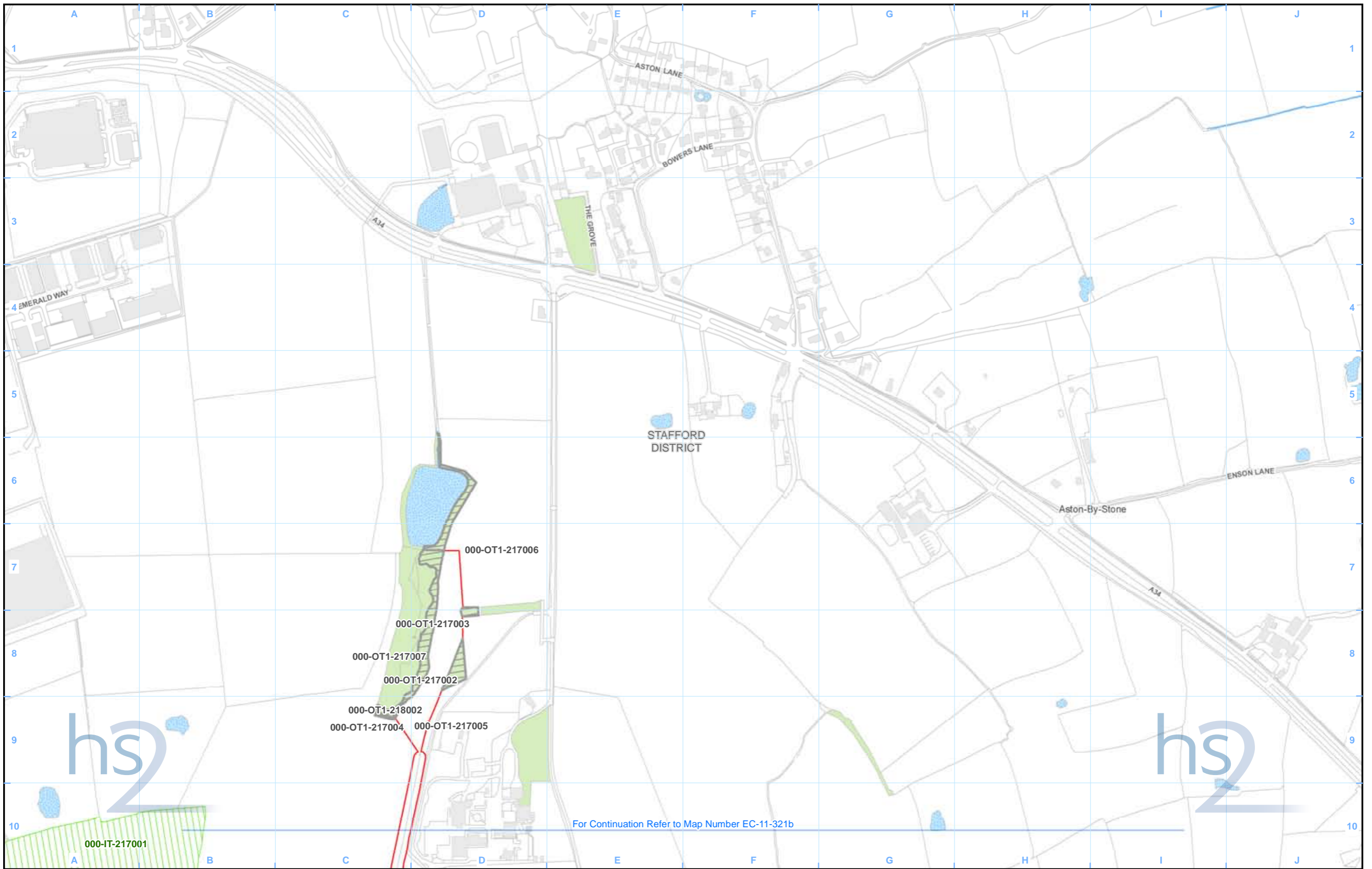
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Doc Number: C861-ARP-EV-MAP-000-081424-P03

Date: 14/06/17

Scale at A3: 1:5,000

0 50 100 150 200 Metres



For Continuation Refer to Map Number EC-11-321b

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

- Watercourse
- Water body
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Otter terrestrial habitat

- 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

- Pond survey:**
- Pond survey – national pond survey
  - Pond survey - PSYM
  - Pond survey – rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial invertebrate: Terrestrial invertebrate survey extent

Map Number: EC-11-321b-R1

Map Name: Other Protected and Notable Species (1)

Community Area 3: Stone and Swynnerton

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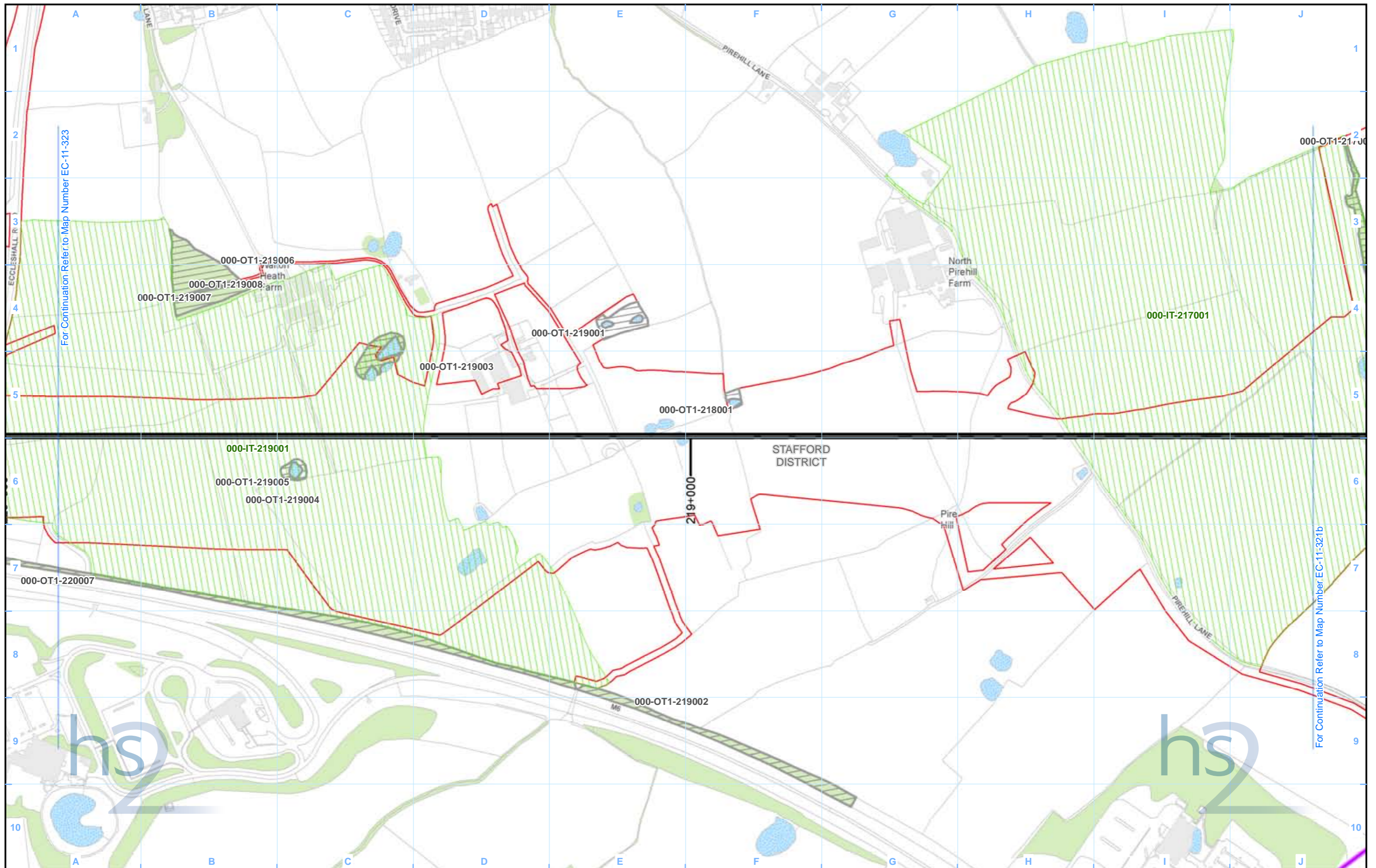
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Date: 14/06/17

Scale at A3: 1:5,000

0 50 100 150 200 Metres



| Legend |   | Otter: | White clawed crayfish: | Pond survey: | Fish: |
|--------|---|--------|------------------------|--------------|-------|
|        | Route in bored tunnel                         |        |                        |              |       |
|        | Route on surface                              |        |                        |              |       |
|        | Depot, station, headhouse or portal building  |        |                        |              |       |
|        | Land potentially required during construction |        |                        |              |       |
|        | Community area boundary                       |        |                        |              |       |
|        | District/Borough boundary                     |        |                        |              |       |
|        | Watercourse                                   |        |                        |              |       |
|        | Water body                                    |        |                        |              |       |
|        | Woodland (verified by survey)                 |        |                        |              |       |

|   |   |
|---|---|
| Map Number                                | EC-11-322                               |
| Map Name                                  | Other Protected and Notable Species (1) |
| Community Area 3:<br>Stone and Swynnerton |   |

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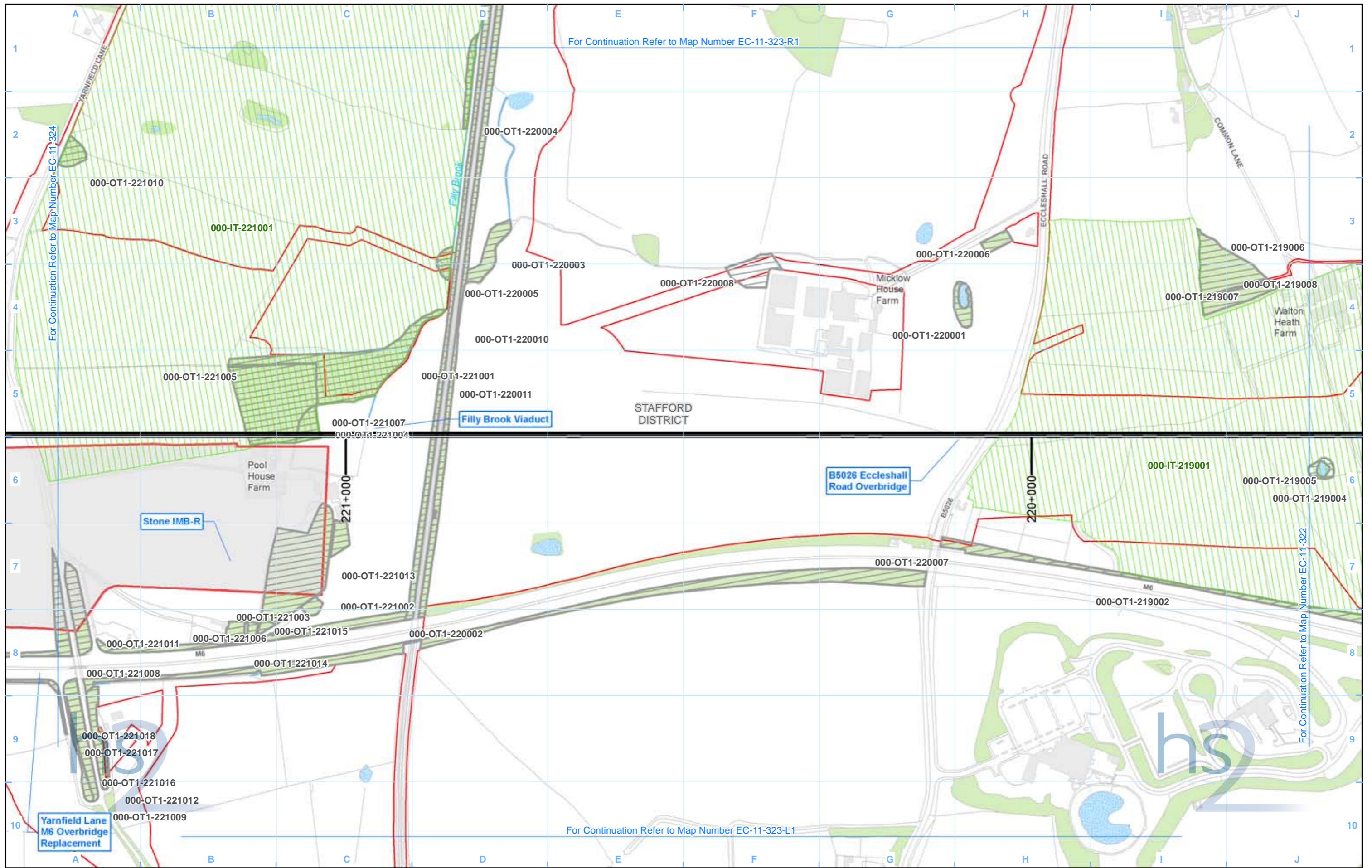
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Date: 14/06/17



| Legend |   | Otter: |                           | White clawed crayfish: |   | Pond survey: |                                       | Fish: |  |
|--------|---|--------|---------------------------|------------------------|---|--------------|---------------------------------------|-------|--|
|        | Route in bored 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)                 |        |                           |                        |   |              |                                       |       |  |

|   |   |
|---|---|
| Map Number                                | EC-11-323                               |
| Map Name                                  | Other Protected and Notable Species (1) |
| Community Area 3:<br>Stone and Swynnerton |   |

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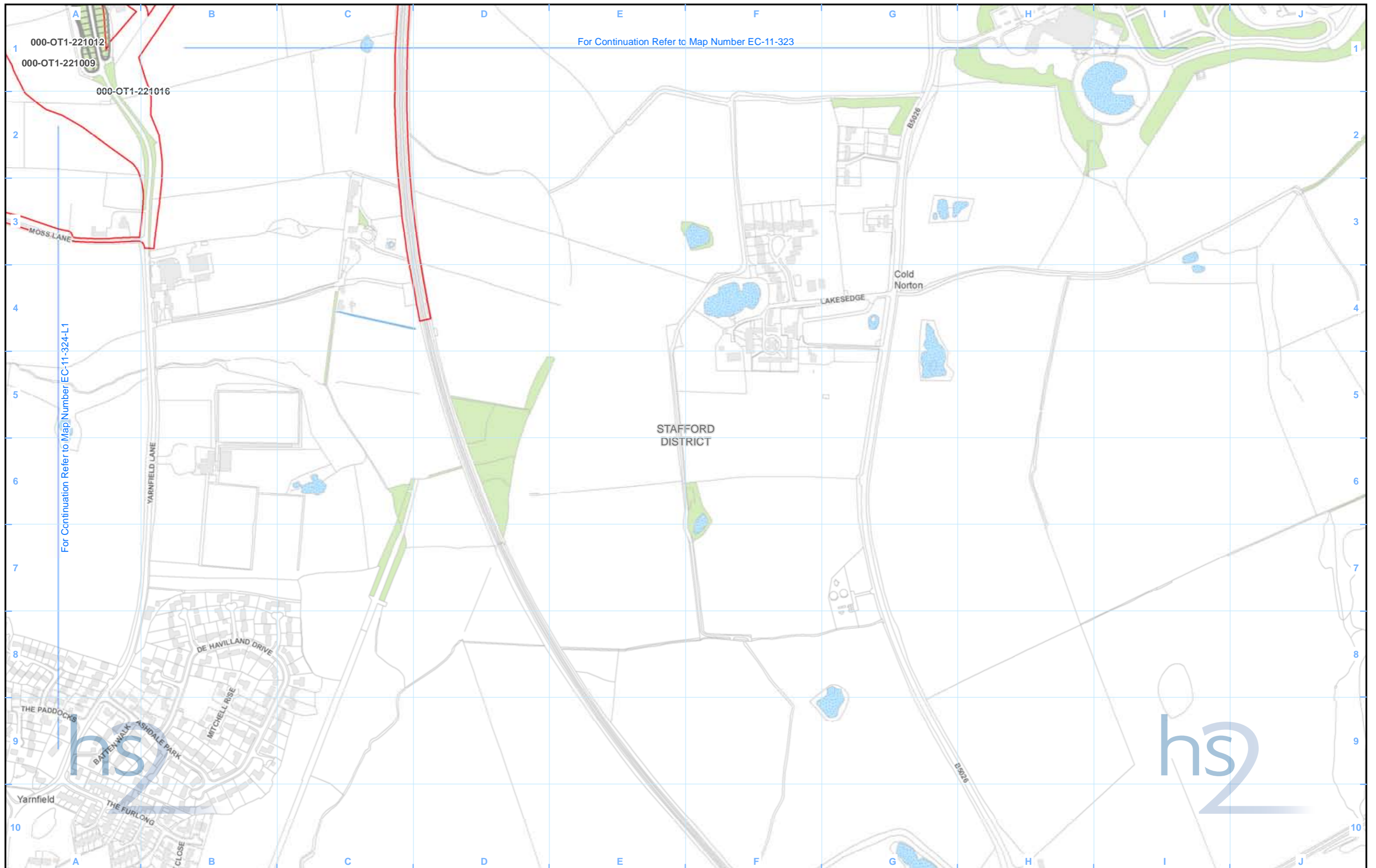
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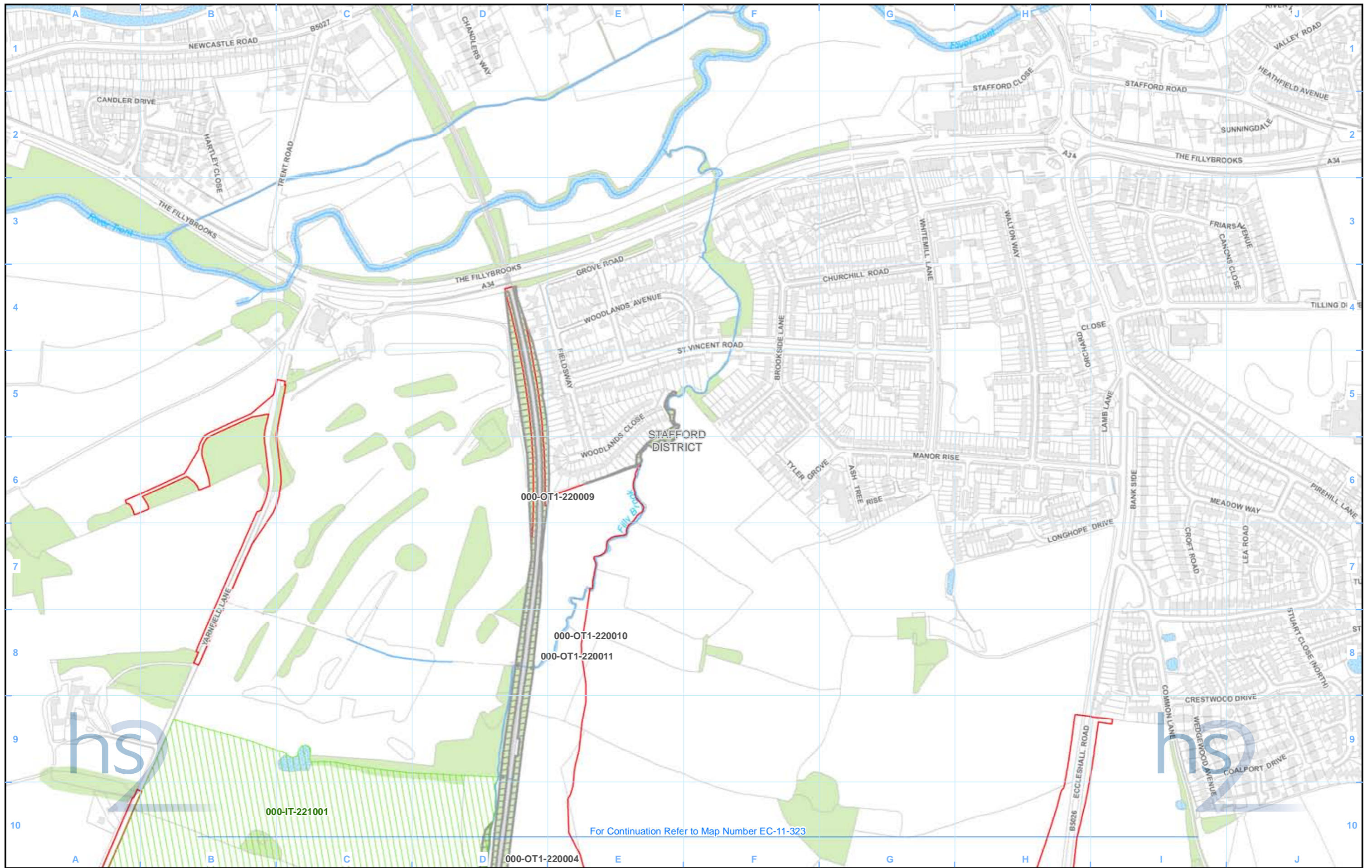




For Continuation Refer to Map Number EC-11-323

For Continuation Refer to Map Number EC-11-324-L1

|  |  |  |  |   |  |  |  |  |  |
|--|--|--|--|---|--|--|--|--|--|
| <b>Legend</b><br><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> <li> Watercourse</li> <li> Water body</li> <li> Woodland (verified by survey)</li> </ul> |  | <b>Otter:</b><br><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><br><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><br><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><br><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-11-323-L1   |  |  |  |   |  | <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> |  |  |  |
| <b>Map Name</b> Other Protected and Notable Species (1)  |  |  |  |   |  | <b>Scale at A3: 1:5,000</b><br>  |  |  |  |
| <b>Community Area 3: Stone and Swynnerton</b>  |  |  | <small>Registered in England. Registration number 06791686.<br/>Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small> |   |  | <small>© Crown copyright and database rights 2017.<br/>Ordnance Survey Licence Number 100049190.</small>   |  |  |  |
|  |  |  | <small>Doc Number: C861-ARP-EV-MAP-000-081323-P03</small>  |   |  | <small>Date: 14/06/17</small>  |  |  |  |



For Continuation Refer to Map Number EC-11-323

| Legend |   |
|--------|---|
|        | Route in bored tunnel   |
|        | Route on surface  |
|        | Depot, station, headhouse or portal building                    |
|        | Land potentially required during construction                   |
|        | Community area boundary   |
|        | District/Borough boundary                                       |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)                                   |
|        | Active otter holt   |
|        | Potential otter holt  |
|        | Otter terrestrial habitat                                       |
|        | 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 |
|        | Pond survey - national pond survey                              |
|        | Pond survey - PSYM  |
|        | Pond survey - rapid assessment method                           |
|        | Fish survey location  |
|        | Terrestrial invertebrate survey extent                          |

|            |   |
|------------|---|
| Map Number | EC-11-323-R1                              |
| Map Name   | Other Protected and Notable Species (1)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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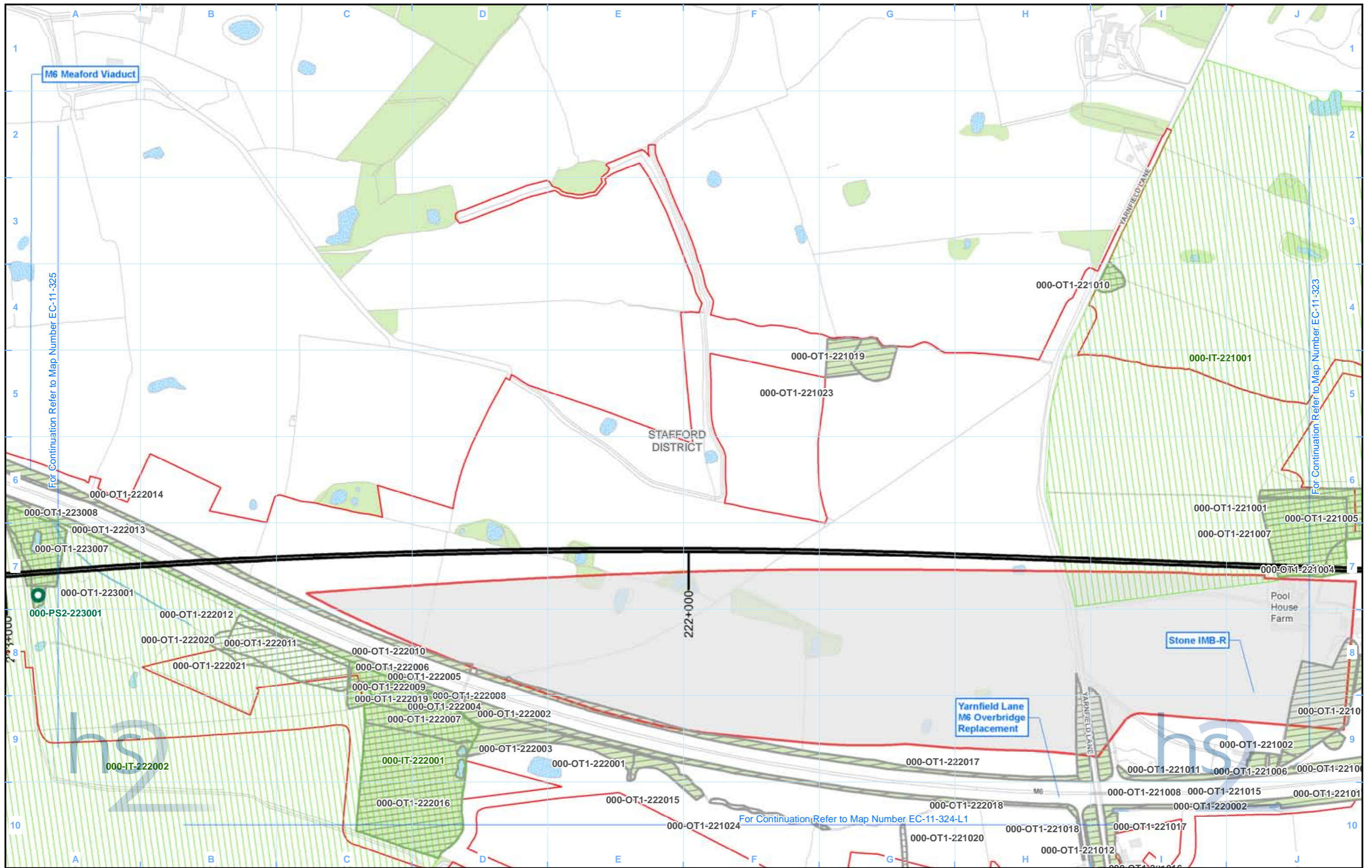
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Scale at A3: 1:5,000

Metres

Date: 14/06/17



**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 (verified by survey)</li> </ul> | <p><b>Otter:</b></p> <ul style="list-style-type: none"> <li> Active otter holt</li> <li> Potential otter holt</li> <li> Otter terrestrial habitat</li> </ul> | <p><b>White clawed crayfish:</b></p> <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> | <p><b>Pond survey:</b></p> <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> | <p><b>Fish:</b></p> <ul style="list-style-type: none"> <li> Fish survey location</li> </ul> <p><b>Terrestrial invertebrate:</b></p> <ul style="list-style-type: none"> <li> Terrestrial invertebrate survey extent</li> </ul> |
|--|---|--|---|---|---|

|   |   |
|---|---|
| Map Number                                | EC-11-324                               |
| Map Name                                  | Other Protected and Notable Species (1) |
| Community Area 3:<br>Stone and Swynnerton |   |

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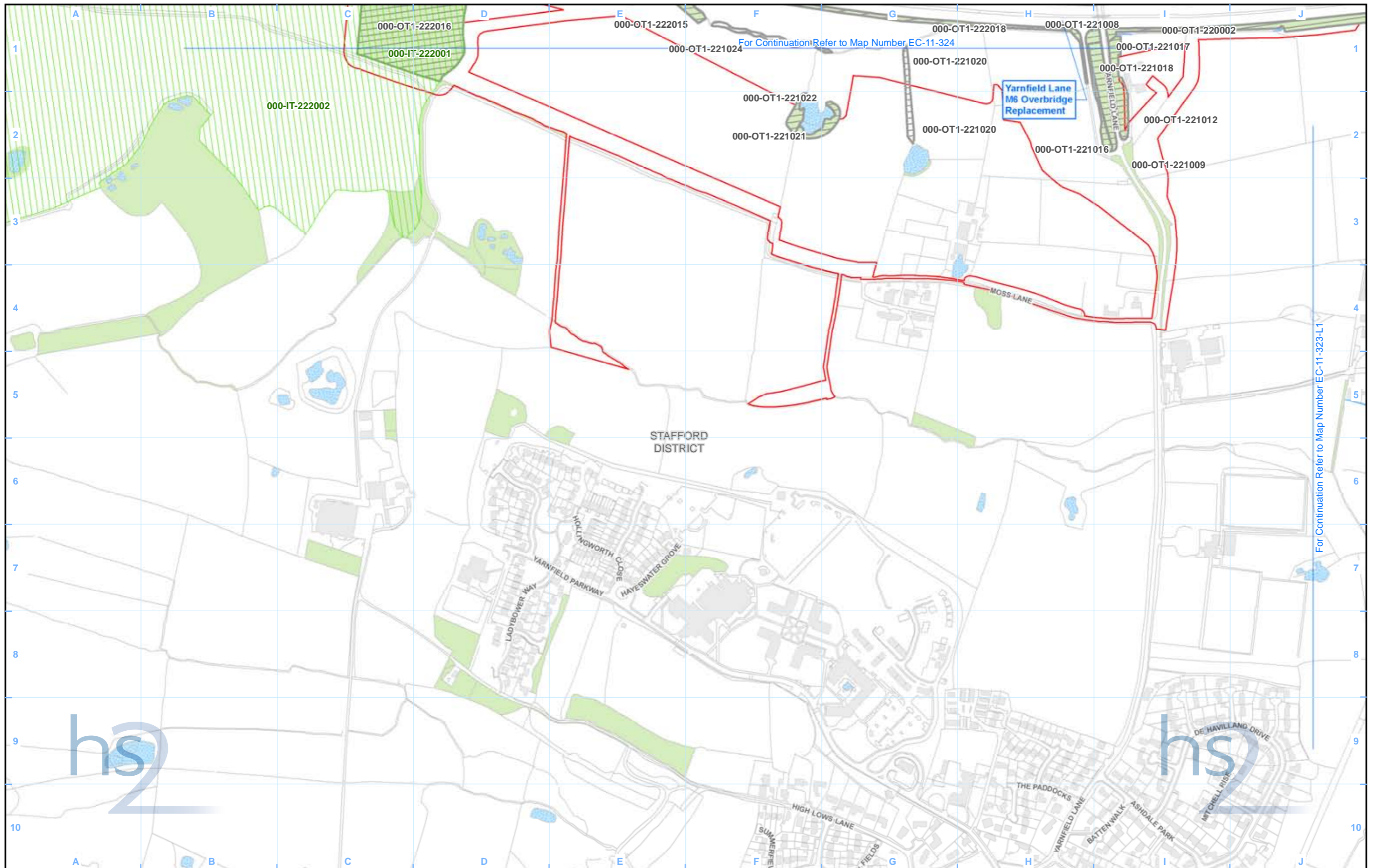
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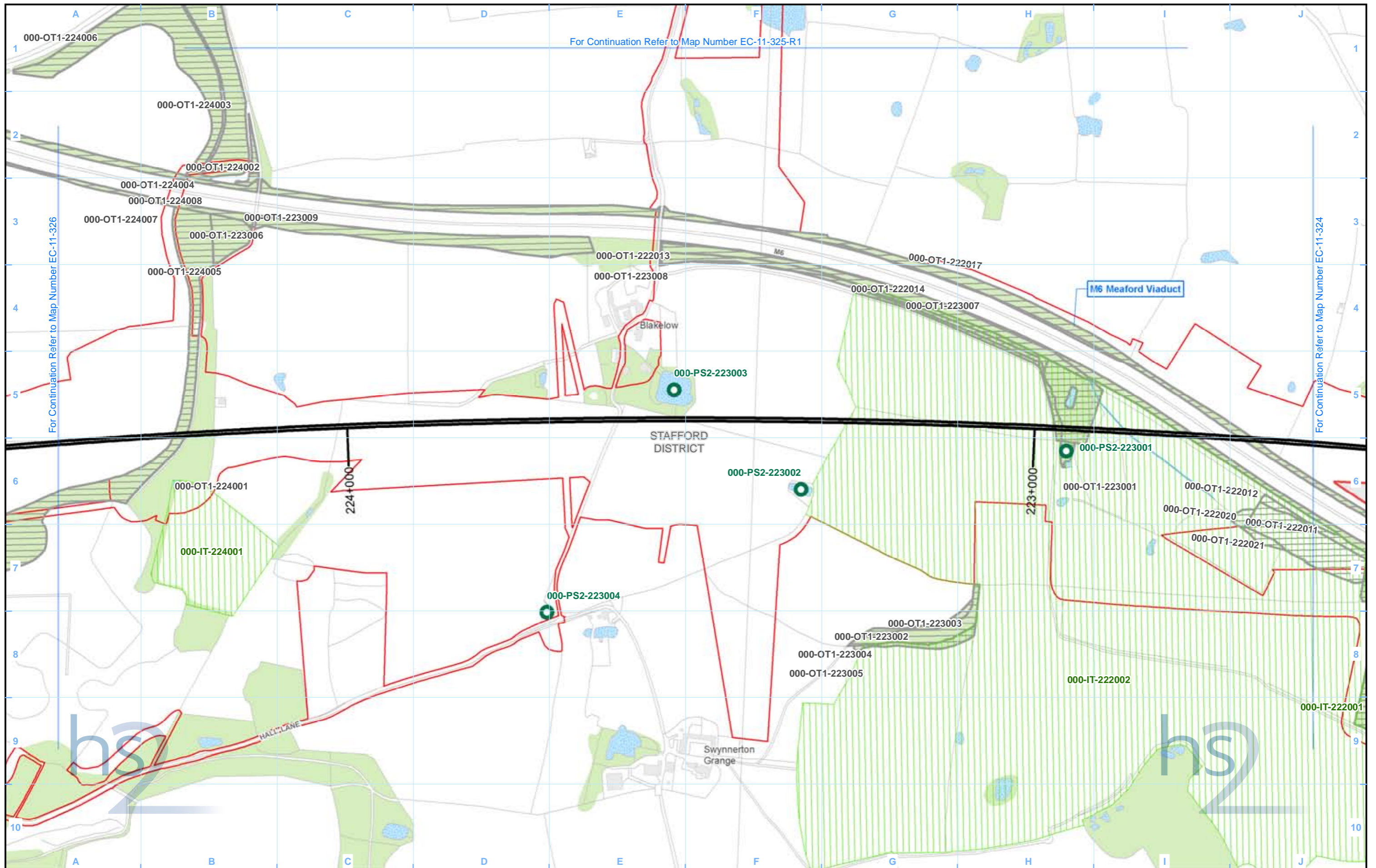
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For Continuation Refer to Map Number EC-11-323-L1

|   |  |  |  |   |  |  |  |  |  |  |  |
|---|--|--|--|---|--|--|--|--|--|--|--|
| <b>Legend</b><br>Route in bored tunnel<br>Route on surface<br>Depot, station, headhouse or portal building<br>Land potentially required during construction<br>Community area boundary<br>District/Borough boundary |  | Watercourse<br>Water body<br>Woodland (verified by survey) |  | <b>Otter:</b><br>Active otter holt<br>Potential otter holt<br>Otter terrestrial habitat                                 |  | <b>White clawed crayfish:</b><br>Manual search and/or trapping conducted and presence confirmed<br>Manual search and/or trapping conducted and assumed absent<br>Site identified as potentially suitable but no access available |  | <b>Pond survey:</b><br>Pond survey - national pond survey<br>Pond survey - PSYM<br>Pond survey - rapid assessment method |  | <b>Fish:</b><br>Fish survey location<br><b>Terrestrial invertebrate:</b><br>Terrestrial invertebrate survey extent |  |
| Map Number<br><b>EC-11-324-L1</b>   |  |  |  | Registered in England. Registration number 06791686.<br>Registered office: 2 Snowhill, Queensway,<br>Birmingham B4 6GA. |  | Scale at A3: 1:5,000<br>   |  |  |  |  |  |
| Map Name<br><b>Other Protected and Notable Species (1)</b>  |  | Community Area 3:<br><b>Stone and Swynnerton</b>           |  | © Crown copyright and database rights 2017.<br>Ordnance Survey Licence Number 100049190.                                |  | Doc Number: C861-ARP-EV-MAP-000-081421-P03   |  |  |  |  |  |
|   |  |  |  |   |  | <b>Date: 14/06/17</b>  |  |  |  |  |  |

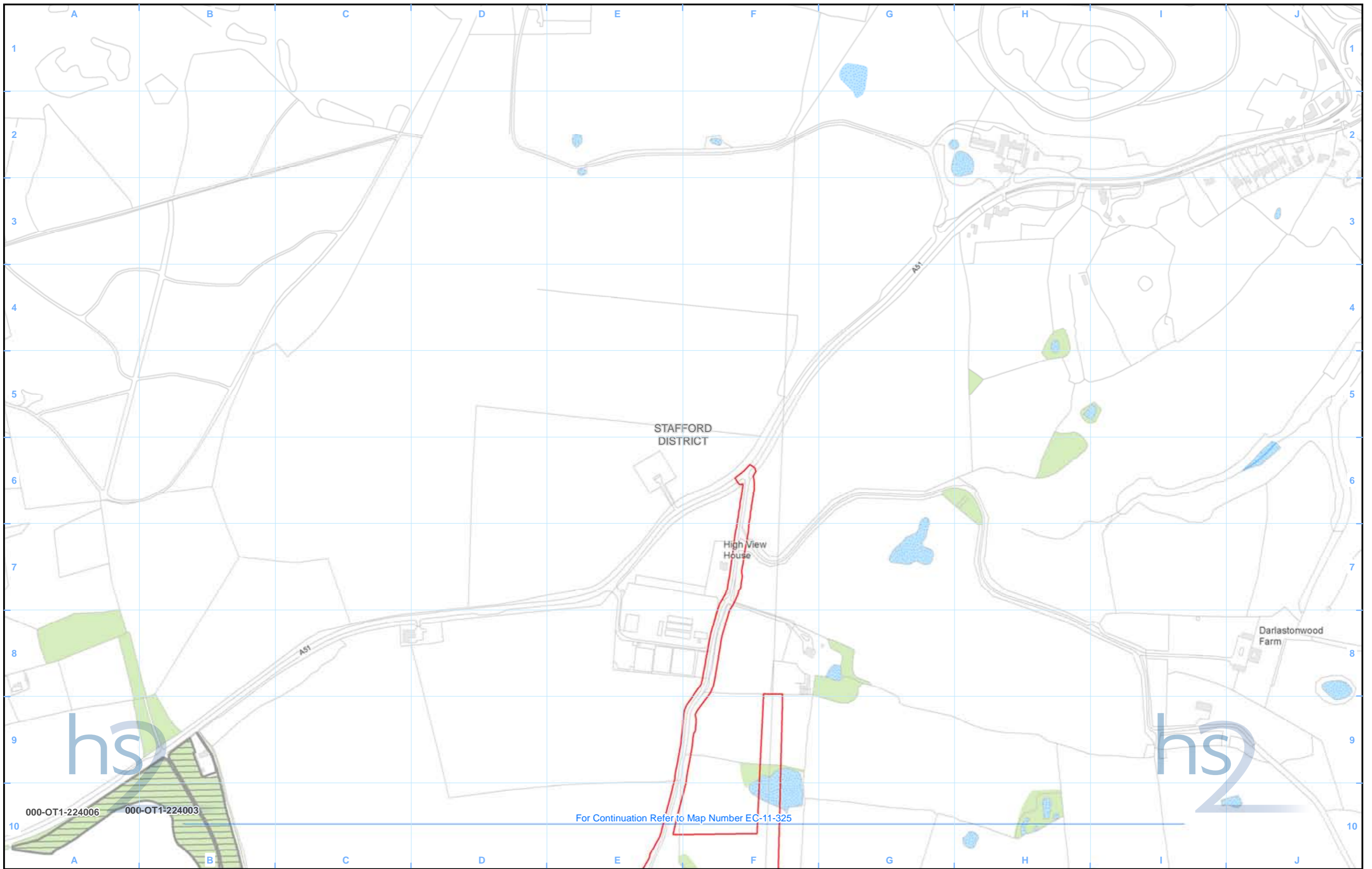


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For Continuation Refer to Map Number EC-11-326

For Continuation Refer to Map Number EC-11-324

|   |  |   |  |  |  |   |  |   |  |  |  |
|---|--|---|--|--|--|---|--|---|--|--|--|
| <b>Legend</b><br><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 (verified by survey)</li> </ul> |  | <b>Otter:</b><br><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><br><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><br><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><br><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><br><p style="text-align: center;">EC-11-325</p>   |  |   |  | <p>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> |  |   |  |   |  |  |  |
| <b>Map Name</b><br><p style="text-align: center;">Other Protected and Notable Species (1)</p>   |  | <p style="text-align: center;">Community Area 3:<br/>Stone and Swynnerton</p>   |  | <p>Registered in England. Registration number 06791686.<br/>Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p>   |  | <p style="text-align: center;">Scale at A3: 1:5,000</p>   |  |   |  |  |  |
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| Legend |   | Otter: |                           | White clawed crayfish: |   | Pond survey: |                                       | Fish: |  |
|--------|---|--------|---------------------------|------------------------|---|--------------|---------------------------------------|-------|--|
|        | Route in bored 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)                 |        |                           |                        |   |              |                                       |       |  |

|            |   |
|------------|---|
| Map Number | EC-11-325-R1                              |
| Map Name   | Other Protected and Notable Species (1)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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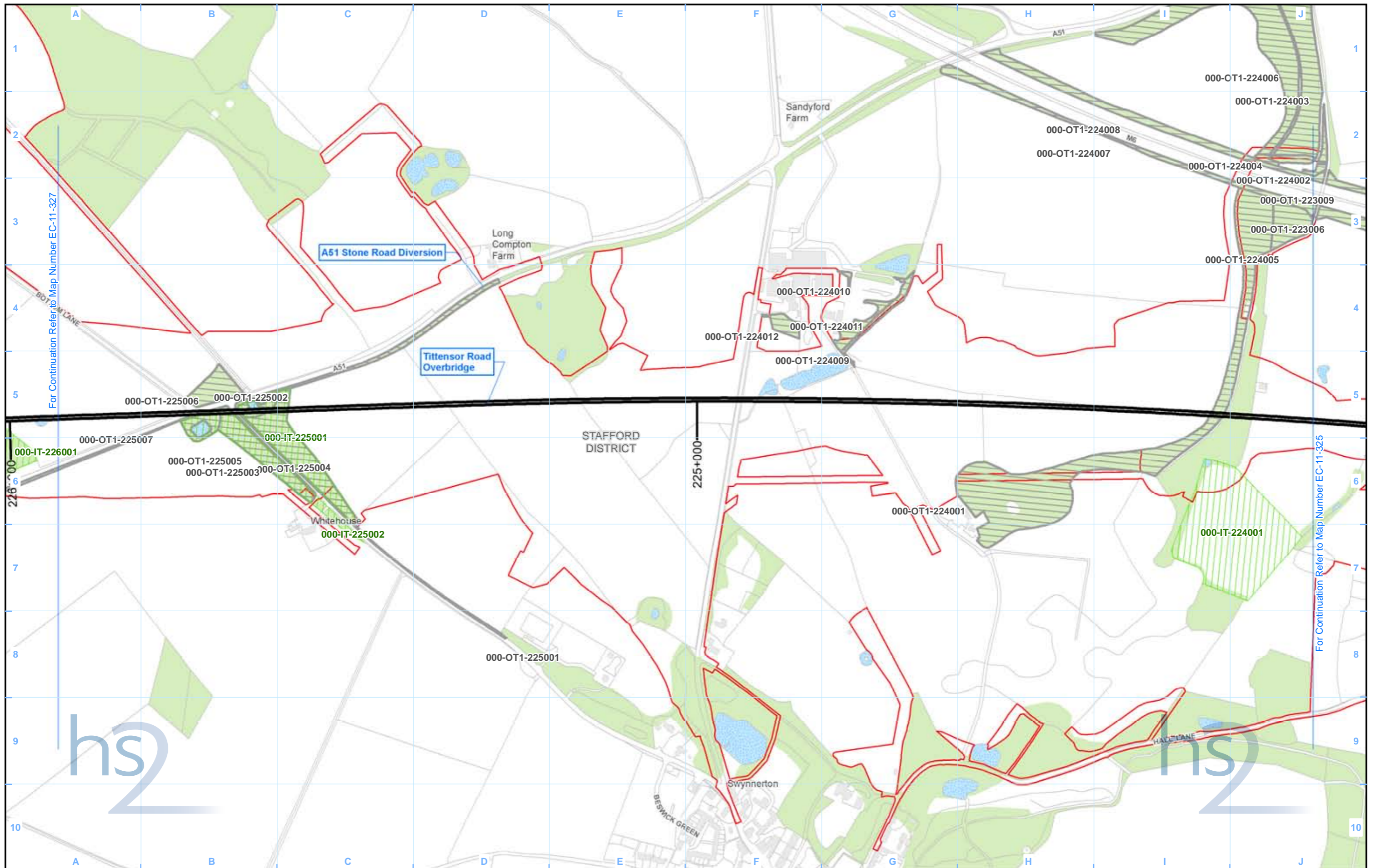
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Doc Number: C861-ARP-EV-MAP-000-081320-P03

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Metres

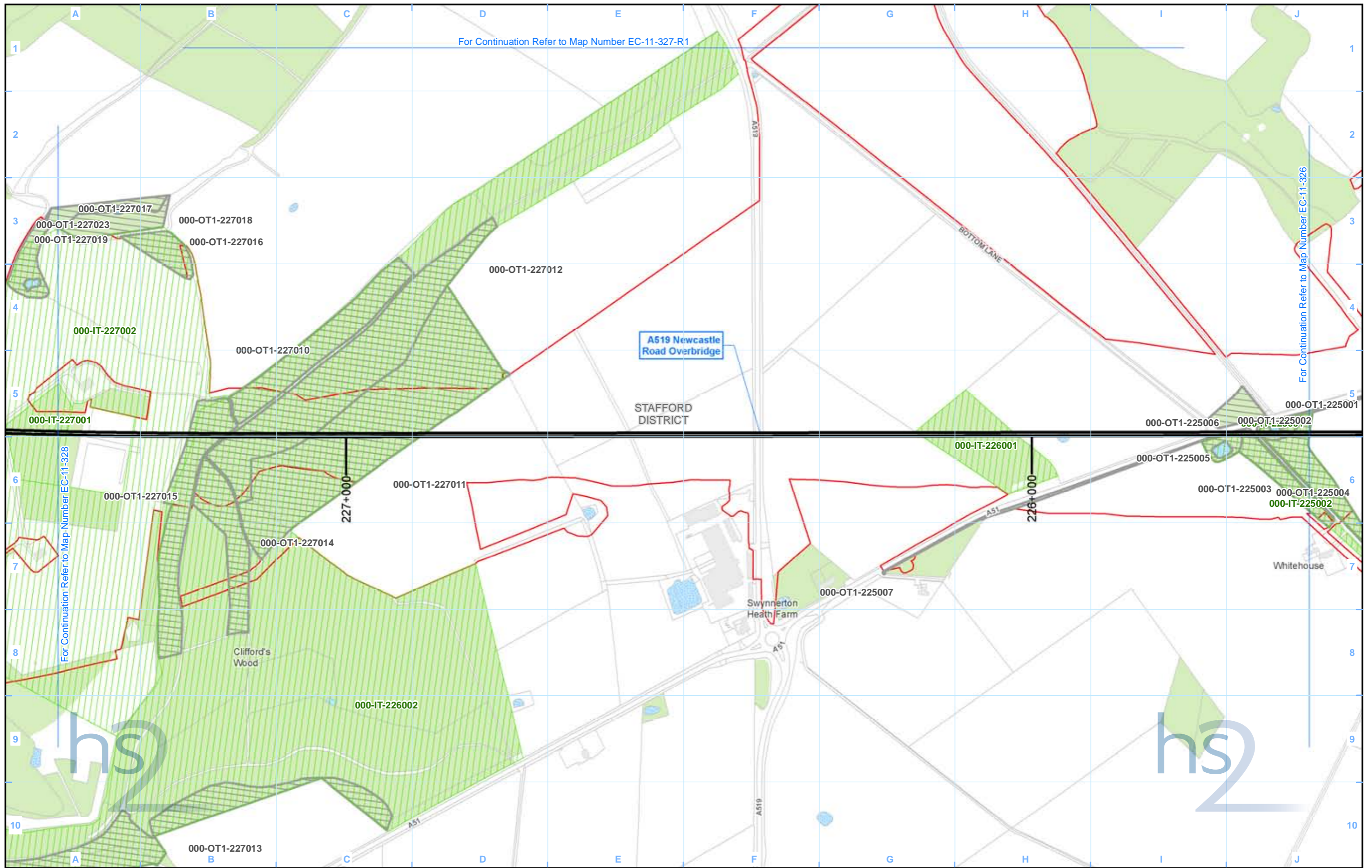
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For Continuation Refer to Map Number EC-11-327

For Continuation Refer to Map Number EC-11-325

|   |  |   |  |  |  |   |  |   |  |  |  |
|---|--|---|--|--|--|---|--|---|--|--|--|
| <b>Legend</b><br><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 (verified by survey)</li> </ul> |  | <b>Otter:</b><br><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><br><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><br><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><br><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-11-326   |  |   |  |  |  | <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>  |  |   |  |  |  |
| <b>Map Name</b> Other Protected and Notable Species (1)   |  |   | <small>Registered in England. Registration number 06791686.<br/>Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</small> |  |  | <b>Scale at A3: 1:5,000</b><br>   |  |   |  |  |  |
| <b>Community Area 3: Stone and Swynnerton</b>   |  |   | <small>© Crown copyright and database rights 2017.<br/>Ordnance Survey Licence Number 100049190.</small>                             |  |  | <small>Doc Number: C861-ARP-EV-MAP-000-081319-P03</small>   |  |   |  |  |  |
|   |  |   |  |  |  | <b>Date: 14/06/17</b>   |  |   |  |  |  |



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For Continuation Refer to Map Number EC-11-326

For Continuation Refer to Map Number EC-11-328

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

|            |   |
|------------|---|
| Map Number | EC-11-327                                 |
| Map Name   | Other Protected and Notable Species (1)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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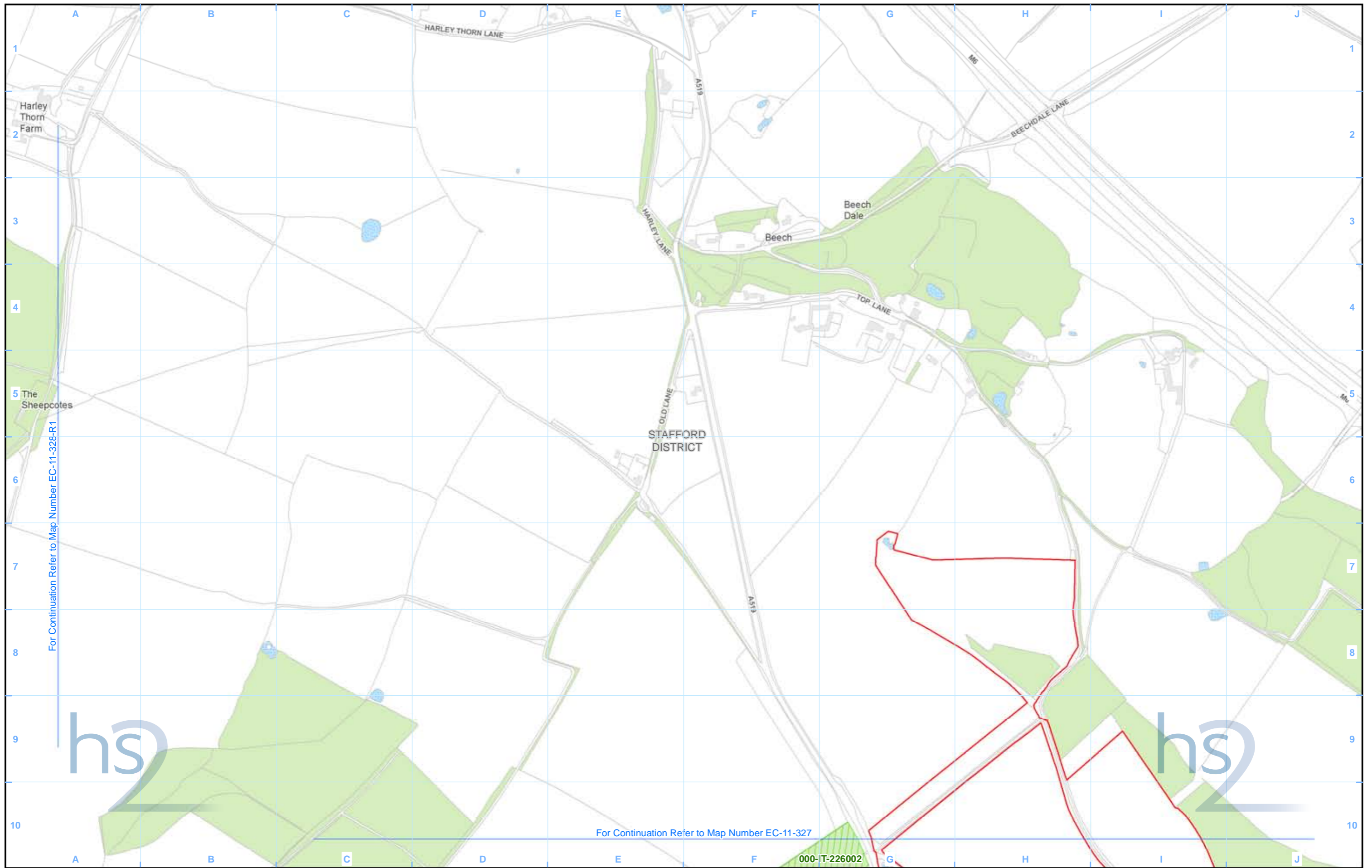
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For Continuation Refer to Map Number EC-11-327

| Legend |   | Otter: | White clawed crayfish: | Pond survey: | Fish: |
|--------|---|--------|------------------------|--------------|-------|
|        | Route in bored tunnel                         |        |                        |              |       |
|        | Route on surface                              |        |                        |              |       |
|        | Depot, station, headhouse or portal building  |        |                        |              |       |
|        | Land potentially required during construction |        |                        |              |       |
|        | Community area boundary                       |        |                        |              |       |
|        | District/Borough boundary                     |        |                        |              |       |
|        | Watercourse                                   |        |                        |              |       |
|        | Water body                                    |        |                        |              |       |
|        | Woodland (verified by survey)                 |        |                        |              |       |

|            |   |
|------------|---|
| Map Number | EC-11-327-R1                              |
| Map Name   | Other Protected and Notable Species (1)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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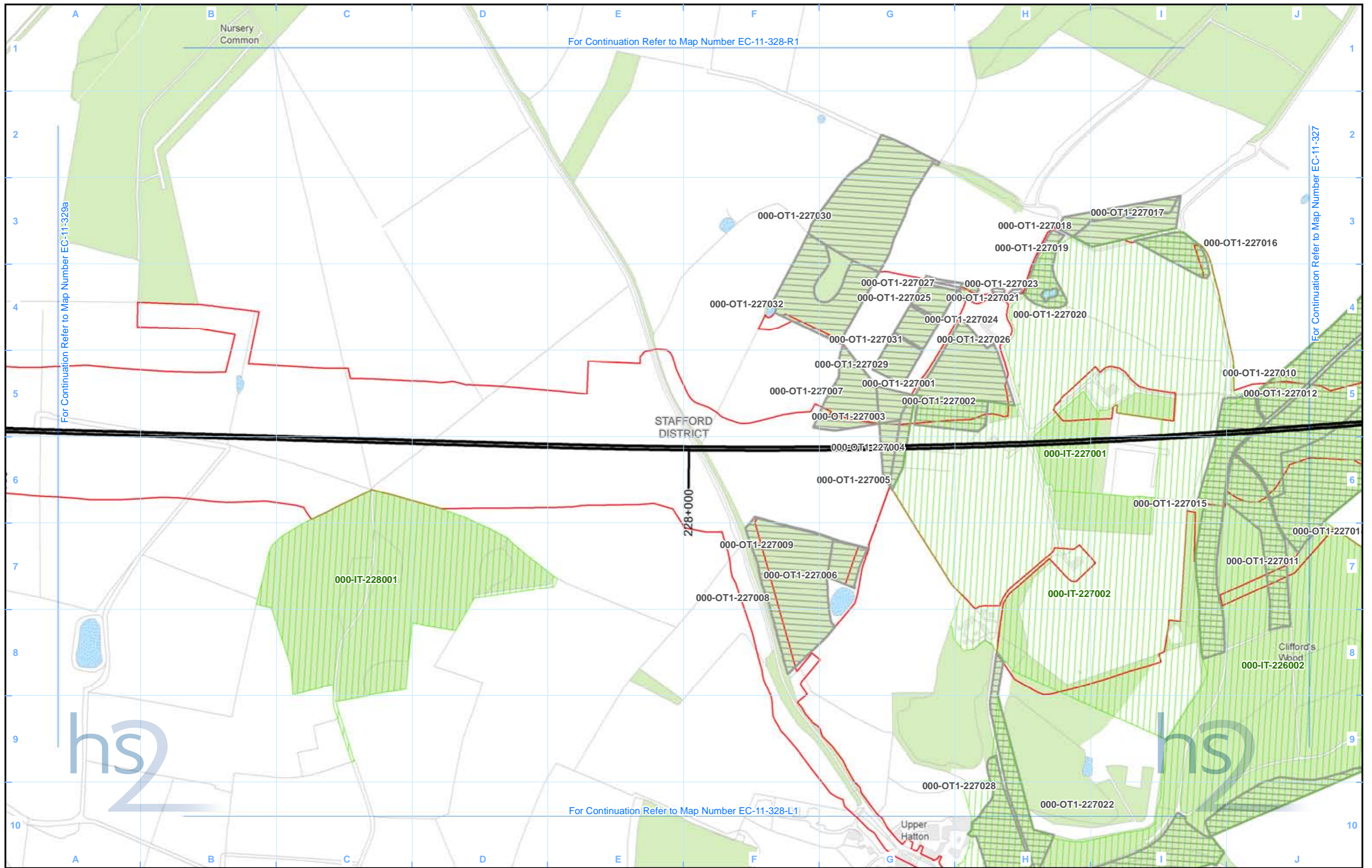
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| Legend |   | Otter: | White clawed crayfish: | Pond survey: | Fish: |
|--------|---|--------|------------------------|--------------|-------|
|        | Route in bored tunnel                         |        |                        |              |       |
|        | Route on surface                              |        |                        |              |       |
|        | Depot, station, headhouse or portal building  |        |                        |              |       |
|        | Land potentially required during construction |        |                        |              |       |
|        | Community area boundary                       |        |                        |              |       |
|        | District/Borough boundary                     |        |                        |              |       |
|        | Watercourse                                   |        |                        |              |       |
|        | Water body                                    |        |                        |              |       |
|        | Woodland (verified by survey)                 |        |                        |              |       |

|   |   |
|---|---|
| Map Number                                | EC-11-328                               |
| Map Name                                  | Other Protected and Notable Species (1) |
| Community Area 3:<br>Stone and Swynnerton |   |

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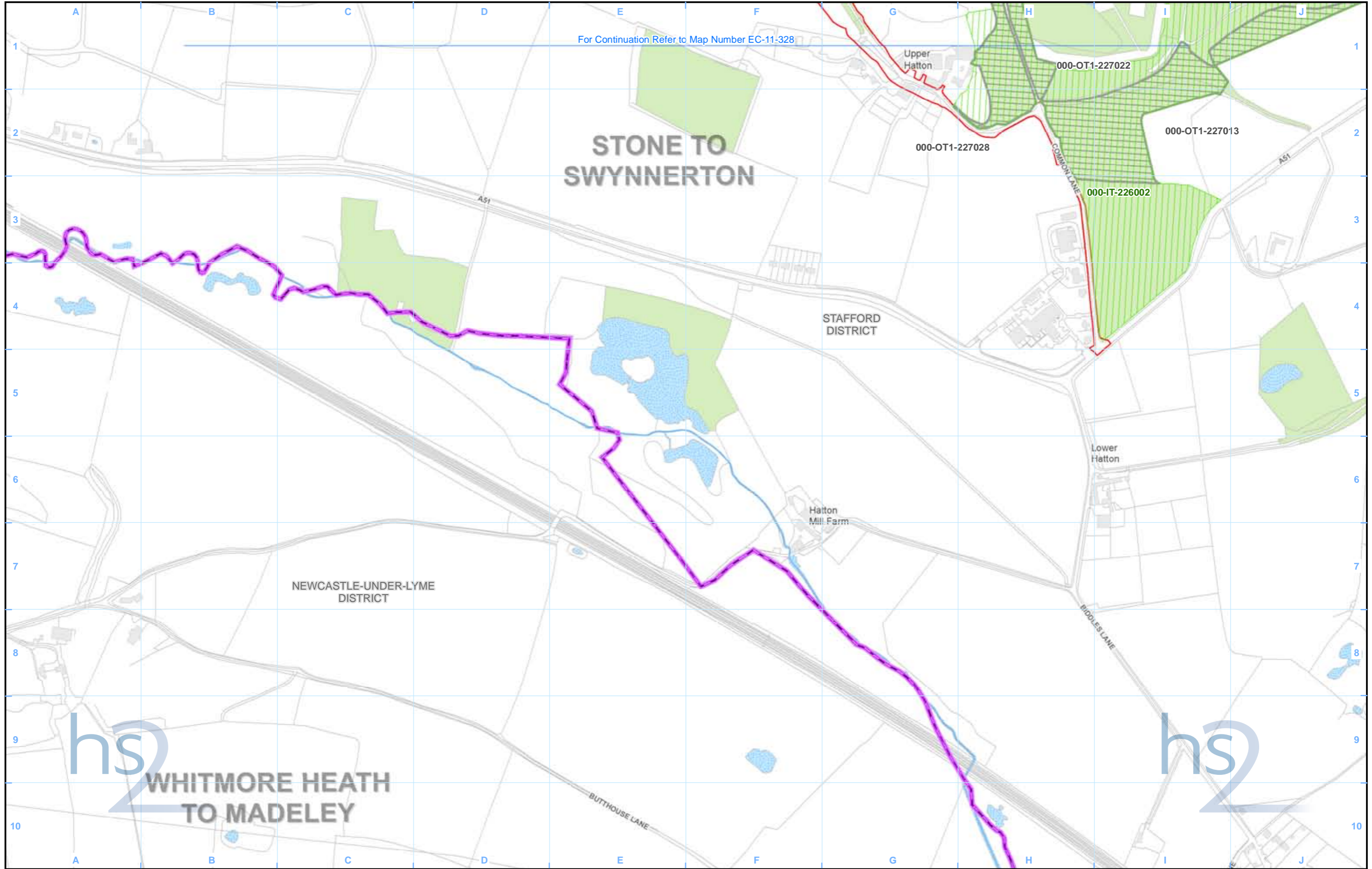
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# STONE TO SWYNNERTON

NEWCASTLE-UNDER-LYME DISTRICT

STAFFORD DISTRICT

# WHITMORE HEATH TO MADELEY



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

- Watercourse
- Water body
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Otter terrestrial habitat

- 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

- Pond survey:**
- Pond survey – national pond survey
  - Pond survey - PSYM
  - Pond survey – rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial invertebrate: Terrestrial invertebrate survey extent

Map Number: EC-11-328a-L1

Map Name: Other Protected and Notable Species (1)

Community Area 3: Stone and Swynnerton

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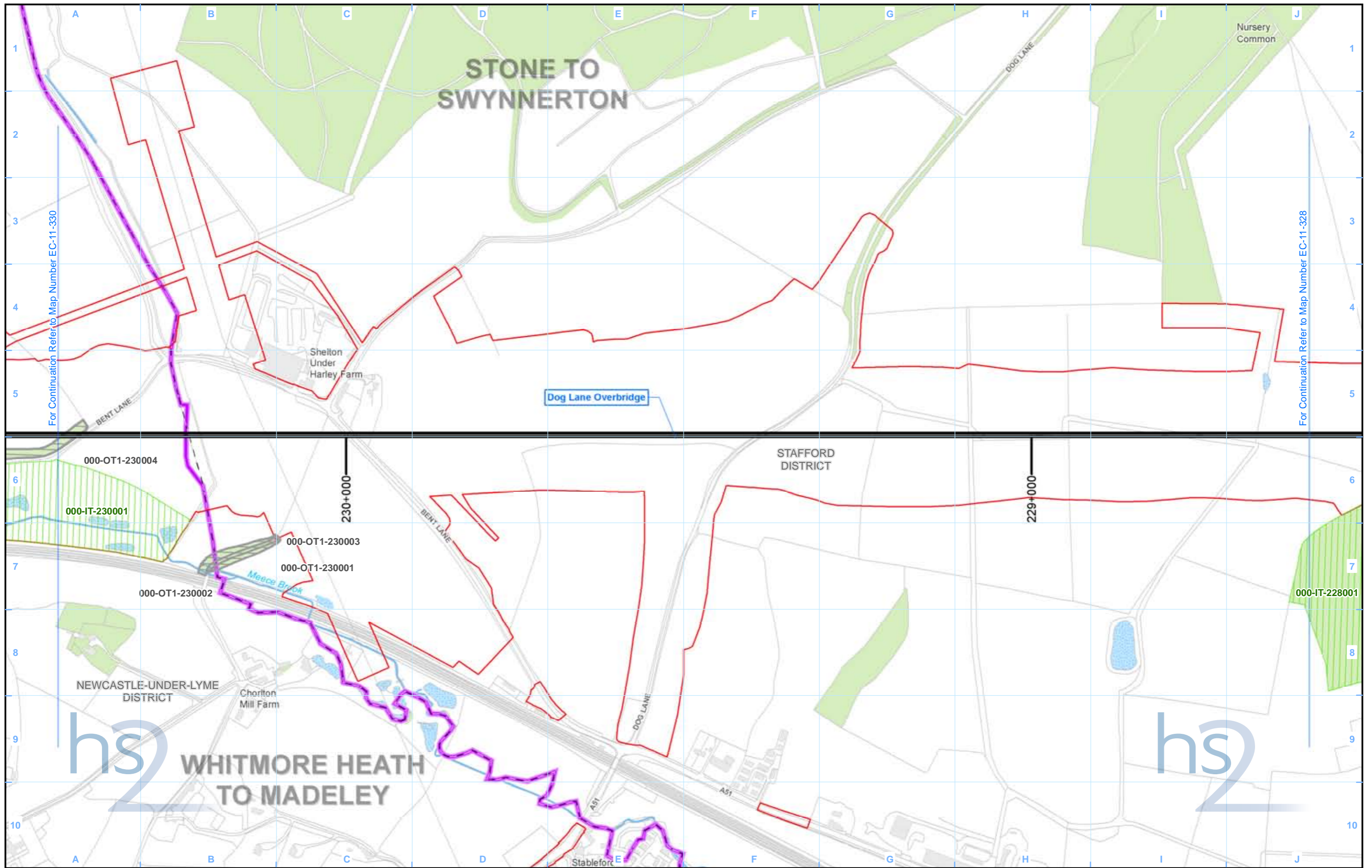
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Date: 14/06/17



| Legend |   | Otter: |                               | White clawed crayfish: |                           | Pond survey: |   | Fish: |                                       |  |   |
|--------|---|--------|-------------------------------|------------------------|---------------------------|--------------|---|-------|---------------------------------------|--|---|
|        | Route in bored tunnel                         |        | Watercourse                   |                        | Active otter holt         |              | Manual search and/or trapping conducted and presence confirmed  |       | Pond survey - national pond survey    |  | Fish survey location                    |
|        | Route on surface                              |        | Water body                    |                        | Potential otter holt      |              | Manual search and/or trapping conducted and assumed absent      |       | Pond survey - PSYM                    |  | Terrestrial invertebrate: survey extent |
|        | Depot, station, headhouse or portal building  |        | Woodland (verified by survey) |                        | 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                     |        |                               |                        |                           |              |   |       |                                       |  |   |

|            |   |
|------------|---|
| Map Number | EC-11-329a                                |
| Map Name   | Other Protected and Notable Species (1)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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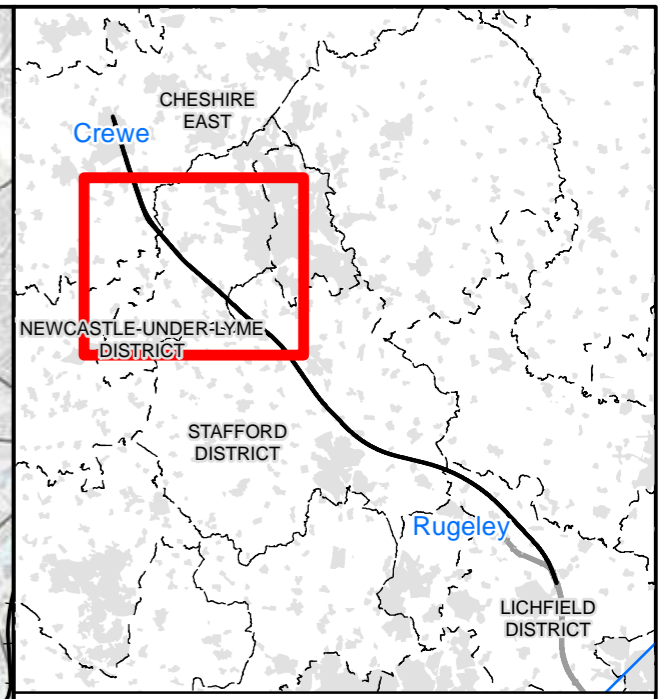
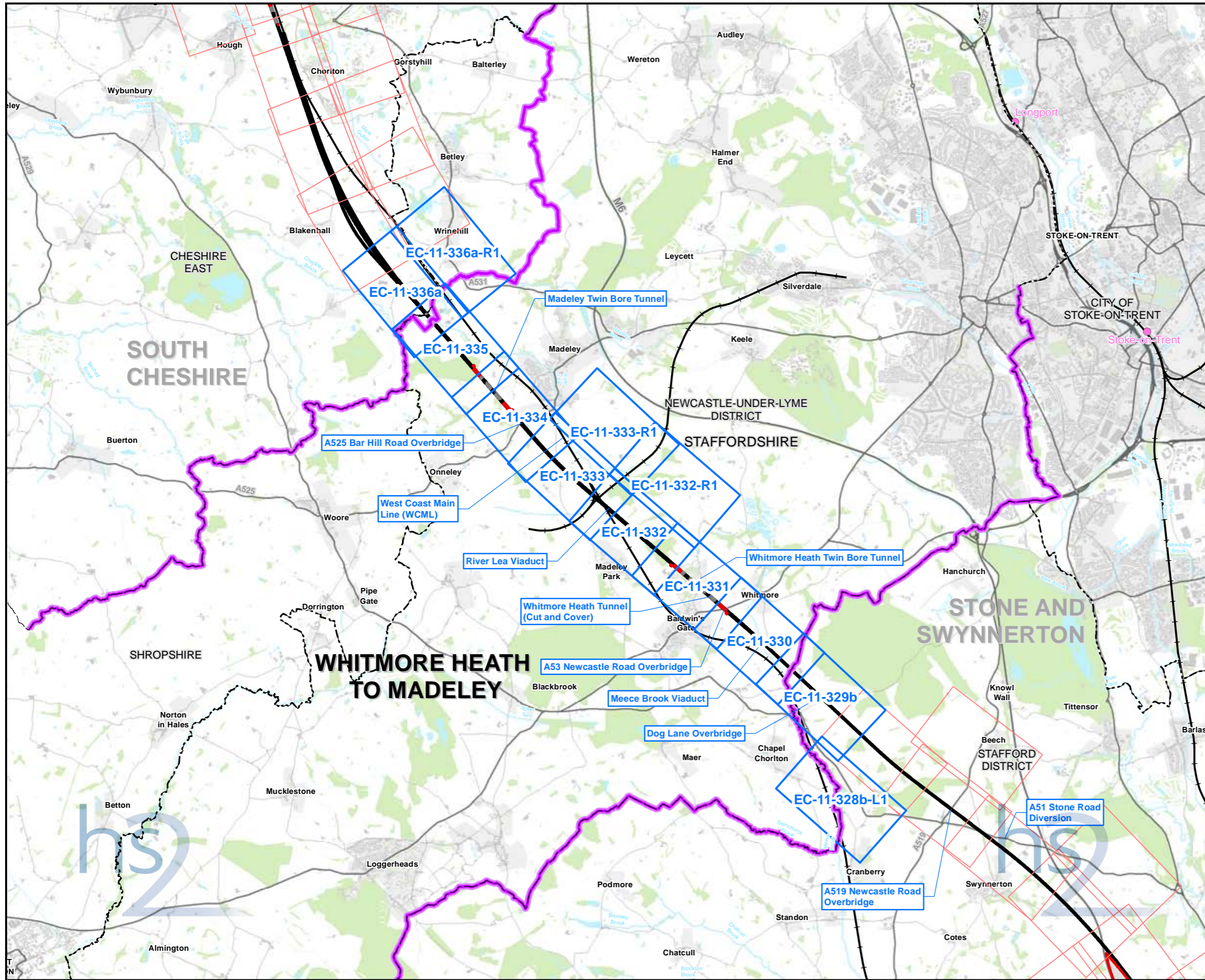
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**Map Series Information:**

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
- Map sheets not included in this community area

Map Number: EC-11-INDEX-CA4

Map Name: Index Map of:  
Other Protected and Notable  
Species (1)

Community Area 4:  
Whitmore Heath to Madeley

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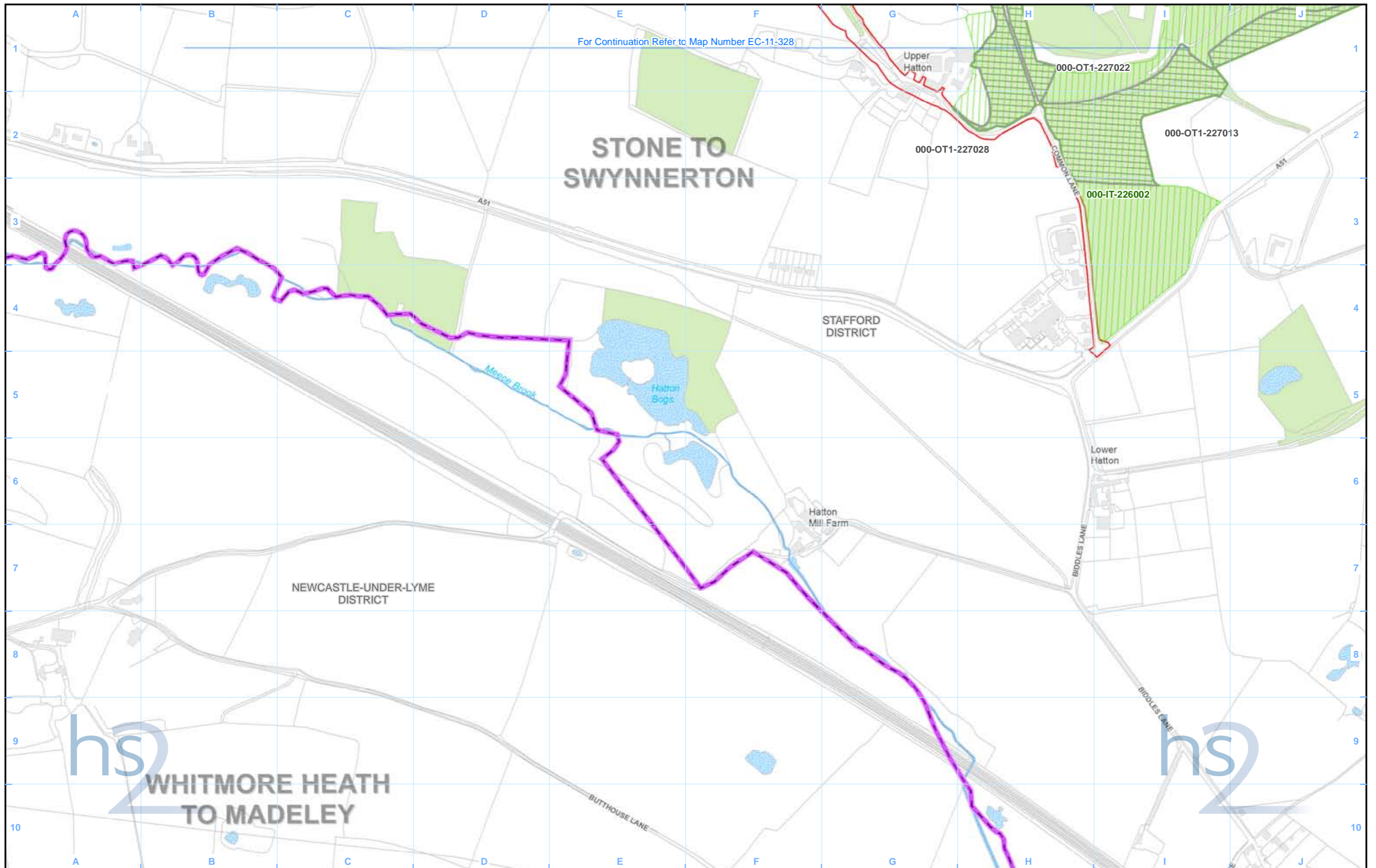
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Date: 14/06/17

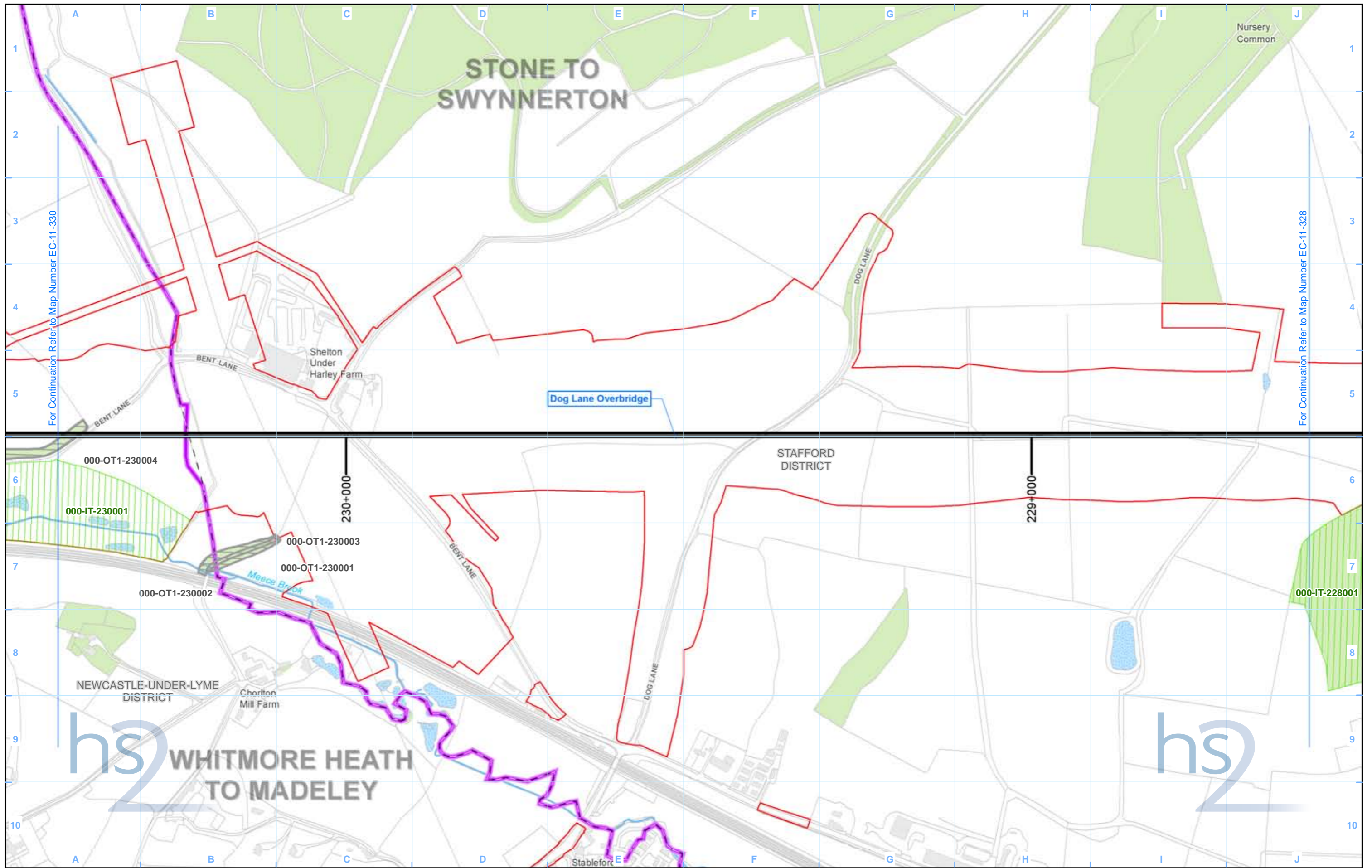


For Continuation Refer to Map Number EC-11-328

# STONE TO SWYNNERTON

# WHITMORE HEATH TO MADELEY

|   |  |  |  |   |  |  |  |  |  |  |  |
|---|--|--|--|---|--|--|--|--|--|--|--|
| <b>Legend</b><br>Route in bored tunnel<br>Route on surface<br>Depot, station, headhouse or portal building<br>Land potentially required during construction<br>Community area boundary<br>District/Borough boundary |  | Watercourse<br>Water body<br>Woodland (verified by survey) |  | <b>Otter:</b><br>Active otter holt<br>Potential otter holt<br>Otter terrestrial habitat |  | <b>White clawed crayfish:</b><br>Manual search and/or trapping conducted and presence confirmed<br>Manual search and/or trapping conducted and assumed absent<br>Site identified as potentially suitable but no access available                               |  | <b>Pond survey:</b><br>Pond survey – national pond survey<br>Pond survey - PSYM<br>Pond survey – rapid assessment method |  | <b>Fish:</b><br>Fish survey location<br><b>Terrestrial invertebrate:</b><br>Terrestrial invertebrate survey extent |  |
| Map Number: EC-11-328b-L1<br>Map Name: Other Protected and Notable Species (1)  |  |  | Community Area 4:<br>Whitmore Heath to Madeley |   |  | Registered in England. Registration number 06791686.<br>Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.<br>© Crown copyright and database rights 2017.<br>Ordnance Survey Licence Number 100049190.<br>Doc Number: C861-ARP-EV-MAP-000-081315-P03 |  |  | Scale at A3: 1:5,000<br>Date: 14/06/17 |  |  |



| Legend  |   |
|---|---|
| Route in bored tunnel                         | Watercourse   |
| Route on surface                              | Water body  |
| Depot, station, headhouse or portal building  | Woodland (verified by survey)                                   |
| Land potentially required during construction |   |
| Community area boundary                       |   |
| District/Borough boundary                     |   |
| <b>Otter:</b>                                 | <b>White clawed crayfish:</b>                                   |
| Active otter holt                             | Manual search and/or trapping conducted and presence confirmed  |
| Potential otter holt                          | Manual search and/or trapping conducted and assumed absent      |
| Otter terrestrial habitat                     | 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-11-329b                                     |
| Map Name   | Other Protected and Notable Species (1)        |
|            | Community Area 4:<br>Whitmore Heath to Madeley |

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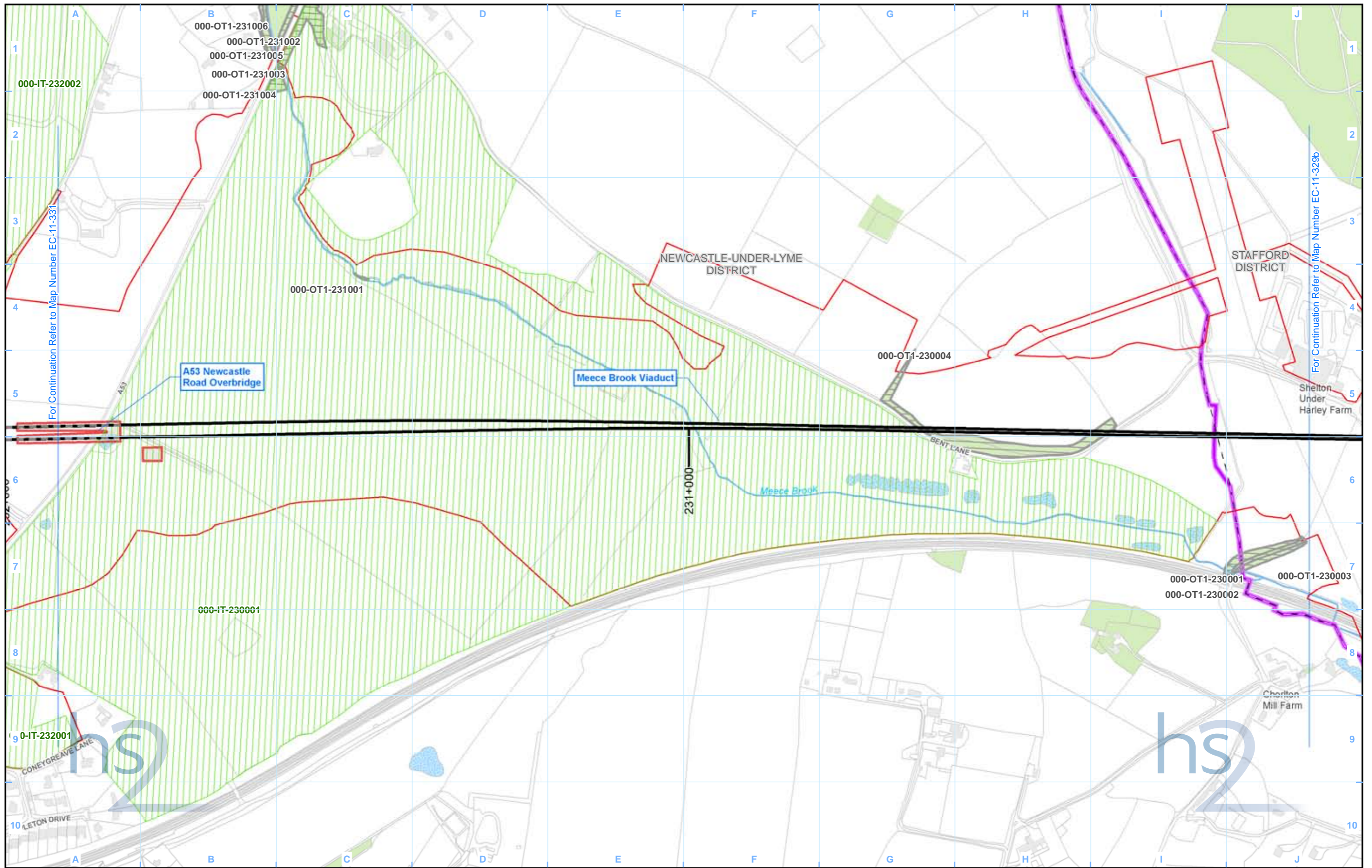
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| Legend |   | Otter: |                               | White clawed crayfish: |                           | Pond survey: |   | Fish: |                                       |  |   |
|--------|---|--------|-------------------------------|------------------------|---------------------------|--------------|---|-------|---------------------------------------|--|---|
|        | Route in bored tunnel                         |        | Watercourse                   |                        | Active otter holt         |              | Manual search and/or trapping conducted and presence confirmed  |       | Pond survey - national pond survey    |  | Fish survey location                    |
|        | Route on surface                              |        | Water body                    |                        | Potential otter holt      |              | Manual search and/or trapping conducted and assumed absent      |       | Pond survey - PSYM                    |  | Terrestrial invertebrate: survey extent |
|        | Depot, station, headhouse or portal building  |        | Woodland (verified by survey) |                        | 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                     |        |                               |                        |                           |              |   |       |                                       |  |   |

|  |   |
|--|---|
| Map Number                                     | EC-11-330                               |
| Map Name                                       | Other Protected and Notable Species (1) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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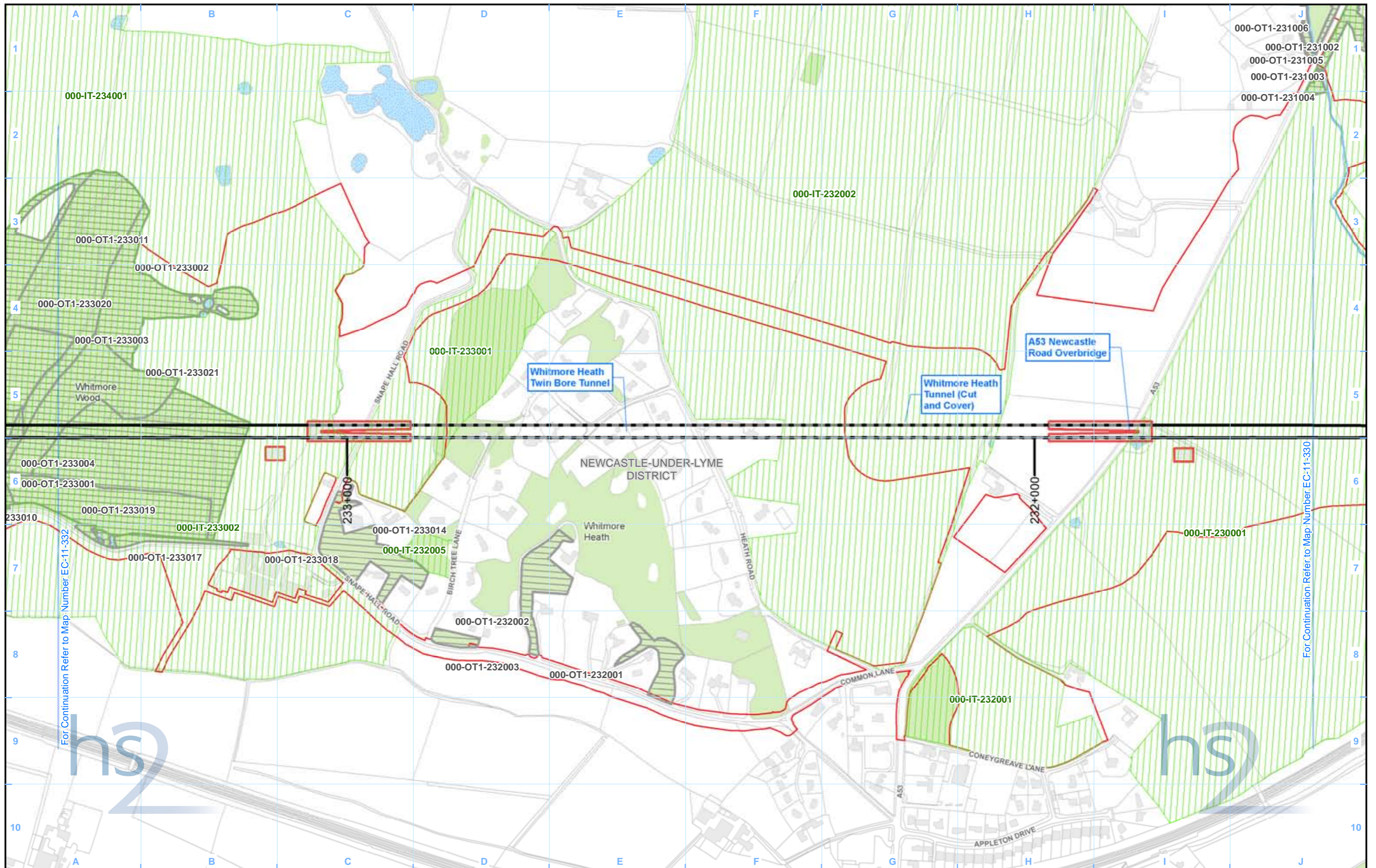
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| Legend  |                               | Otter:                    |   | White clawed crayfish:             |                          | Pond survey:                          |                          | Fish:                                  |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

|  |   |
|--|---|
| Map Number                                     | EC-11-331                               |
| Map Name                                       | Other Protected and Notable Species (1) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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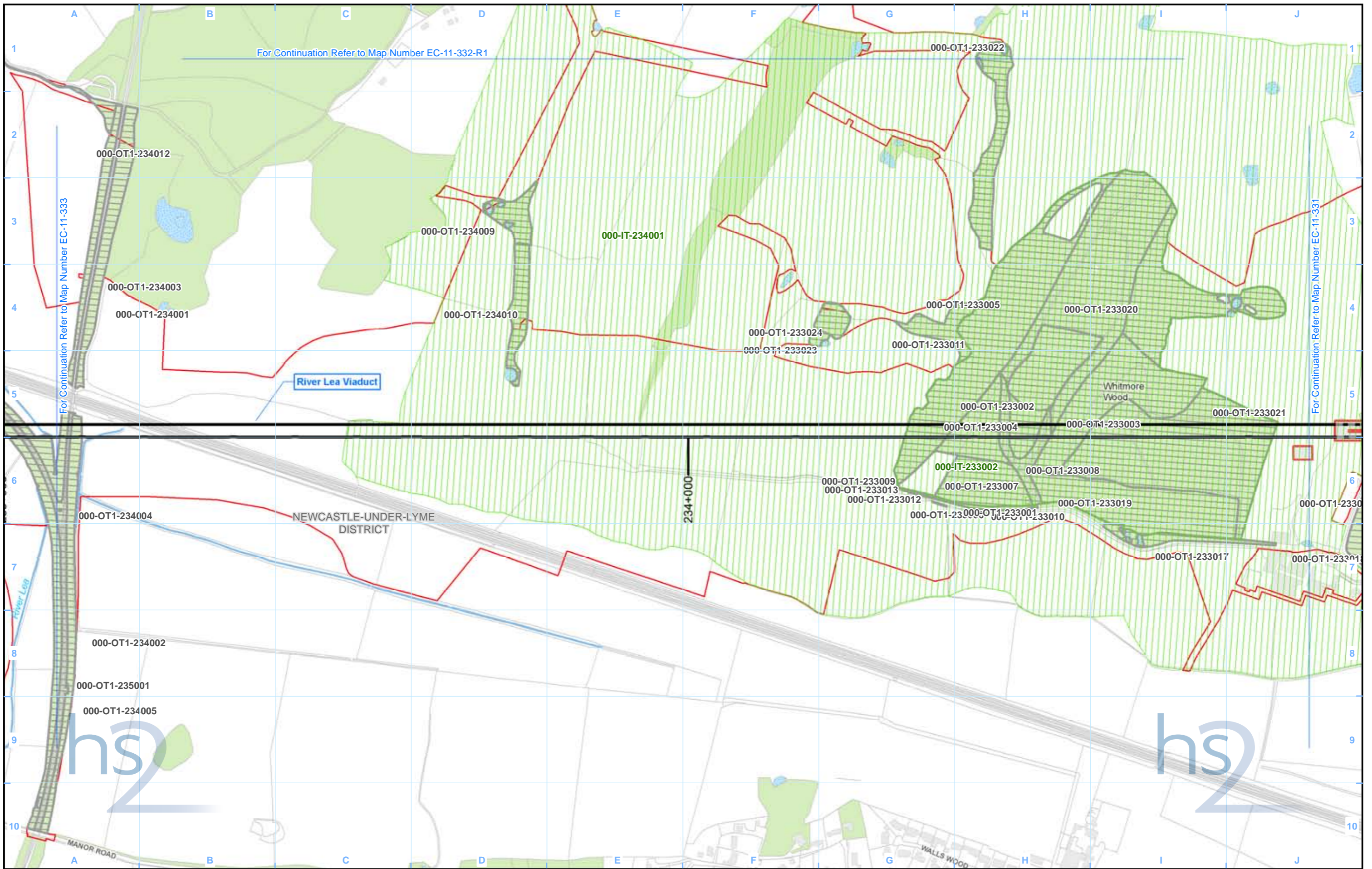
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For Continuation Refer to Map Number EC-11-333

For Continuation Refer to Map Number EC-11-331

River Lea Viaduct

NEWCASTLE-UNDER-LYME DISTRICT

234+000

Whitmore Wood



**Legend**

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

- Watercourse
- Water body
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Otter terrestrial habitat

- 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

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
- Terrestrial invertebrate:**
- Terrestrial invertebrate survey extent

Map Number EC-11-332

Map Name Other Protected and Notable Species (1)

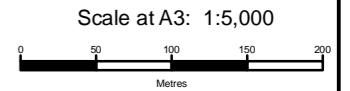
Community Area 4:  
Whitmore Heath to Madeley



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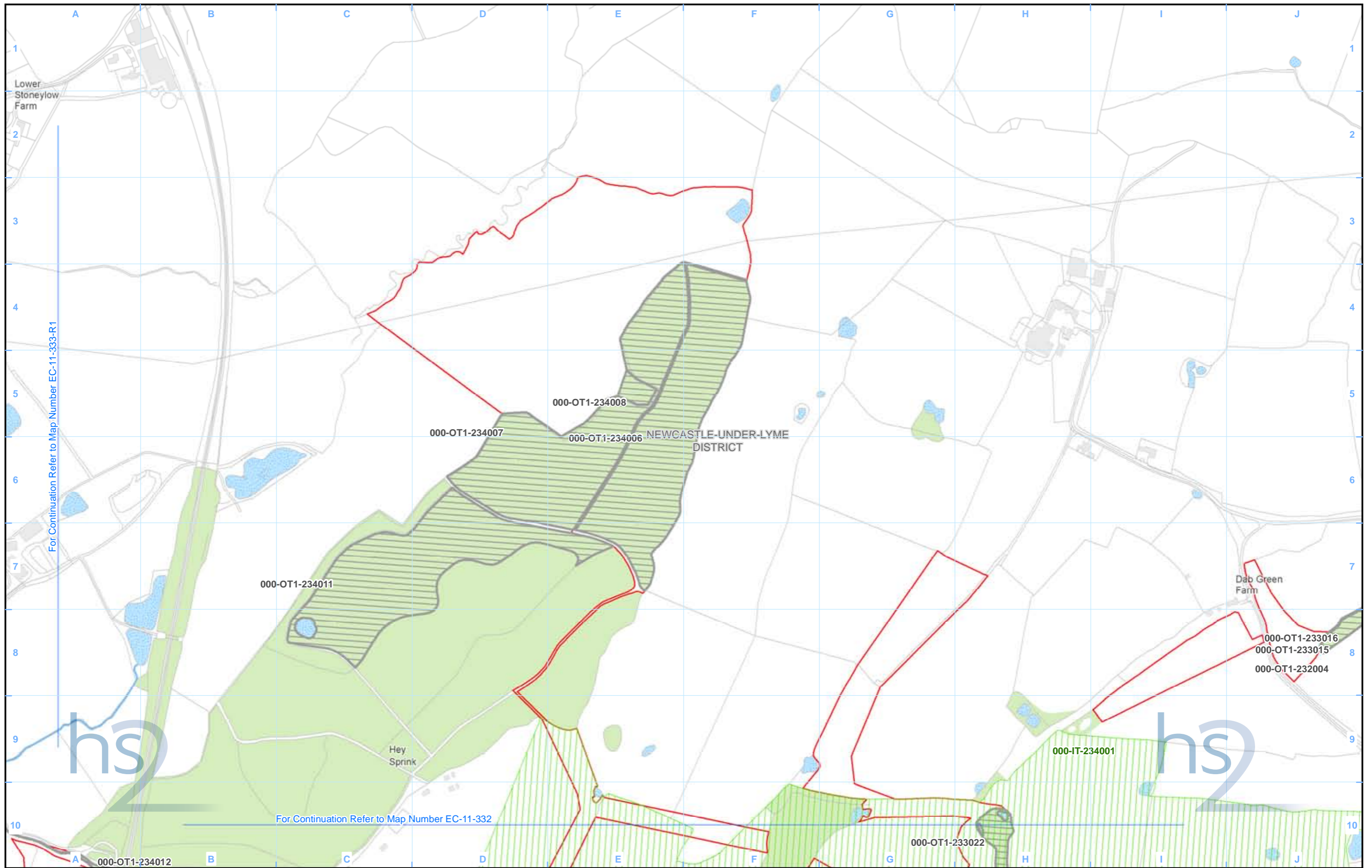
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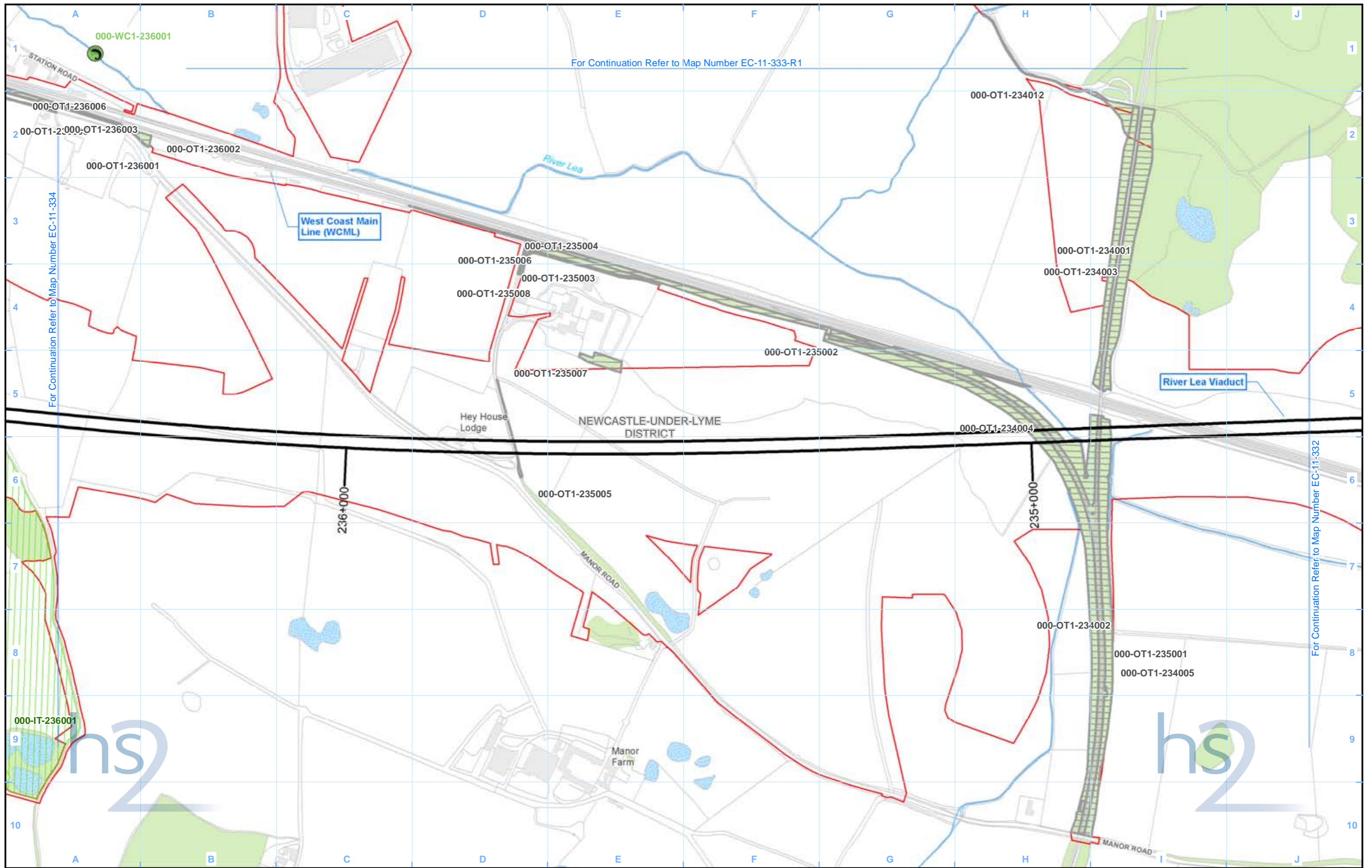
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For Continuation Refer to Map Number EC-11-332

|   |  |   |  |  |  |   |  |   |  |  |  |
|---|--|---|--|--|--|---|--|---|--|--|--|
| <b>Legend</b><br><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 (verified by survey)</li> </ul> |  | <b>Otter:</b><br><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><br><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><br><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><br><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><br><p style="text-align: center;">EC-11-332-R1</p>  |  | <b>Map Name</b><br><p style="text-align: center;">Other Protected and Notable Species (1)</p>                               |  |  |  | <p>Registered in England. Registration number 06791686.<br/> Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p>   |  | <p>Scale at A3: 1:5,000</p>   |  |  |  |
| <p style="text-align: center;">Community Area 4:<br/>Whitmore Heath to Madeley</p>  |  | <p>© Crown copyright and database rights 2017.<br/> Ordnance Survey Licence Number 100049190.</p>                           |  | <p>Doc Number: C861-ARP-EV-MAP-000-081710-P03</p>  |  | <p>Date: 14/06/17</p>   |  |   |  |  |  |



| Legend |   |
|--------|---|
|        | Route in bored tunnel   |
|        | Route on surface  |
|        | Depot, station, headhouse or portal building                    |
|        | Land potentially required during construction                   |
|        | Community area boundary   |
|        | District/Borough boundary                                       |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)                                   |
|        | Active otter holt   |
|        | Potential otter holt  |
|        | Otter terrestrial habitat                                       |
|        | 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 |
|        | Pond survey - national pond survey                              |
|        | Pond survey - PSYM  |
|        | Pond survey - rapid assessment method                           |
|        | Fish survey location  |
|        | Terrestrial invertebrate survey extent                          |

|  |   |
|--|---|
| Map Number                                     | EC-11-333                               |
| Map Name                                       | Other Protected and Notable Species (1) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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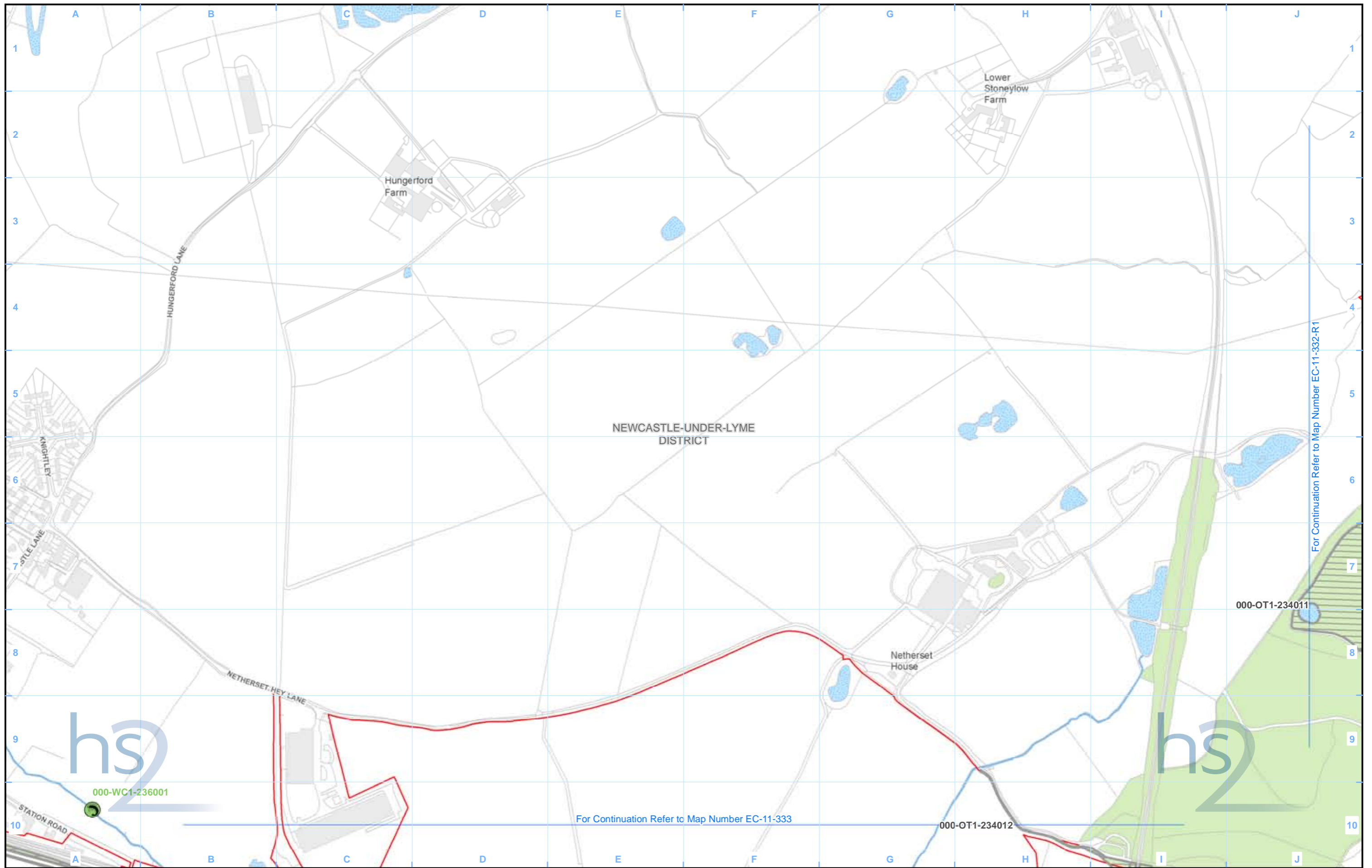
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Doc Number: C861-ARP-EV-MAP-000-081610-P03

Date: 14/06/17



| Legend                           |   |
|----------------------------------|---|
|                                  | Route in bored tunnel   |
|                                  | Route on surface  |
|                                  | Depot, station, headhouse or portal building                    |
|                                  | Land potentially required during construction                   |
|                                  | Community area boundary   |
|                                  | District/Borough boundary                                       |
|                                  | Watercourse   |
|                                  | Water body  |
|                                  | Woodland (verified by survey)                                   |
| <b>Otter:</b>                    |   |
|                                  | 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-R1                            |
| Map Name                                       | Other Protected and Notable Species (1) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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Date: 14/06/17

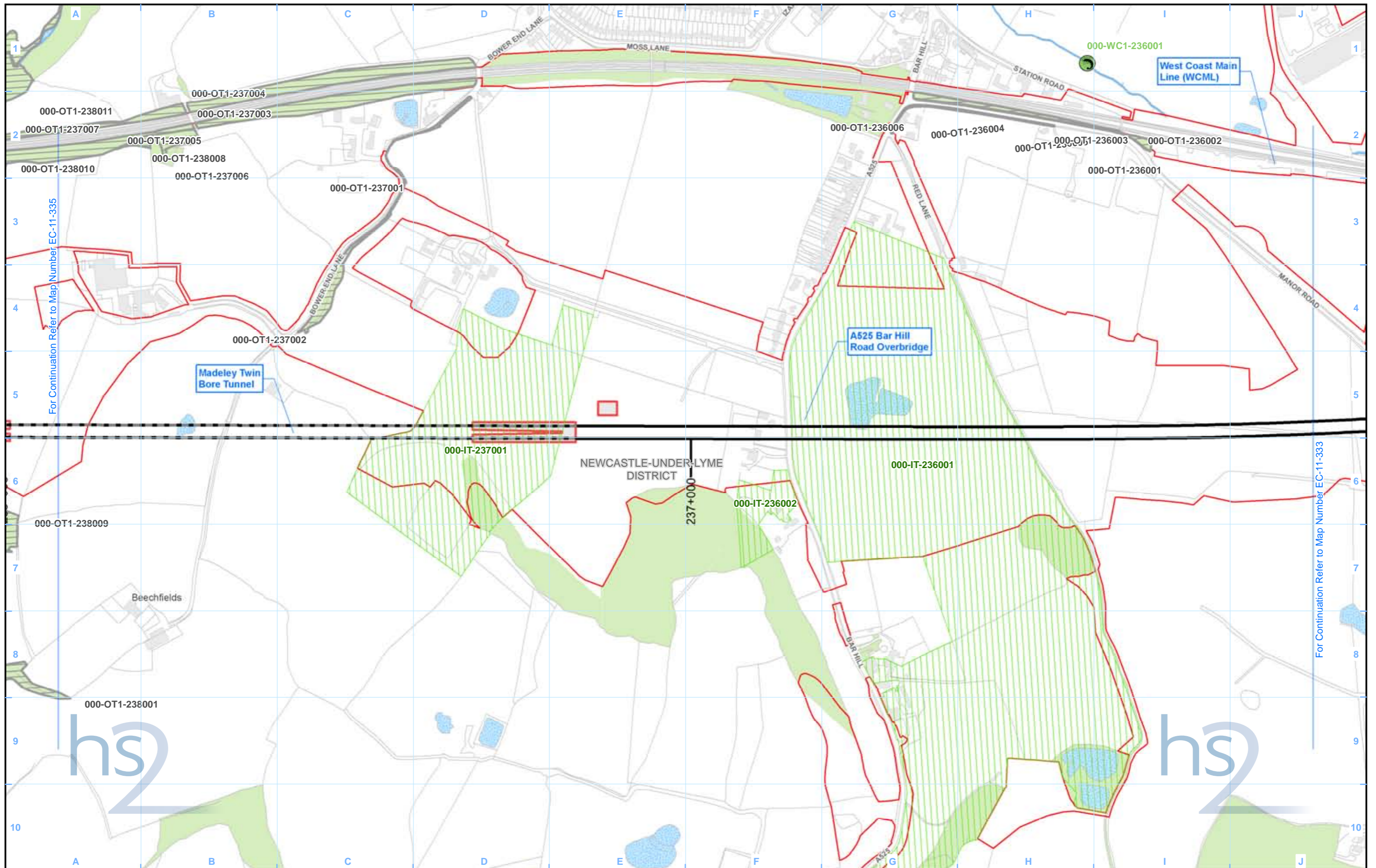
For Continuation Refer to Map Number EC-11-332-R1

For Continuation Refer to Map Number EC-11-333

000-OT1-234012

000-OT1-234011

000-WC1-236001



| Legend |   | Otter: |                               | White clawed crayfish: |                           | Pond survey: |   | Fish: |                                       |  |  |
|--------|---|--------|-------------------------------|------------------------|---------------------------|--------------|---|-------|---------------------------------------|--|--|
|        | Route in bored tunnel                         |        | Watercourse                   |                        | Active otter holt         |              | Manual search and/or trapping conducted and presence confirmed  |       | Pond survey - national pond survey    |  | Fish survey location   |
|        | Route on surface                              |        | Water body                    |                        | 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  |        | Woodland (verified by survey) |                        | 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                     |        |                               |                        |                           |              |   |       |                                       |  |  |

|  |   |
|--|---|
| Map Number                                     | EC-11-334                               |
| Map Name                                       | Other Protected and Notable Species (1) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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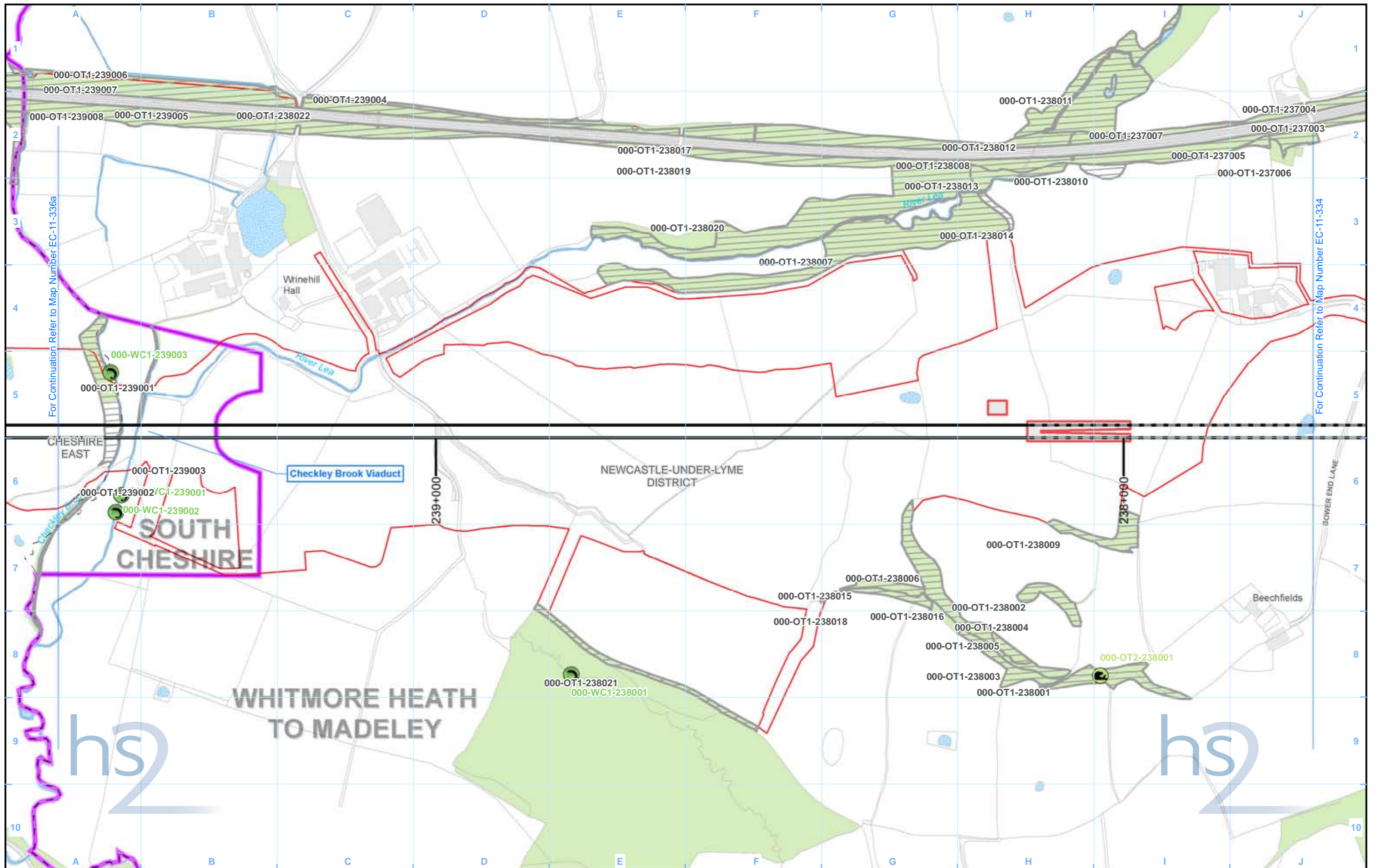
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Scale at A3: 1:5,000

0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-081410-P03 Date: 14/06/17



| Legend |   |
|--------|---|
|        | Route in bored tunnel   |
|        | Route on surface  |
|        | Depot, station, headhouse or portal building  |
|        | Land potentially required during construction   |
|        | Community area boundary   |
|        | District/Borough boundary   |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)   |
|        | Active otter holt   |
|        | Potential otter holt  |
|        | Otter terrestrial habitat   |
|        | 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                       |
|        | Pond survey: Pond survey - national pond survey                                       |
|        | Pond survey - PSYM  |
|        | Pond survey - rapid assessment method   |
|        | Fish: Fish survey location  |
|        | Terrestrial invertebrate: Terrestrial invertebrate survey extent                      |

|  |   |
|--|---|
| Map Number                                     | EC-11-335                               |
| Map Name                                       | Other Protected and Notable Species (1) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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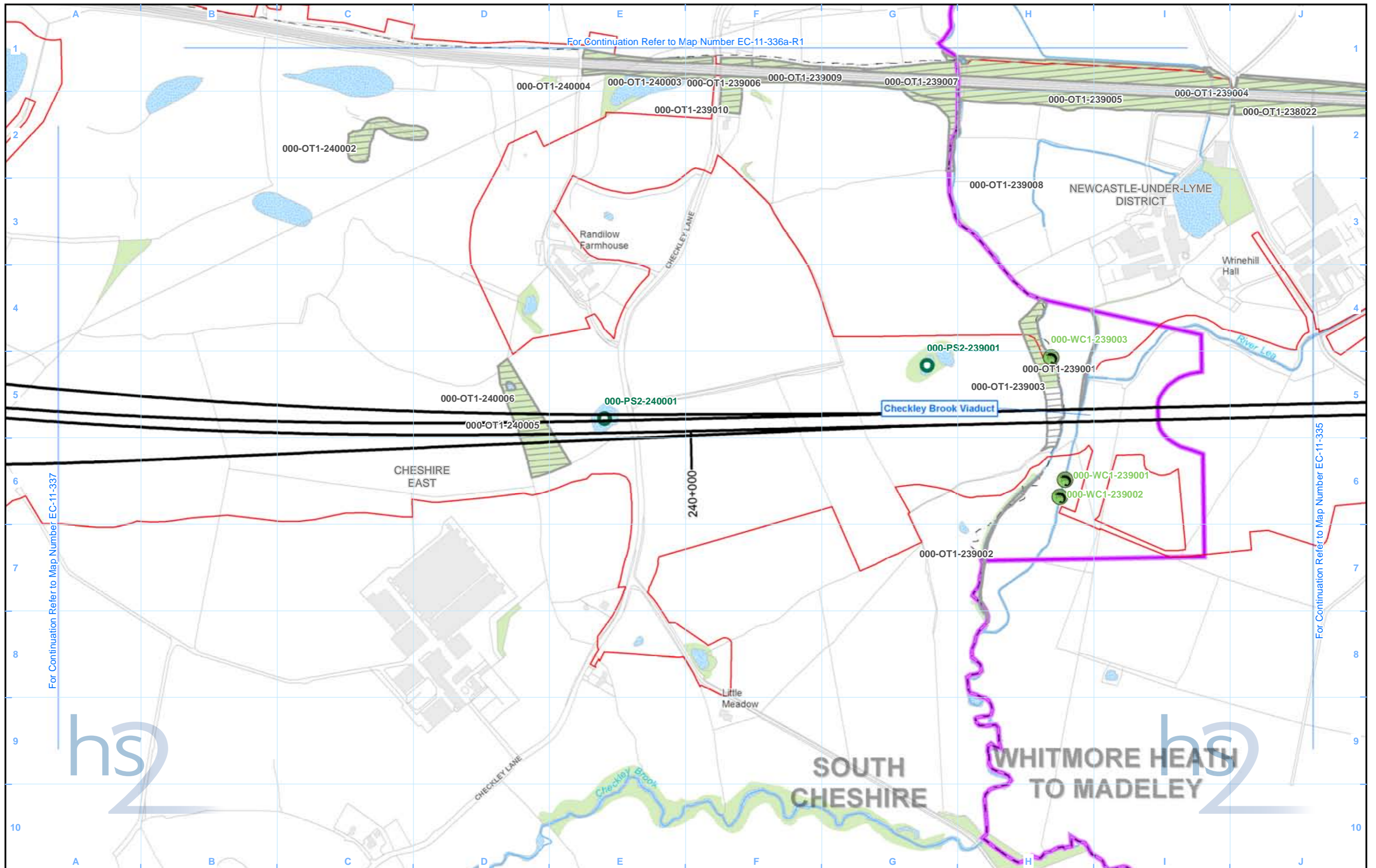
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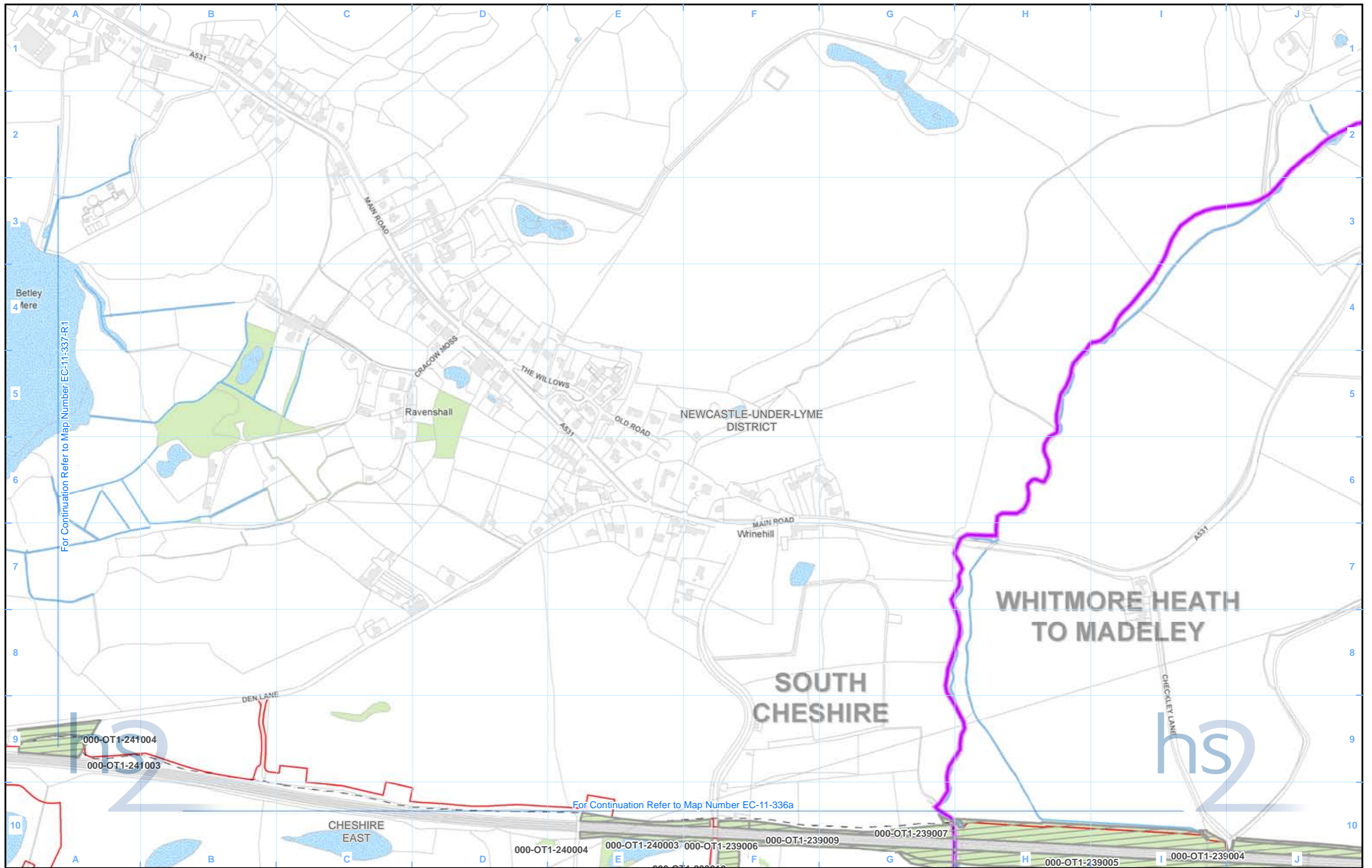
Doc Number: C861-ARP-EV-MAP-000-081310-P03

Date: 14/06/17





|   |  |   |  |  |  |   |  |   |  |  |  |
|---|--|---|--|--|--|---|--|---|--|--|--|
| <b>Legend</b><br><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 (verified by survey)</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>Terrestrial invertebrate: <ul style="list-style-type: none"> <li>Terrestrial invertebrate survey extent</li> </ul> </li> </ul> |  |
| Map Number<br><b>EC-11-336a</b>   |  | <b>hs2</b><br>Registered in England. Registration number 06791686.<br>Registered office: 2 Snowhill, Queensway,<br>Birmingham B4 6GA. |  | <b>Scale at A3: 1:5,000</b><br>0 50 100 150 200<br>Metres  |  |   |  | <b>Doc Number: C861-ARP-EV-MAP-000-081409-P03</b>   |  | <b>Date: 14/06/17</b>  |  |
| Map Name<br><b>Other Protected and Notable Species (1)</b>  |  | Community Area 4:<br>Whitmore Heath to Madeley  |  | <b>hs2</b><br>Registered in England. Registration number 06791686.<br>Registered office: 2 Snowhill, Queensway,<br>Birmingham B4 6GA.              |  | <b>Scale at A3: 1:5,000</b><br>0 50 100 150 200<br>Metres   |  |   |  | <b>Doc Number: C861-ARP-EV-MAP-000-081409-P03</b>  |  |



For Continuation Refer to Map Number EC-11-337-R1

For Continuation Refer to Map Number EC-11-336a

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

- Watercourse
- Water body
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Otter terrestrial habitat

- 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

- Pond survey:**
- Pond survey – national pond survey
  - Pond survey - PSYM
  - Pond survey – rapid assessment method

- Fish:**
- Fish survey location
- Terrestrial invertebrate:**
- Terrestrial invertebrate survey extent

|  |   |
|--|---|
| Map Number                                     | EC-11-336a-R1                           |
| Map Name                                       | Other Protected and Notable Species (1) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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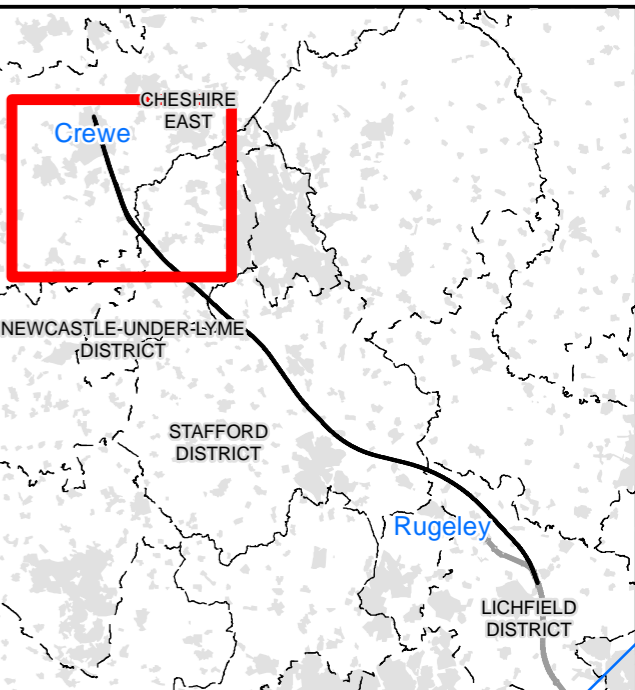
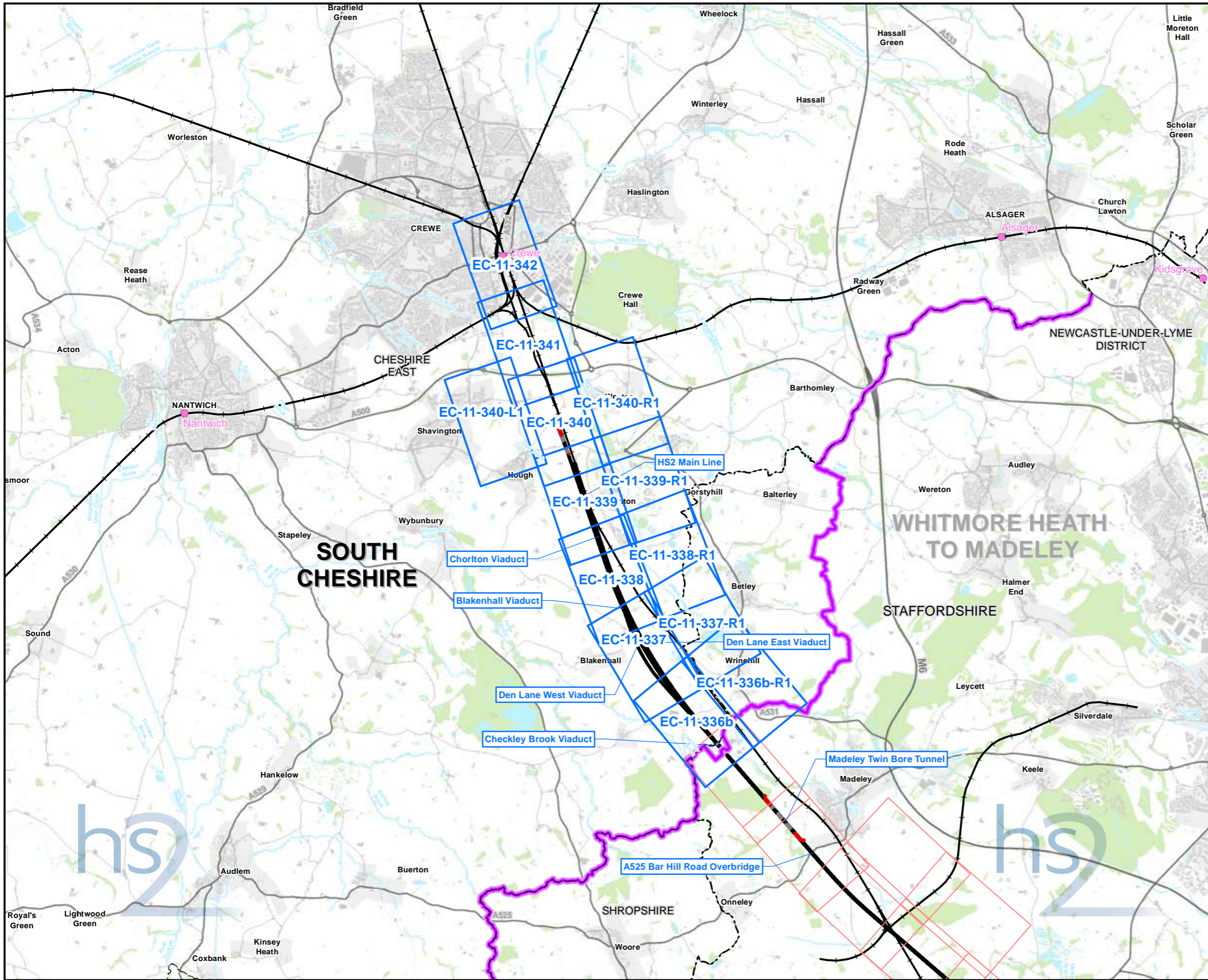
Scale at A3: 1:5,000

Metres

**Date:** 14/06/17

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**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
- 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)

Community Area 5: South Cheshire

hs2 logo

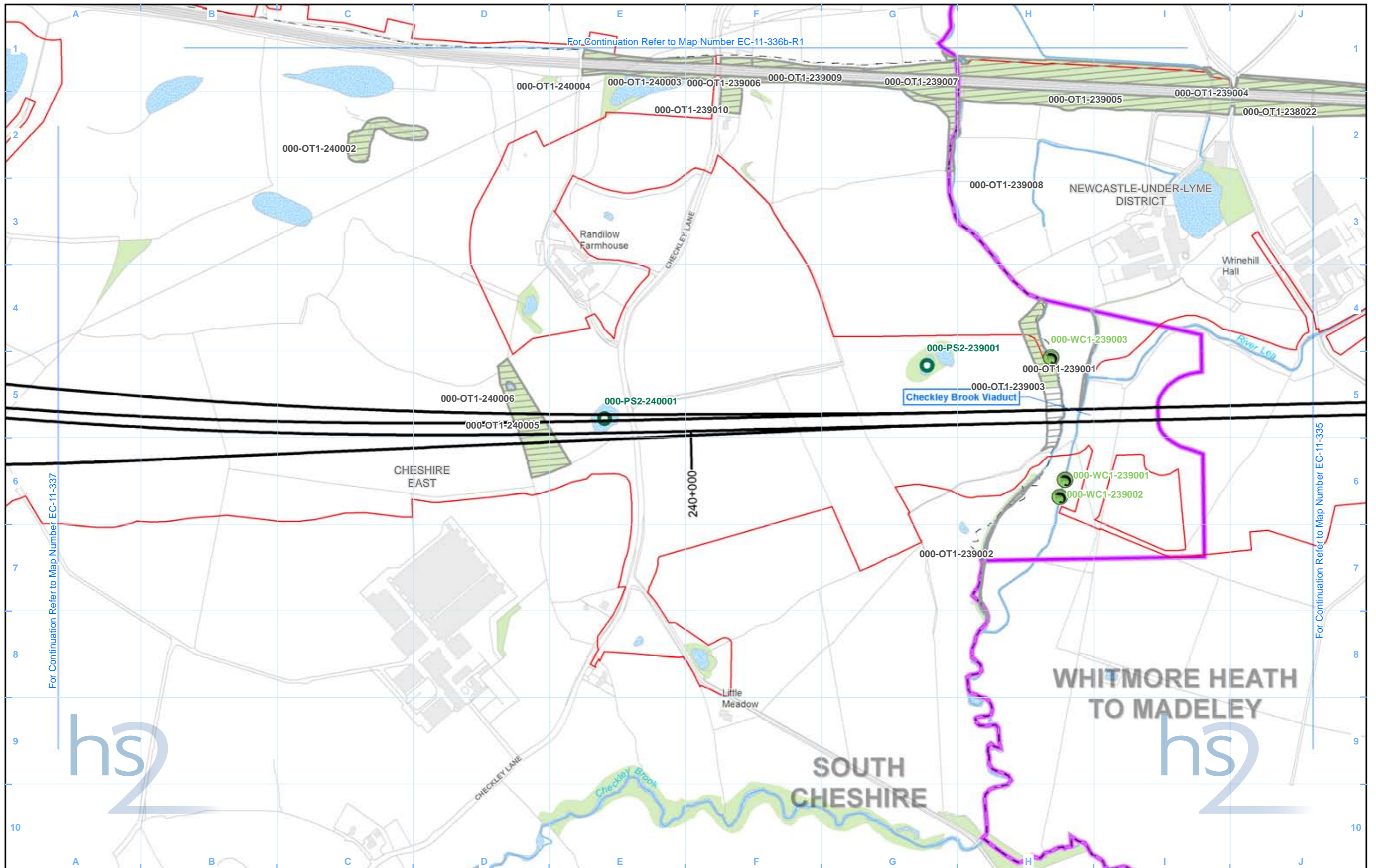
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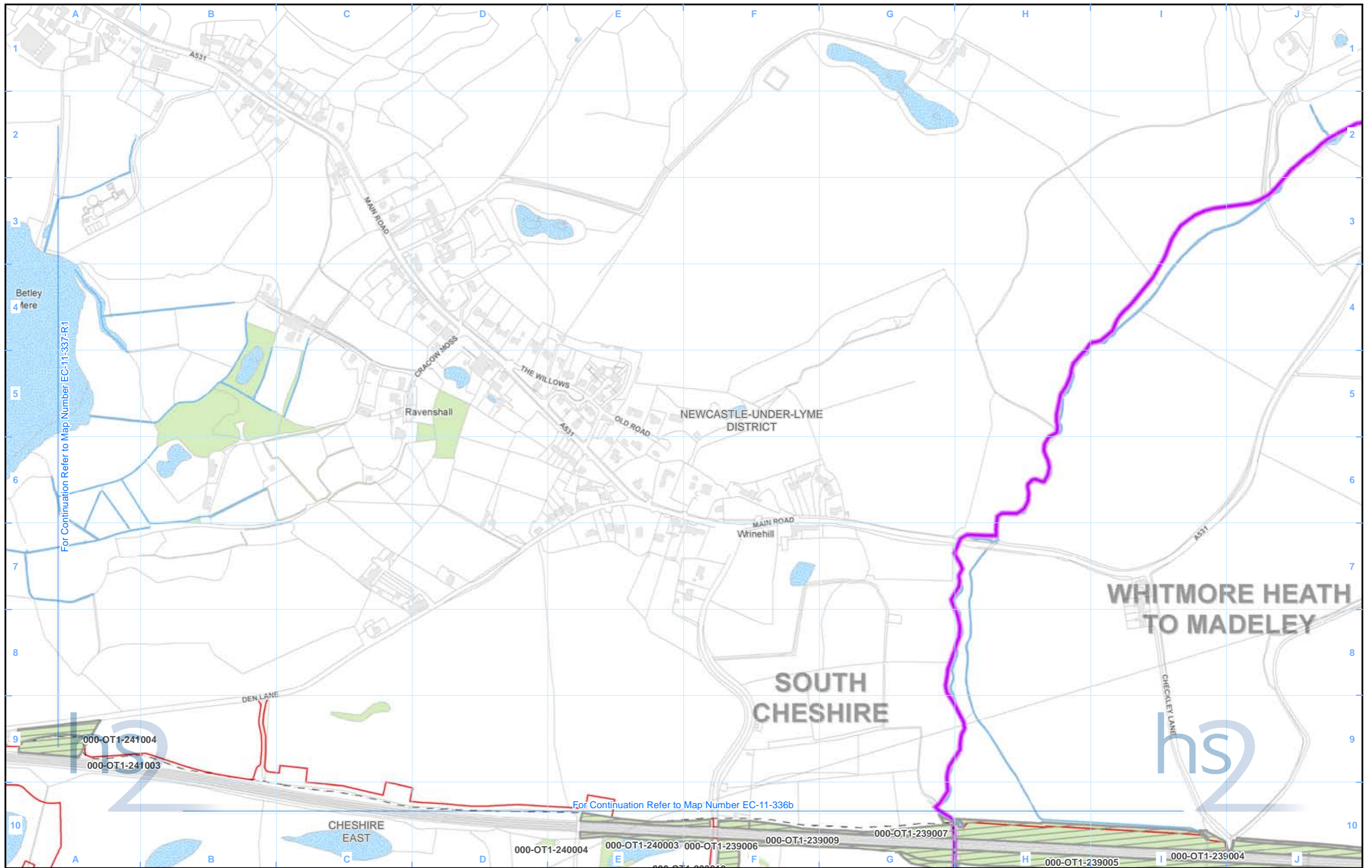
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Doc Number: C861-ARP-EV-MAP-000-081005-P03

Date: 14/06/17



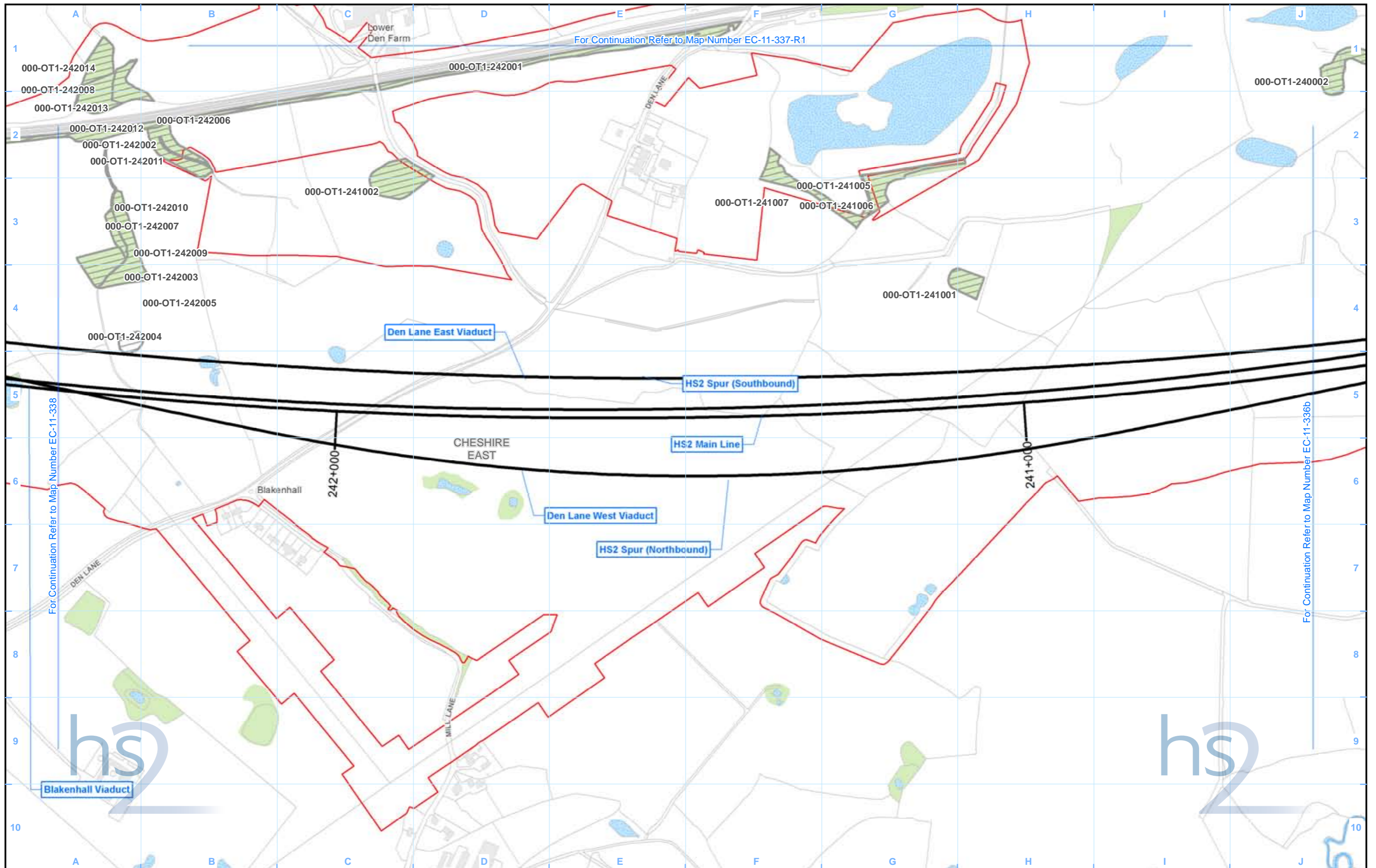
|   |  |  |  |  |  |  |  |  |  |   |  |
|---|--|--|--|--|--|--|--|--|--|---|--|
| <b>Legend</b><br><ul style="list-style-type: none"> <li>Route in bored tunnel</li> <li>Route on surface</li> <li>Depot, station, headhouse or portal building</li> <li>Land potentially required during construction</li> <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 (verified by survey)</li> </ul>         |  | <b>Otter:</b><br><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><br><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><br><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><br><ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial invertebrate: survey extent</li> </ul> |  |
| <b>Map Number</b><br>EC-11-336b   |  |  |  | <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> |  |  |  |  |  |   |  |
| <b>Map Name</b><br>Other Protected and Notable Species (1)  |  | <small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small> |  | <b>Scale at A3: 1:5,000</b><br>  |  | <small>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</small>   |  |  |  |   |  |
| <b>Community Area 5:</b><br>South Cheshire  |  | <small>Doc Number: C861-ARP-EV-MAP-000-081608-P03</small>  |  | <small>Date: 14/06/17</small>  |  |  |  |  |  |   |  |



For Continuation Refer to Map Number EC-11-337-R1

For Continuation Refer to Map Number EC-11-336b

|   |  |   |  |  |  |   |  |  |  |  |  |
|---|--|---|--|--|--|---|--|--|--|--|--|
| <b>Legend</b><br><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 (verified by survey)</li> </ul> |  | <b>Otter:</b><br><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><br><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><br><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><br><ul style="list-style-type: none"> <li> Fish survey location</li> <li> Terrestrial invertebrate: Terrestrial invertebrate survey extent</li> </ul> |  |
| <b>Map Number</b><br>EC-11-336b-R1  |  |   |  | <small>Registered in England. Registration number 06791686.<br/>Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>                     |  | <small>Scale at A3: 1:5,000</small><br>   |  | <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> |  |  |  |
| <b>Map Name</b><br>Other Protected and Notable Species (1)  |  | <small>© Crown copyright and database rights 2017.<br/>Ordnance Survey Licence Number 100049190.</small>                    |  | <small>Doc Number: C861-ARP-EV-MAP-000-081508-P03</small>  |  | <small>Date: 14/06/17</small>   |  |  |  |  |  |



| Legend |   |
|--------|---|
|        | Route in bored tunnel   |
|        | Route on surface  |
|        | Depot, station, headhouse or portal building                    |
|        | Land potentially required during construction                   |
|        | Community area boundary   |
|        | District/Borough boundary                                       |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)                                   |
|        | Active otter holt   |
|        | Potential otter holt  |
|        | Otter terrestrial habitat                                       |
|        | 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 |
|        | Pond survey - national pond survey                              |
|        | Pond survey - PSYM  |
|        | Pond survey - rapid assessment method                           |
|        | Fish survey location  |
|        | Terrestrial invertebrate survey extent                          |

|                                     |   |
|-------------------------------------|---|
| Map Number                          | EC-11-337                               |
| Map Name                            | Other Protected and Notable Species (1) |
| Community Area 5:<br>South Cheshire |   |

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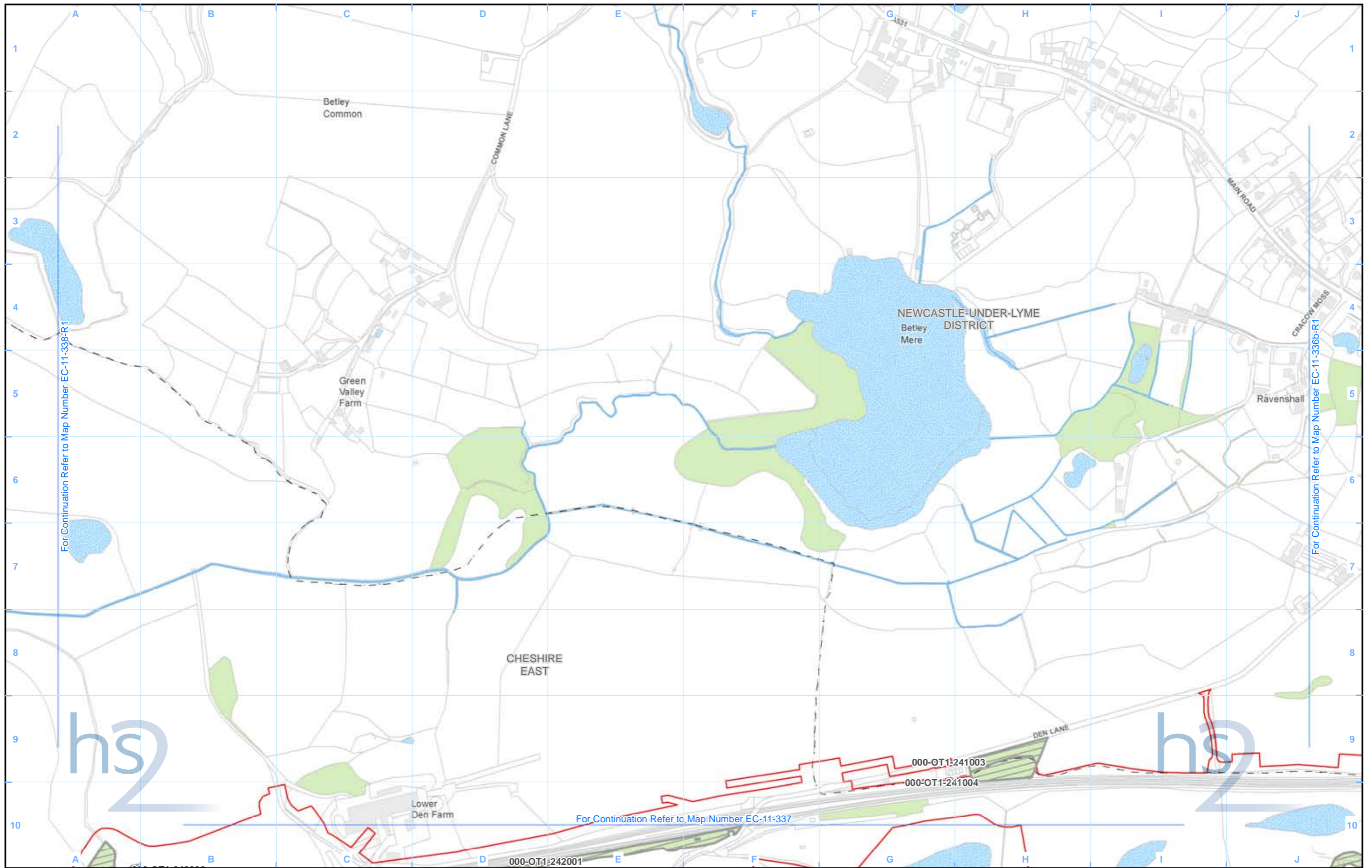
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-081408-P03 Date: 14/06/17



| Legend                           |   |
|----------------------------------|---|
|                                  | Route in bored tunnel   |
|                                  | Route on surface  |
|                                  | Depot, station, headhouse or portal building                    |
|                                  | Land potentially required during construction                   |
|                                  | Community area boundary   |
|                                  | District/Borough boundary                                       |
|                                  | Watercourse   |
|                                  | Water body  |
|                                  | Woodland (verified by survey)                                   |
| <b>Otter:</b>                    |   |
|                                  | 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-11-337-R1                            |
| Map Name   | Other Protected and Notable Species (1) |
|            | Community Area 5:<br>South Cheshire     |

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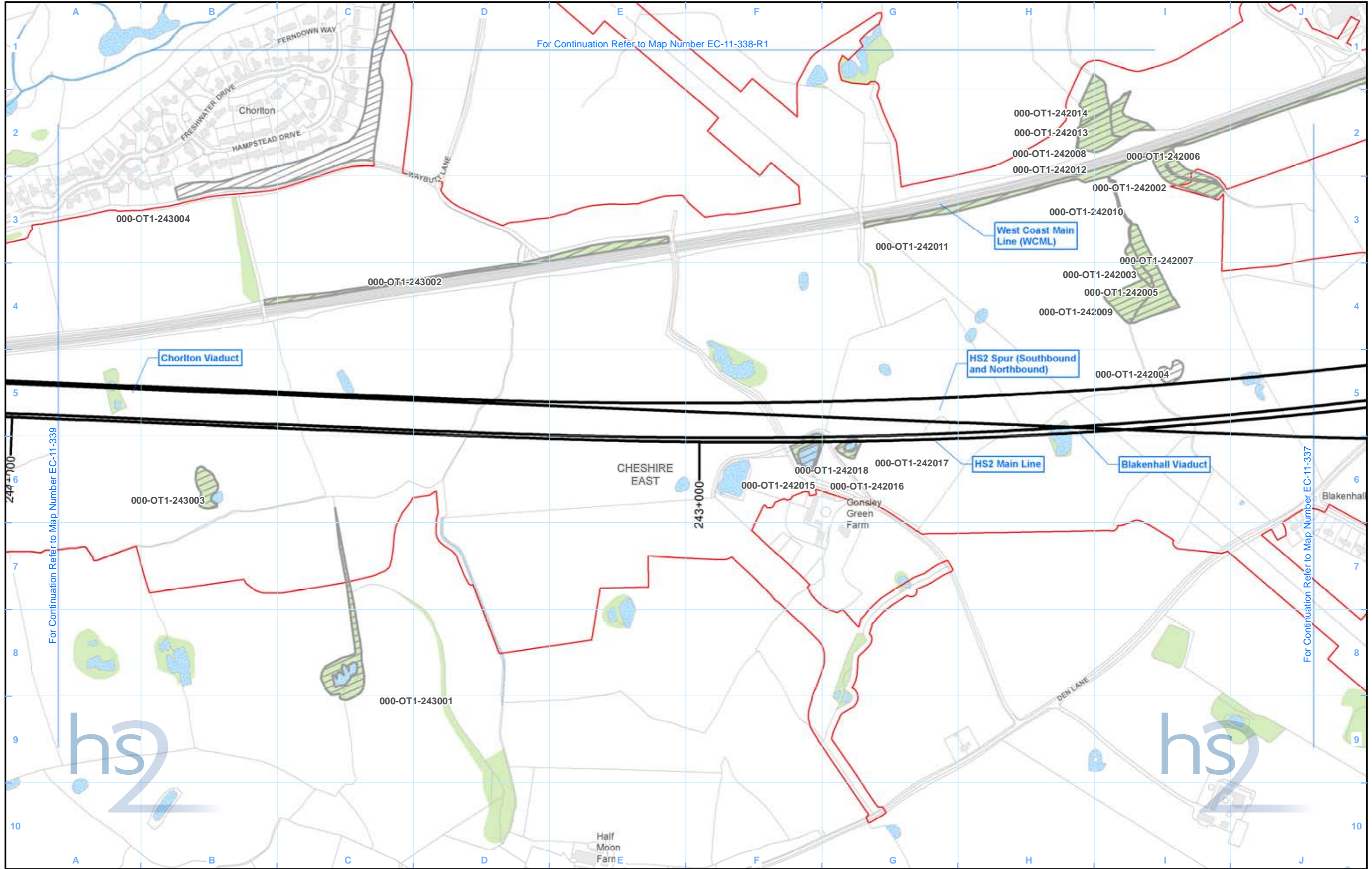
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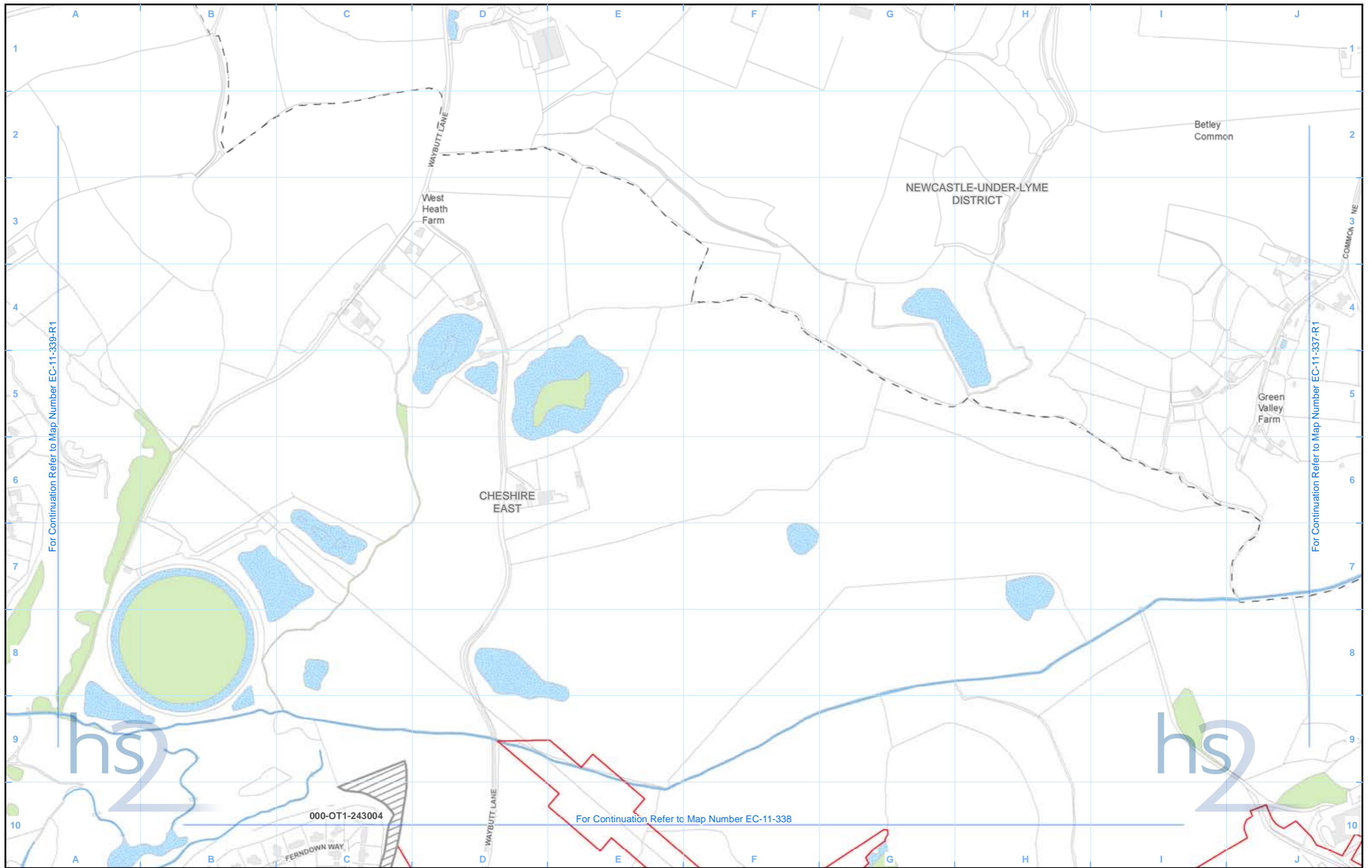
Date: 14/06/17



For Continuation Refer to Map Number EC-11-338-R1



|   |  |  |  |   |  |  |  |  |  |   |  |
|---|--|--|--|---|--|--|--|--|--|---|--|
| <b>Legend</b><br><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 (verified by survey)</li> </ul> |  | <b>Otter:</b><br><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><br><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><br><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><br><ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial invertebrate: survey extent</li> </ul> |  |
| Map Number<br><b>EC-11-338</b>  |  | Map Name<br><b>Other Protected and Notable Species (1)</b>   |  | Registered in England. Registration number 06791686.<br>Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.                                  |  | Scale at A3: 1:5,000<br>   |  | © Crown copyright and database rights 2017.<br>Ordnance Survey Licence Number 100049190.   |  | Doc Number: C861-ARP-EV-MAP-000-081307-P03  |  |
| Community Area 5:<br>South Cheshire   |  | Date: 14/06/17   |  | hs2 logo  |  | hs2 logo   |  | hs2 logo   |  | hs2 logo  |  |



| Legend  |   |
|---|---|
| Route in bored tunnel                         | Watercourse   |
| Route on surface                              | Water body  |
| Depot, station, headhouse or portal building  | Woodland (verified by survey)                                   |
| Land potentially required during construction |   |
| Community area boundary                       |   |
| District/Borough boundary                     |   |
| <b>Otter:</b>                                 | <b>White clawed crayfish:</b>                                   |
| Active otter holt                             | Manual search and/or trapping conducted and presence confirmed  |
| Potential otter holt                          | Manual search and/or trapping conducted and assumed absent      |
| Otter terrestrial habitat                     | 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-11-338-R1                            |
| Map Name   | Other Protected and Notable Species (1) |
|            | Community Area 5:<br>South Cheshire     |

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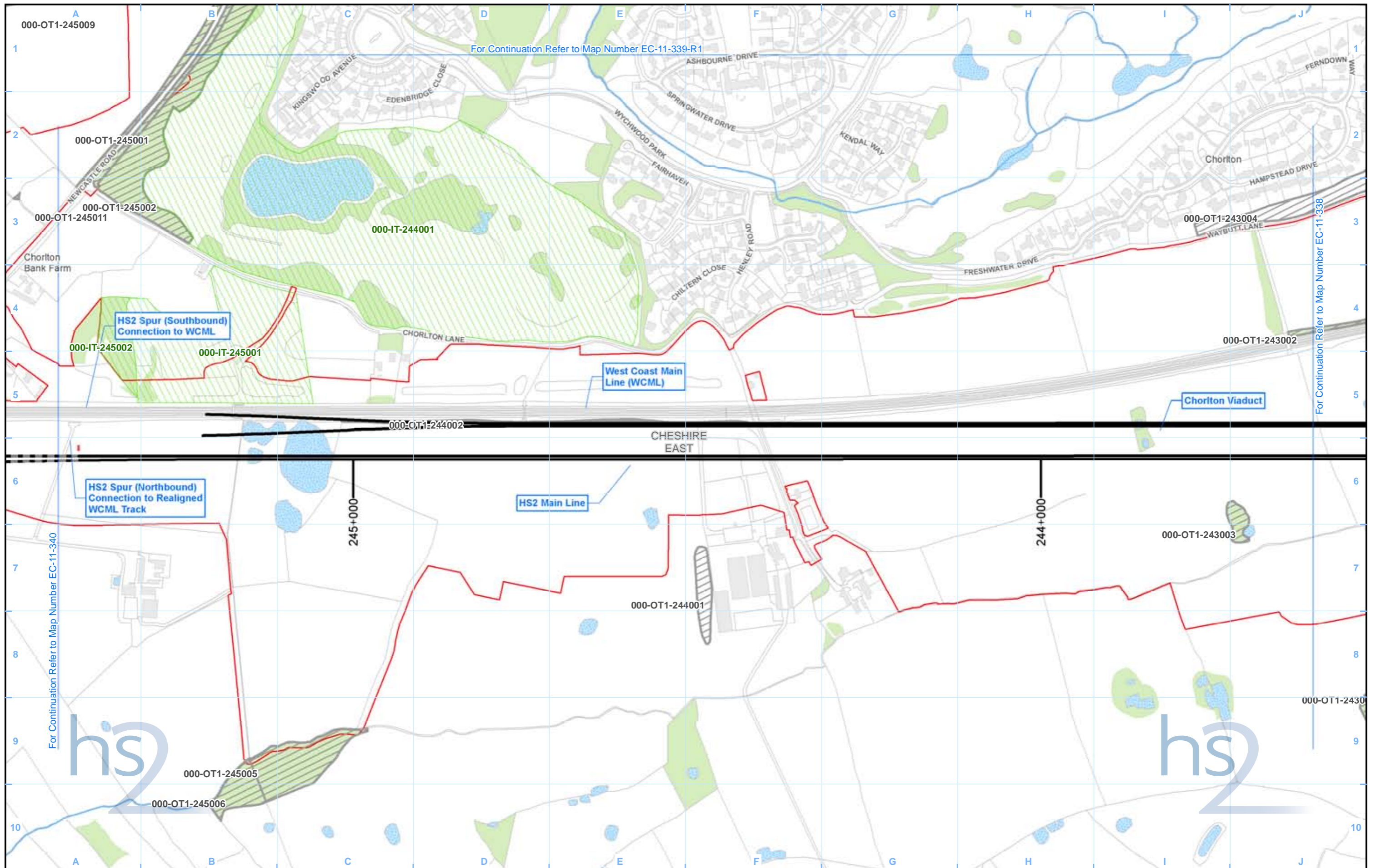
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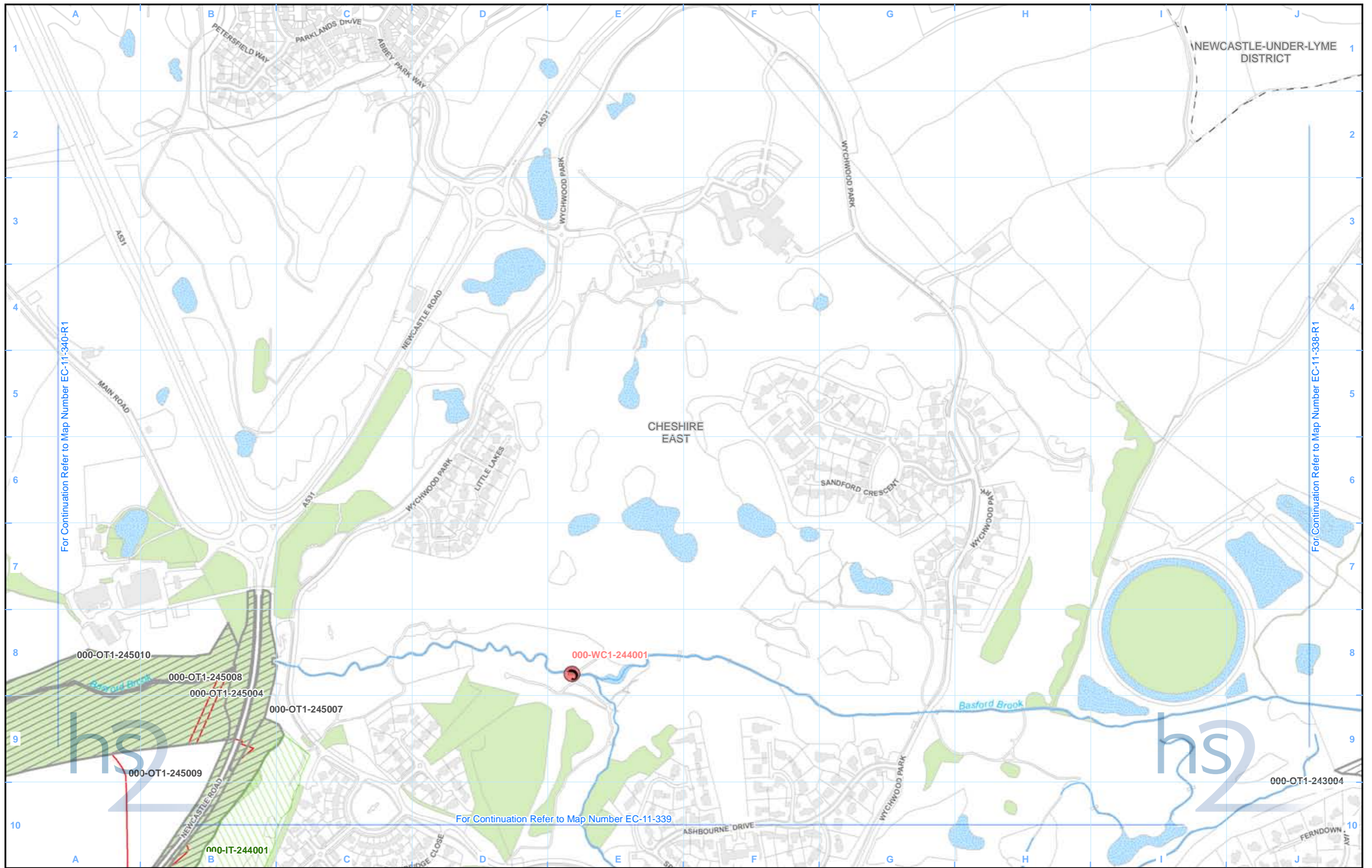
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Date: 14/06/17



|   |  |  |  |   |  |  |  |  |  |  |  |
|---|--|--|--|---|--|--|--|--|--|--|--|
| <b>Legend</b><br><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 (verified by survey)</li> </ul> |  | <b>Otter:</b><br><ul style="list-style-type: none"> <li>Active otterholt</li> <li>Potential otterholt</li> <li>Otter terrestrial habitat</li> </ul> |  | <b>White clawed crayfish:</b><br><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><br><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><br><ul style="list-style-type: none"> <li>Fish survey location</li> <li>Terrestrial invertebrate: Terrestrial invertebrate survey extent</li> </ul> |  |
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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  |
|        | District/Borough boundary  |
|        | Watercourse  |
|        | Water body   |
|        | Woodland (verified by survey)  |
|        | Otter: Active otter holt   |
|        | Potential otter holt   |
|        | Otter terrestrial habitat  |
|        | White clawed crayfish: Manual search and/or trapping conducted and presence confirmed  |
|        | White clawed crayfish: Manual search and/or trapping conducted and assumed absent      |
|        | White clawed crayfish: Site identified as potentially suitable but no access available |
|        | Pond survey: Pond survey - national pond survey  |
|        | Pond survey - PSYM   |
|        | Pond survey - rapid assessment method  |
|        | Fish: Fish survey location   |
|        | Terrestrial invertebrate: Terrestrial invertebrate survey extent                       |

|                                     |   |
|-------------------------------------|---|
| Map Number                          | EC-11-339-R1                            |
| Map Name                            | Other Protected and Notable Species (1) |
| Community Area 5:<br>South Cheshire |   |

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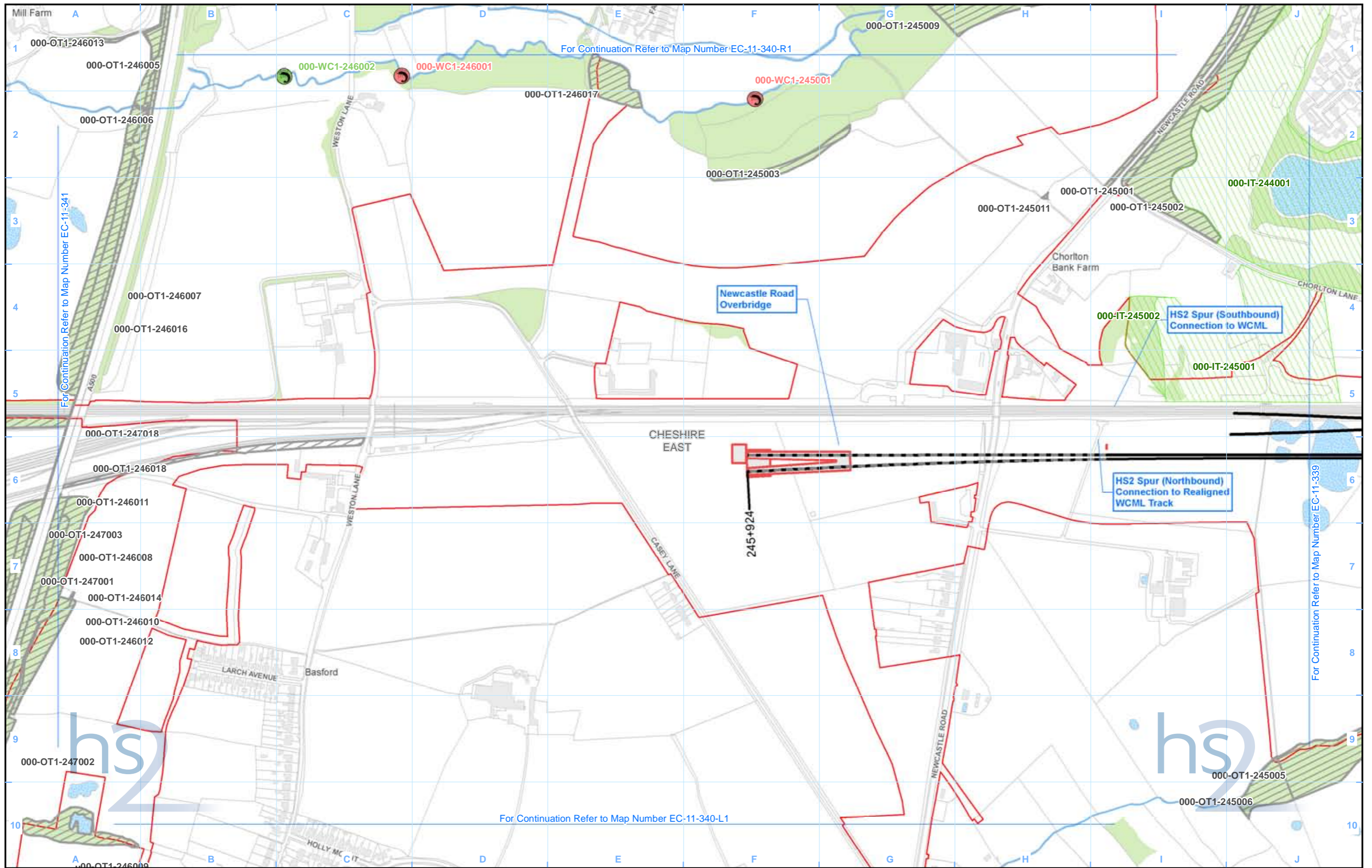
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-081305-P03 Date: 14/06/17



| Legend                           |   |
|----------------------------------|---|
|                                  | Route in bored tunnel   |
|                                  | Route on surface  |
|                                  | Depot, station, headhouse or portal building                    |
|                                  | Land potentially required during construction                   |
|                                  | Community area boundary   |
|                                  | District/Borough boundary                                       |
|                                  | Watercourse   |
|                                  | Water body  |
|                                  | Woodland (verified by survey)                                   |
| <b>Otter:</b>                    |   |
|                                  | 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-11-340                               |
| Map Name   | Other Protected and Notable Species (1) |
|            | Community Area 5:<br>South Cheshire     |

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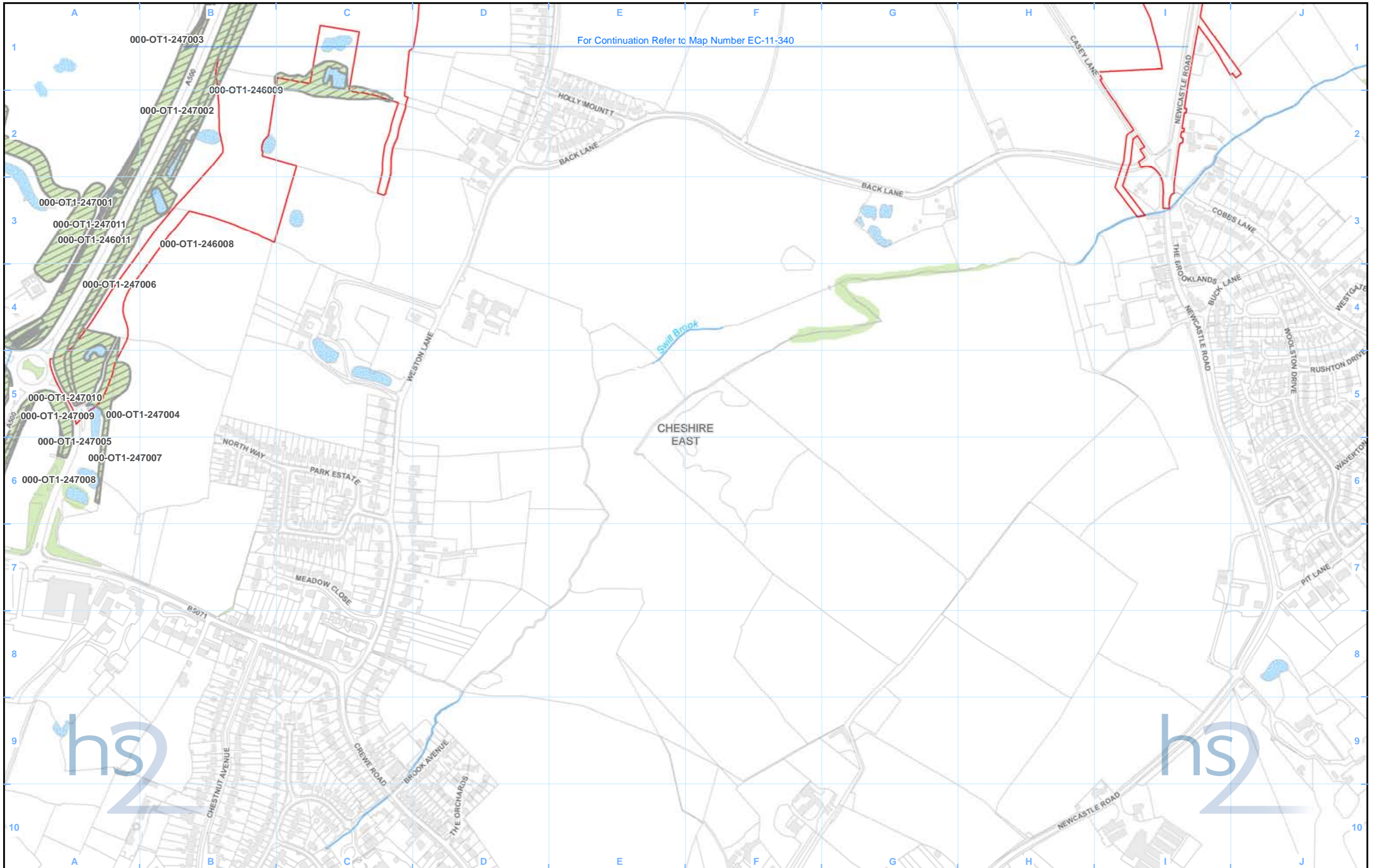
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**Date:** 14/06/17

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For Continuation Refer to Map Number EC-11-340



| Legend |   | Otter: |                           | White clawed crayfish: |   | Pond survey: |                                       | Fish: |  |
|--------|---|--------|---------------------------|------------------------|---|--------------|---------------------------------------|-------|--|
|        | Route in bored 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)                 |        |                           |                        |   |              |                                       |       |  |

|            |   |
|------------|---|
| Map Number | EC-11-340-L1                            |
| Map Name   | Other Protected and Notable Species (1) |
|            | Community Area 5:<br>South Cheshire     |

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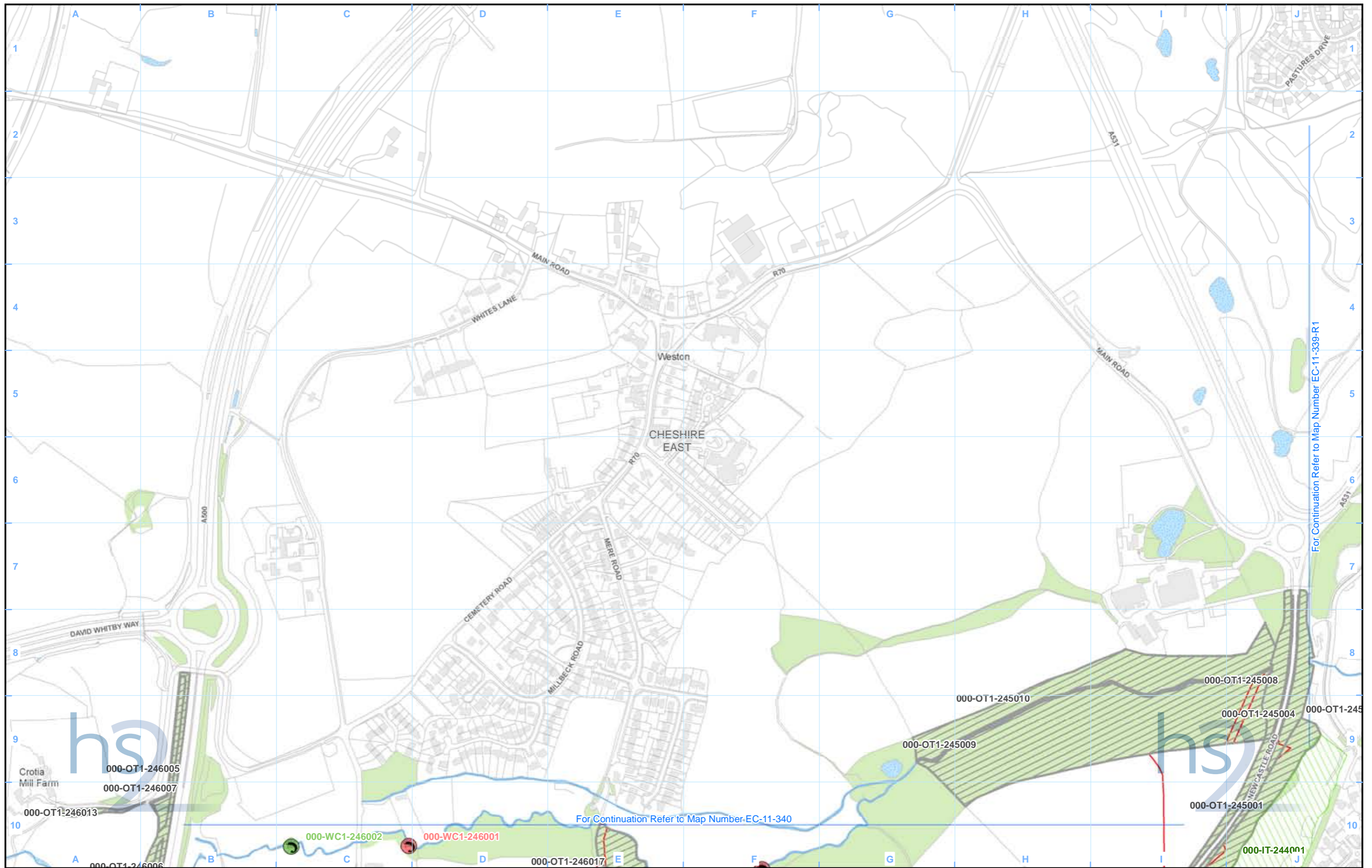
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For Continuation Refer to Map Number EC-11-339-R1

For Continuation Refer to Map Number EC-11-340

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

- Watercourse
- Water body
- Woodland (verified by survey)

- Otter:**
- Active otter holt
  - Potential otter holt
  - Otter terrestrial habitat

- 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

- Pond survey:**
- Pond survey - national pond survey
  - Pond survey - PSYM
  - Pond survey - rapid assessment method

- Fish:**
- Fish survey location
- Terrestrial invertebrate:**
- Terrestrial invertebrate survey extent

|                                     |   |
|-------------------------------------|---|
| Map Number                          | EC-11-340-R1                            |
| Map Name                            | Other Protected and Notable Species (1) |
| Community Area 5:<br>South Cheshire |   |

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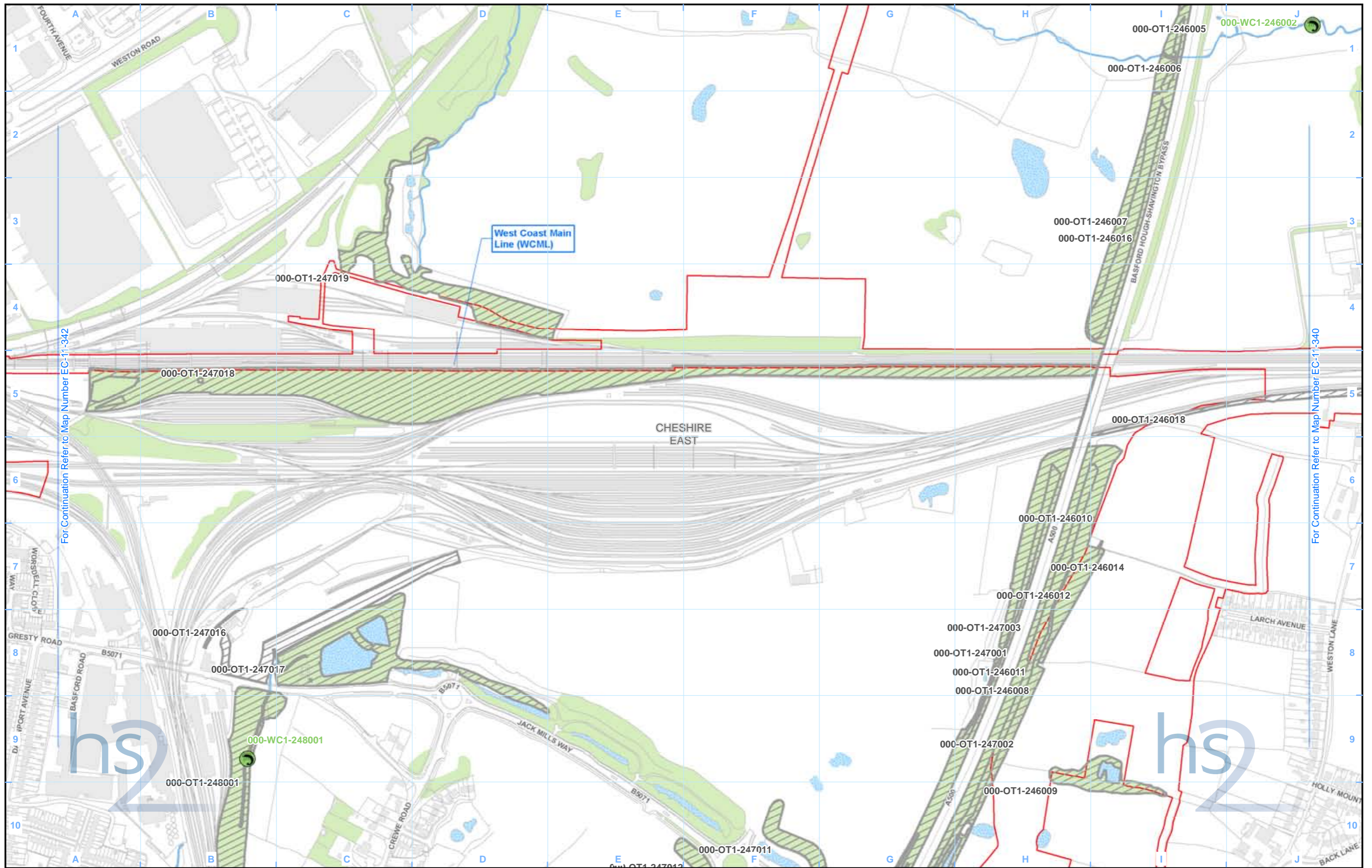
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**Doc Number:** C861-ARP-EV-MAP-000-081603-P03

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Metres

**Date:** 14/06/17



For Continuation Refer to Map Number EC-11-342

For Continuation Refer to Map Number EC-11-340

| Legend |   |
|--------|---|
|        | Route in bored tunnel   |
|        | Route on surface  |
|        | Depot, station, headhouse or portal building  |
|        | Land potentially required during construction   |
|        | Community area boundary   |
|        | District/Borough boundary   |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)   |
|        | Otter: Active otter holt  |
|        | Potential otter holt  |
|        | Otter terrestrial habitat   |
|        | 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                       |
|        | Pond survey: Pond survey – national pond survey                                       |
|        | Pond survey - PSYM  |
|        | Pond survey – rapid assessment method   |
|        | Fish: Fish survey location  |
|        | Terrestrial invertebrate: Terrestrial invertebrate survey extent                      |

|                                     |   |
|-------------------------------------|---|
| Map Number                          | EC-11-341                               |
| Map Name                            | Other Protected and Notable Species (1) |
| Community Area 5:<br>South Cheshire |   |

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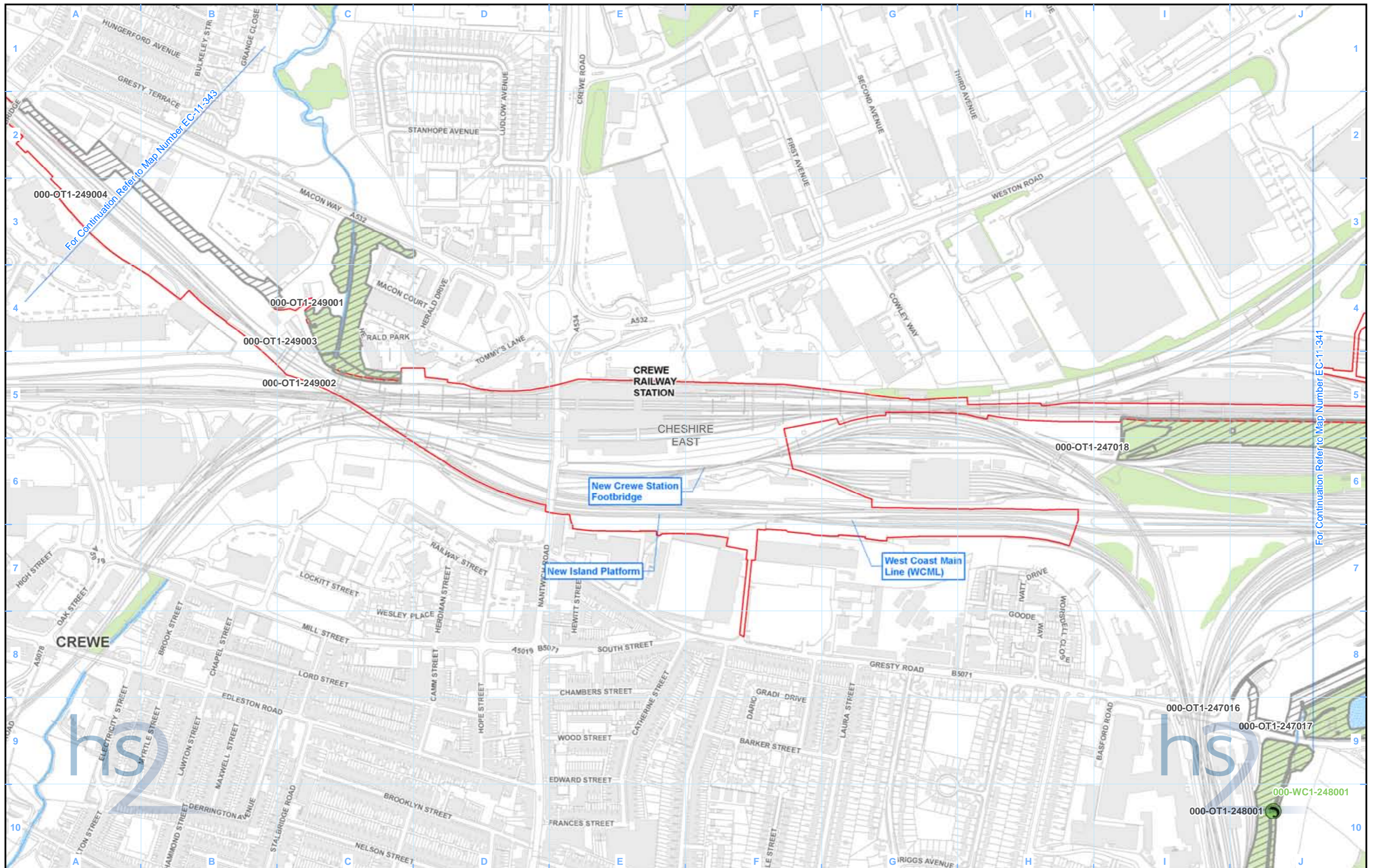
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Scale at A3: 1:5,000

Metres

Date: 14/06/17





- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - District/Borough boundary
  - Watercourse
  - Water body
  - Woodland (verified by survey)

- Otter:**
- Active otterholt
  - Potential otterholt
  - Otter terrestrial habitat

- 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

- Pond survey:**
- Pond survey – national pond survey
  - Pond survey - PSYM
  - Pond survey – rapid assessment method

- Fish:**
- Fish survey location
  - Terrestrial invertebrate:**
  - Terrestrial invertebrate survey extent

Map Number: EC-11-342

Map Name: Other Protected and Notable Species (1)

Community Area 5: South Cheshire

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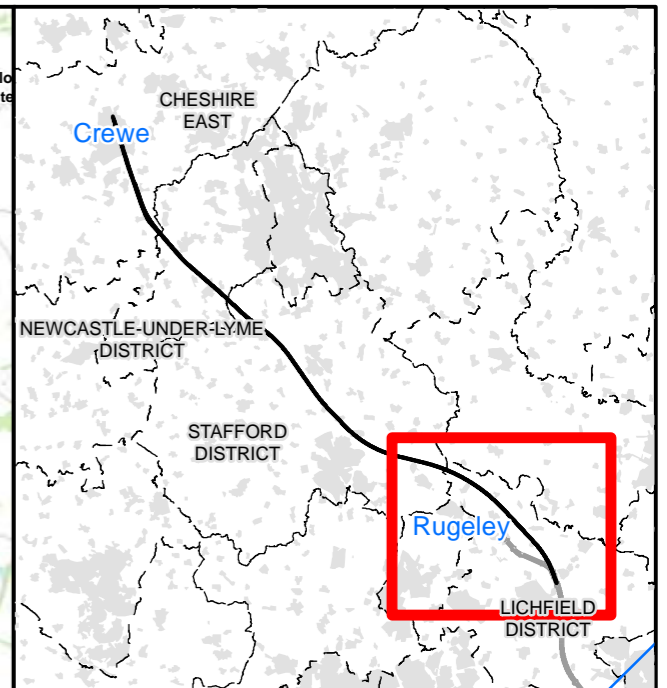
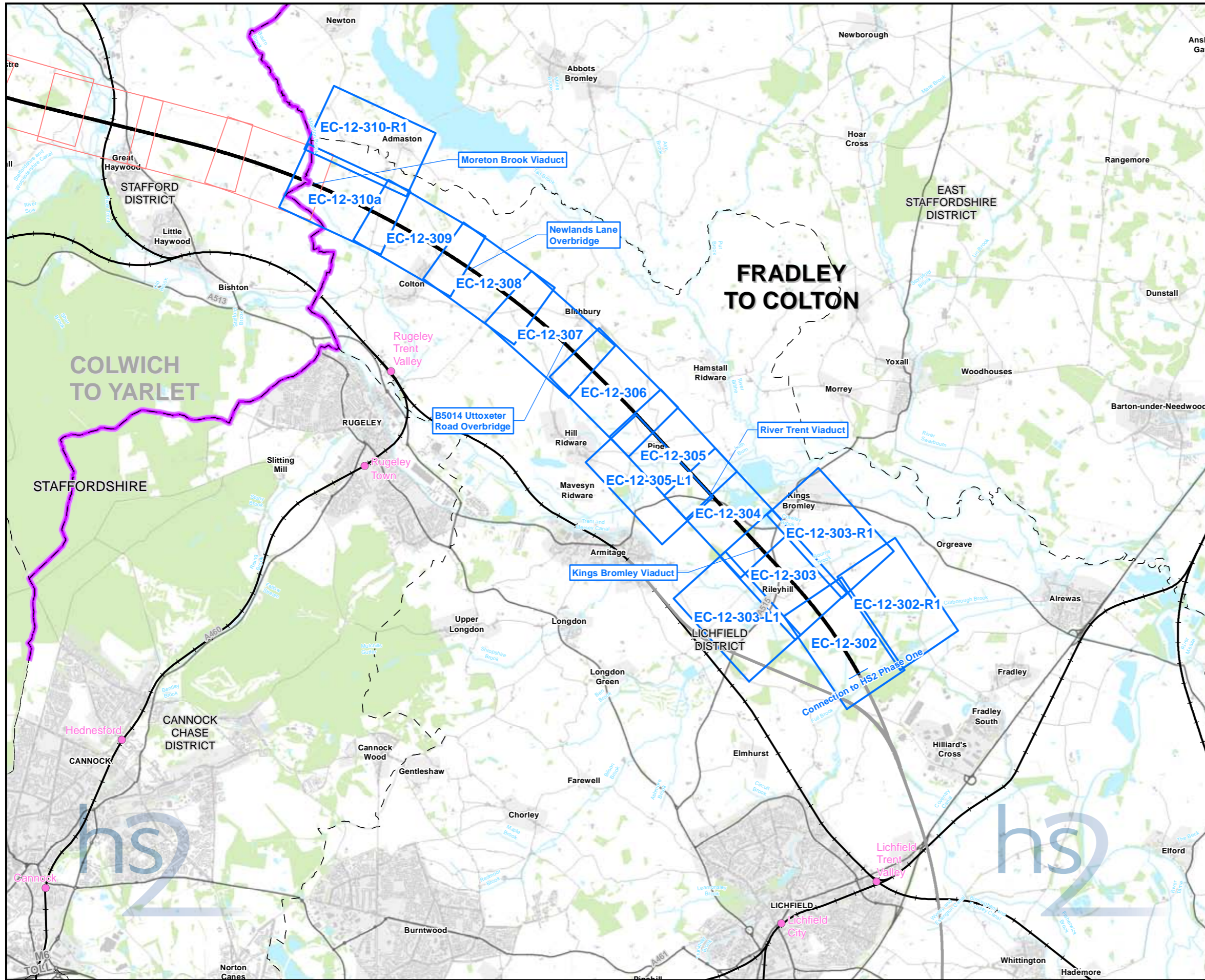
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High Speed Two Phase 2a (West Midlands-Crewe)  
Background Information and Data  
**EC-12 - Other Protected and Notable Species (2)**



**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
  - Map sheets not included in this community area

Map Number: EC-12-INDEX-CA1  
 Map Name: Index Map of: Other Protected and Notable Species (2)  
 Community Area 1: Fradley to Colton

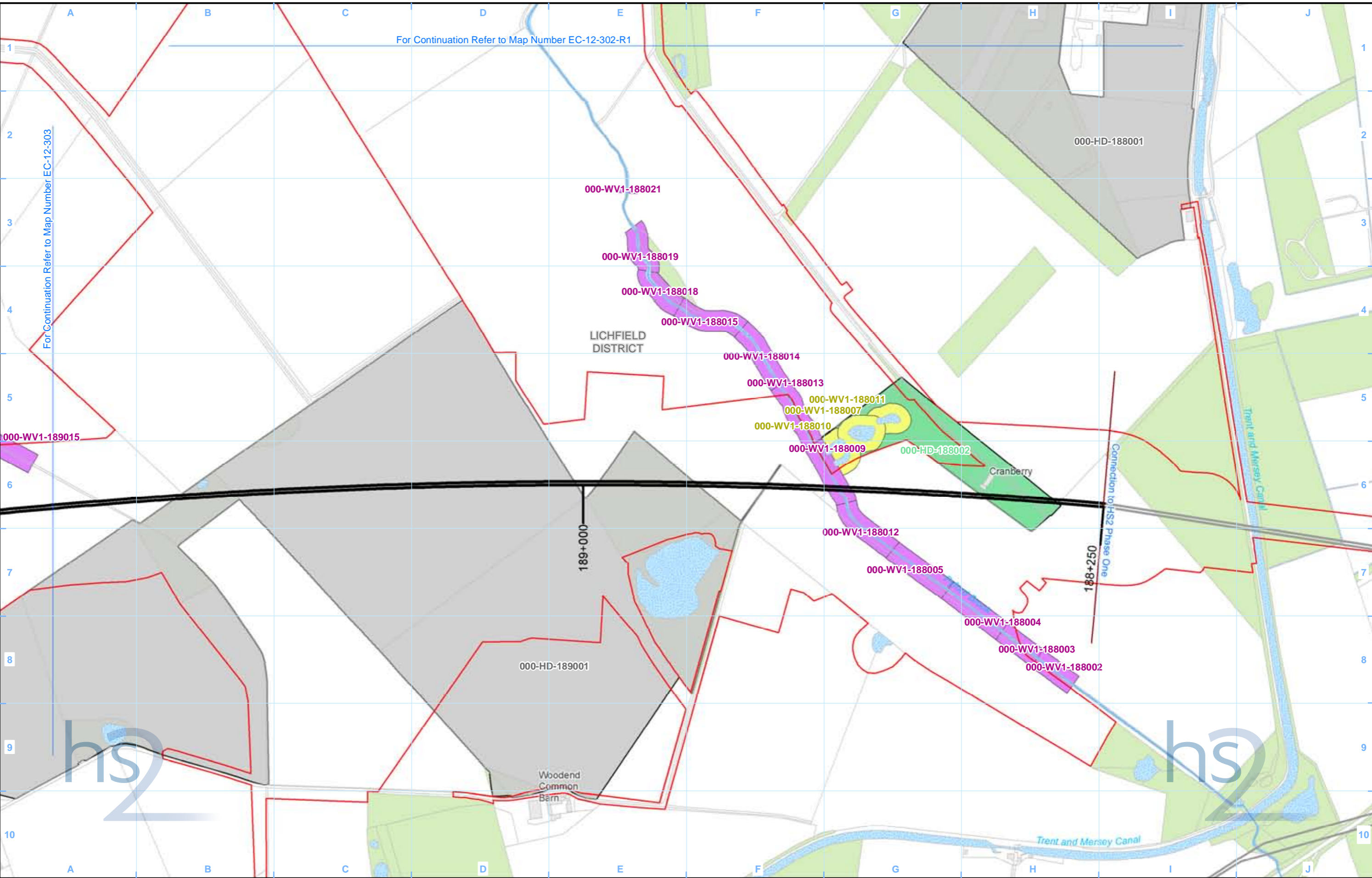
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken – presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-302                               |
| Map Name   | Other Protected and Notable Species (2) |
|            | Community Area 1:<br>Fradley to Colton  |

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For Continuation Refer to Map Number EC-12-303

For Continuation Refer to Map Number EC-12-302-R1

Connection to HS2 Phase One

LICHFIELD DISTRICT

Cranberry

000-HD-189001

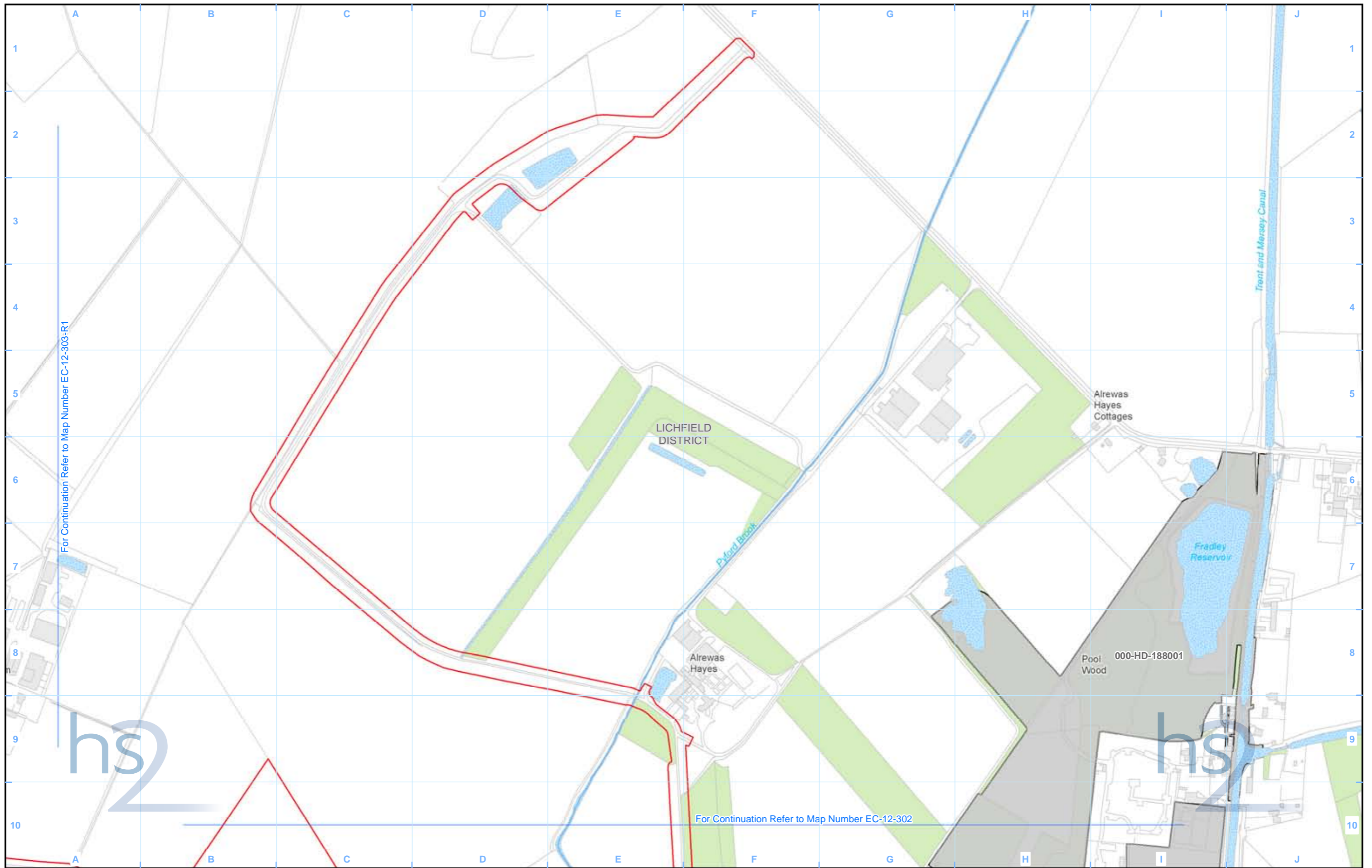
000-HD-188001

189+000

188+250

Woodend Common Barn

Trent and Mersey Canal



For Continuation Refer to Map Number EC-12-303-R1

For Continuation Refer to Map Number EC-12-302

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

|  |   |
|--|---|
| Map Number                             | EC-12-302-R1                            |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 1:<br>Fradley to Colton |   |

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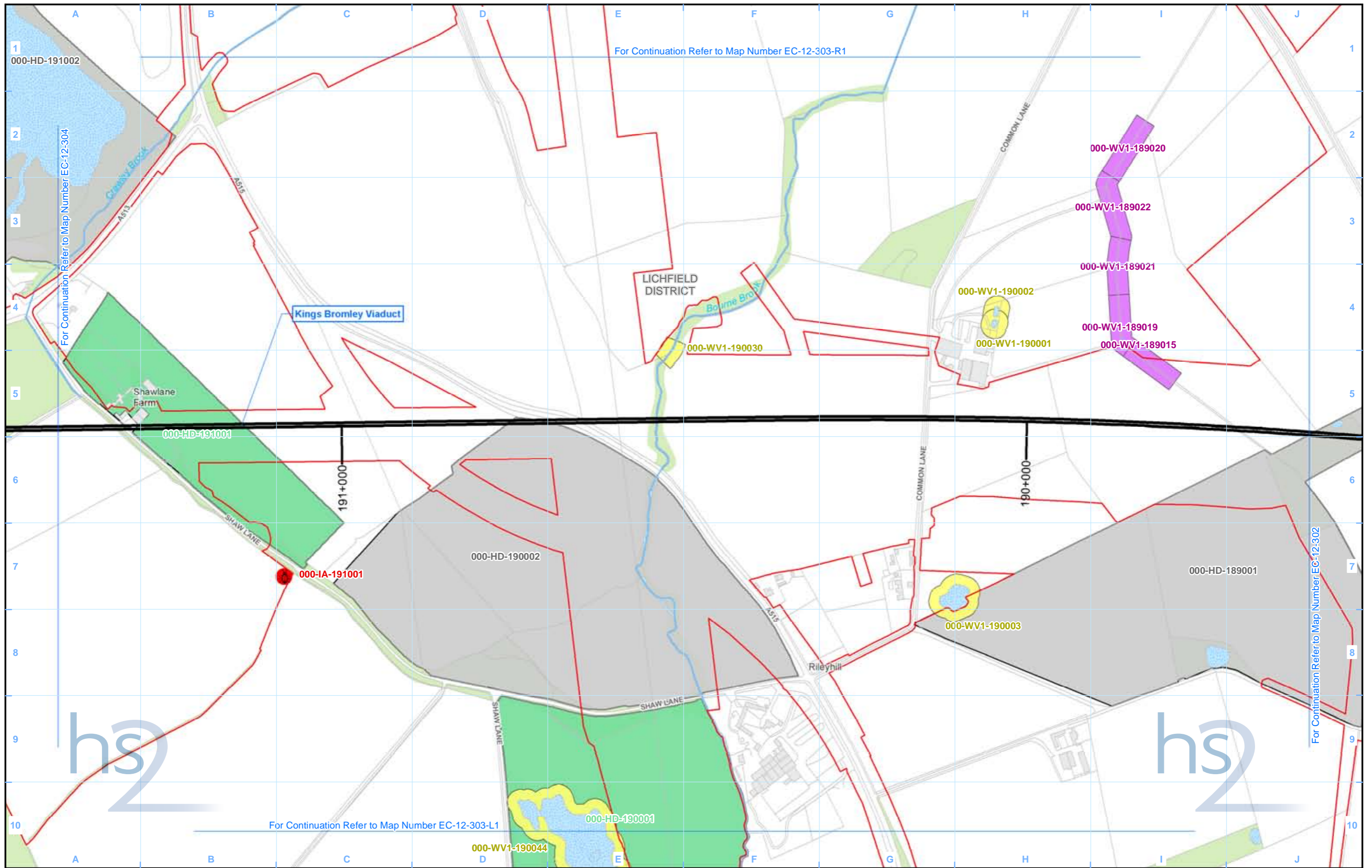
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For Continuation Refer to Map Number EC-12-304

For Continuation Refer to Map Number EC-12-302

For Continuation Refer to Map Number EC-12-303-L1

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

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:
  - Aquatic invertebrate survey location

- 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

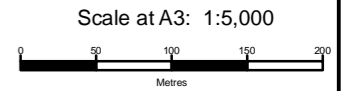
- Dormouse:**
- Nest tube survey and/or nut search conducted and presence confirmed
  - Nest tube survey and/or nut search conducted and no signs of dormouse identified
  - Site identified as potentially suitable for dormouse but no access available

|  |   |
|--|---|
| Map Number                             | EC-12-303                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 1:<br>Fradley to Colton |   |



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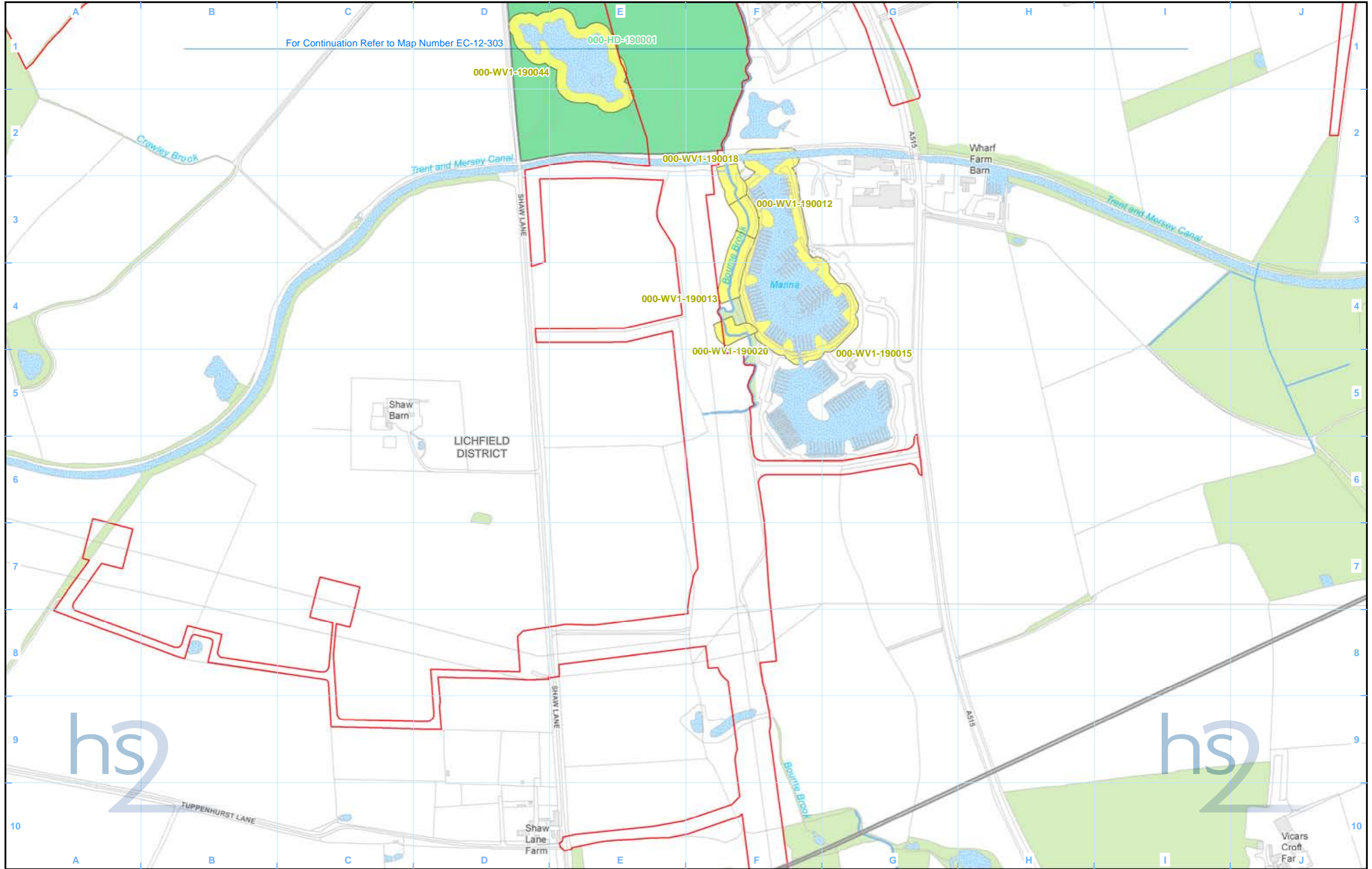
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Date: 14/06/17



For Continuation Refer to Map Number EC-12-303

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

|  |   |
|--|---|
| Map Number                             | EC-12-303-L1                            |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 1:<br>Fradley to Colton |   |

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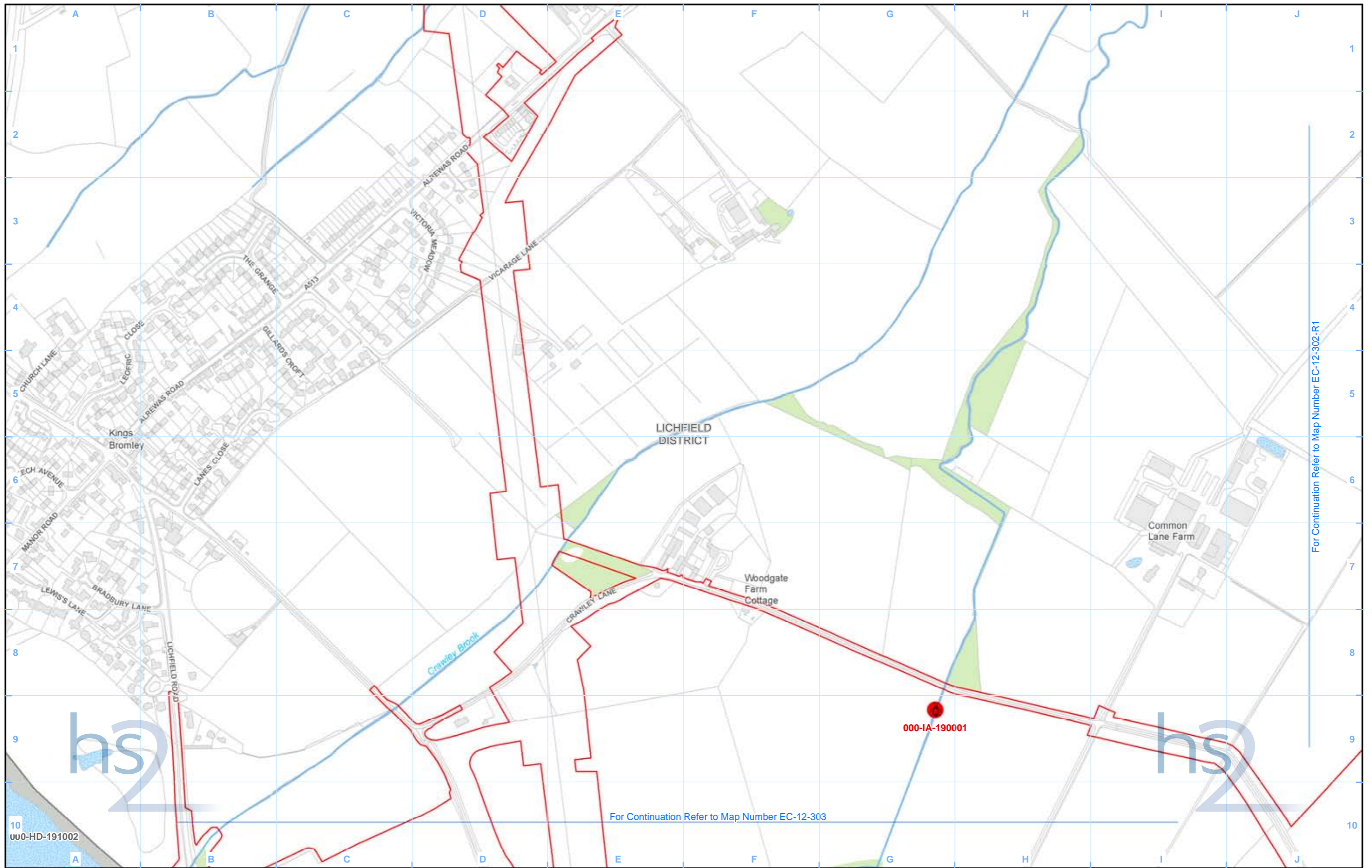
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For Continuation Refer to Map Number EC-12-302-R1

For Continuation Refer to Map Number EC-12-303

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

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- 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-12-303-R1                            |
| Map Name   | Other Protected and Notable Species (2) |
|            | Community Area 1:<br>Fradley to Colton  |

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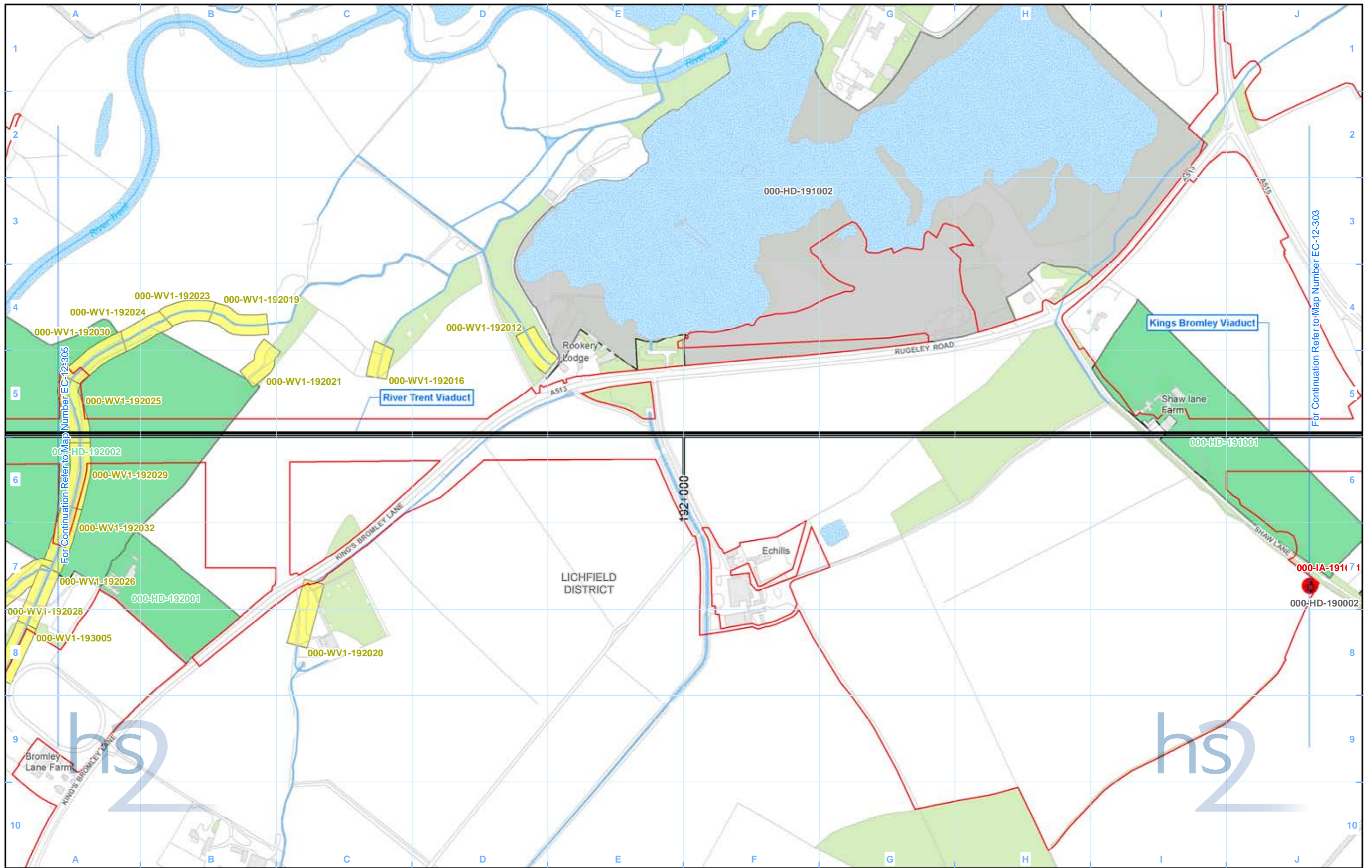
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**Legend**

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

Watercourse

- Water body
- Woodland (verified by survey)

Aquatic invertebrate:

- Aquatic invertebrate survey location

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-12-304

Map Name: Other Protected and Notable Species (2)

Community Area 1: Fradley to Colton

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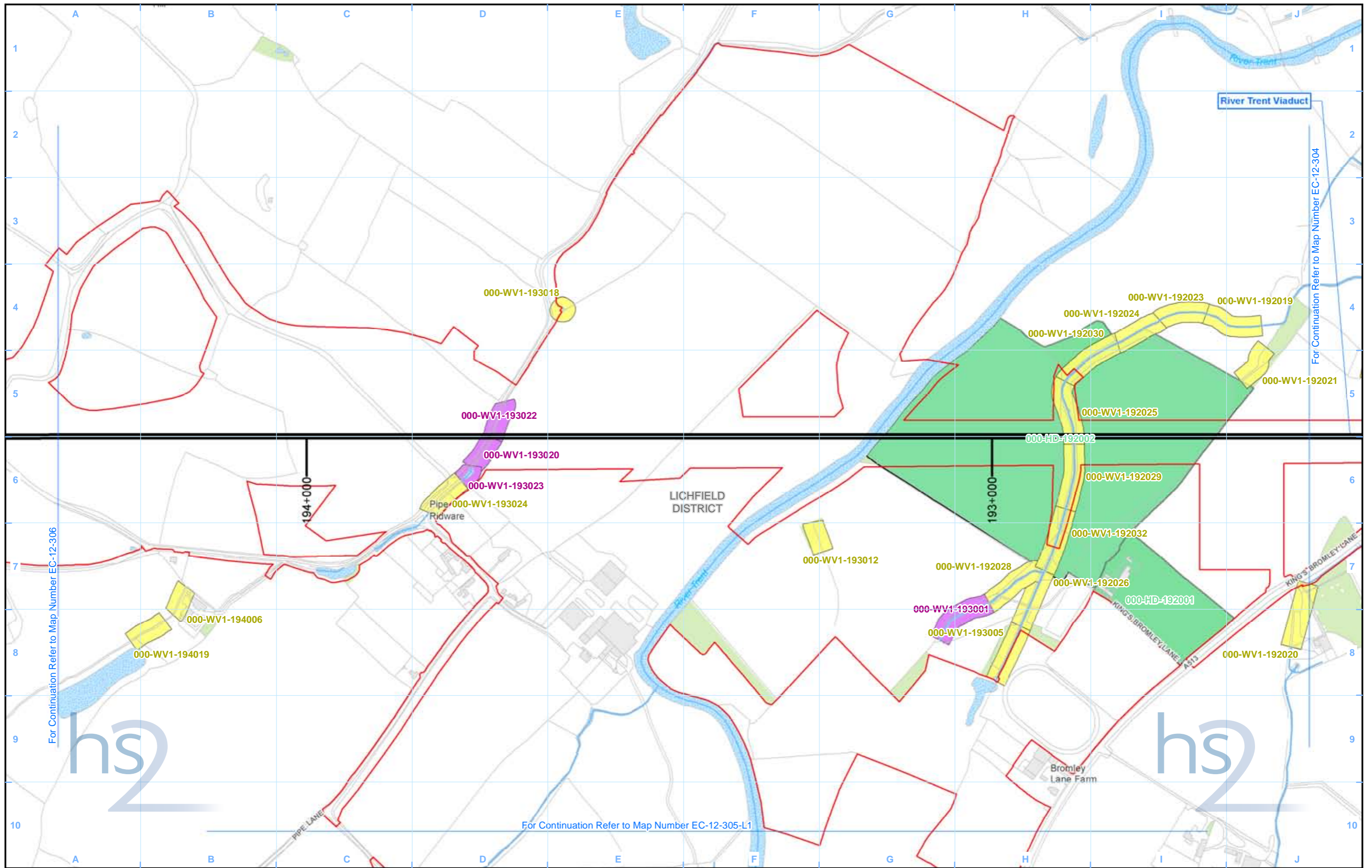
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-305                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 1:<br>Fradley to Colton |   |



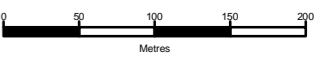
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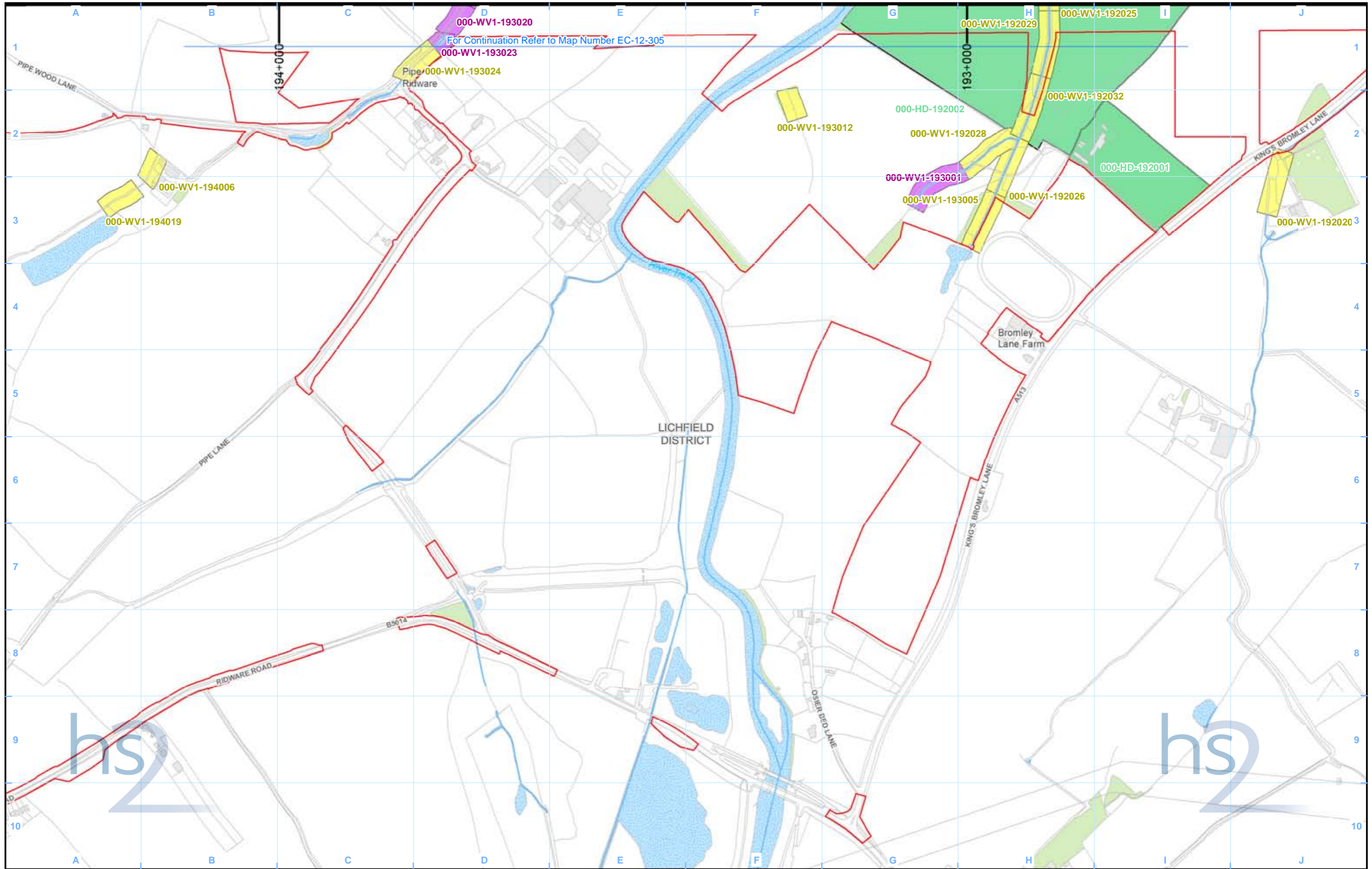


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Date: 14/06/17



| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-305-L1                            |
| Map Name   | Other Protected and Notable Species (2) |
|            | Community Area 1:<br>Fradley to Colton  |

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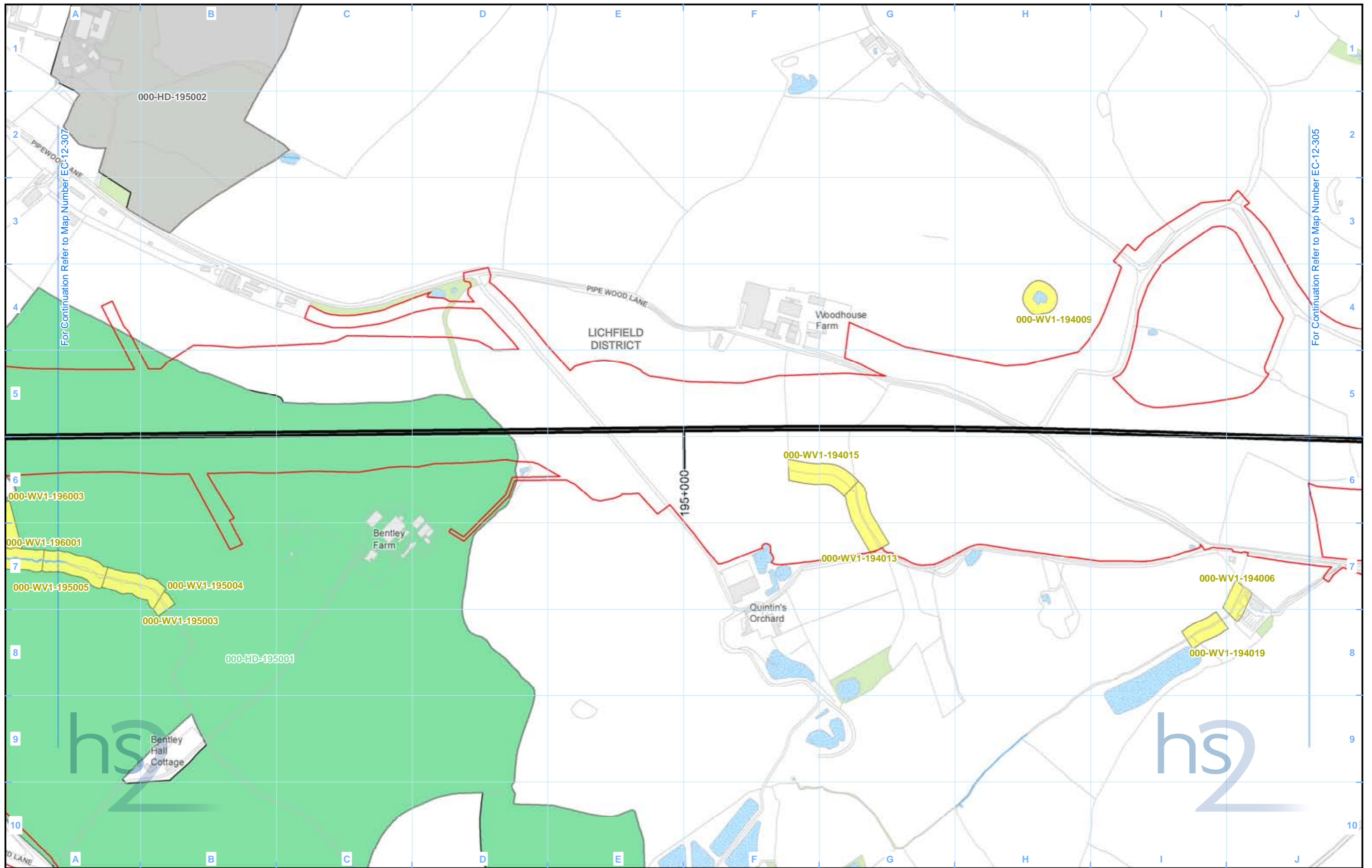
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-306                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 1:<br>Fradley to Colton |   |

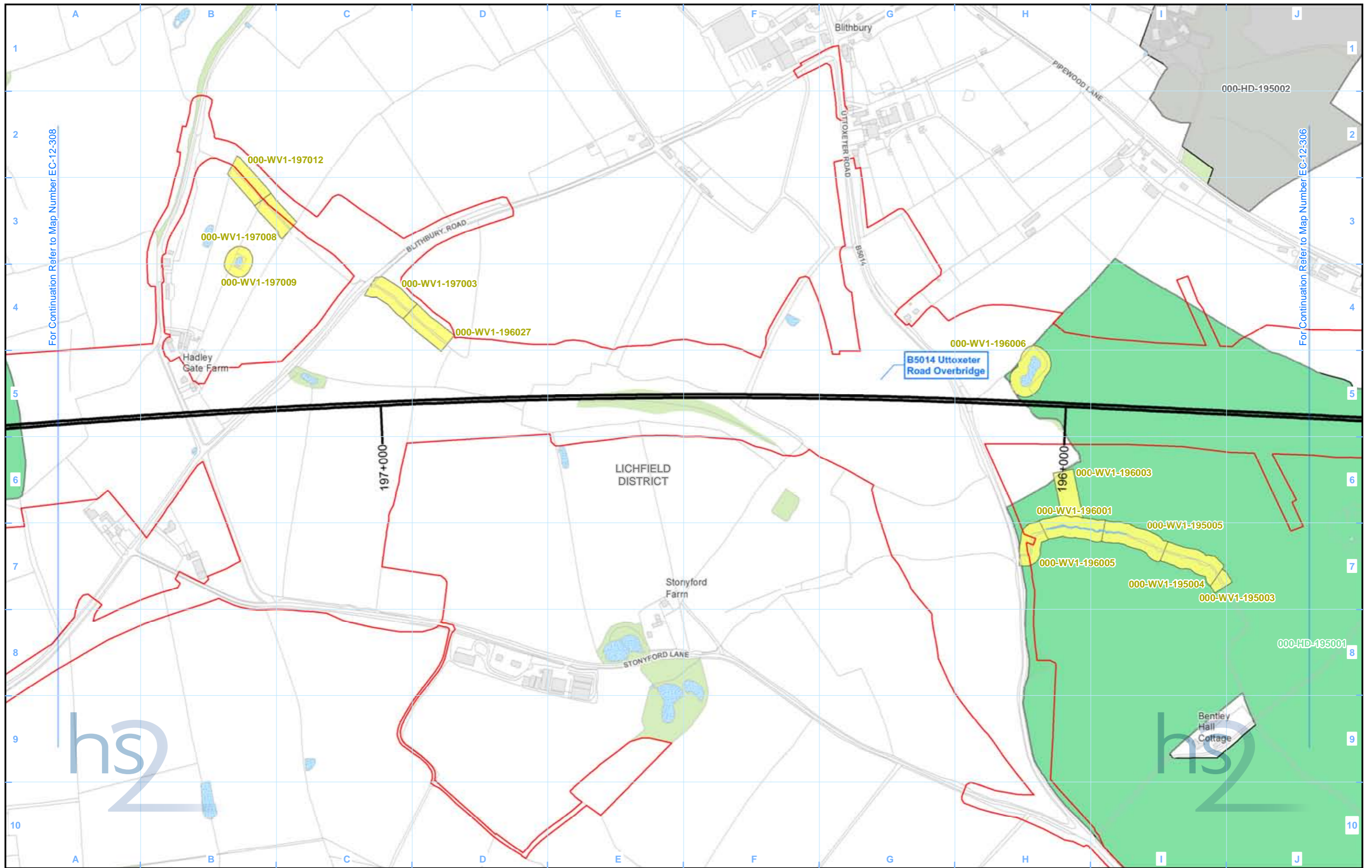
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For Continuation Refer to Map Number EC-12-308

For Continuation Refer to Map Number EC-12-306

| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-307                               |
| Map Name          | Other Protected and Notable Species (2) |
| Community Area 1: | Fradley to Colton                       |

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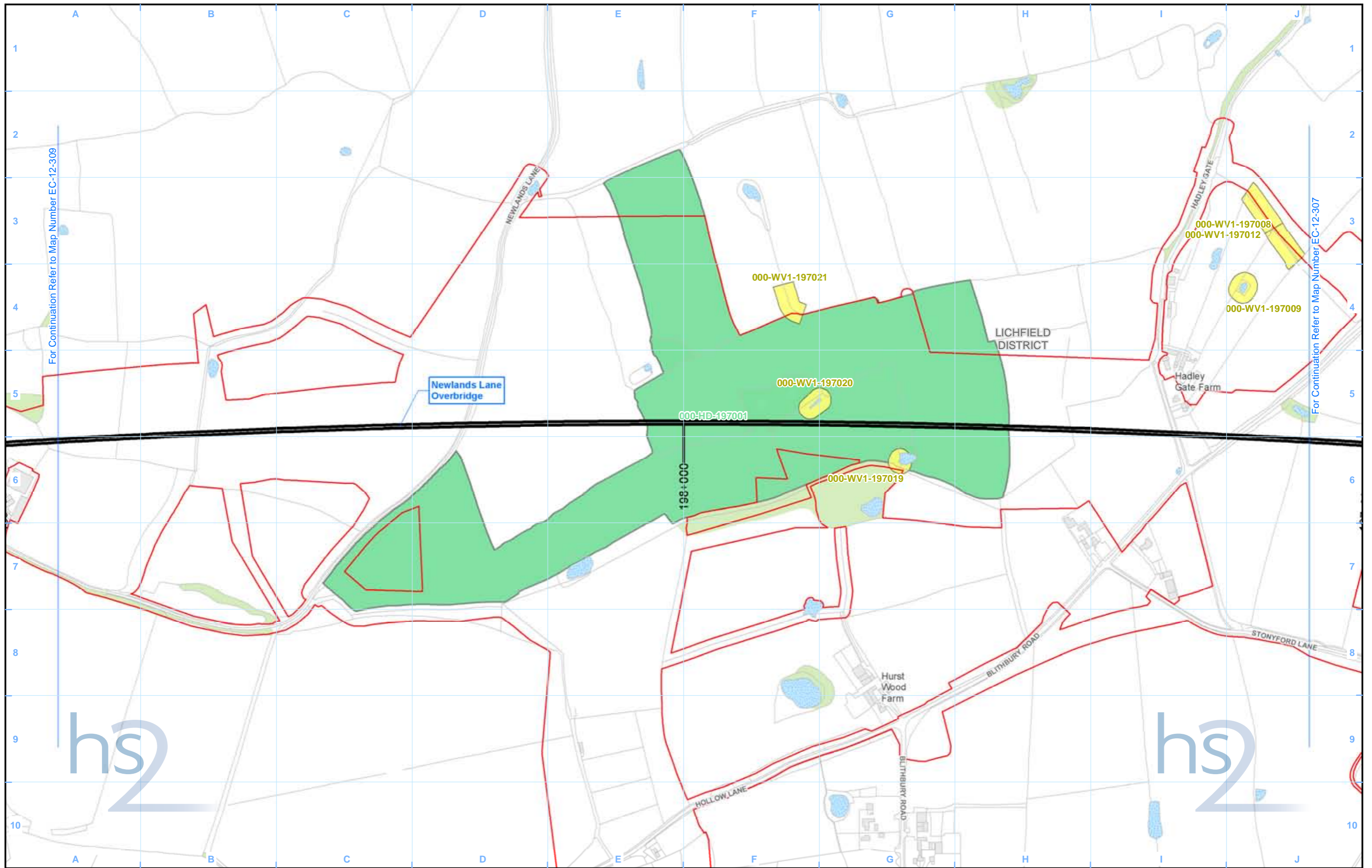
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Date: 14/06/17

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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   |
|        | District/Borough boundary   |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)   |
|        | Aquatic invertebrate survey location  |
|        | 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 nest search conducted and presence confirmed    |
|        | Nest tube survey and/or search conducted and no signs of dormouse identified      |
|        | Site identified as potentially suitable for dormouse but no access available      |

|                   |   |
|-------------------|---|
| Map Number        | EC-12-308                               |
| Map Name          | Other Protected and Notable Species (2) |
| Community Area 1: | Fradley to Colton                       |

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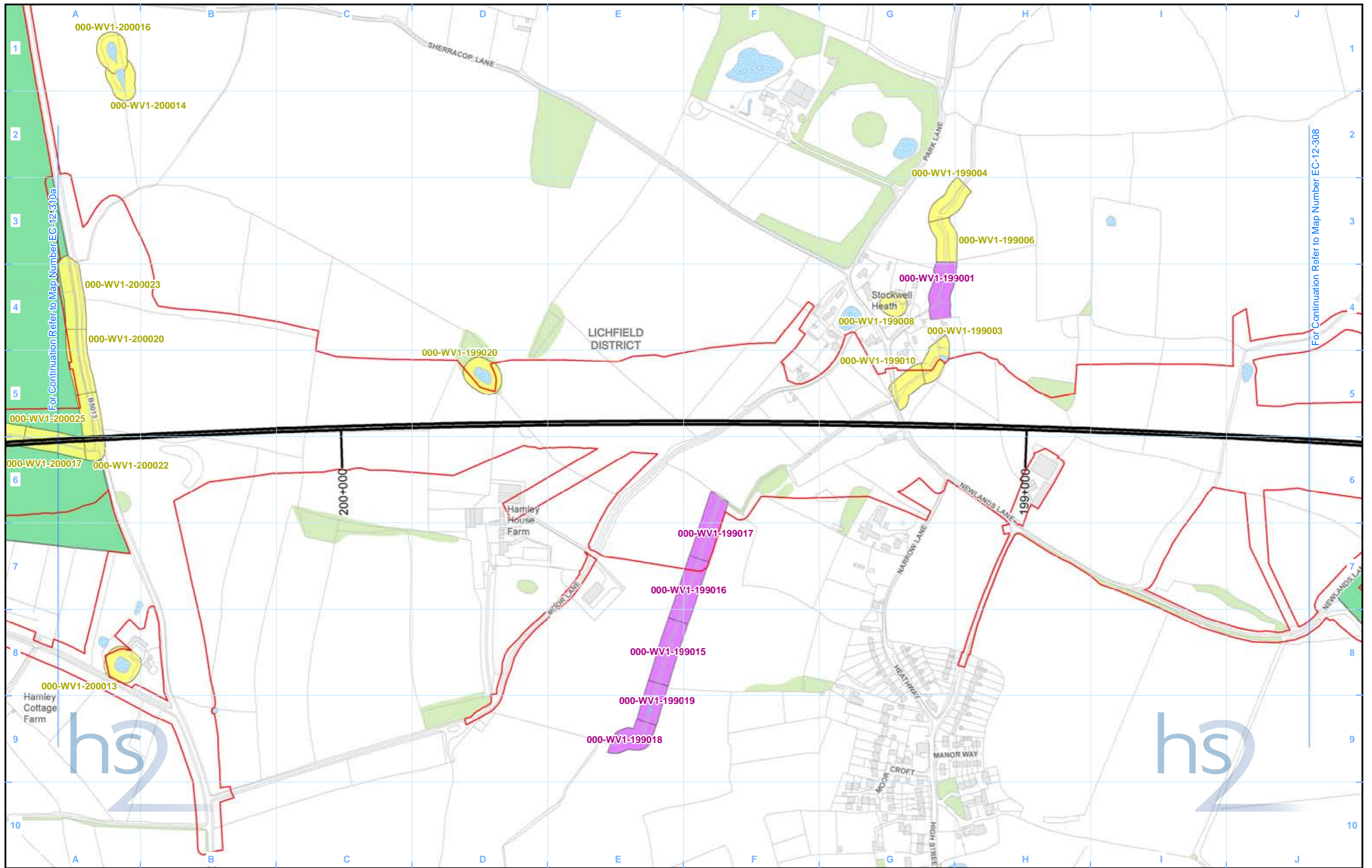
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Date: 14/06/17



**Legend**

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

Watercourse

- Water body
- Woodland (verified by survey)

Aquatic invertebrate:

- Aquatic invertebrate survey location

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-12-309

Map Name: Other Protected and Notable Species (2)

Community Area 1: Fradley to Colton

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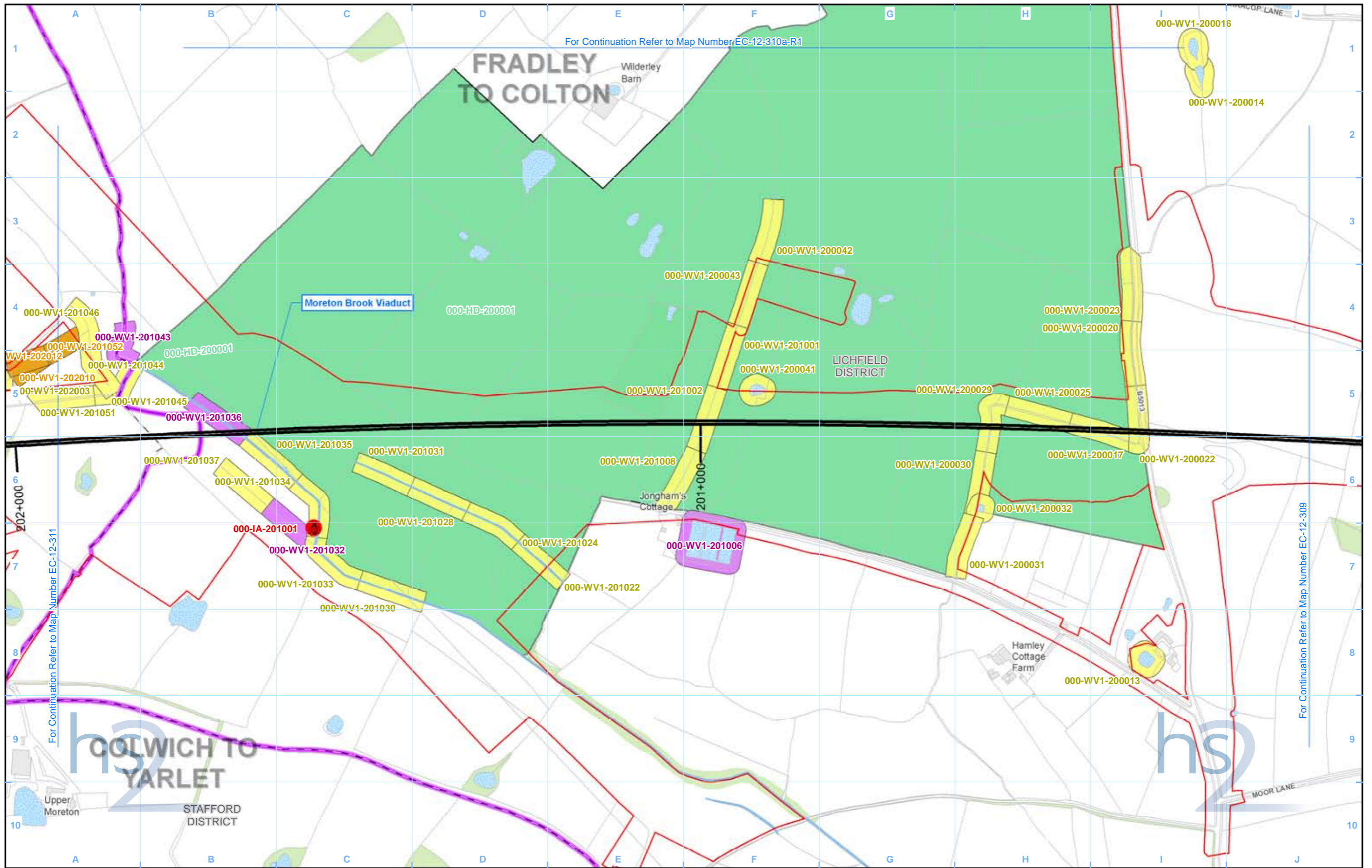
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Date: 14/06/17





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

|                   |   |
|-------------------|---|
| Map Number        | EC-12-310a                              |
| Map Name          | Other Protected and Notable Species (2) |
| Community Area 1: | Fradley to Colton                       |

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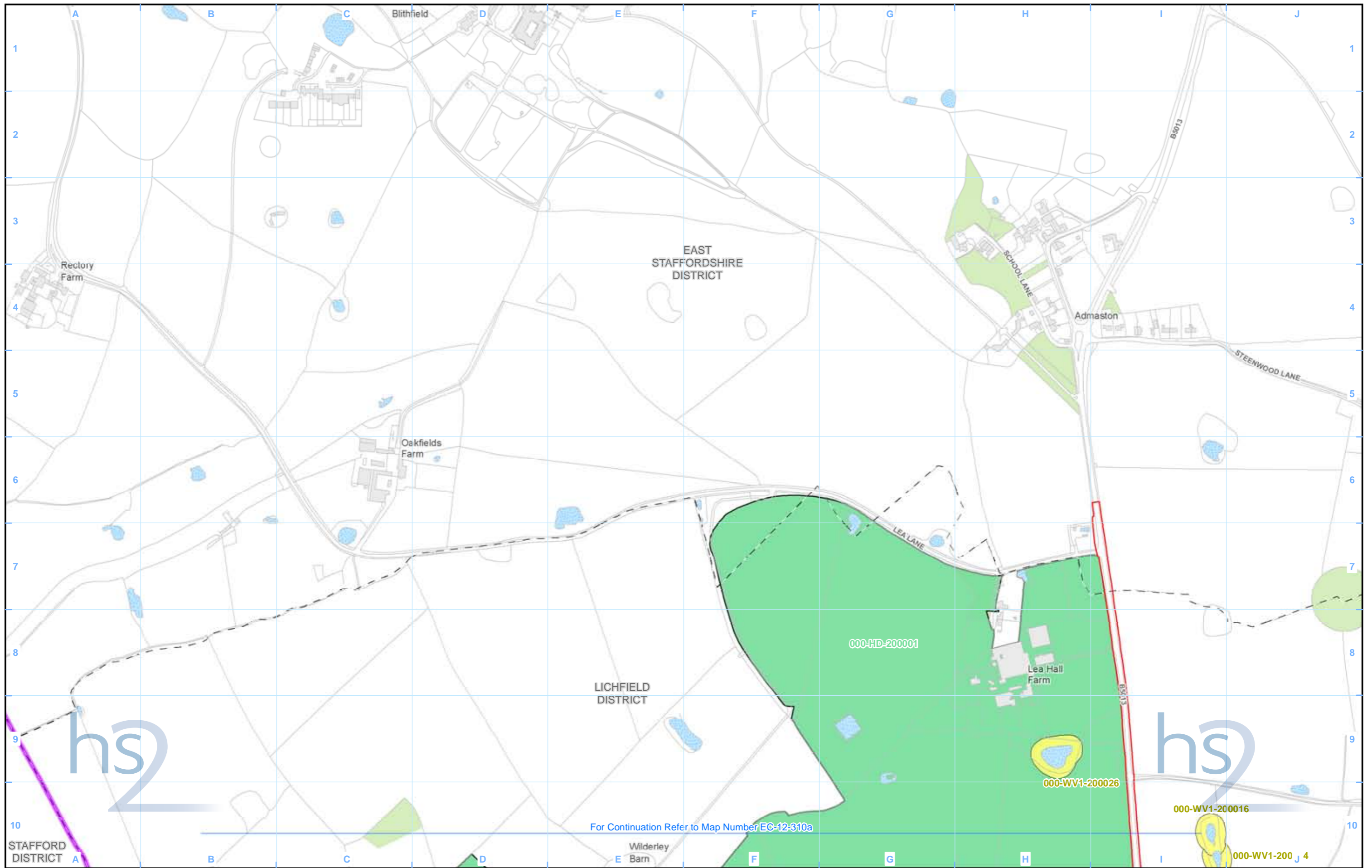
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For Continuation Refer to Map Number EC-12-310a

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

Watercourse  
 Water body  
 Woodland (verified by survey)  
 Aquatic invertebrate:  
 Aquatic invertebrate survey location

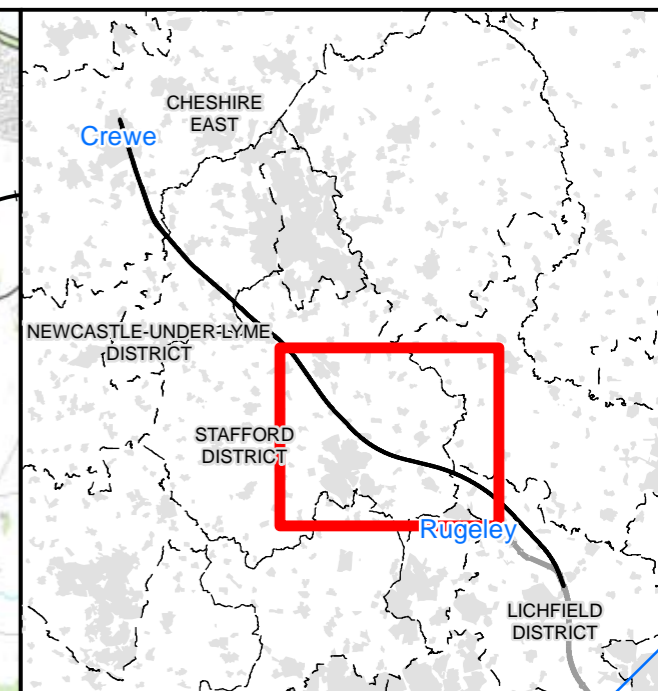
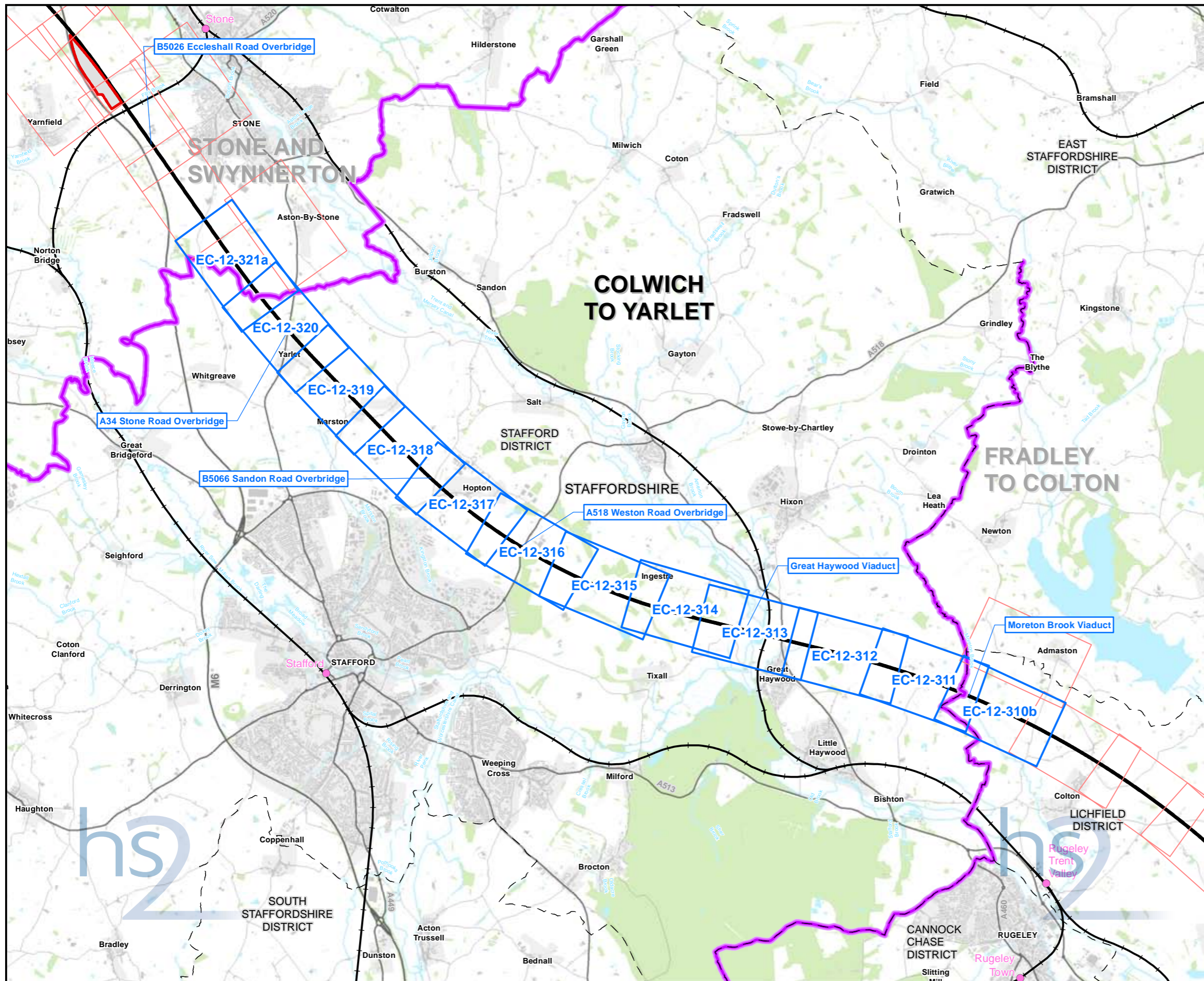
**Water vole:**  
 - Water vole survey undertaken - presence confirmed  
 - Water vole survey undertaken - assumed absent  
 - Watercourse potentially suitable for water vole - no or limited access for survey

**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-12-310a-R1  
 Map Name: Other Protected and Notable Species (2)  
 Community Area 1: Fradley to Colton

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 0 50 100 150 200 Metres

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**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
- 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)

Community Area 2:  
Colwich to Yarlet

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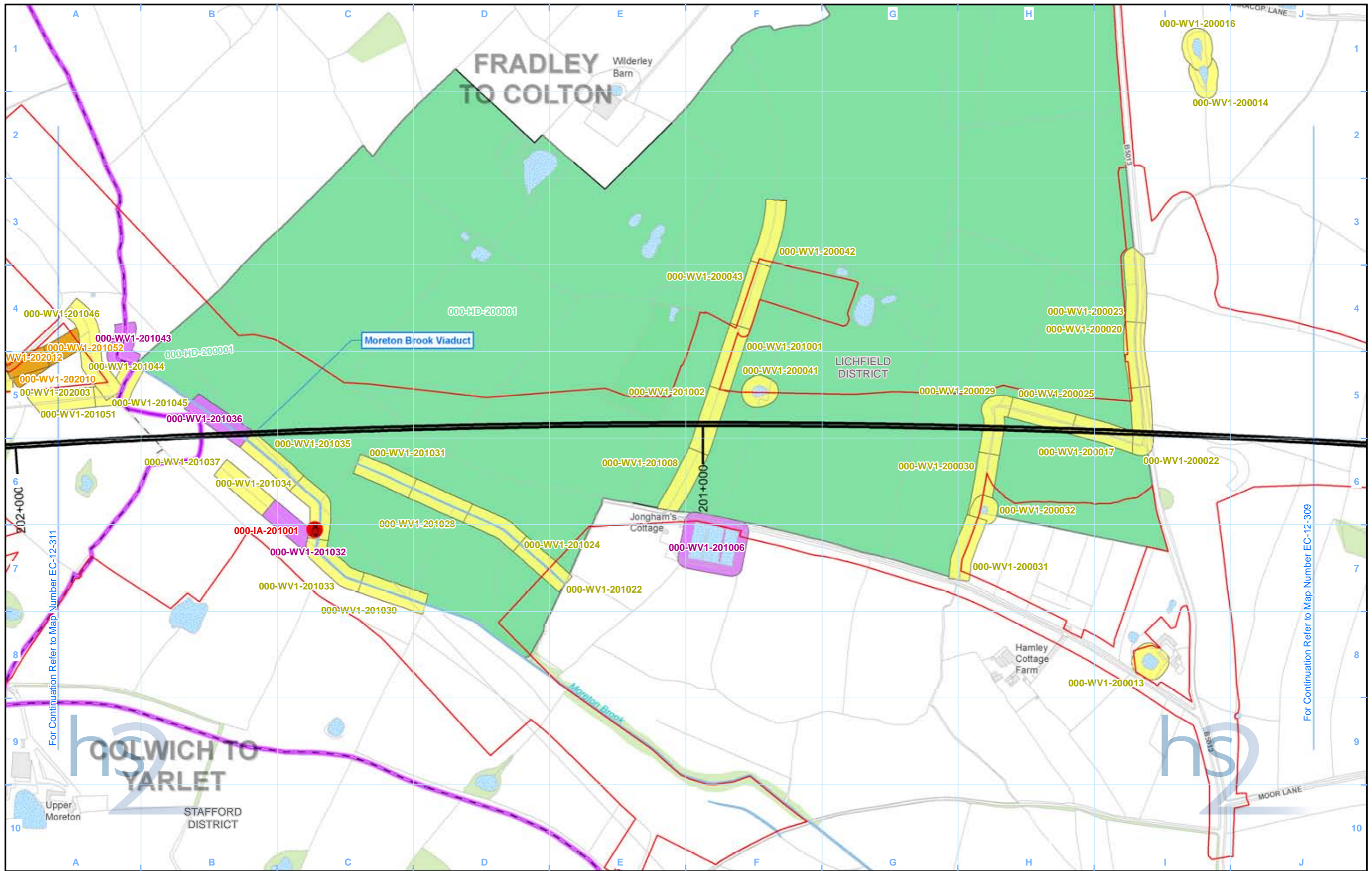
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| Legend |                              |                    |                  |
|--------|------------------------------|--------------------|------------------|
|        |                              | <b>Water vole:</b> | <b>Dormouse:</b> |
|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

|  |   |
|--|---|
| Map Number                             | EC-12-310b                              |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |

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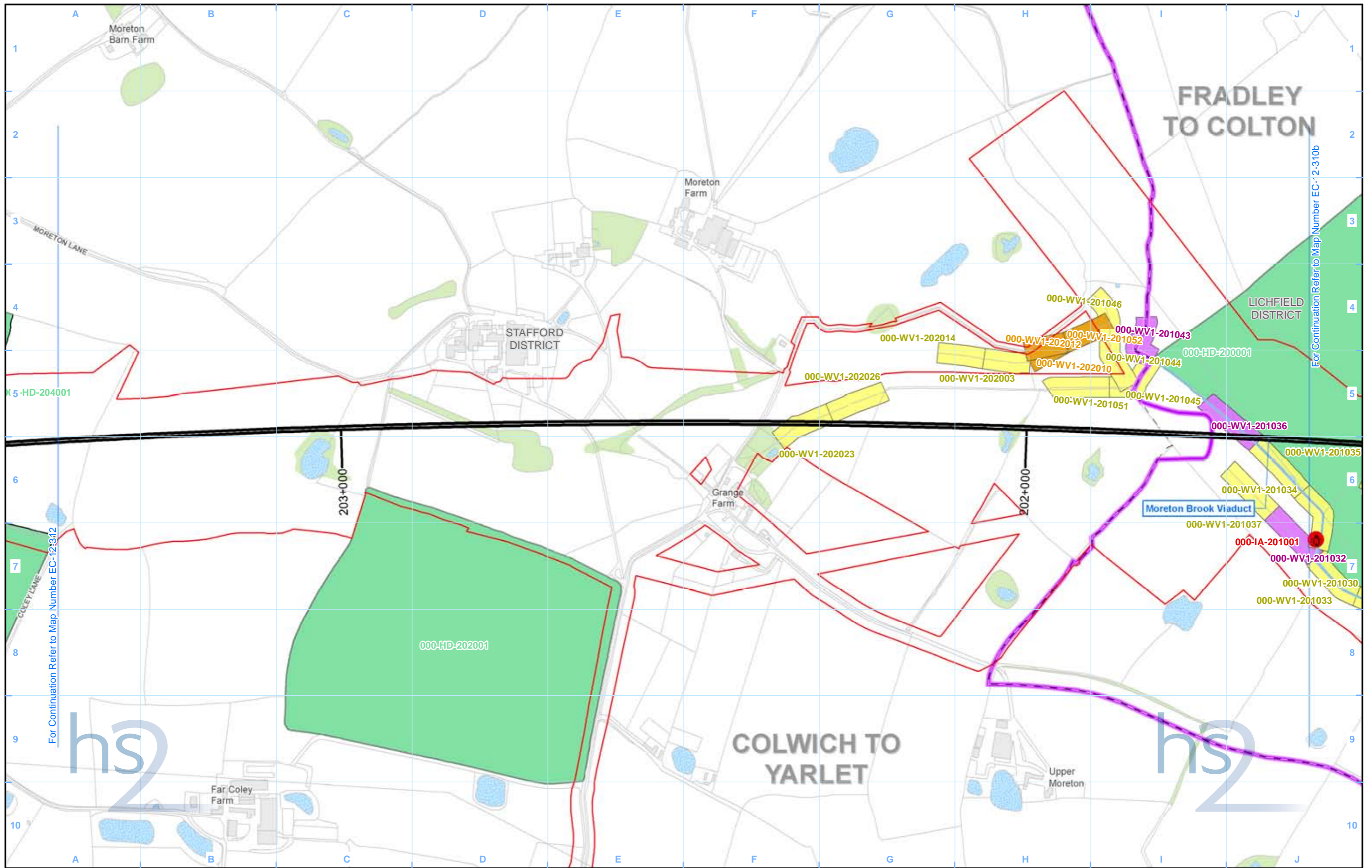
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-311                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |

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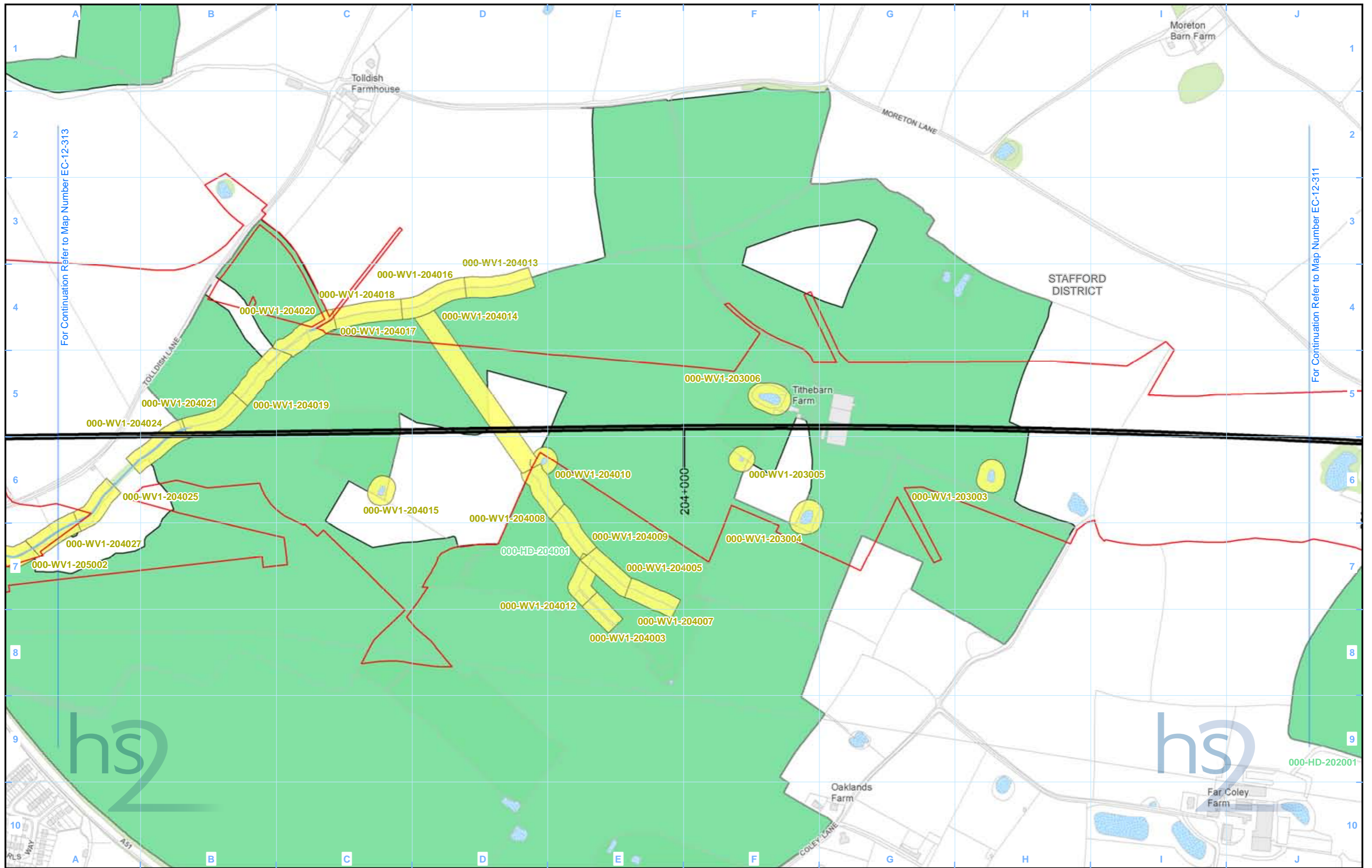
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For Continuation Refer to Map Number EC-12-310c



For Continuation Refer to Map Number EC-12-313

For Continuation Refer to Map Number EC-12-311

| Legend |   |
|--------|---|
|        | Route in bored tunnel   |
|        | Route on surface  |
|        | Depot, station, headhouse or portal building                                      |
|        | Land potentially required during construction                                     |
|        | Community area boundary   |
|        | District/Borough boundary   |
|        | Watercourse   |
|        | Water body  |
|        | Woodland (verified by survey)   |
|        | Aquatic invertebrate survey location  |
|        | 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-12-312                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |

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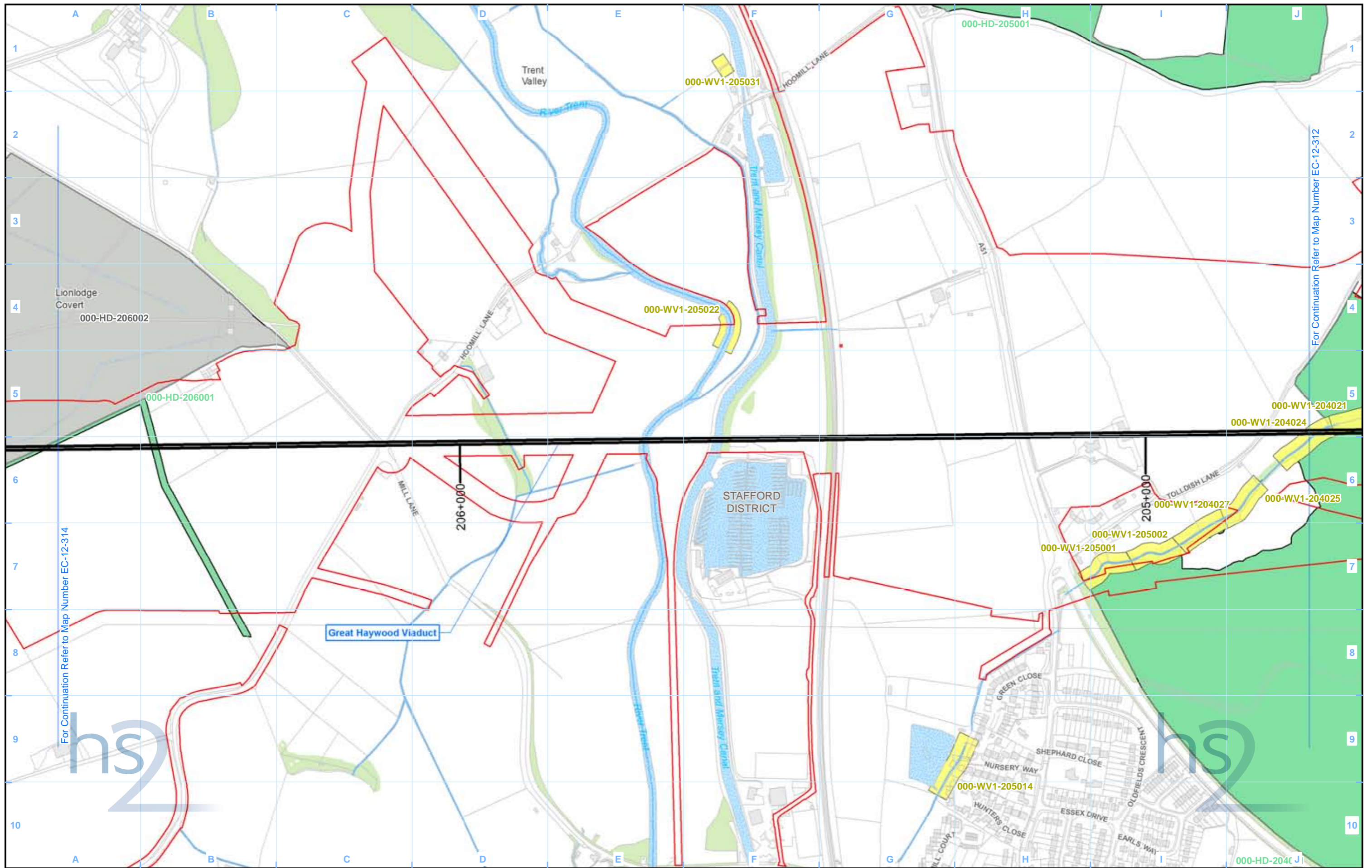
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For Continuation Refer to Map Number EC-12-314

For Continuation Refer to Map Number EC-12-312

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

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- 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-12-313**

Map Name **Other Protected and Notable Species (2)**

Community Area 2:  
Colwich to Yarlet

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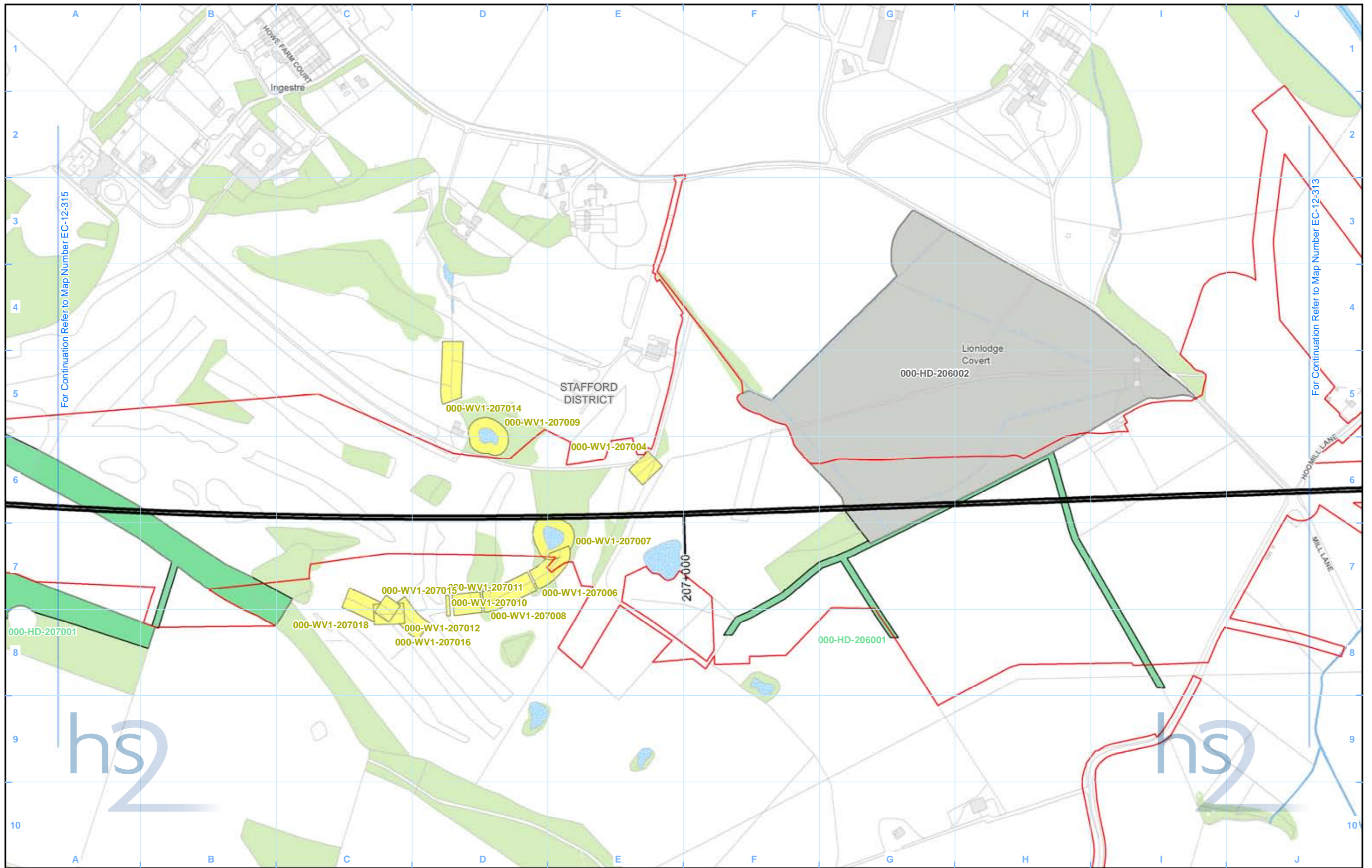
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Date: 14/06/17





For Continuation Refer to Map Number EC-12-315

For Continuation Refer to Map Number EC-12-313

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

|  |   |
|--|---|
| Map Number                             | EC-12-314                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |

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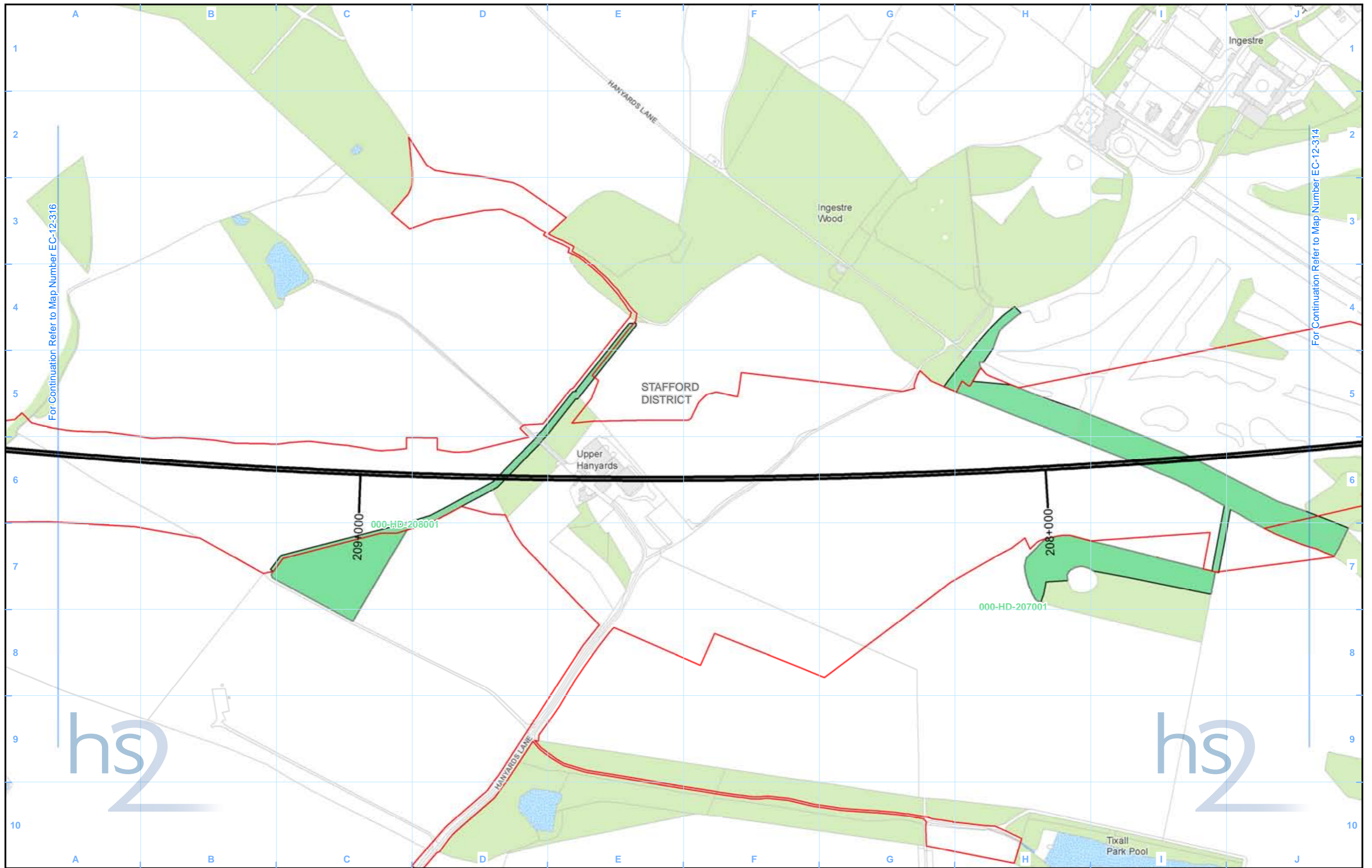
Doc Number: C861-ARP-EV-MAP-000-082628-P03

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Metres

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For Continuation Refer to Map Number EC-12-316

For Continuation Refer to Map Number EC-12-314

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

|  |   |
|--|---|
| Map Number                             | EC-12-315                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |

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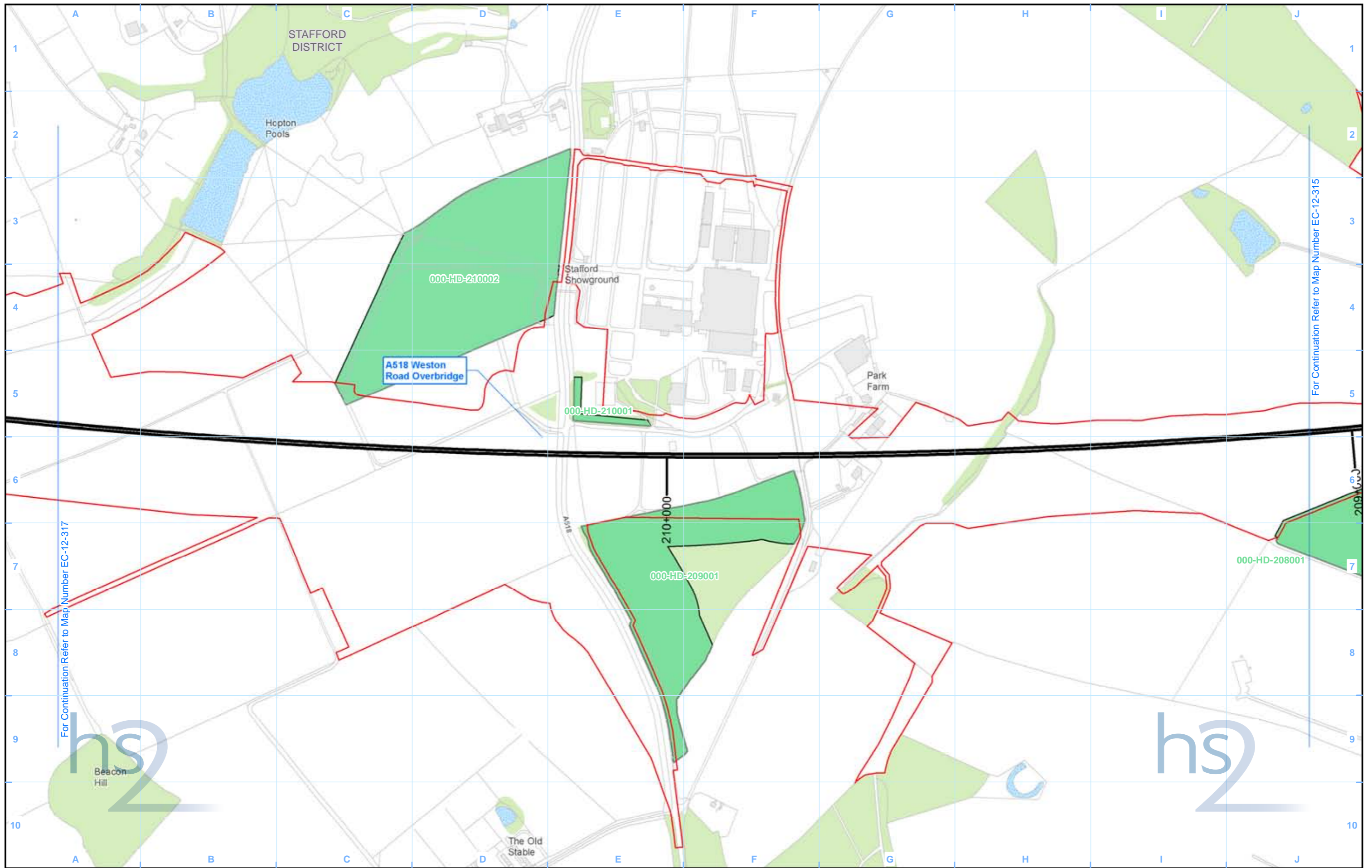
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-316                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |

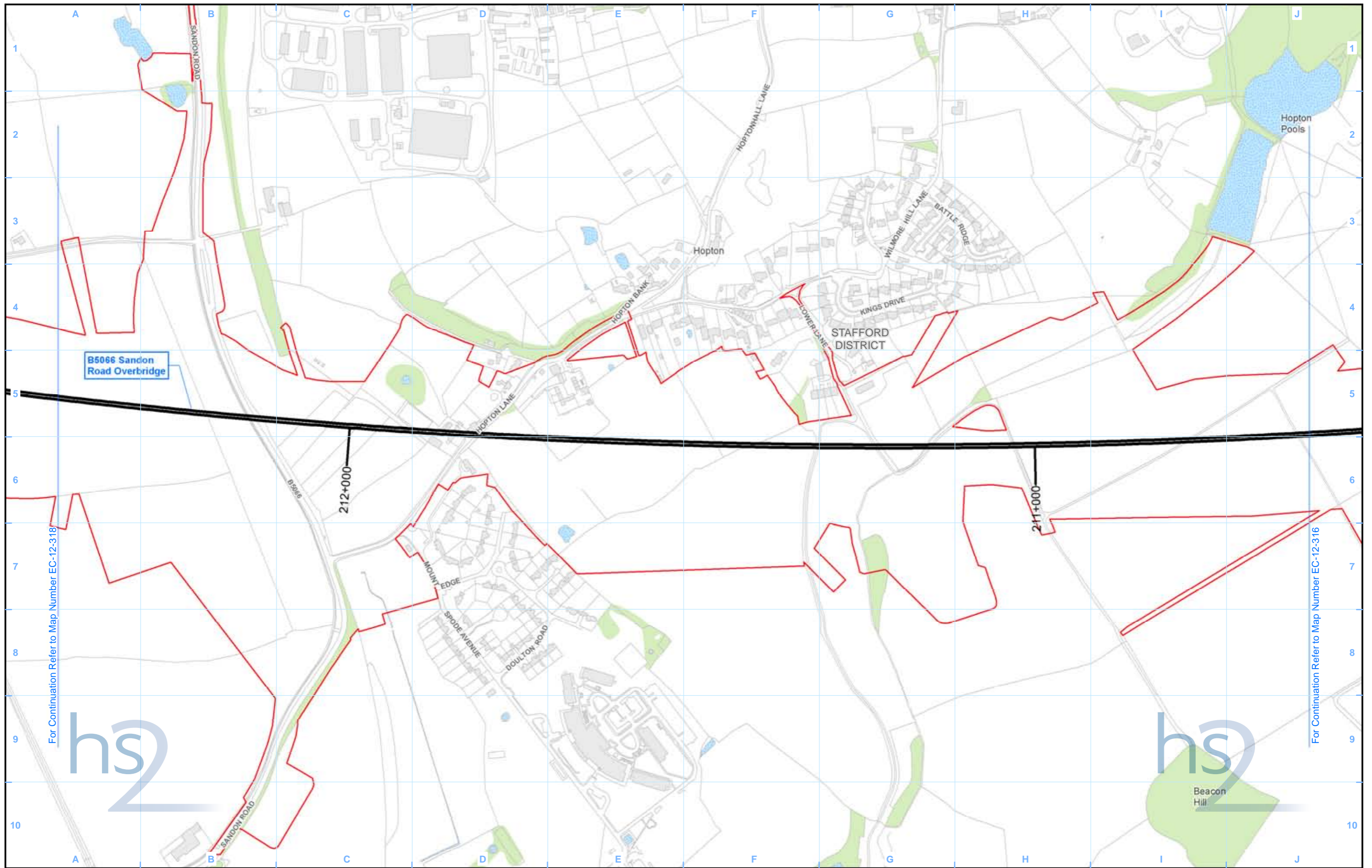
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-317                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |

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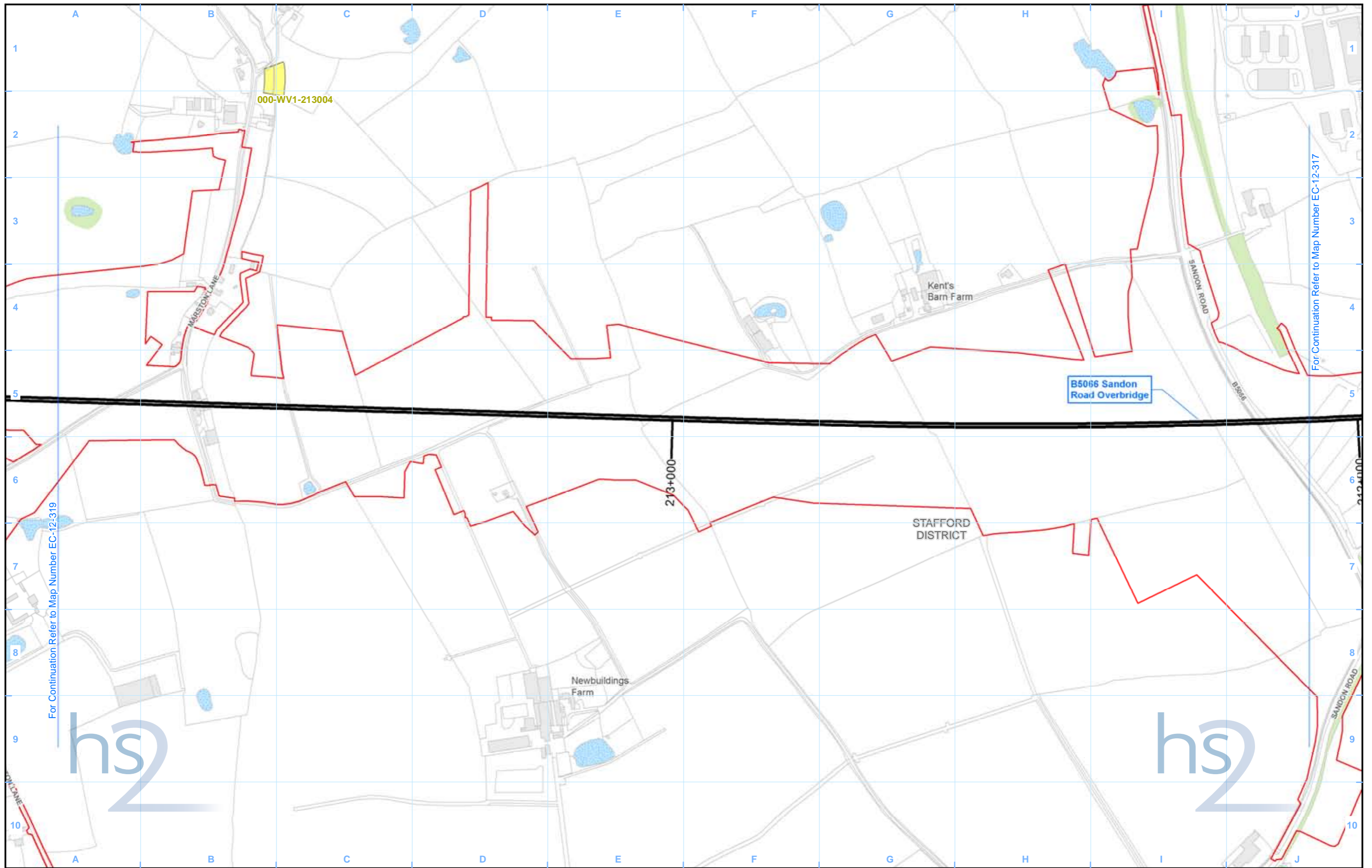
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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) |
| Community Area 2:<br>Colwich to Yarlet |   |

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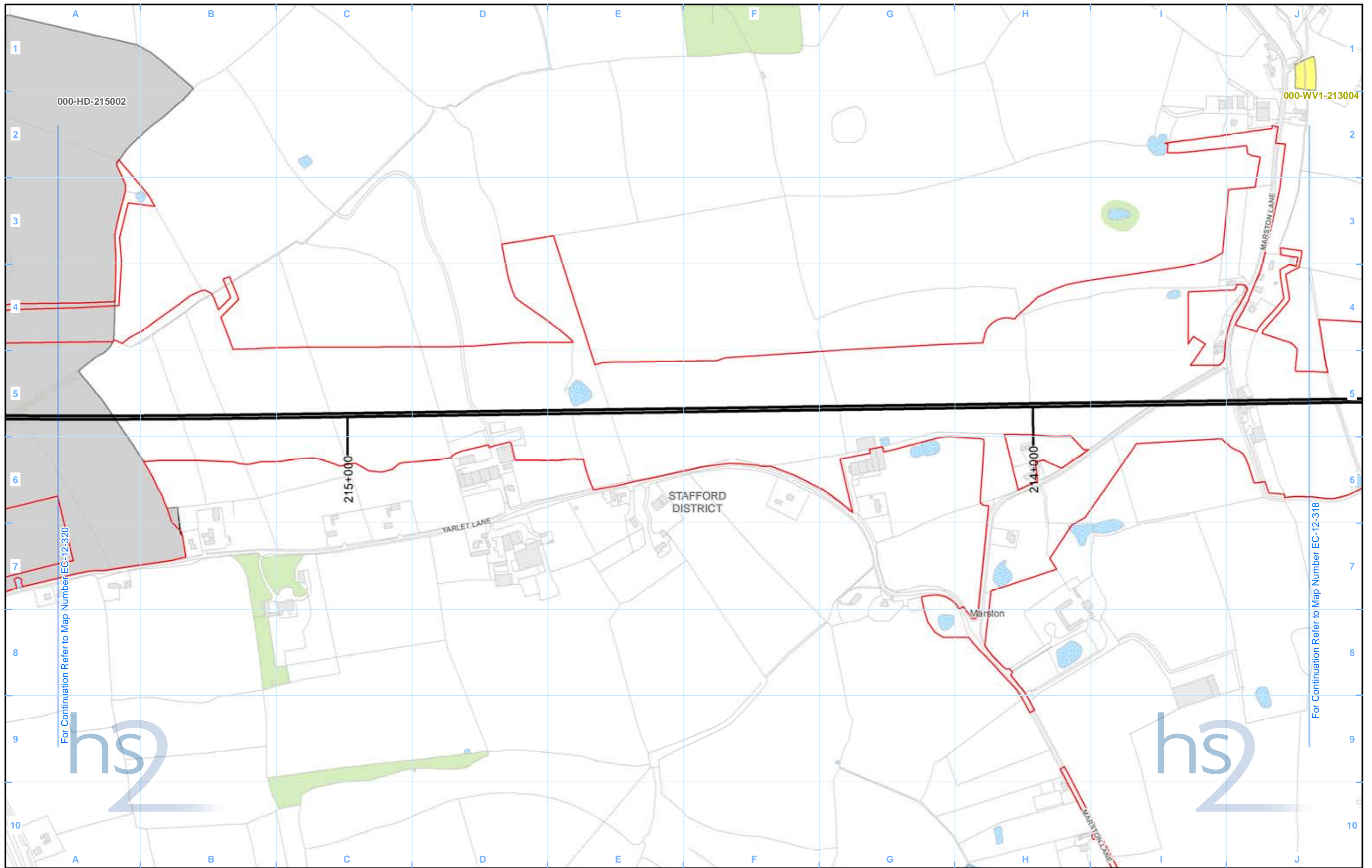
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-319                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |

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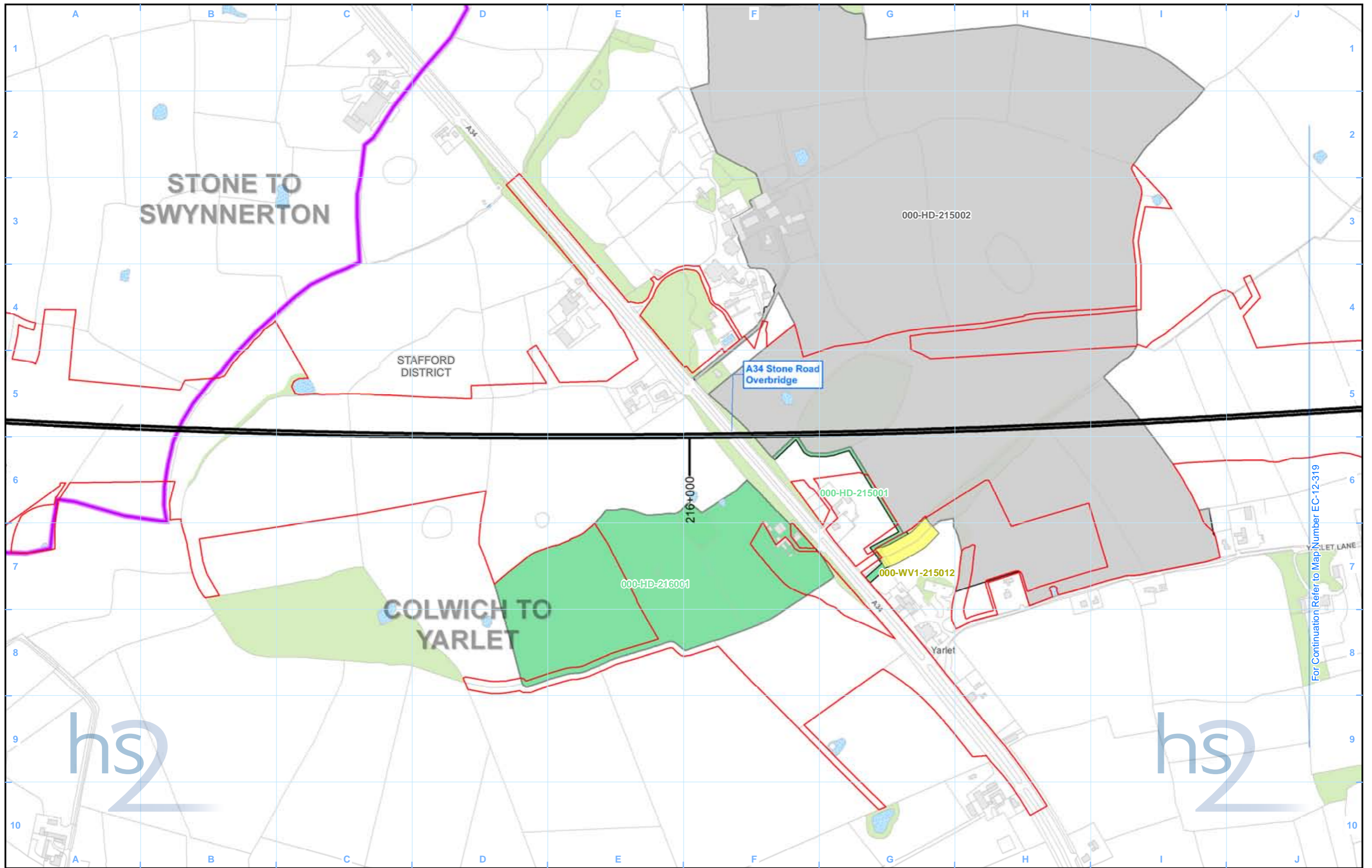
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0 50 100 150 200 Metres

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

|  |   |
|--|---|
| Map Number                             | EC-12-320                               |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |

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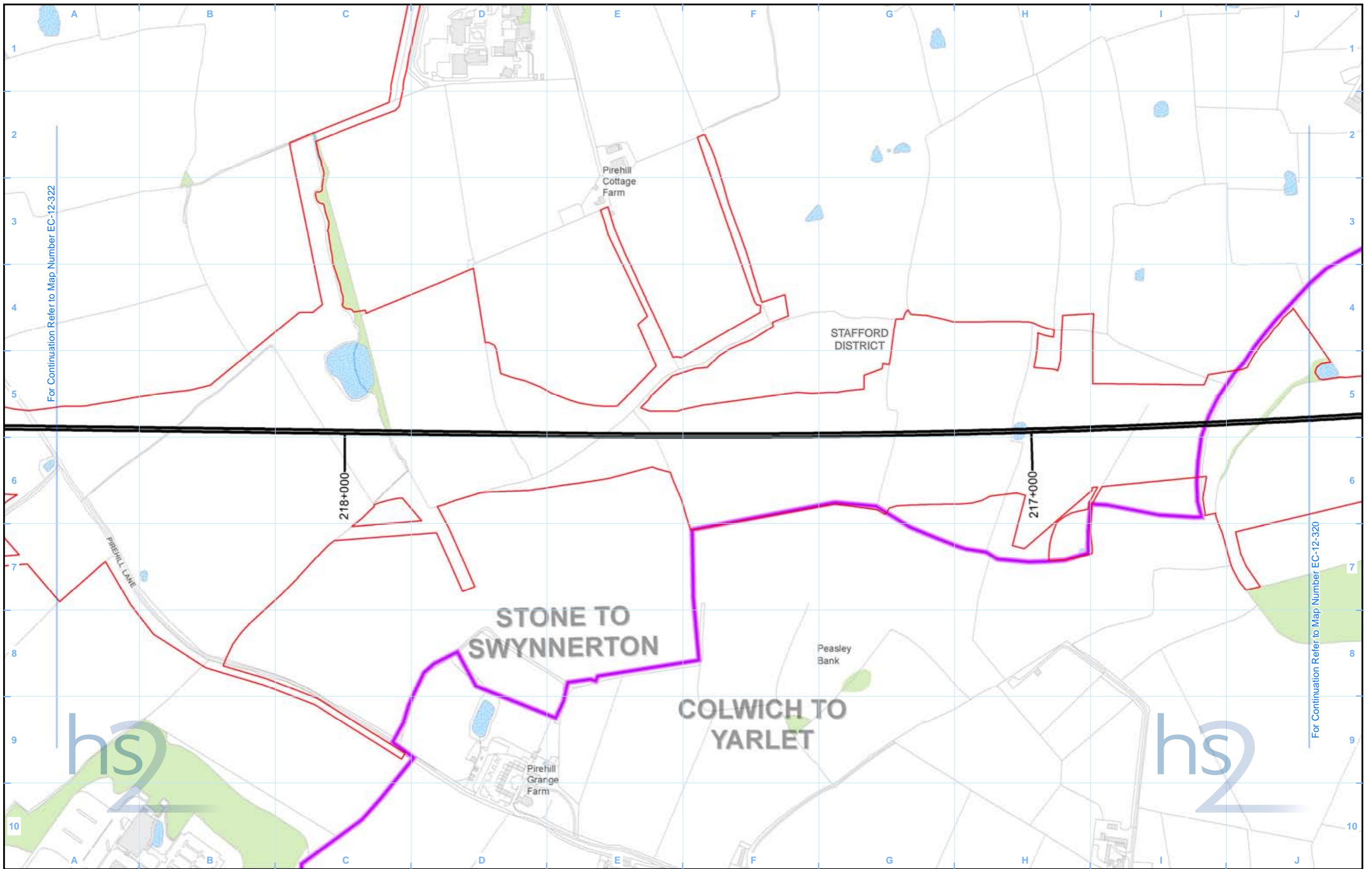
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Date: 14/06/17

For Continuation Refer to Map Number EC-12-319



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

|  |   |
|--|---|
| Map Number                             | EC-12-321a                              |
| Map Name                               | Other Protected and Notable Species (2) |
| Community Area 2:<br>Colwich to Yarlet |   |


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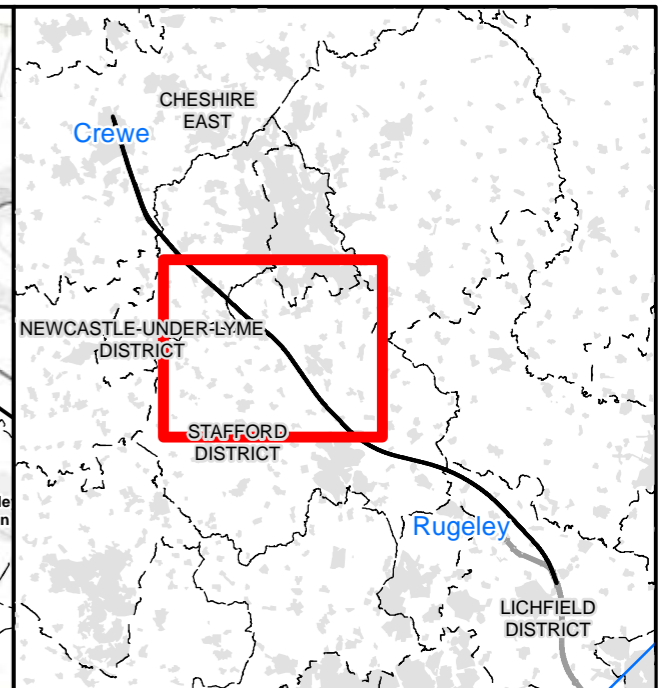
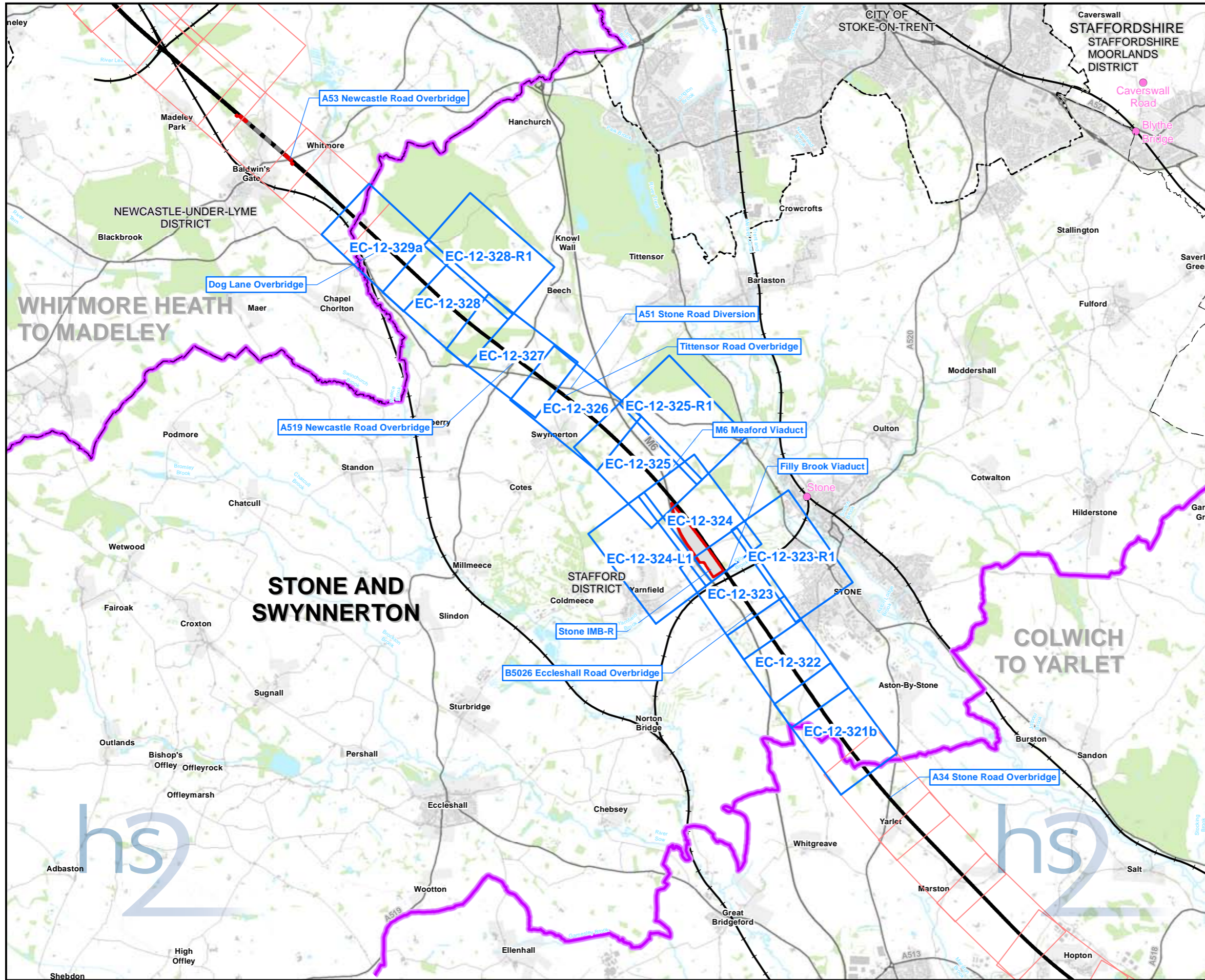
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-082325-P04 Date: 19/06/17



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**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
- 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)

Community Area 3:  
Stone and Swynnerton

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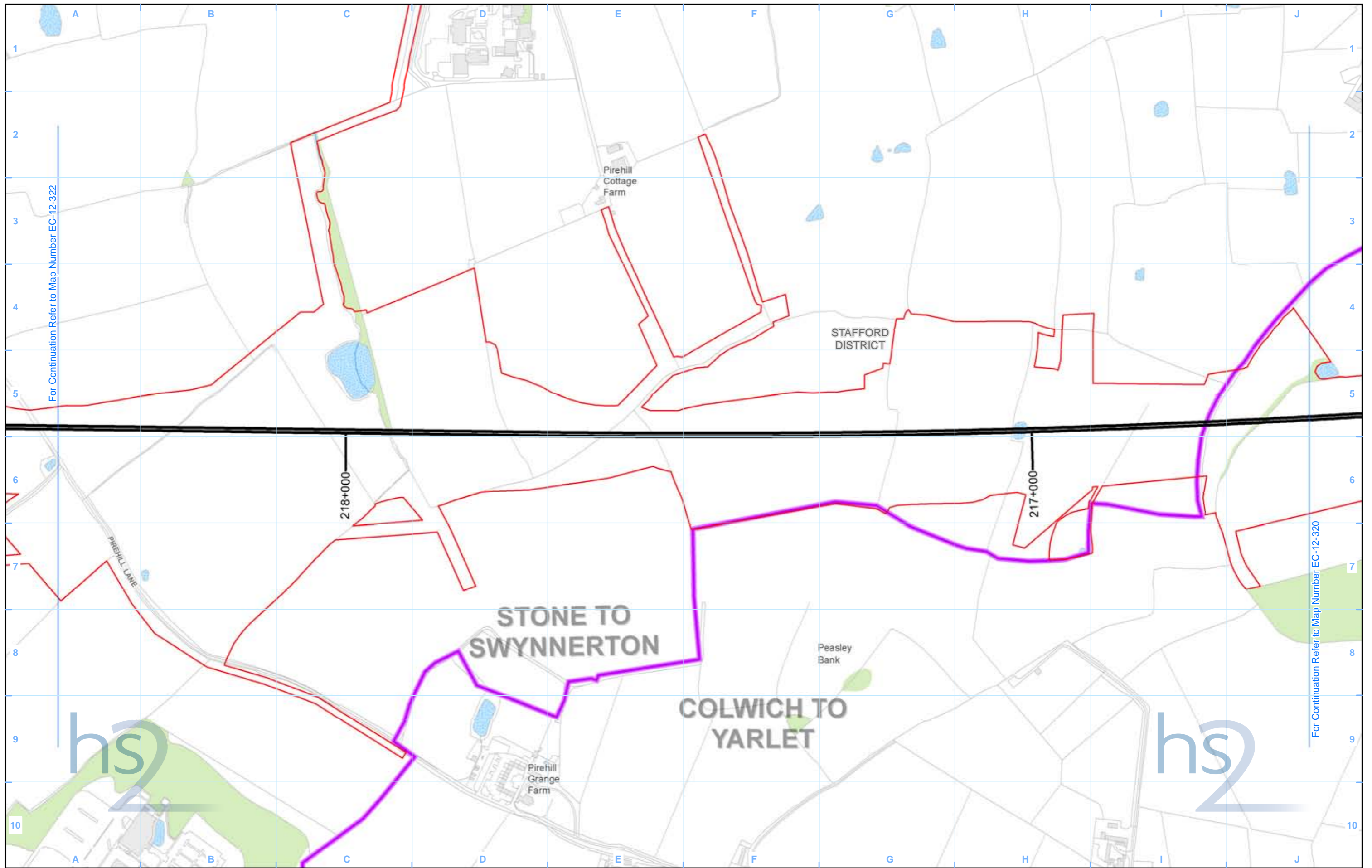
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Date: 14/06/17

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



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

|   |   |
|---|---|
| Map Number                                | EC-12-321b                              |
| Map Name                                  | Other Protected and Notable Species (2) |
| Community Area 3:<br>Stone and Swynnerton |   |


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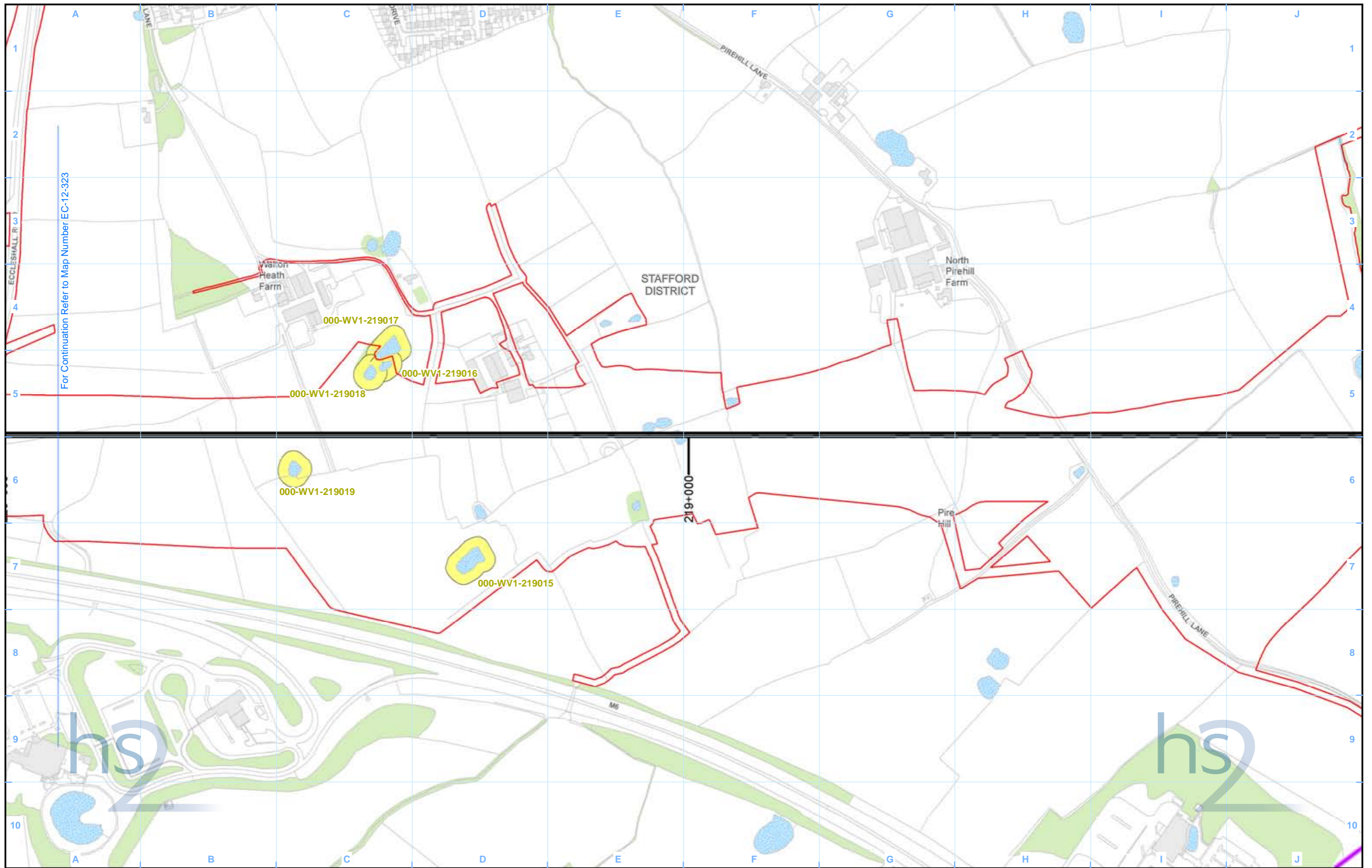
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Doc Number: C861-ARP-EV-MAP-000-082424-P04 Date: 19/06/17



For Continuation Refer to Map Number EC-12-323

219+000

| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-322                               |
| Map Name                                  | Other Protected and Notable Species (2) |
| Community Area 3:<br>Stone and Swynnerton |   |

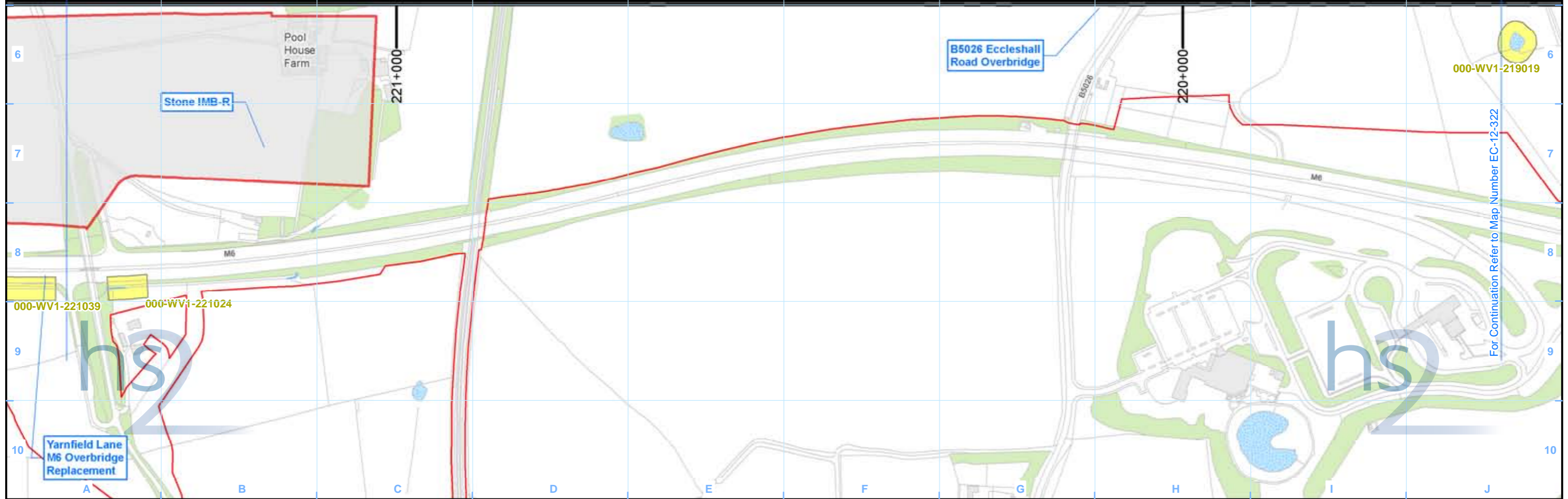
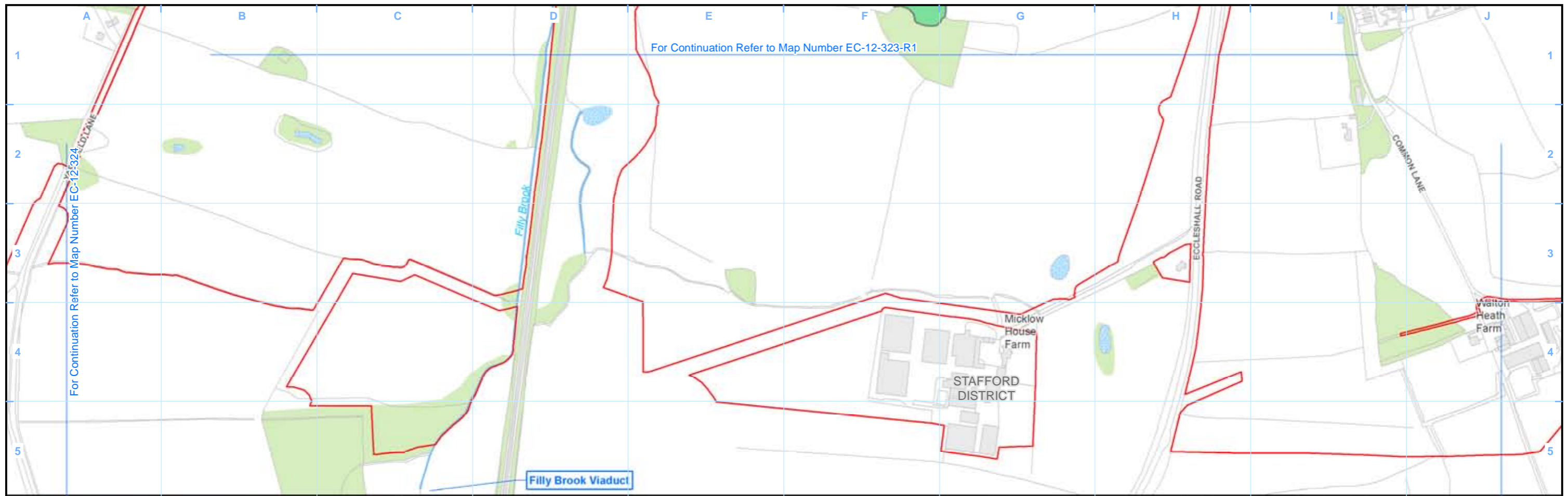
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Date: 14/06/17



**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 (verified by survey)</li> <li>Aquatic invertebrate: <ul style="list-style-type: none"> <li>Aquatic invertebrate survey location</li> </ul> </li> </ul> | <p><b>Water vole:</b></p> <ul style="list-style-type: none"> <li>Water vole survey undertaken – presence confirmed</li> <li>Water vole survey undertaken – assumed absent</li> <li>Watercourse potentially suitable for water vole - no or limited access for survey</li> </ul> | <p><b>Dormouse:</b></p> <ul style="list-style-type: none"> <li>Nest tube survey and/or nut search conducted and presence confirmed</li> <li>Nest tube survey and/or nut search conducted and no signs of dormouse identified</li> <li>Site identified as potentially suitable for dormouse but no access available</li> </ul> |
|--|---|---|---|

|   |   |
|---|---|
| Map Number                                | EC-12-323                               |
| Map Name                                  | Other Protected and Notable Species (2) |
| Community Area 3:<br>Stone and Swynnerton |   |


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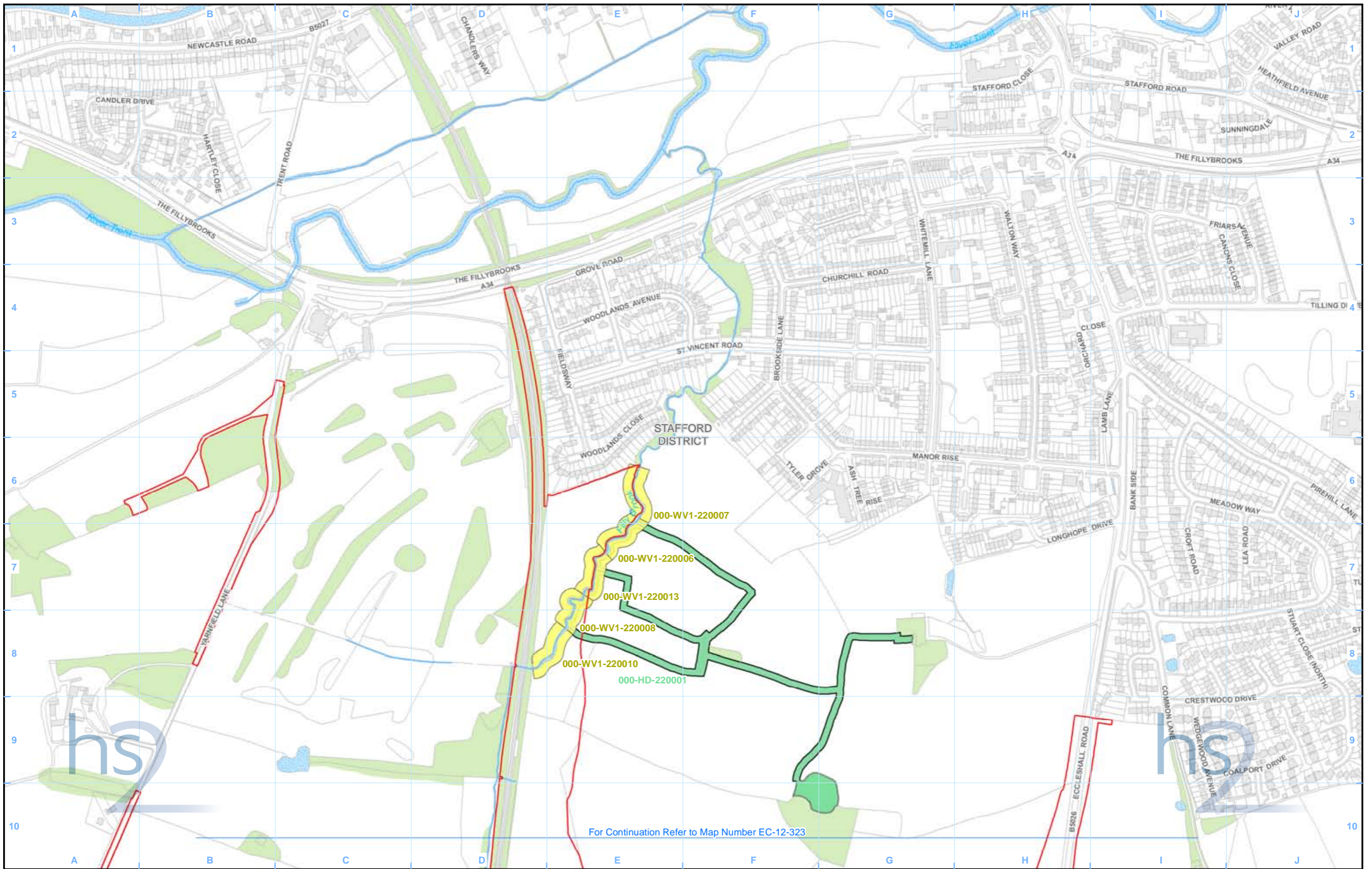
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For Continuation Refer to Map Number EC-12-323

| 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) |
| Community Area 3:<br>Stone and Swynnerton |   |

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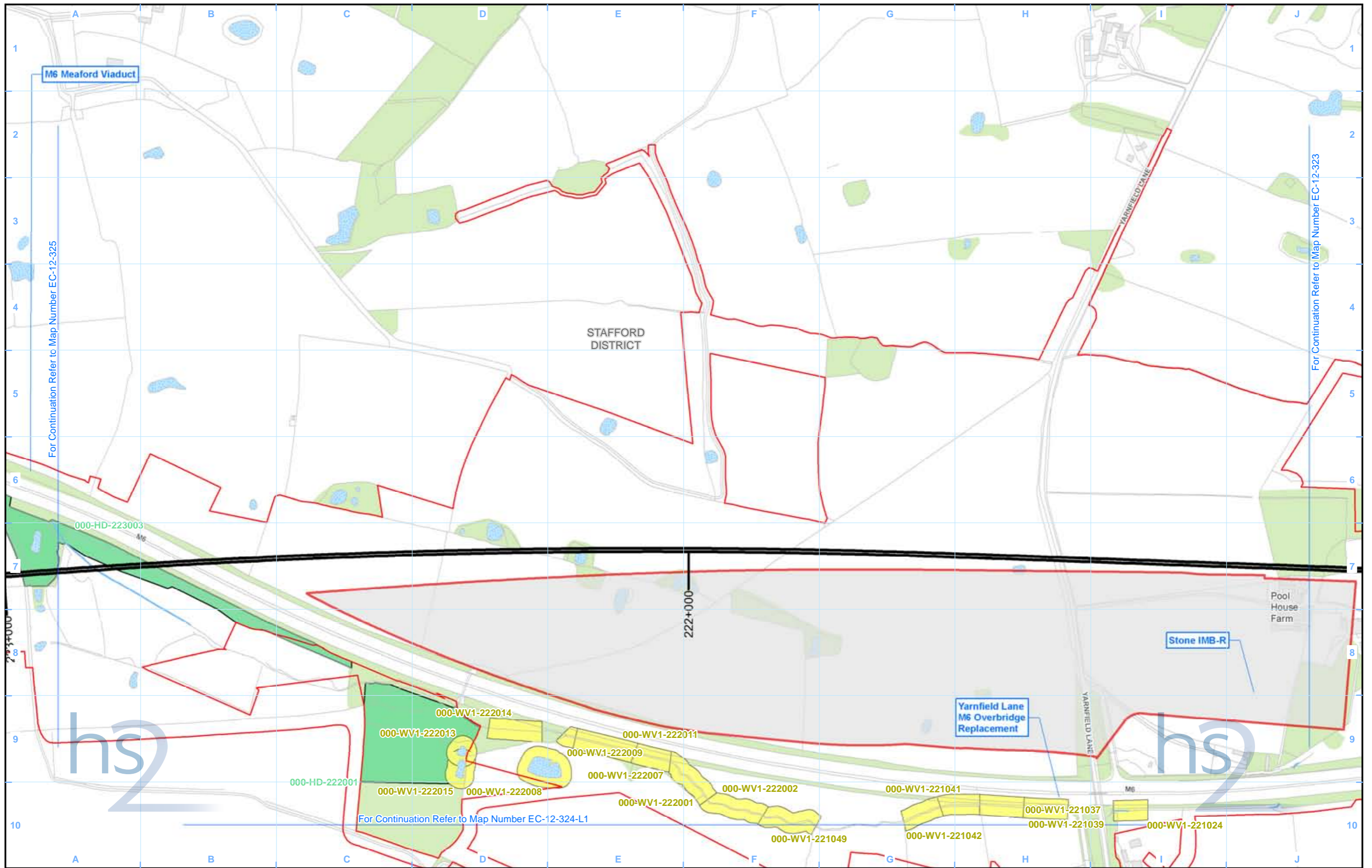
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Date: 14/06/17



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

|            |   |
|------------|---|
| Map Number | EC-12-324                                 |
| Map Name   | Other Protected and Notable Species (2)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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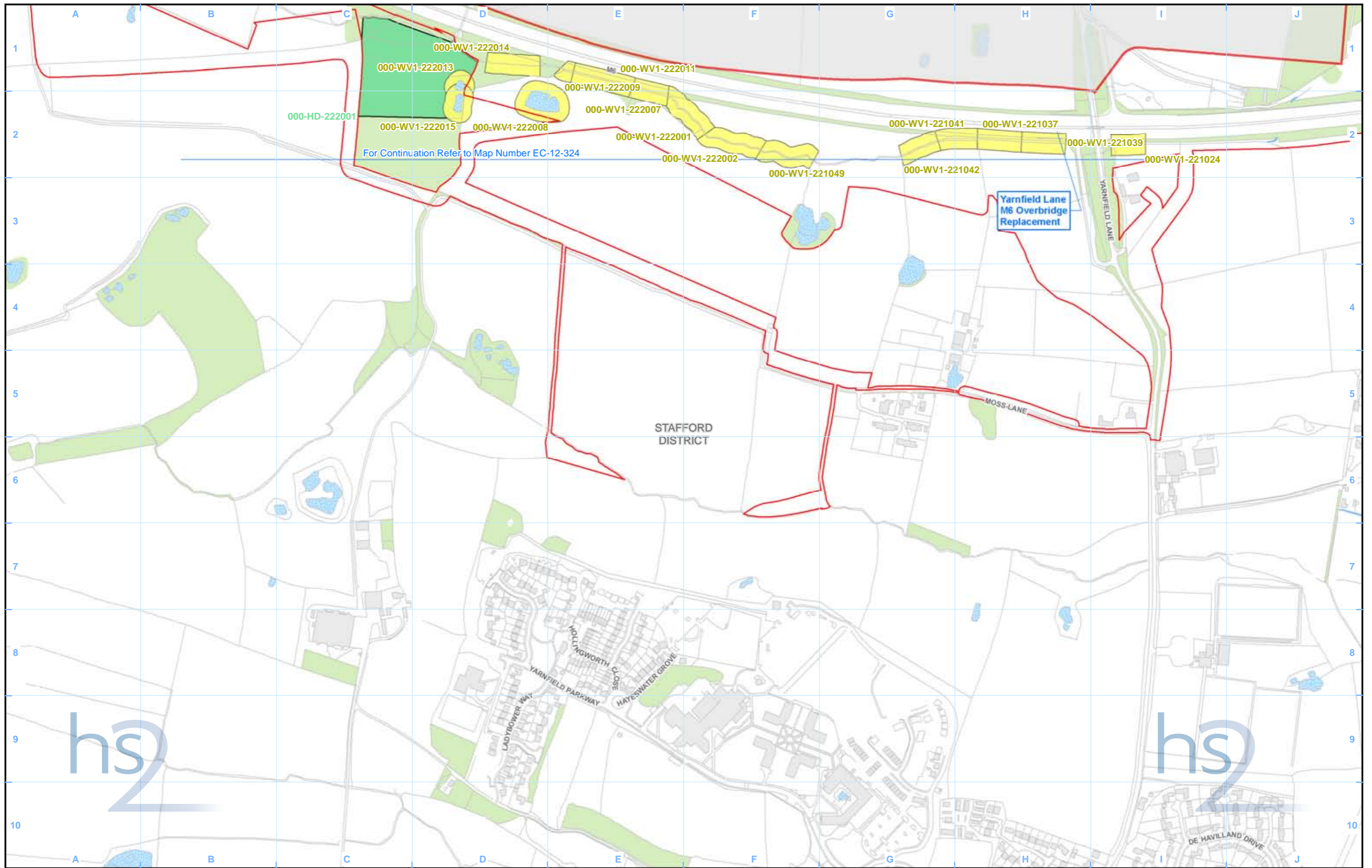
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| Legend  |   |
|---|---|
| Route in bored tunnel                         | Watercourse   |
| Route on surface                              | Water body  |
| Depot, station, headhouse or portal building  | Woodland (verified by survey)   |
| Land potentially required during construction | <b>Aquatic invertebrate:</b>  |
| Community area boundary                       | Aquatic invertebrate survey location  |
| District/Borough boundary                     | <b>Water vole:</b>  |
|   | Water vole survey undertaken – presence confirmed                                 |
|   | Water vole survey undertaken – assumed absent                                     |
|   | Watercourse potentially suitable for water vole - no or limited access for survey |
|   | <b>Dormouse:</b>  |
|   | 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-12-324-L1                              |
| Map Name   | Other Protected and Notable Species (2)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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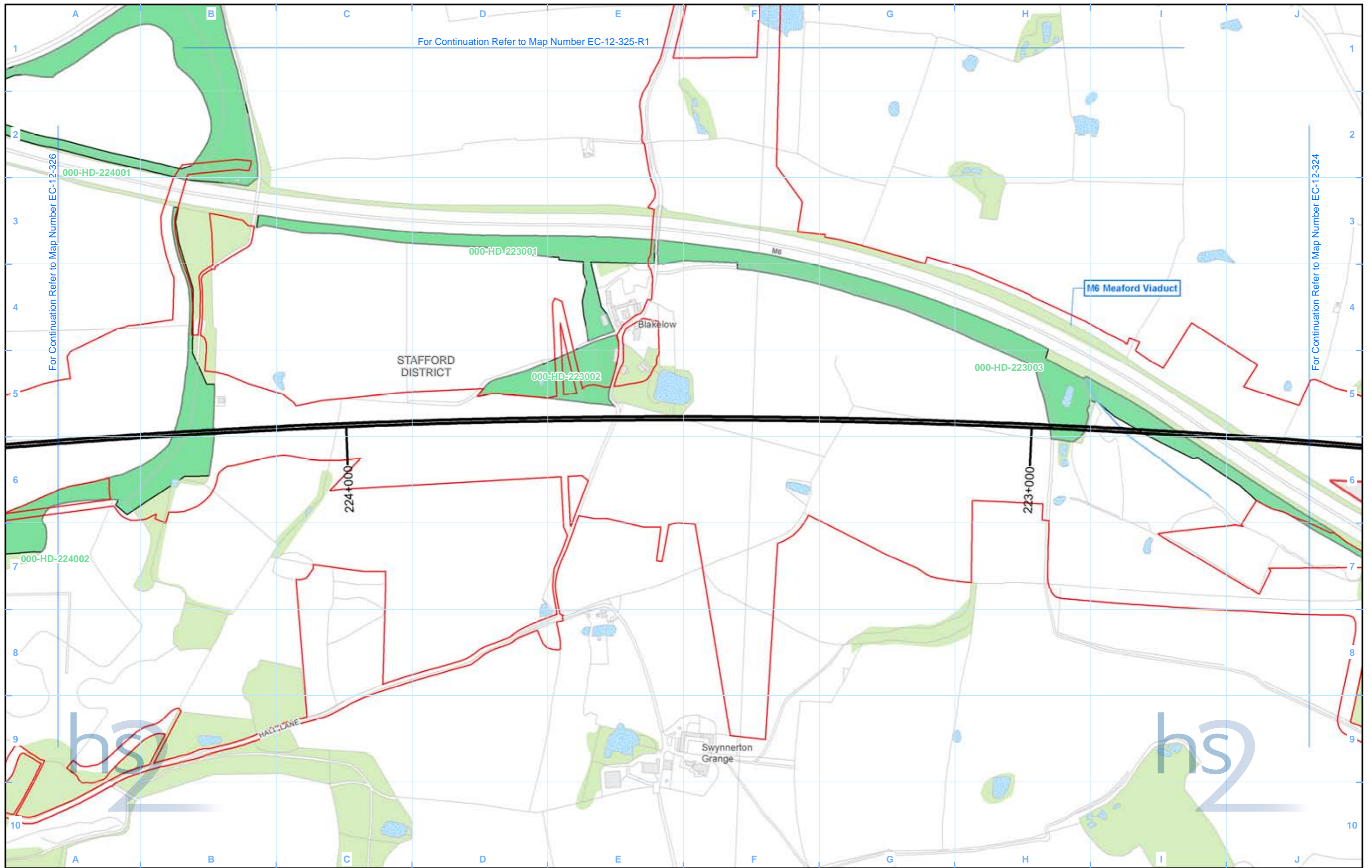
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-325                                 |
| Map Name   | Other Protected and Notable Species (2)   |
|            | Community Area 3:<br>Stone and Swynnerton |

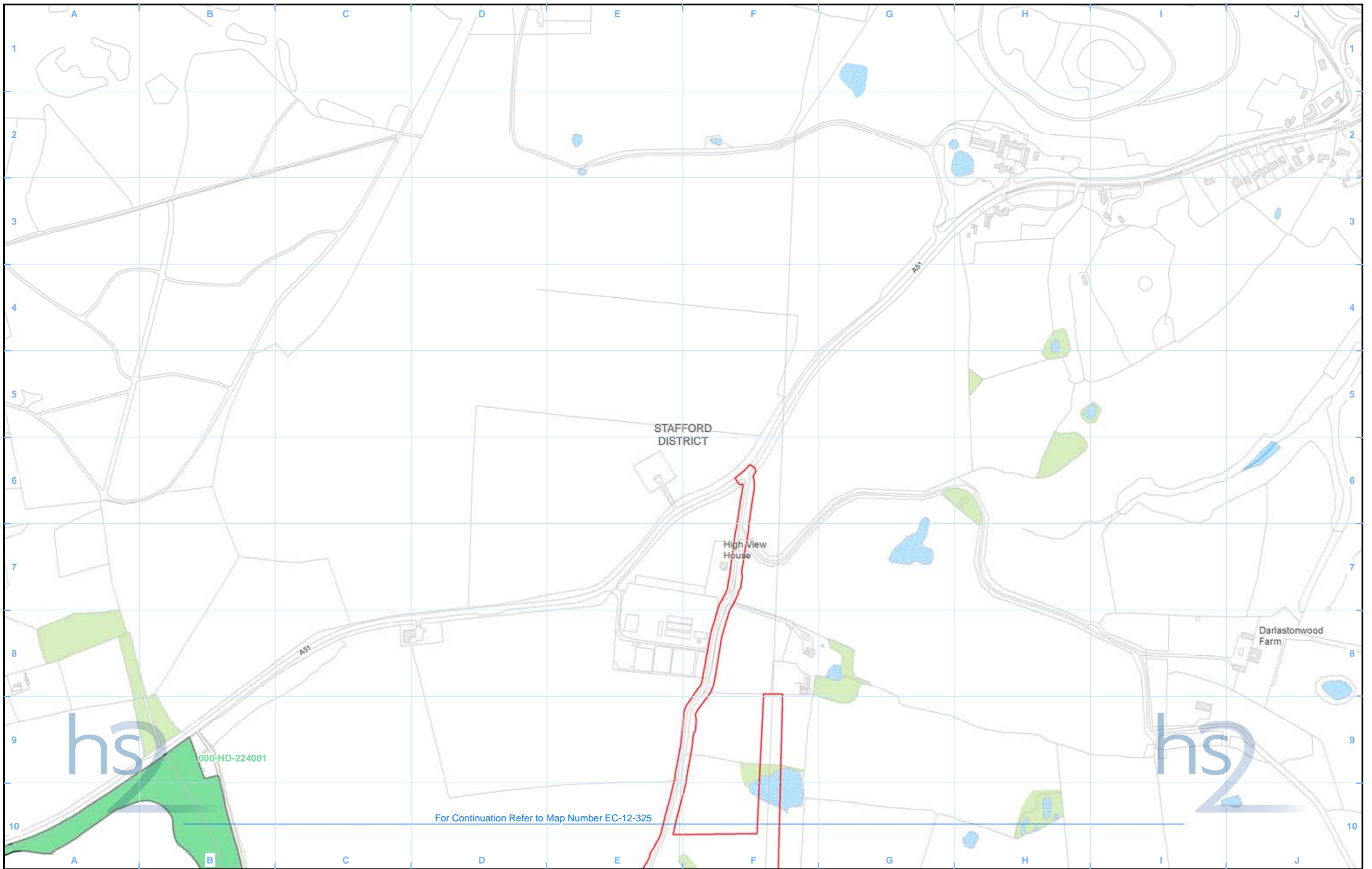
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- Legend**
- Route in bored tunnel
  - Route on surface
  - Depot, station, headhouse or portal building
  - Land potentially required during construction
  - Community area boundary
  - District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- 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-12-325-R1                              |
| Map Name   | Other Protected and Notable Species (2)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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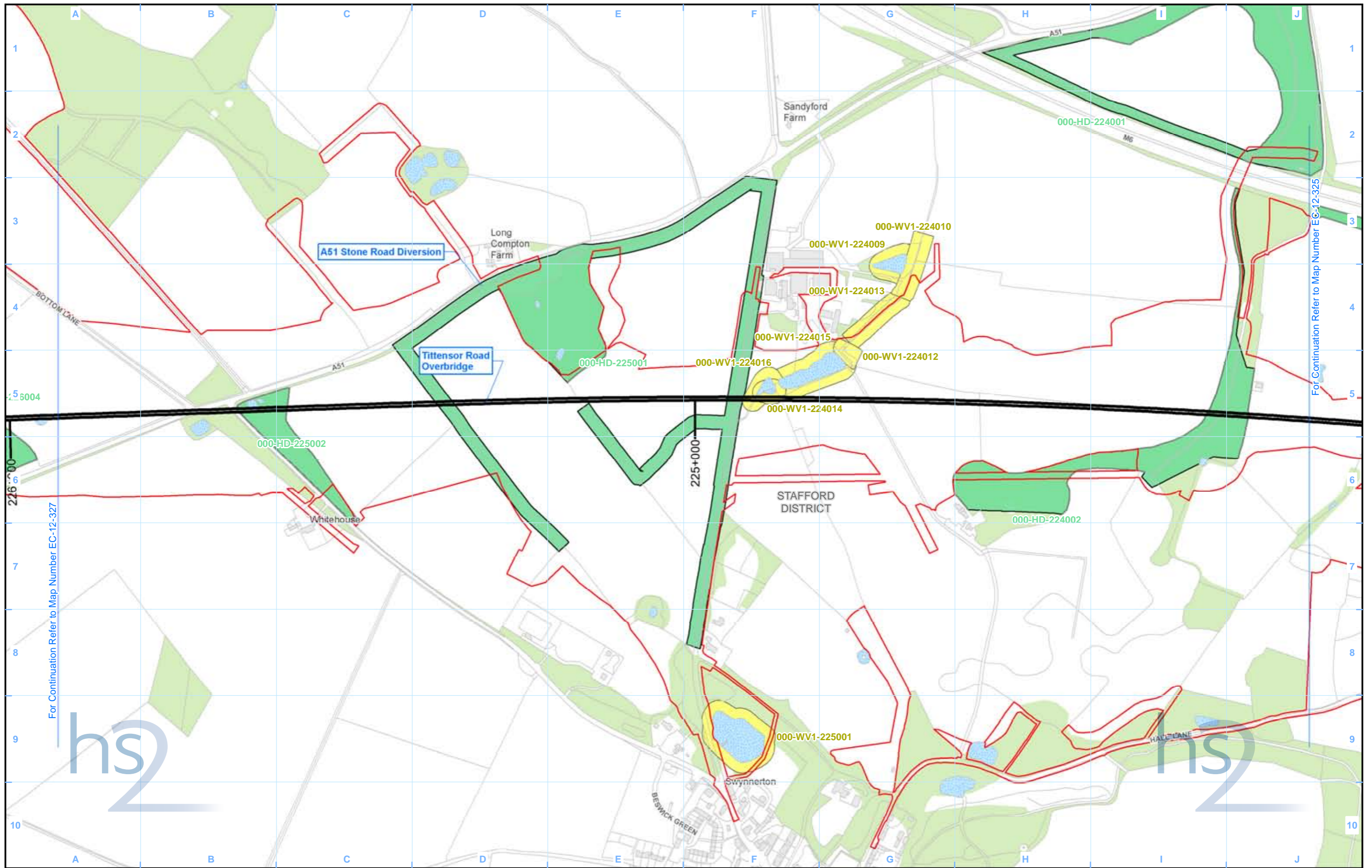
**Doc Number:** C861-ARP-EV-MAP-000-082320-P03

Scale at A3: 1:5,000

Metres

**Date:** 14/06/17

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

|            |   |
|------------|---|
| Map Number | EC-12-326                                 |
| Map Name   | Other Protected and Notable Species (2)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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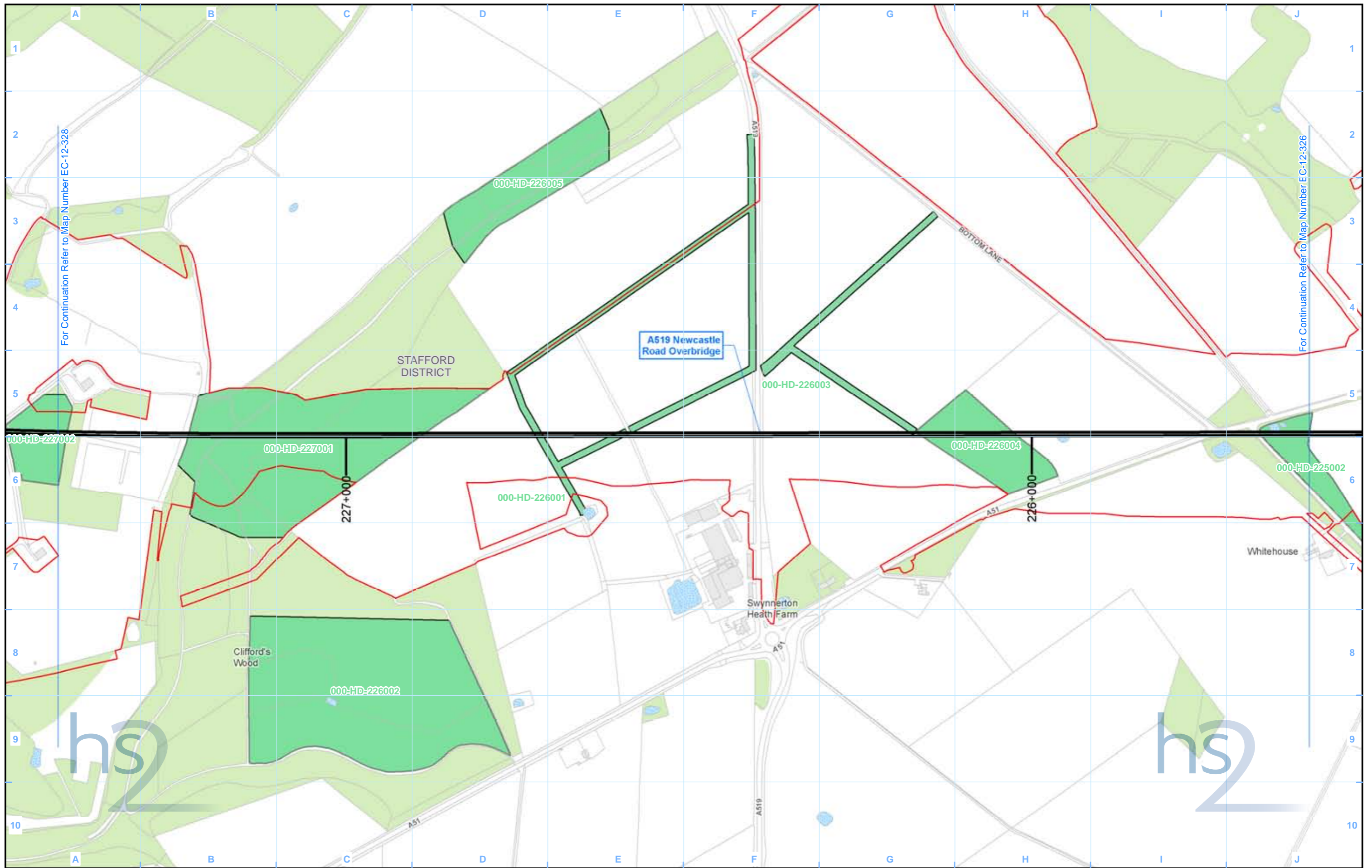
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0 50 100 150 200 Metres

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

|            |   |
|------------|---|
| Map Number | EC-12-327                                 |
| Map Name   | Other Protected and Notable Species (2)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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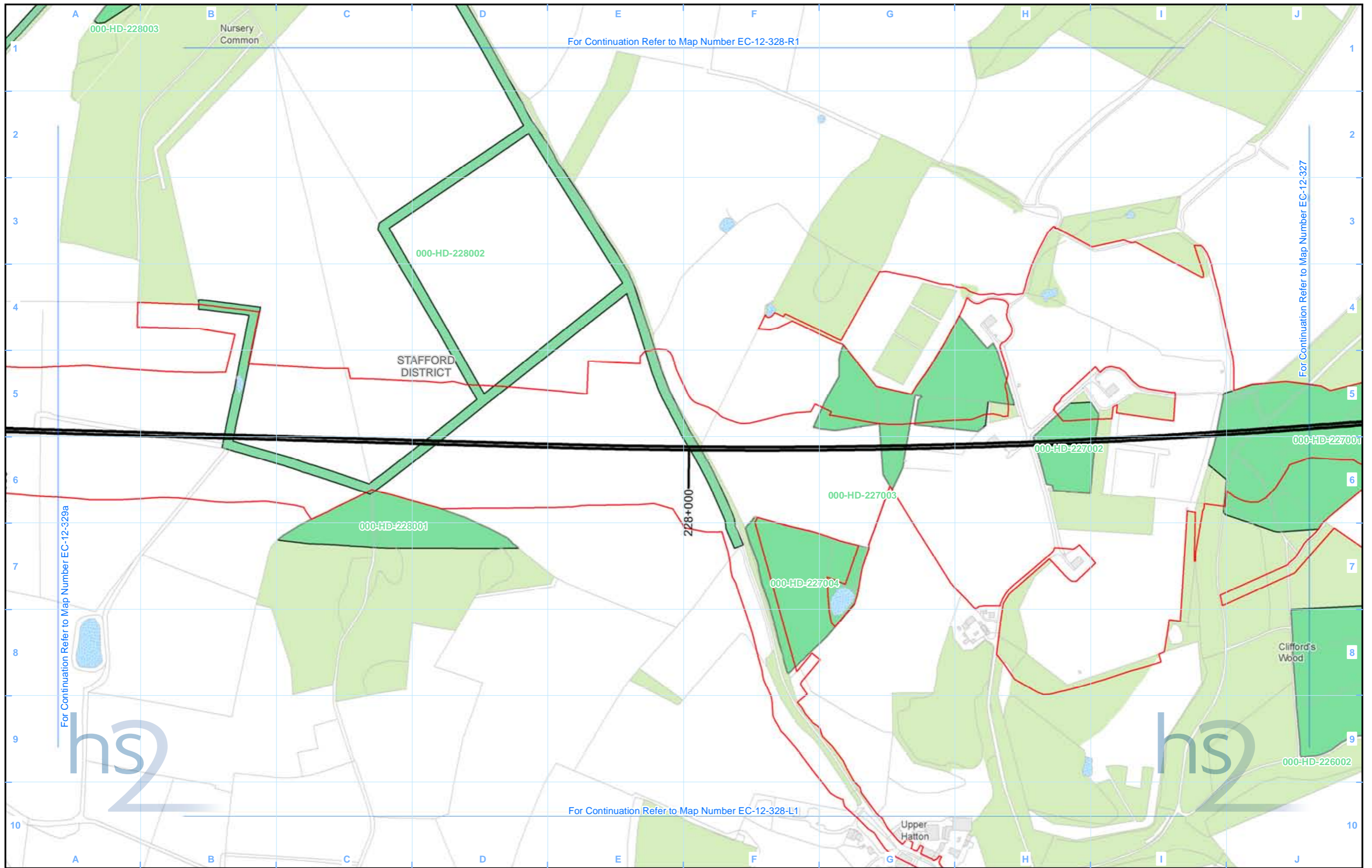
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| Legend |                              |                    |                  |
|--------|------------------------------|--------------------|------------------|
|        |                              | <b>Water vole:</b> | <b>Dormouse:</b> |
|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

|            |   |
|------------|---|
| Map Number | EC-12-328                                 |
| Map Name   | Other Protected and Notable Species (2)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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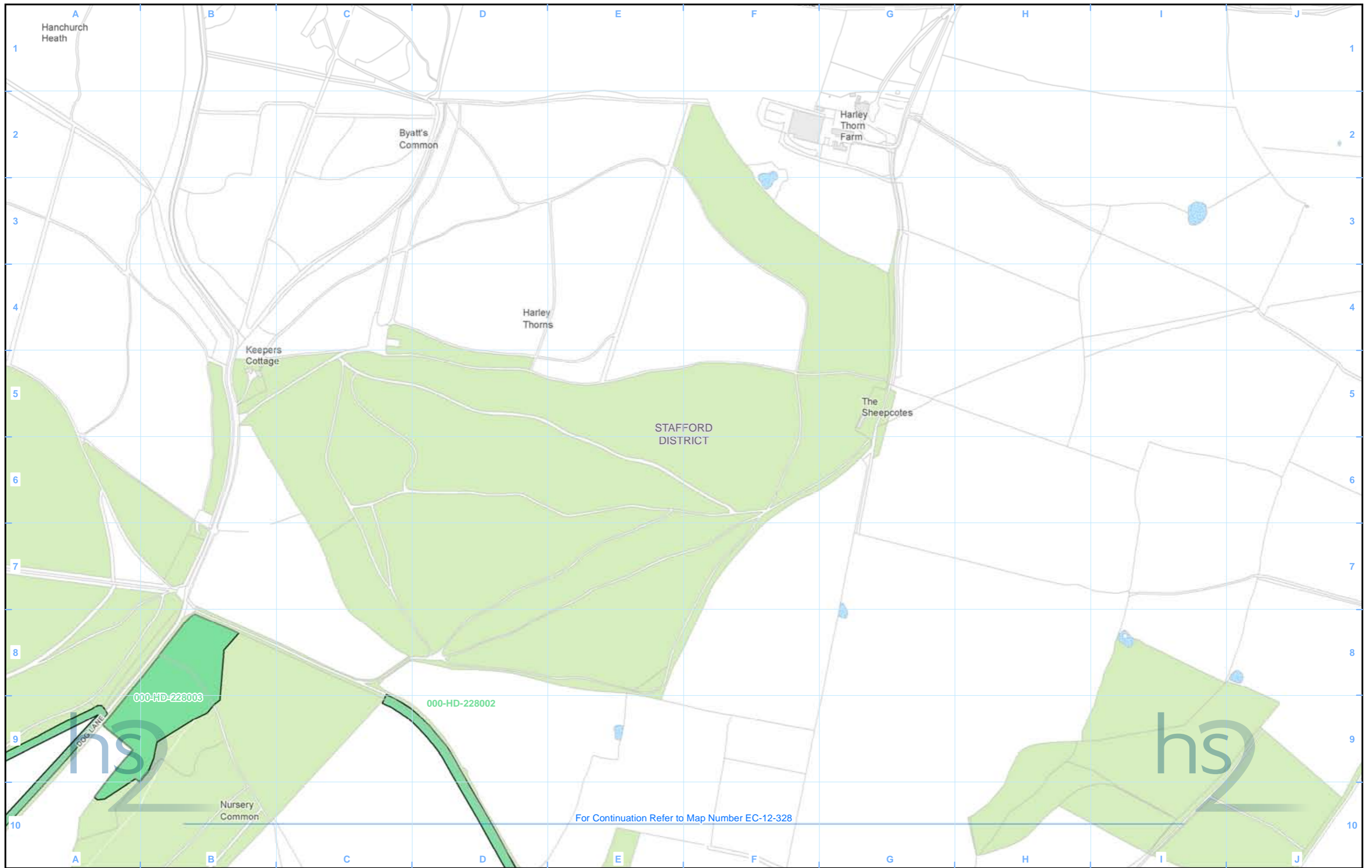
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0 50 100 150 200 Metres

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

|   |   |
|---|---|
| Map Number                                | EC-12-328-R1                            |
| Map Name                                  | Other Protected and Notable Species (2) |
| Community Area 3:<br>Stone and Swynnerton |   |

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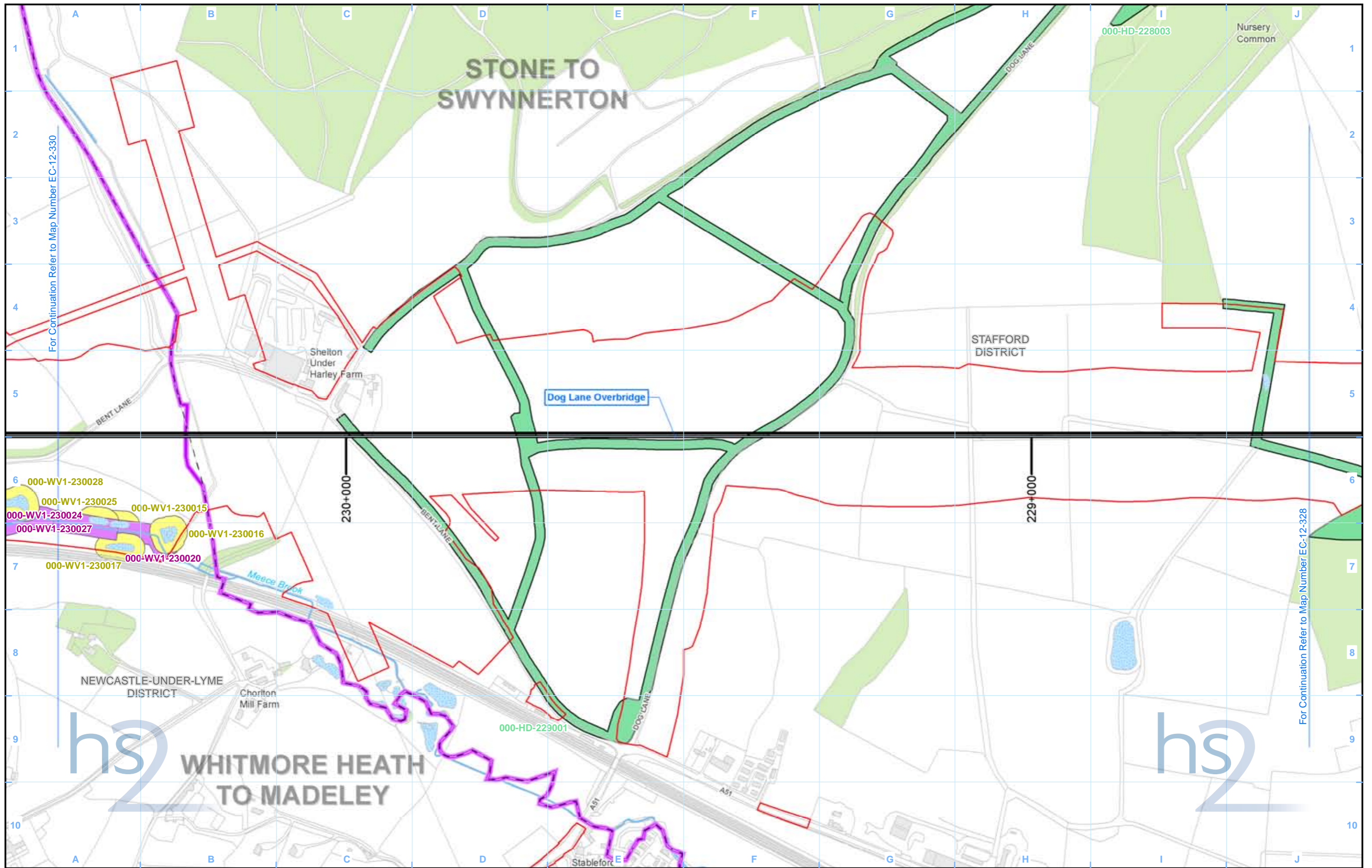
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-329a                                |
| Map Name   | Other Protected and Notable Species (2)   |
|            | Community Area 3:<br>Stone and Swynnerton |

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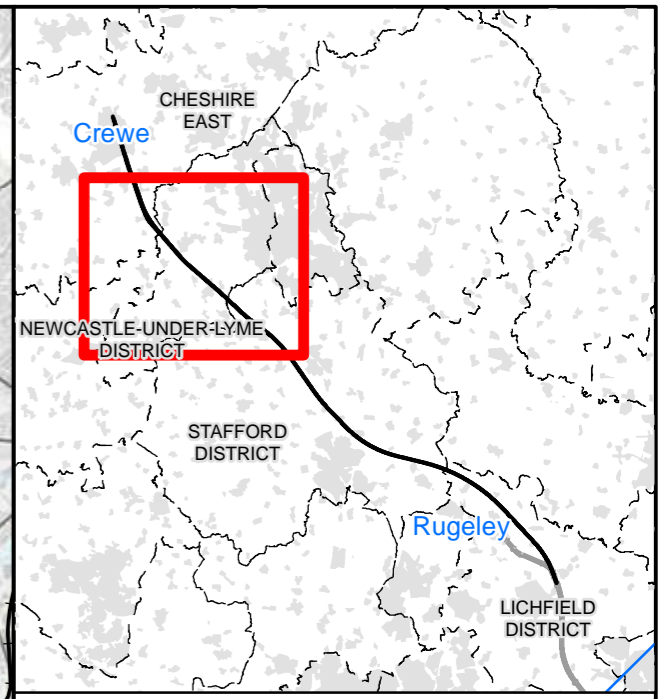
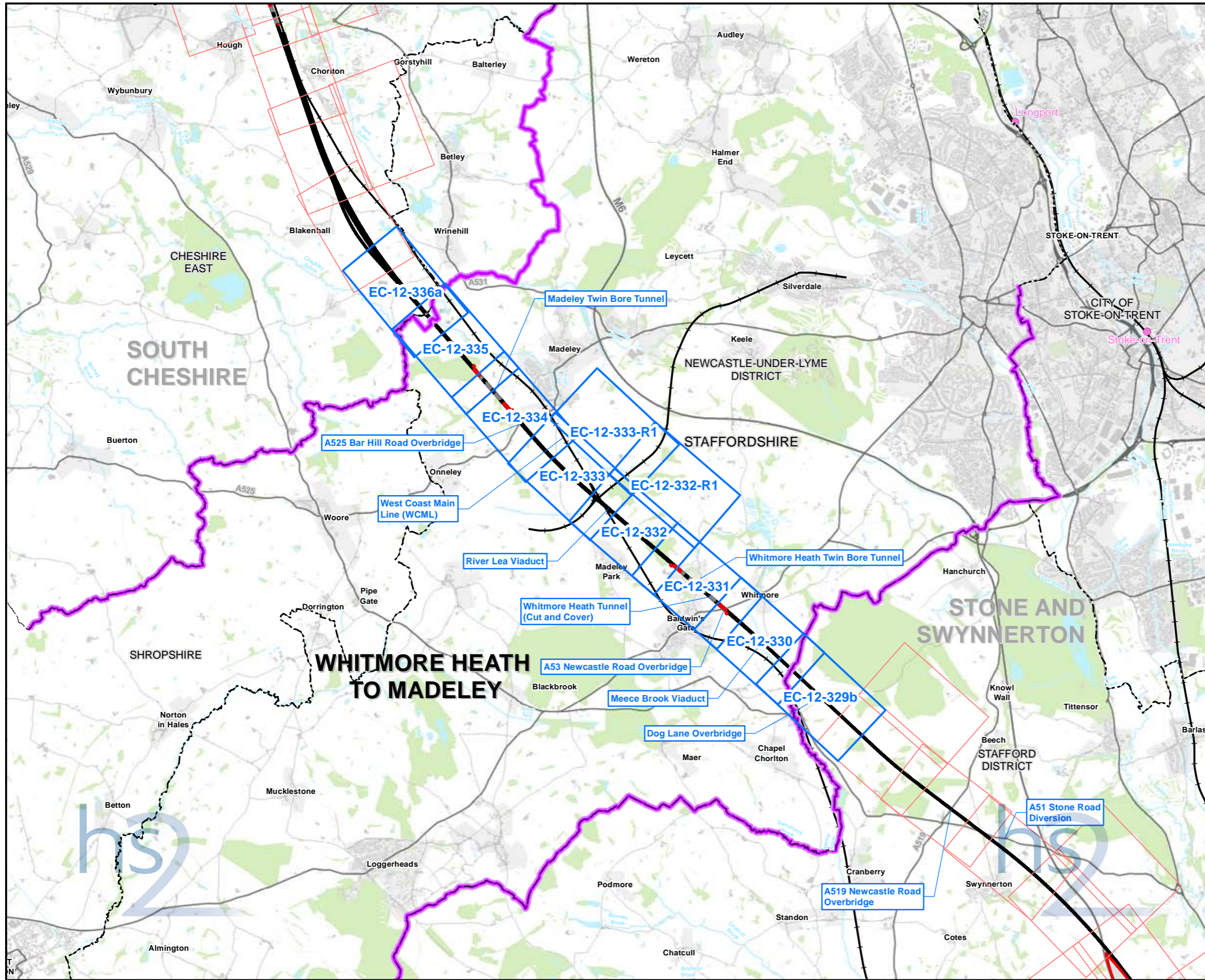
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Date: 14/06/17



**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
- 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)

Community Area 4:  
Whitmore Heath to Madeley

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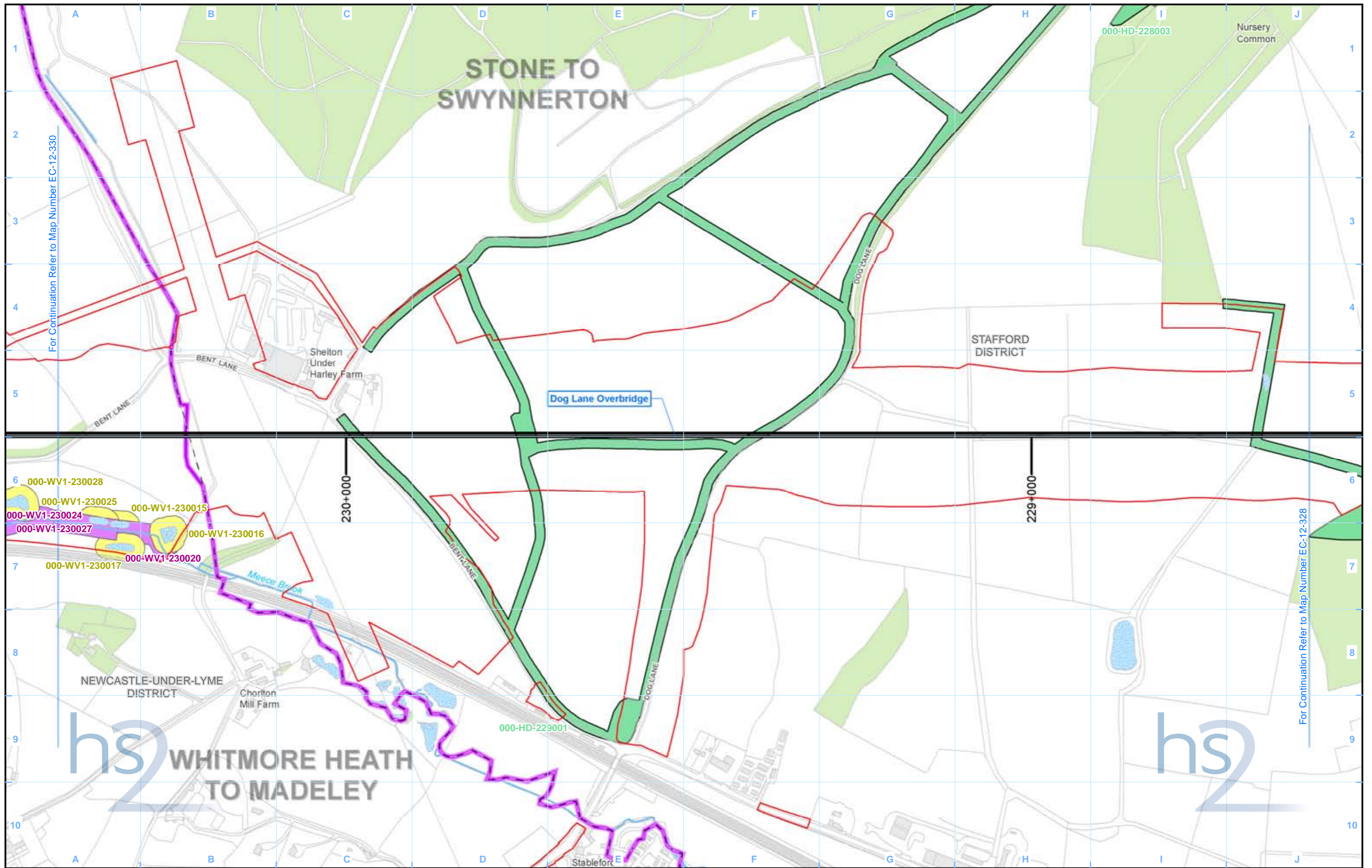
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0 700 1,400 2,100 2,800 Metres

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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-329b                              |
| Map Name                                       | Other Protected and Notable Species (2) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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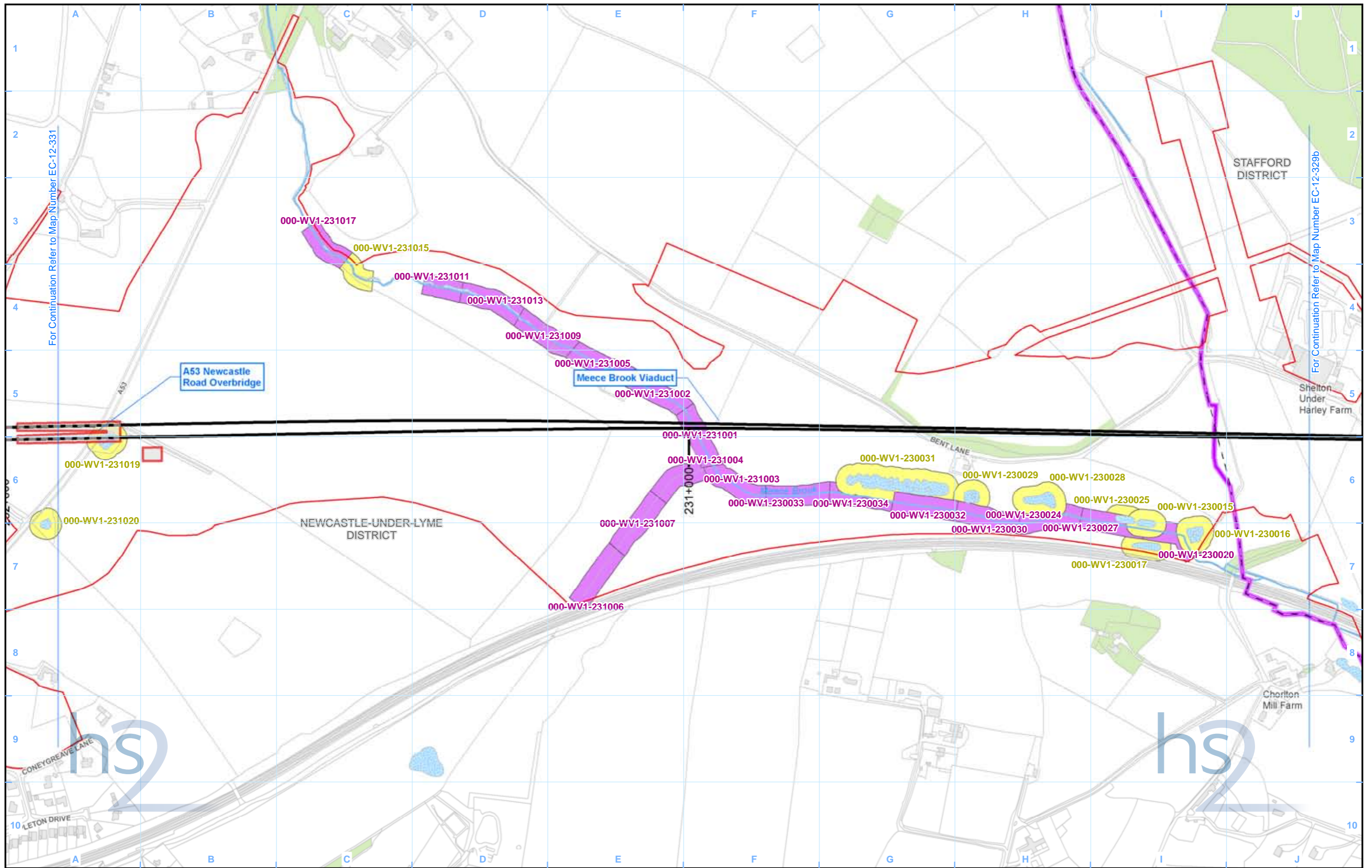
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Date: 14/06/17



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

|  |   |
|--|---|
| Map Number                                     | EC-12-330                               |
| Map Name                                       | Other Protected and Notable Species (2) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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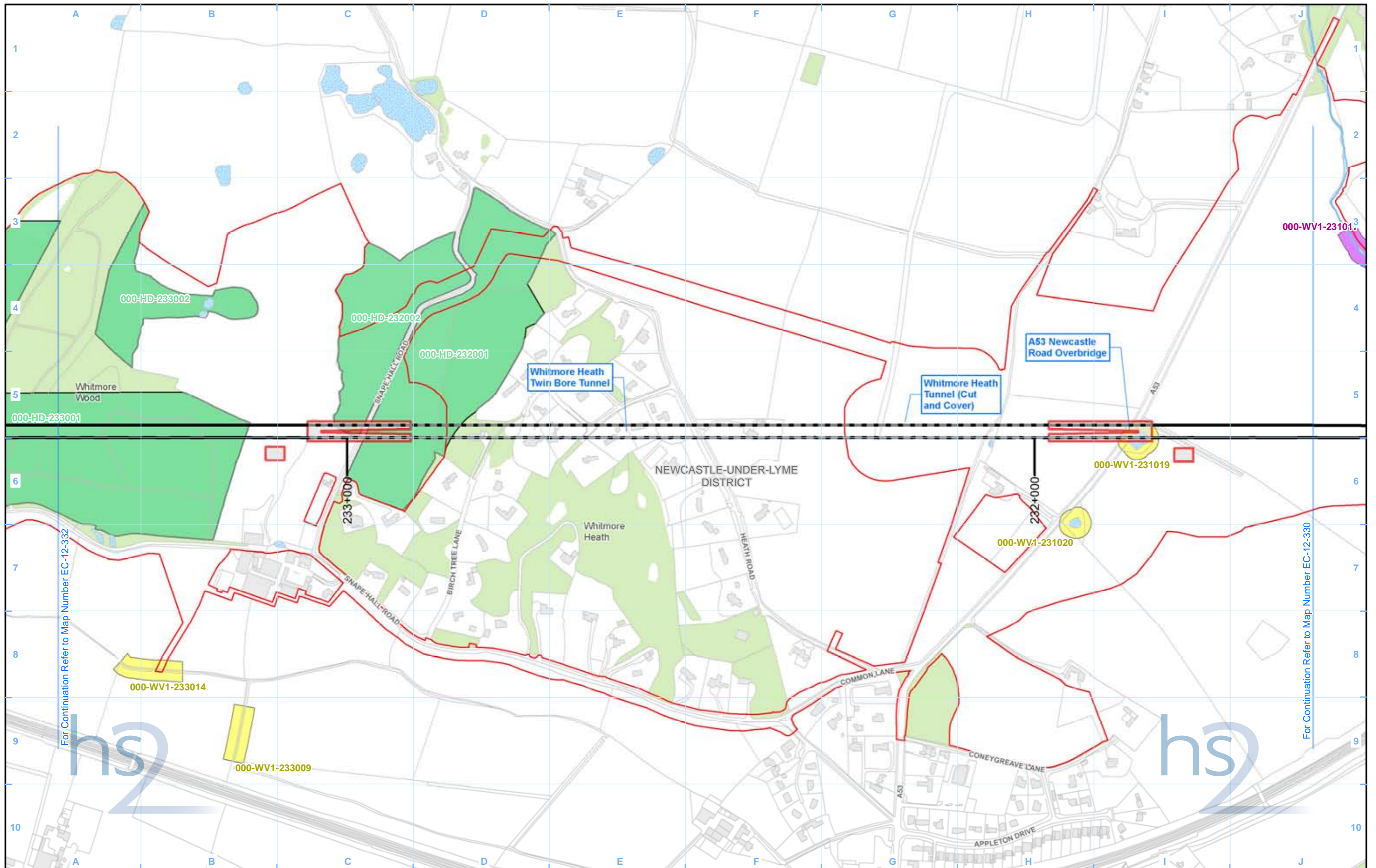
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| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-331                                      |
| Map Name   | Other Protected and Notable Species (2)        |
|            | Community Area 4:<br>Whitmore Heath to Madeley |




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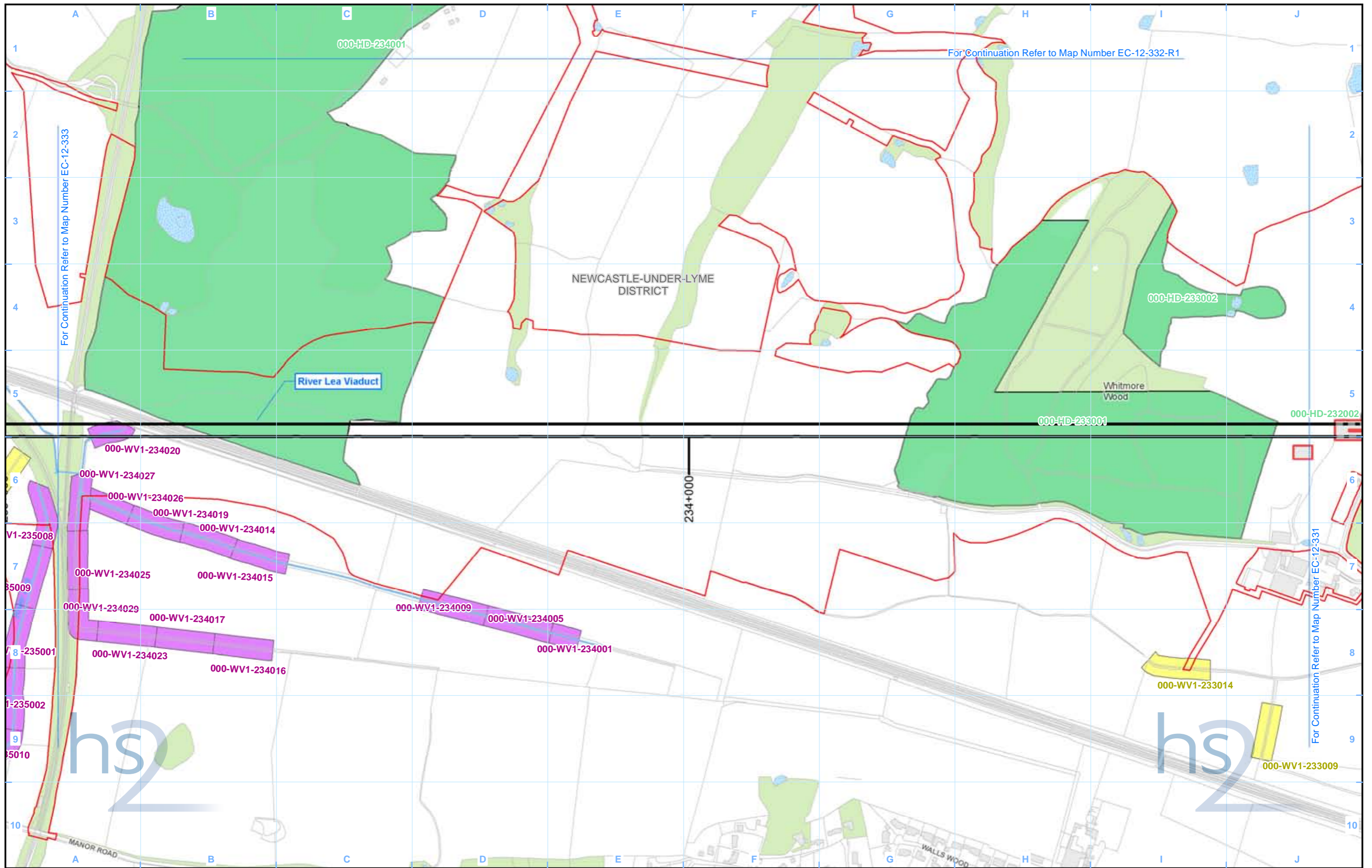


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Metres

Date: 14/06/17



For Continuation Refer to Map Number EC-12-333

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

For Continuation Refer to Map Number EC-12-331

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

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- 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-12-332                               |
| Map Name                                       | Other Protected and Notable Species (2) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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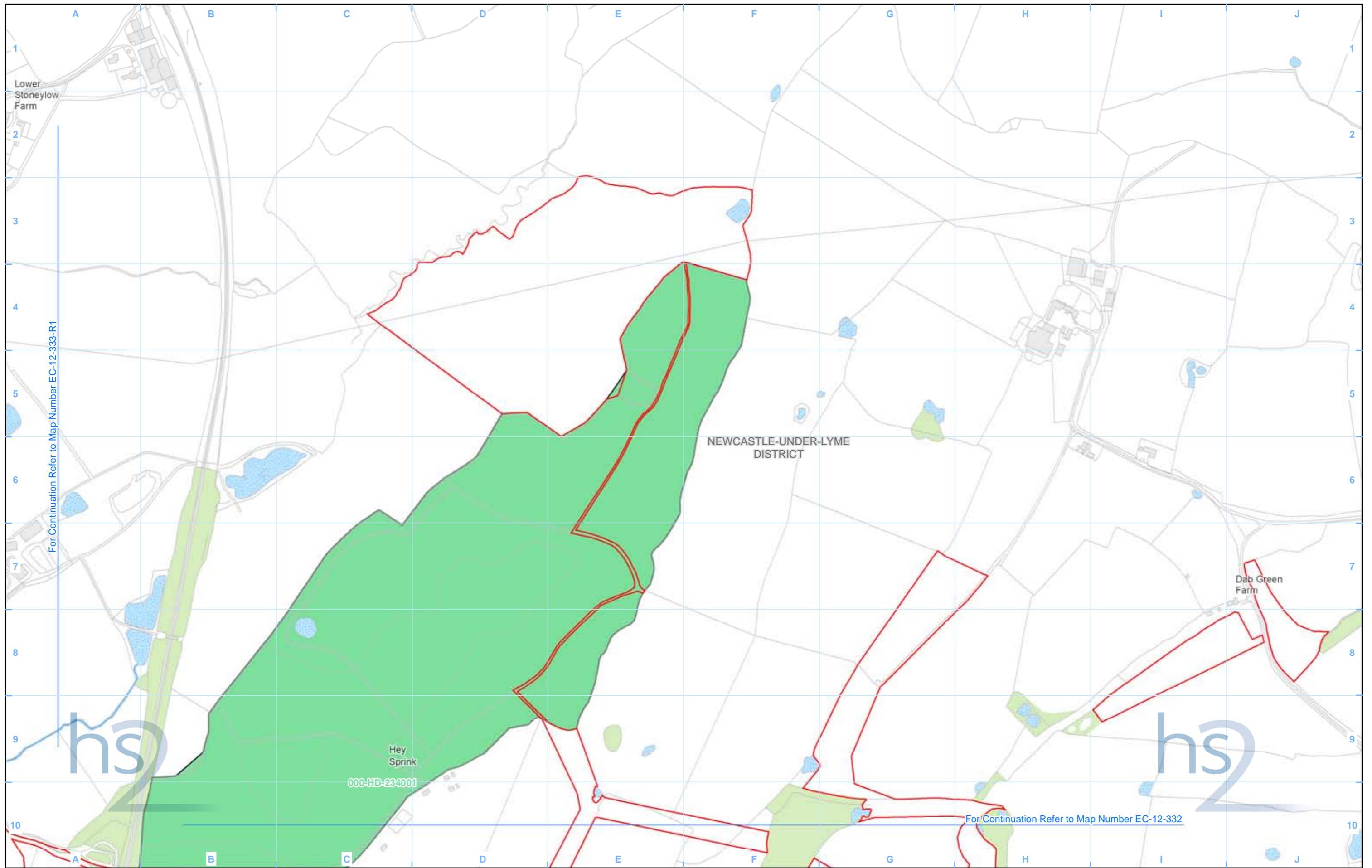
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Metres

**Date:** 14/06/17



For Continuation Refer to Map Number EC-12-333-R1

For Continuation Refer to Map Number EC-12-332

| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-332-R1                                   |
| Map Name   | Other Protected and Notable Species (2)        |
|            | Community Area 4:<br>Whitmore Heath to Madeley |

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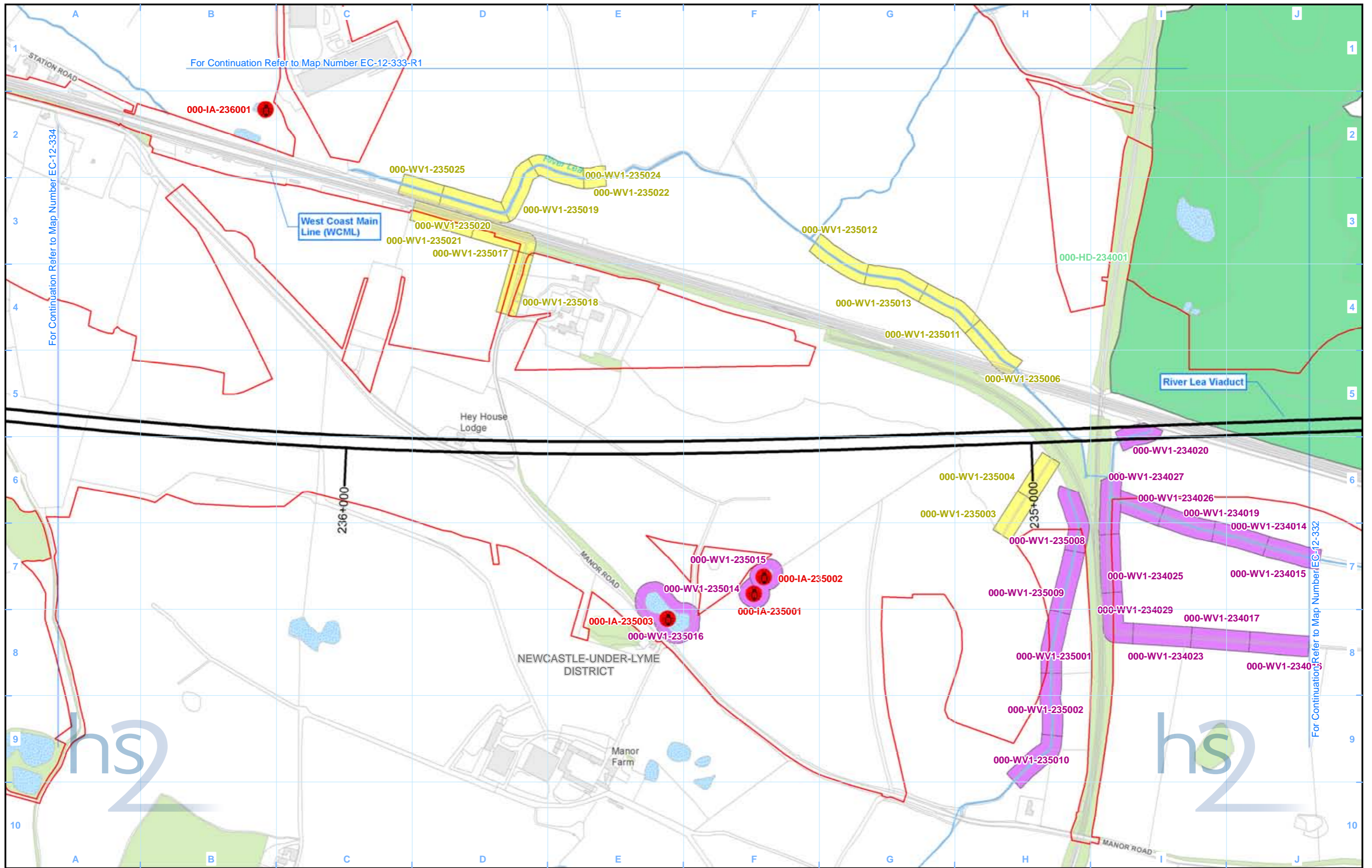
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For Continuation Refer to Map Number EC-12-334

For Continuation Refer to Map Number EC-12-332

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

|  |   |
|--|---|
| Map Number                                     | EC-12-333                               |
| Map Name                                       | Other Protected and Notable Species (2) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

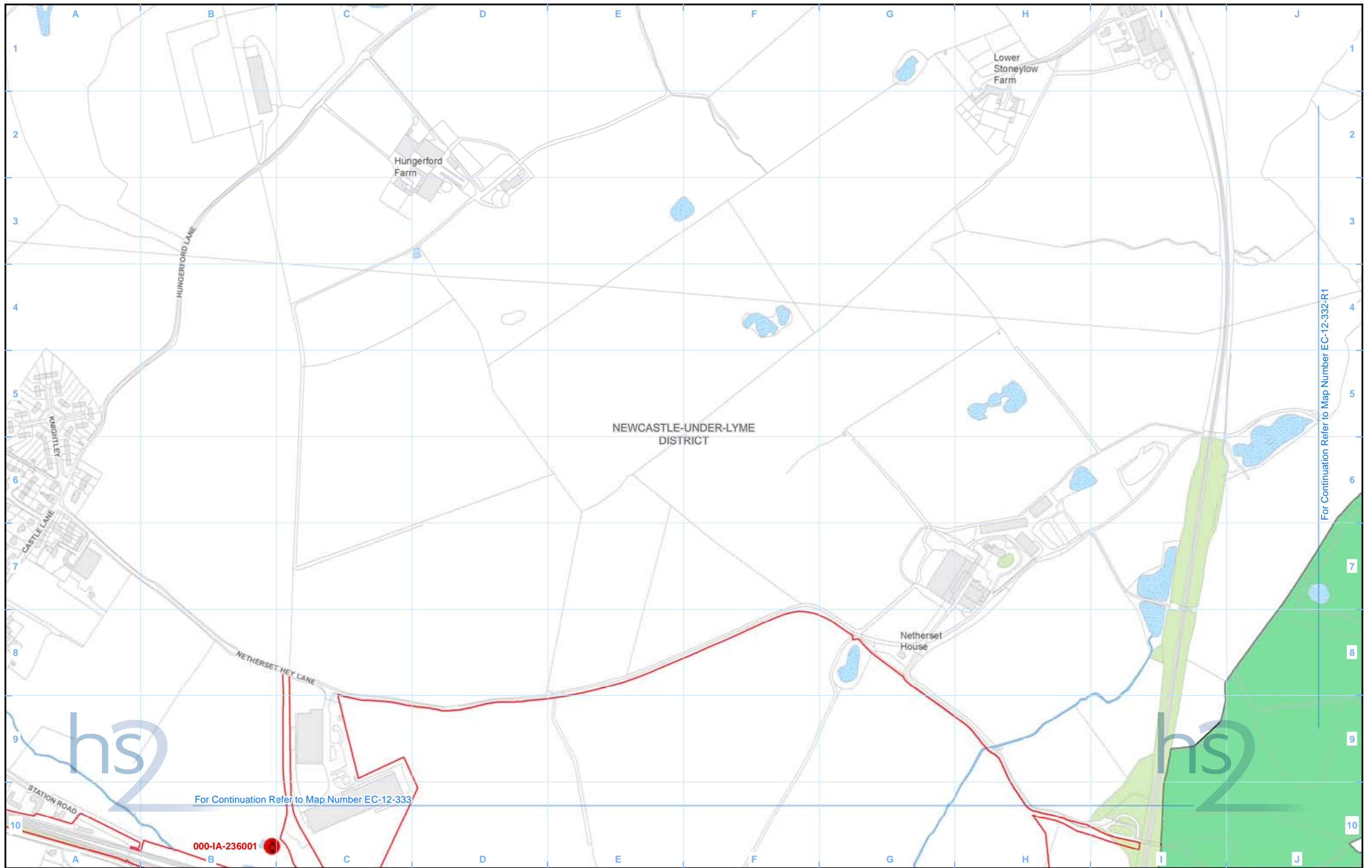
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For Continuation Refer to Map Number EC-12-332-R1

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

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:
  - Aquatic invertebrate survey location

- 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-12-333-R1                            |
| Map Name                                       | Other Protected and Notable Species (2) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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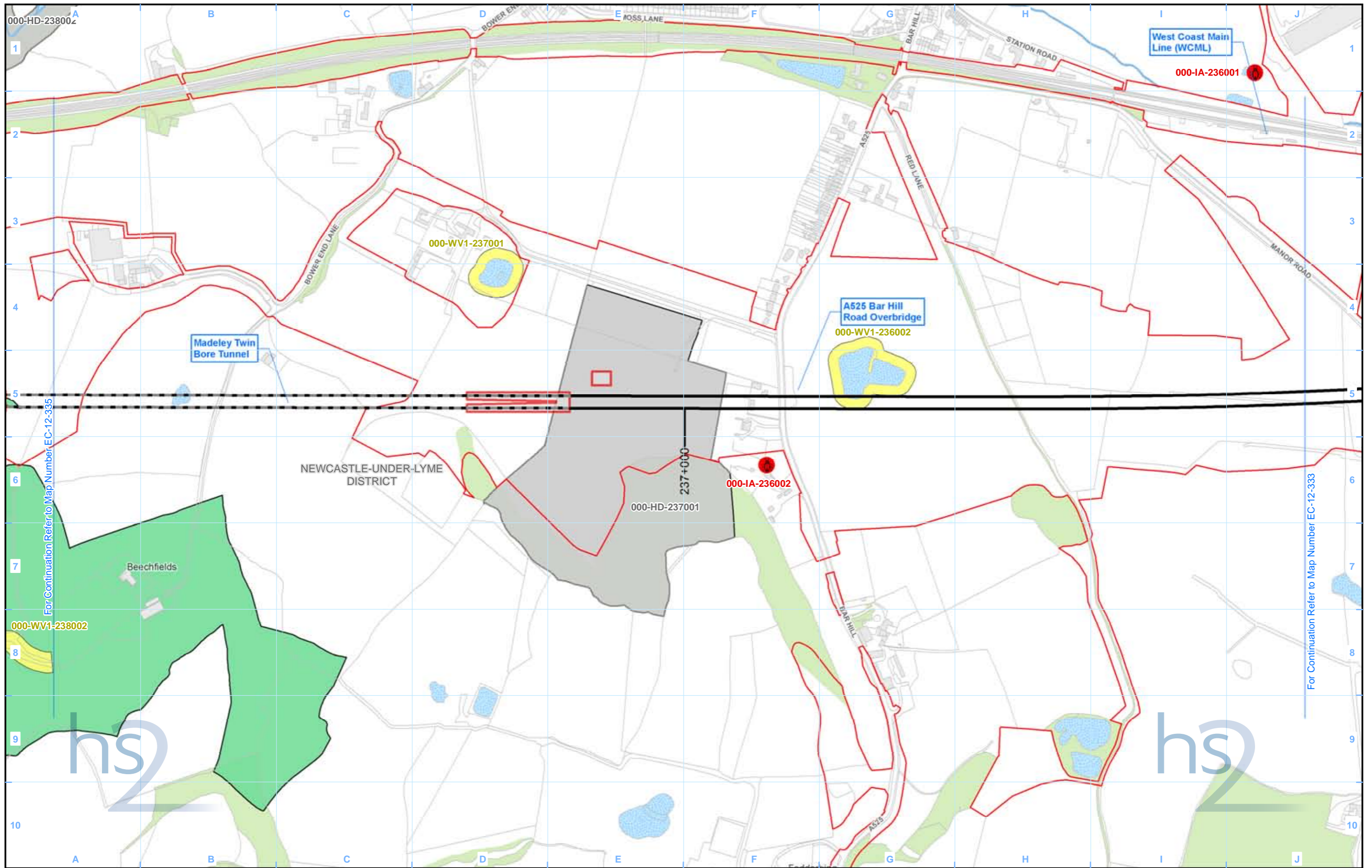
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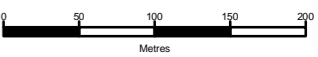
| Legend |   | Water vole: |                                      | Dormouse: |   |
|--------|---|-------------|--------------------------------------|-----------|---|
|        | Route in bored tunnel                         |             | Watercourse                          |           | Water vole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

|  |   |
|--|---|
| Map Number                                     | EC-12-334                               |
| Map Name                                       | Other Protected and Notable Species (2) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |


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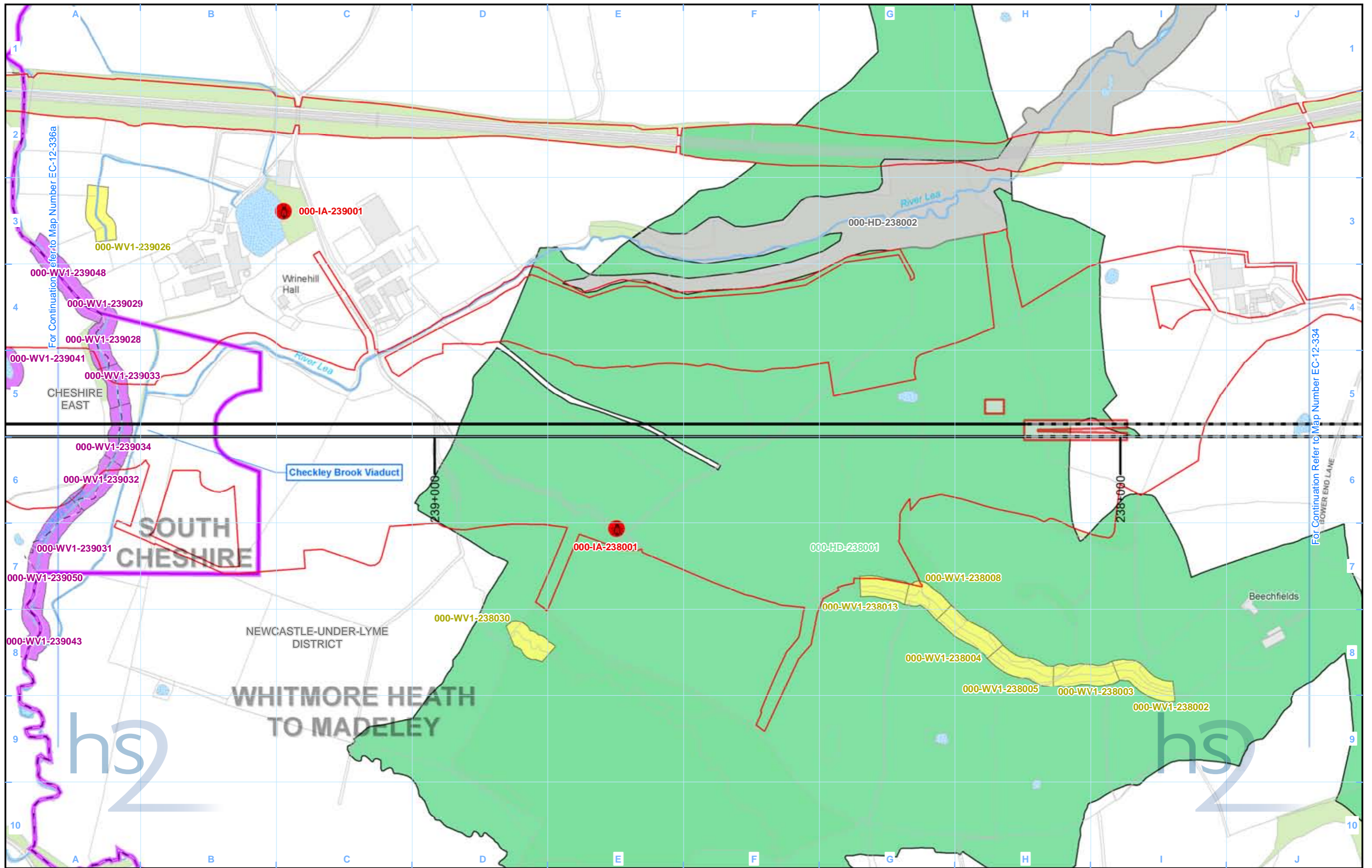


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| Legend |                              |                    |                  |
|--------|------------------------------|--------------------|------------------|
|        |                              | <b>Water vole:</b> | <b>Dormouse:</b> |
|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

|  |   |
|--|---|
| Map Number                                     | EC-12-335                               |
| Map Name                                       | Other Protected and Notable Species (2) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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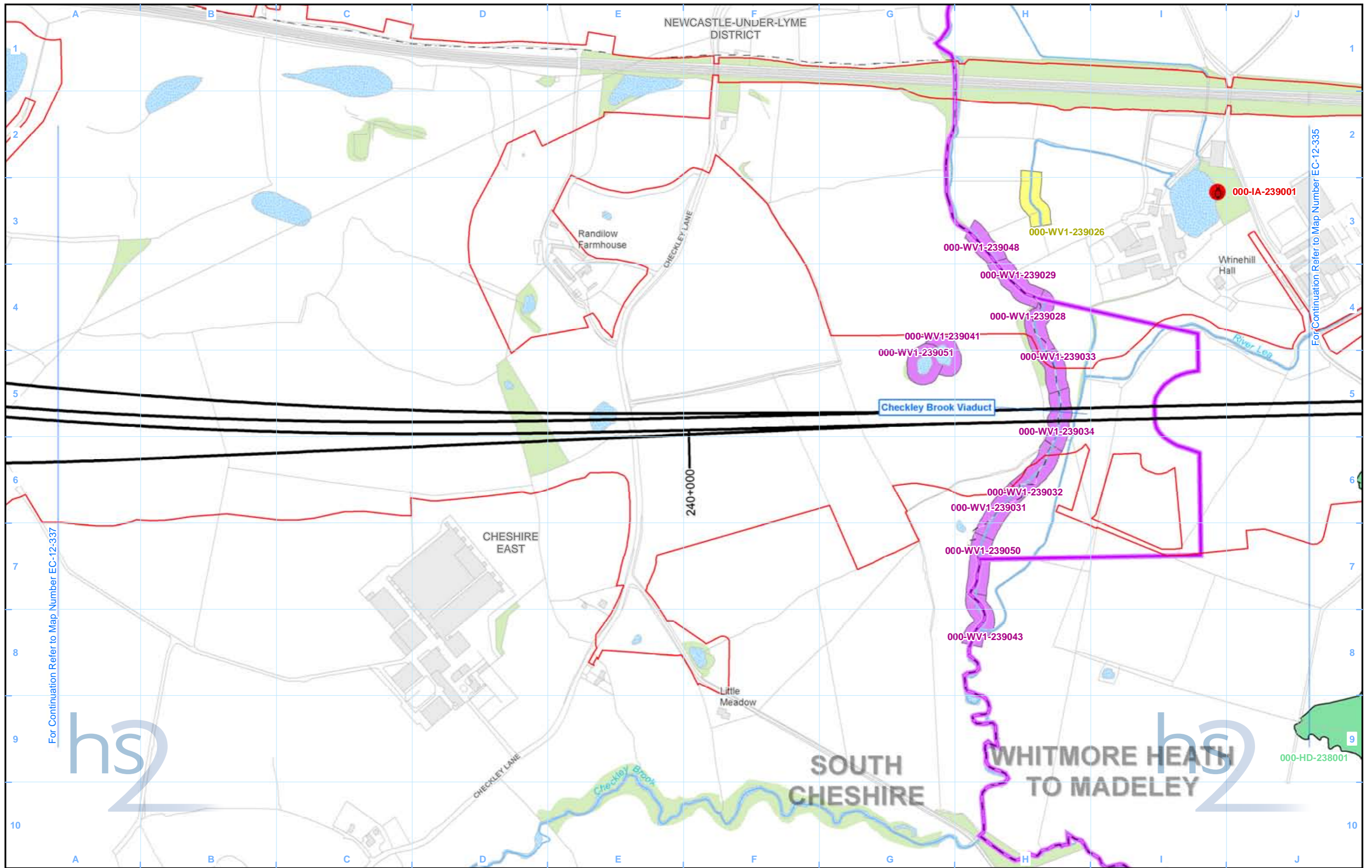
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| Legend |                              |                    |                  |
|--------|------------------------------|--------------------|------------------|
|        |                              | <b>Water vole:</b> | <b>Dormouse:</b> |
|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

|  |   |
|--|---|
| Map Number                                     | EC-12-336a                              |
| Map Name                                       | Other Protected and Notable Species (2) |
| Community Area 4:<br>Whitmore Heath to Madeley |   |

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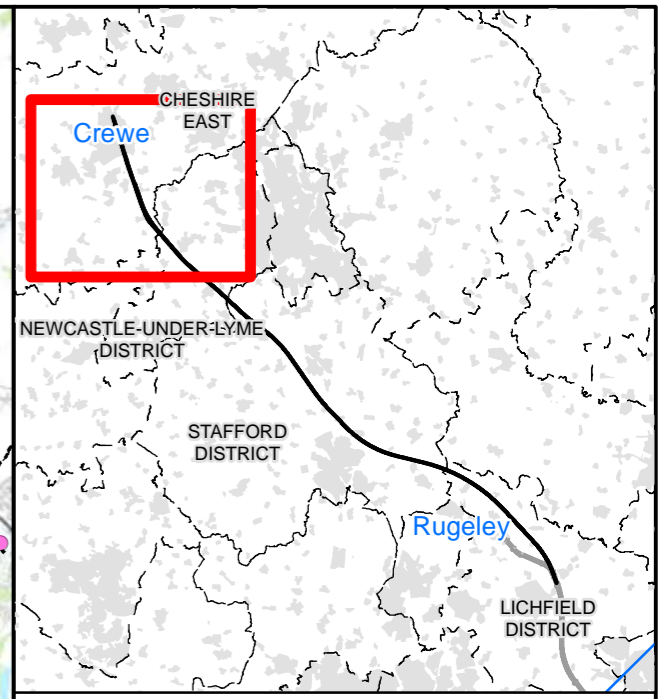
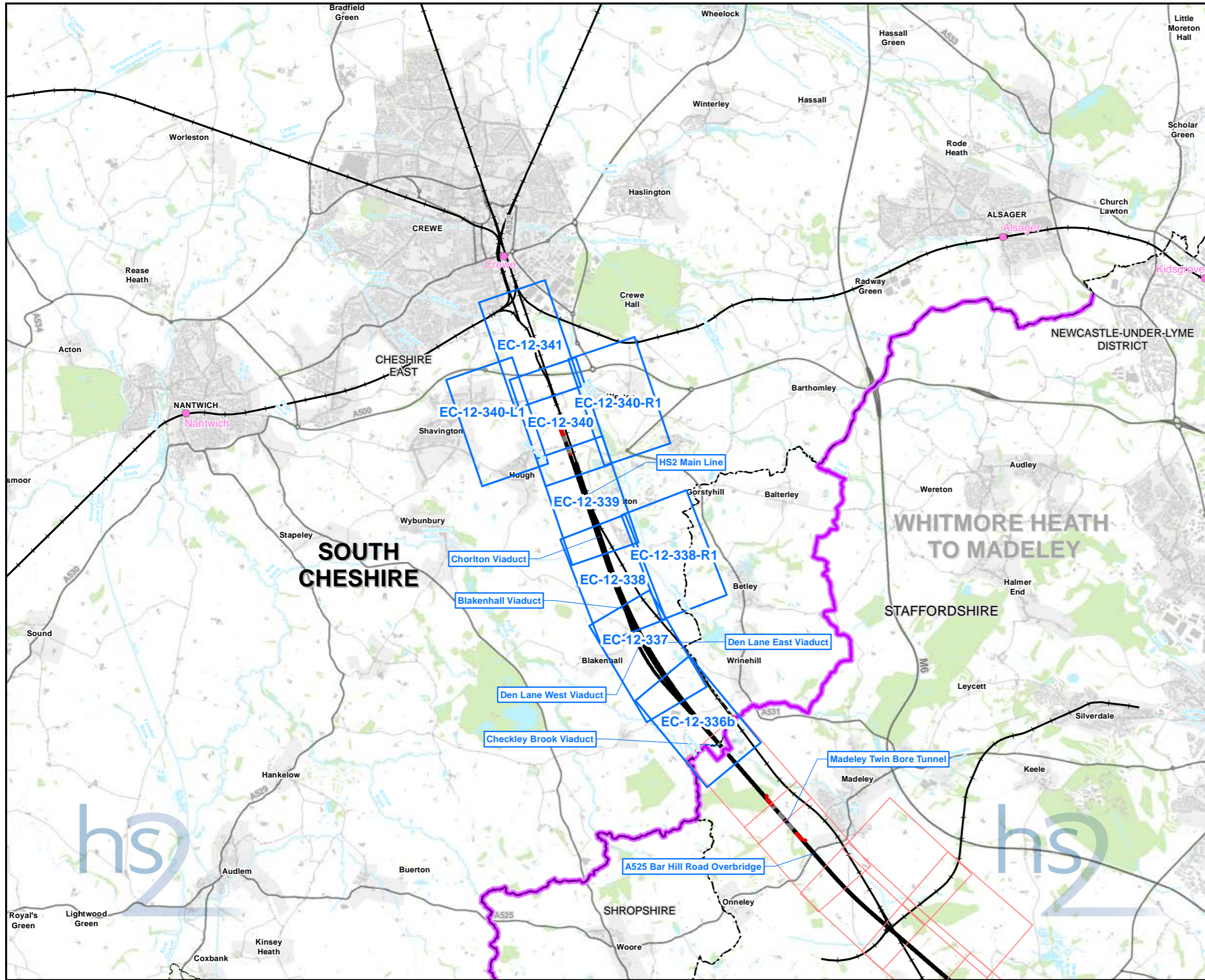
0 50 100 150 200 Metres

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Doc Number: C861-ARP-EV-MAP-000-082409-P03

Date: 14/06/17

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**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
- 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)

Community Area 5:  
South Cheshire

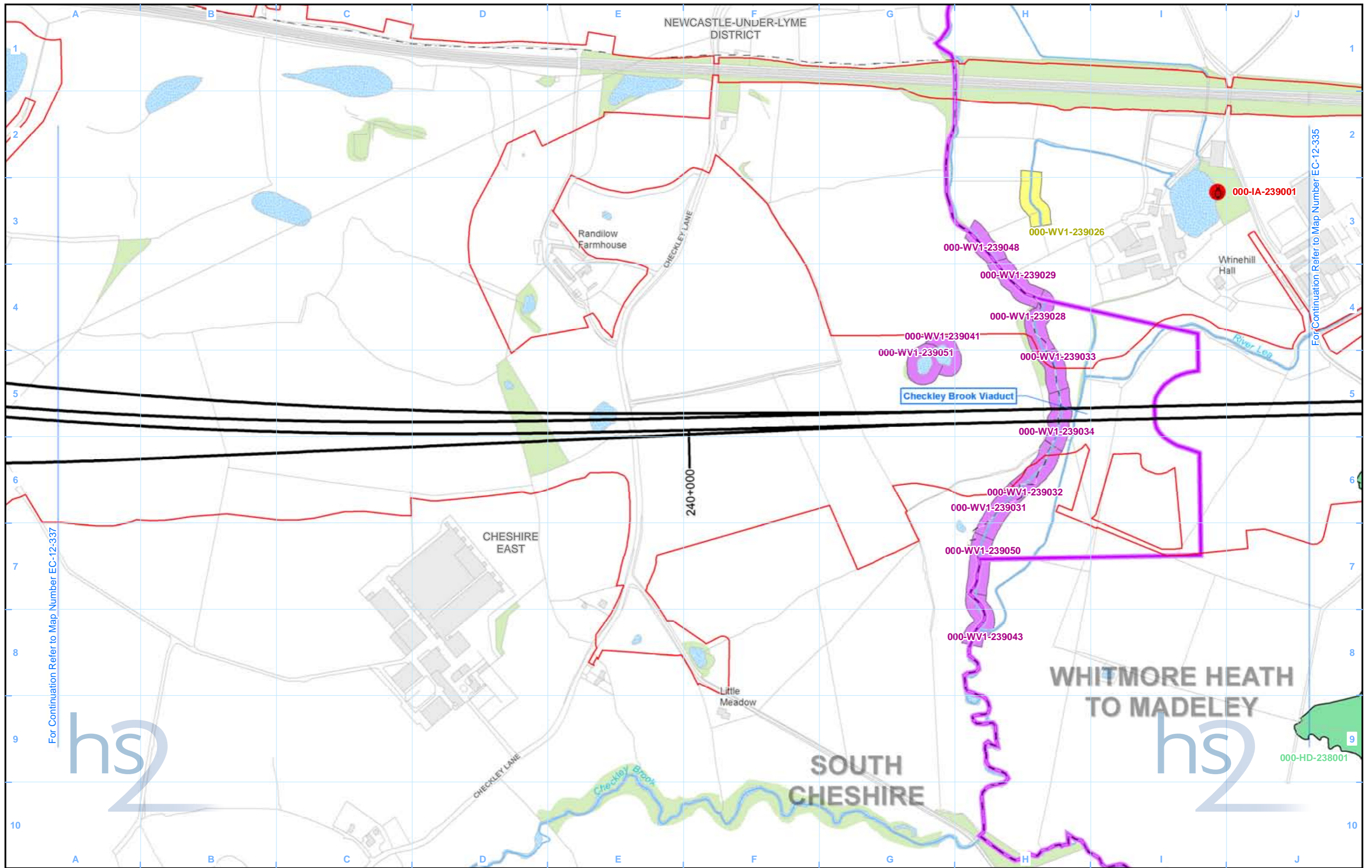
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| Legend |                              |                    |                  |
|--------|------------------------------|--------------------|------------------|
|        |                              | <b>Water vole:</b> | <b>Dormouse:</b> |
|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

|                |   |
|----------------|---|
| Map Number     | EC-12-336b                              |
| Map Name       | Other Protected and Notable Species (2) |
| Community Area | Community Area 5: South Cheshire        |

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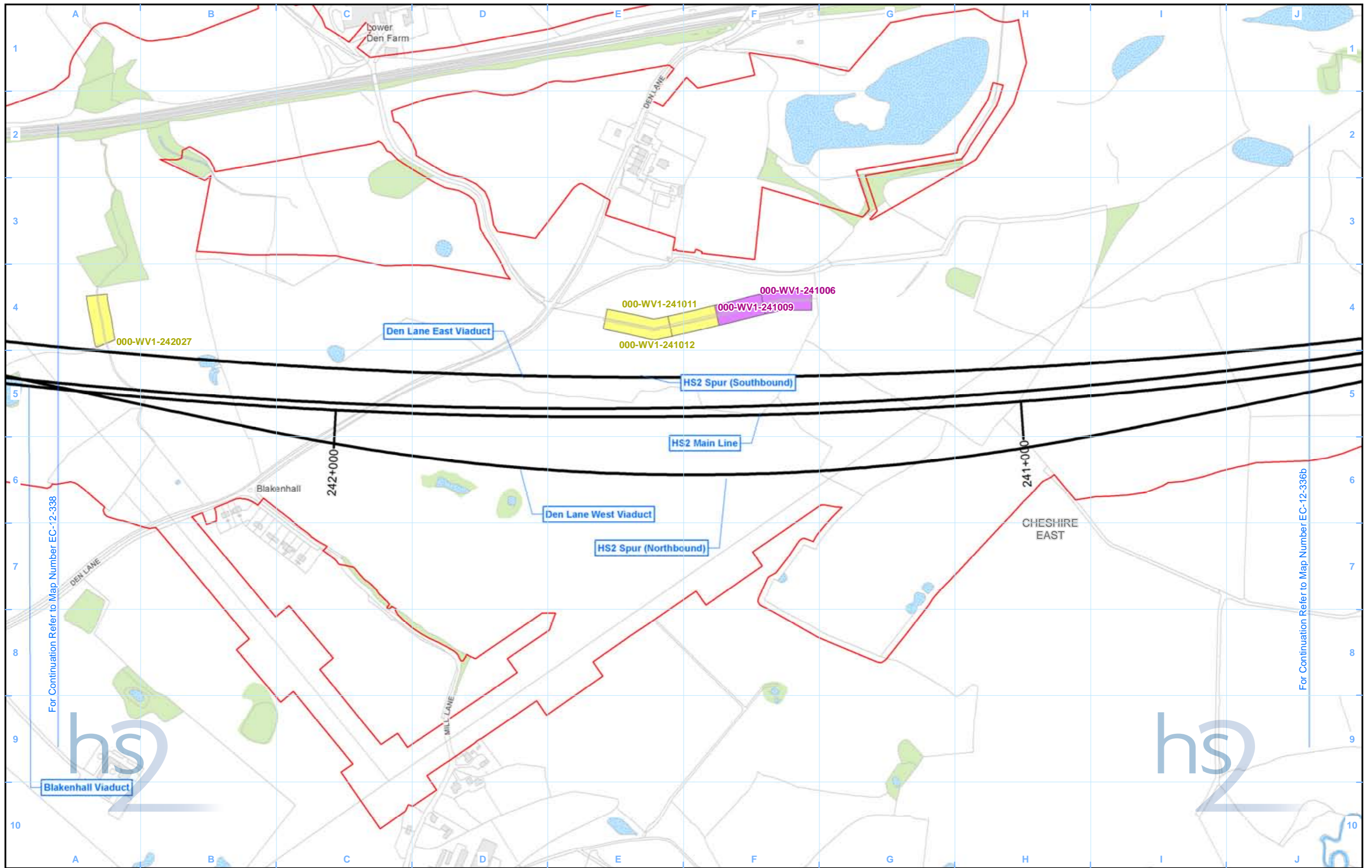
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Date: 14/06/17



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

|            |   |
|------------|---|
| Map Number | EC-12-337                               |
| Map Name   | Other Protected and Notable Species (2) |
|            | Community Area 5:<br>South Cheshire     |

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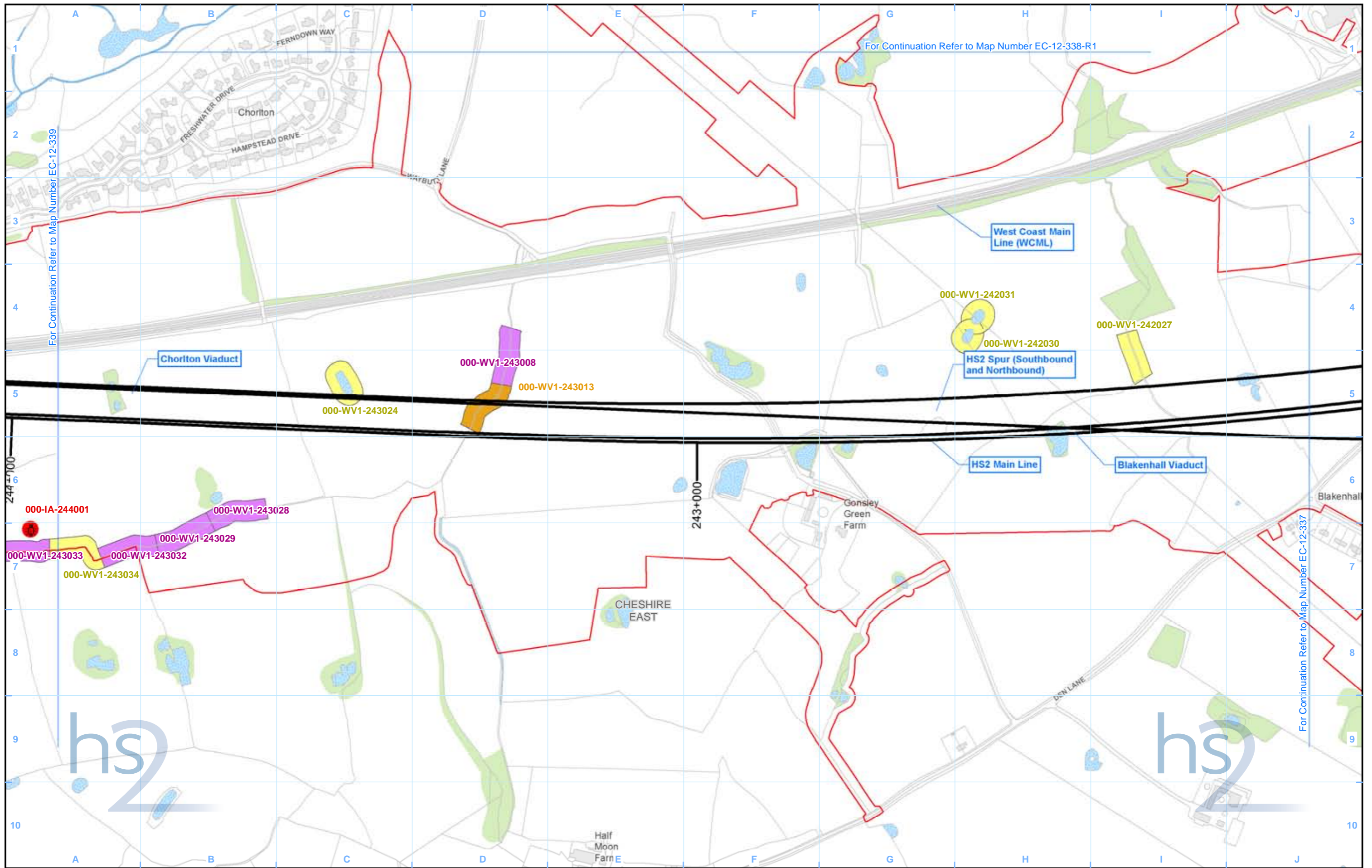
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Metres

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For Continuation Refer to Map Number EC-12-339

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

For Continuation Refer to Map Number EC-12-337

| Legend |   |                              |   |
|--------|---|------------------------------|---|
|        | Route in bored tunnel                         |                              | Watercourse   |
|        | Route on surface                              |                              | Water body  |
|        | Depot, station, headhouse or portal building  |                              | Woodland (verified by survey)   |
|        | Land potentially required during construction | <b>Aquatic invertebrate:</b> | <b>Aquatic invertebrate</b>   |
|        | 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-12-338                               |
| Map Name                         | Other Protected and Notable Species (2) |
| Community Area 5: South Cheshire |   |

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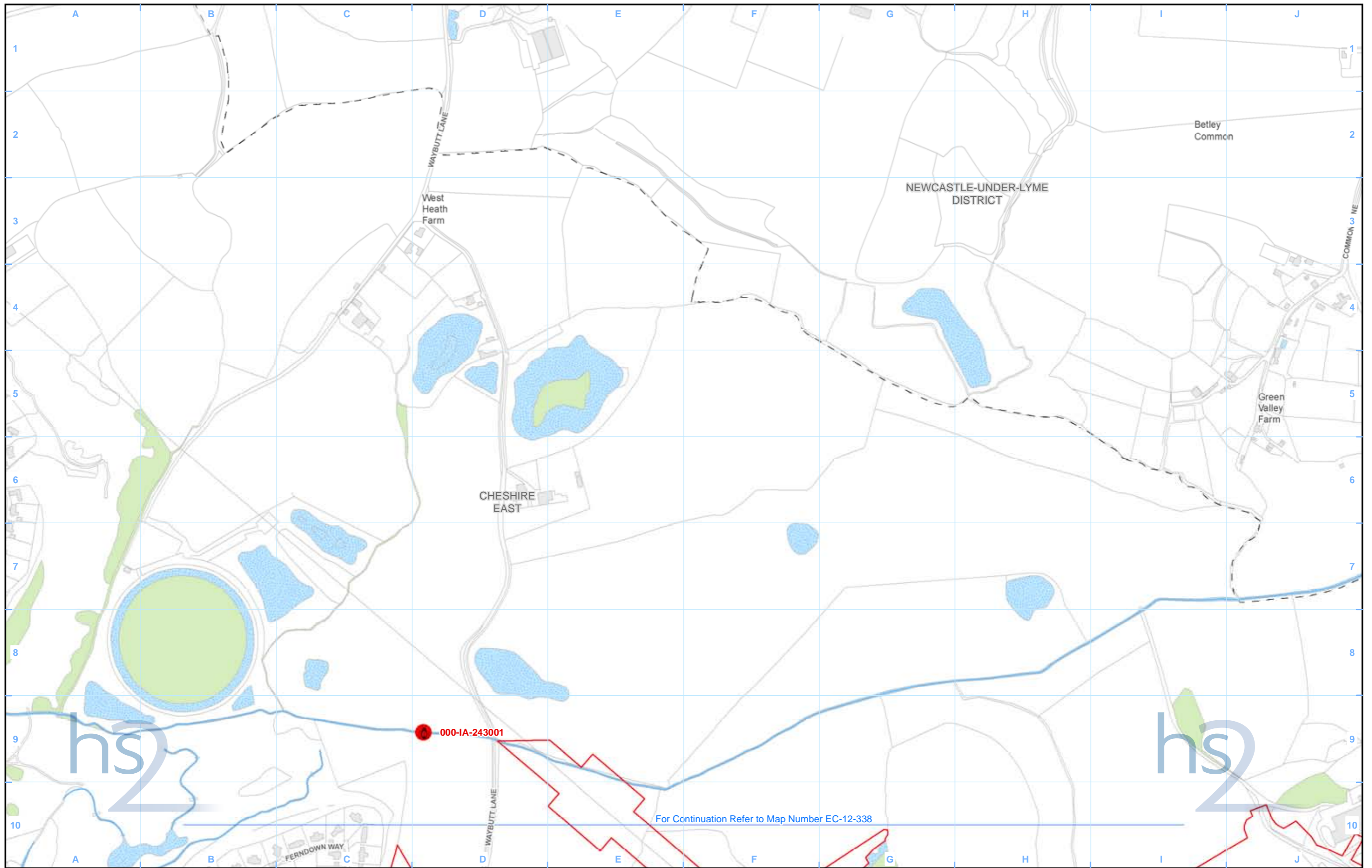
Doc Number: C861-ARP-EV-MAP-000-082307-P03

Scale at A3: 1:5,000

Metres

Date: 14/06/17

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For Continuation Refer to Map Number EC-12-338

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

- Watercourse
- Water body
- Woodland (verified by survey)
- Aquatic invertebrate:**
- Aquatic invertebrate survey location

- 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-12-338-R1                            |
| Map Name                            | Other Protected and Notable Species (2) |
| Community Area 5:<br>South Cheshire |   |

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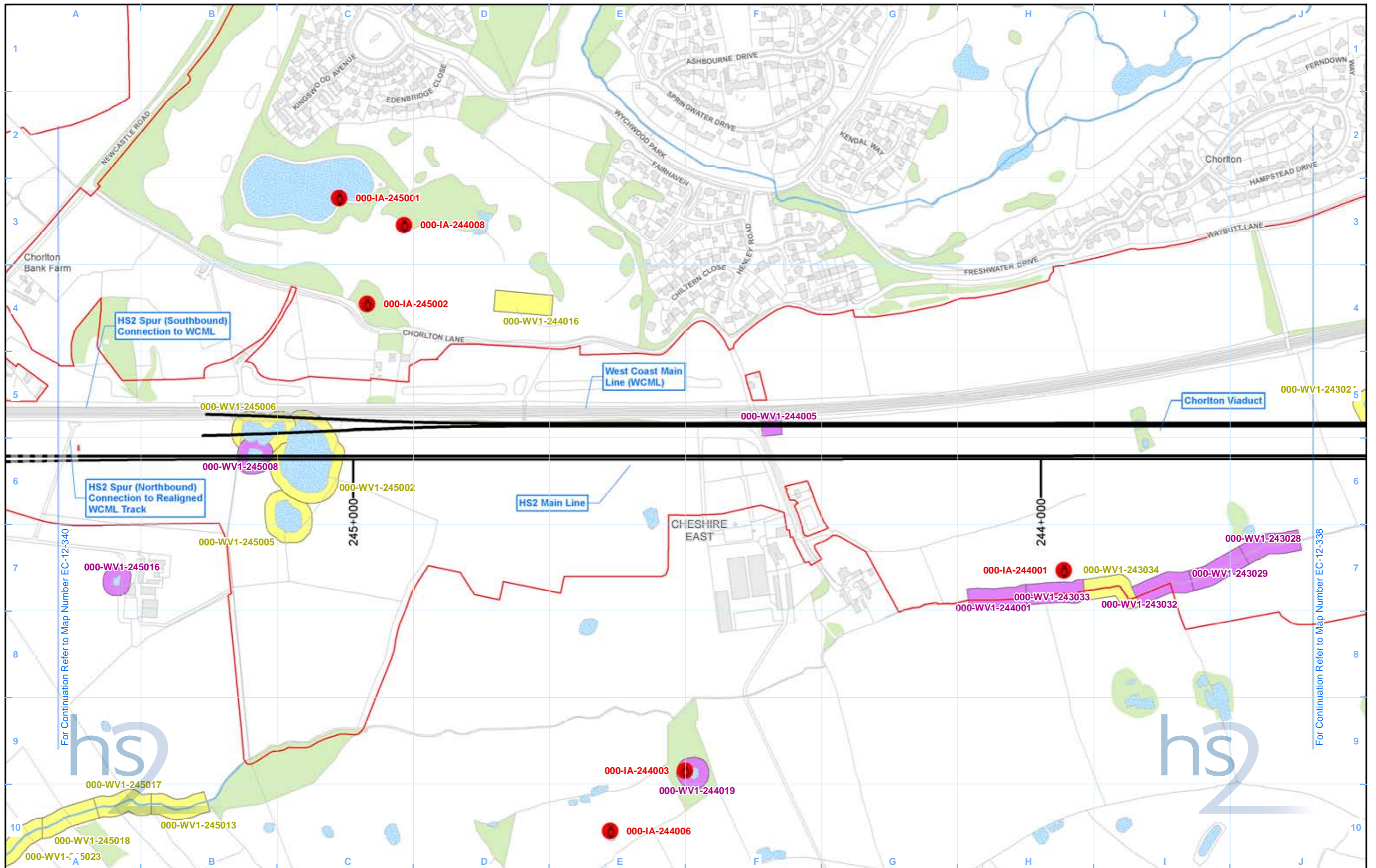
Doc Number: C861-ARP-EV-MAP-000-082306-P03

Scale at A3: 1:5,000

Metres

Date: 14/06/17





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

|            |   |
|------------|---|
| Map Number | EC-12-339                               |
| Map Name   | Other Protected and Notable Species (2) |
|            | Community Area 5:<br>South Cheshire     |

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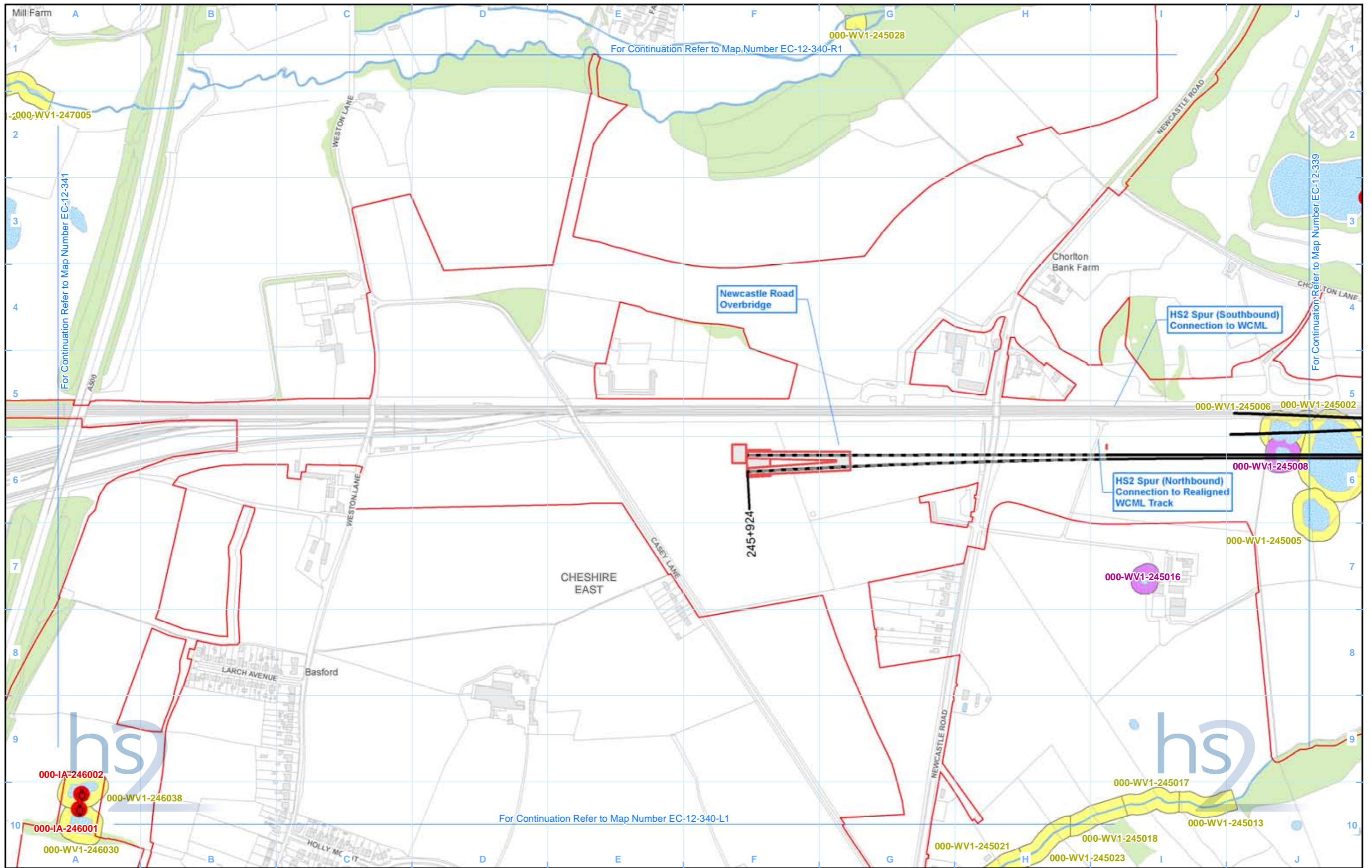
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Scale at A3: 1:5,000

Metres

Date: 14/06/17

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

|            |   |
|------------|---|
| Map Number | EC-12-340                               |
| Map Name   | Other Protected and Notable Species (2) |
|            | Community Area 5:<br>South Cheshire     |

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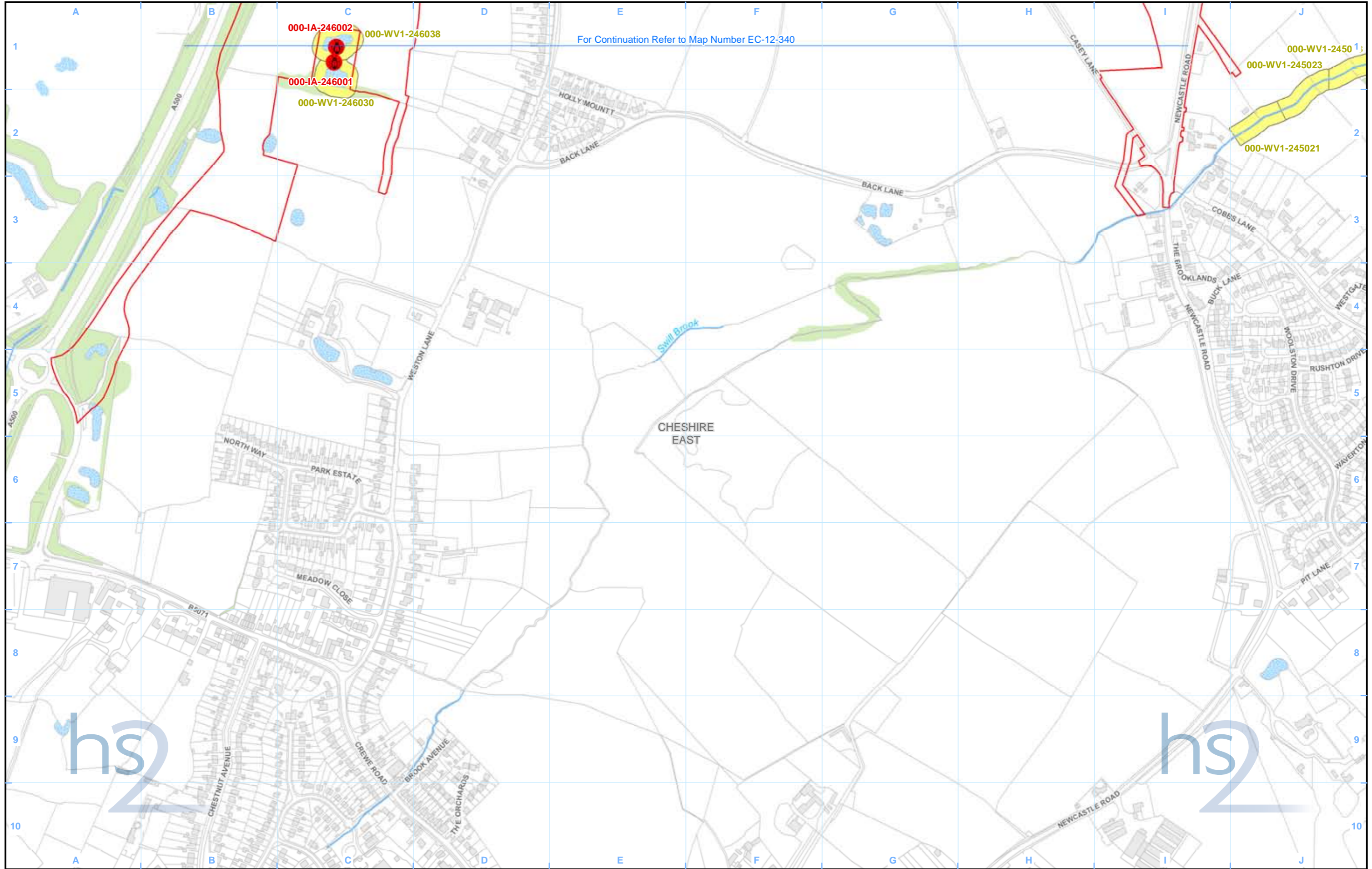
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Date: 14/06/17



For Continuation Refer to Map Number EC-12-340

| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-340-L1                            |
| Map Name   | Other Protected and Notable Species (2) |
|            | Community Area 5:<br>South Cheshire     |

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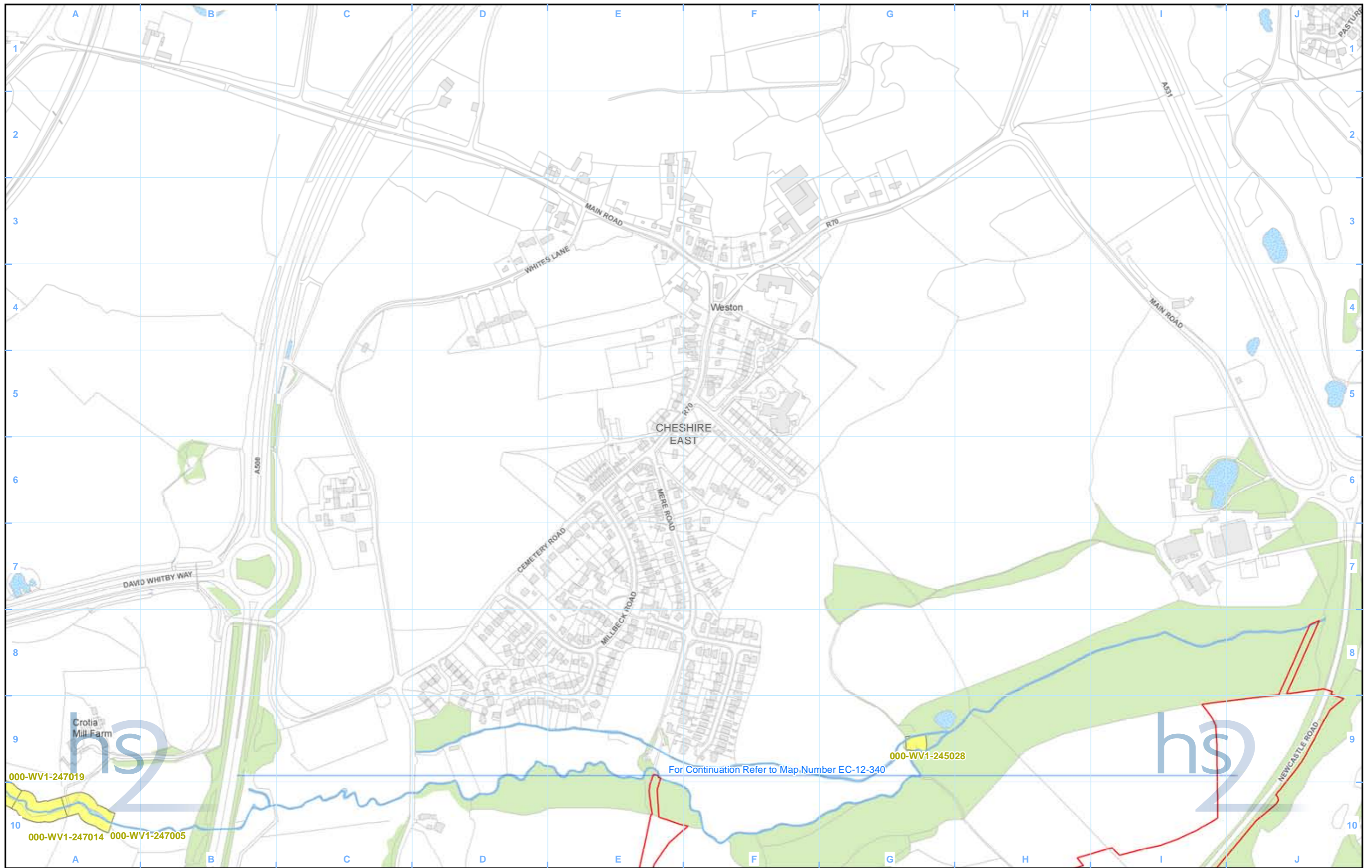
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Date: 14/06/17



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

|            |   |
|------------|---|
| Map Number | EC-12-340-R1                            |
| Map Name   | Other Protected and Notable Species (2) |
|            | Community Area 5:<br>South Cheshire     |

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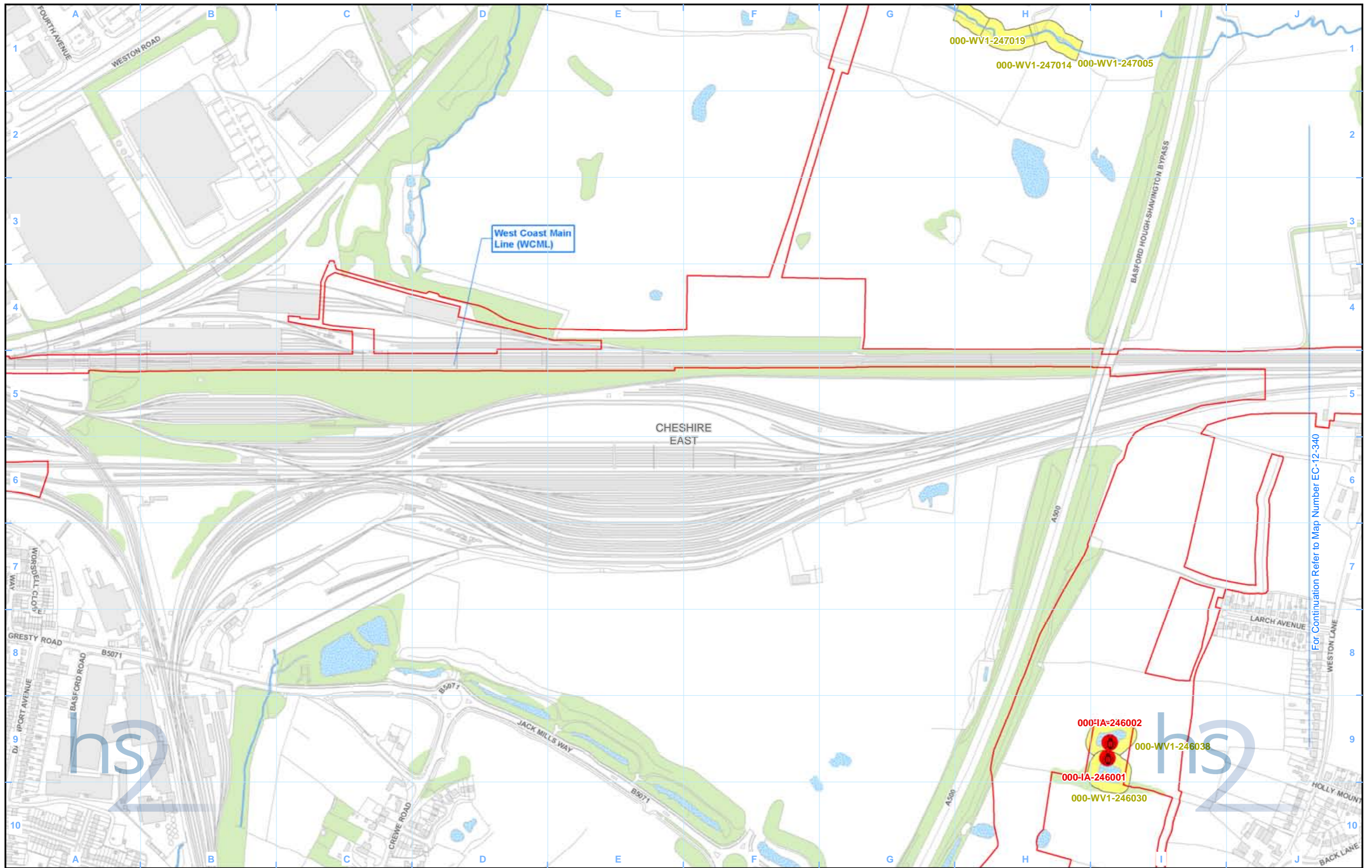
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For Continuation Refer to Map Number EC-12-340

| Legend |   |  |  |
|--------|---|--|--|
|        | Route in bored tunnel                         |  | Watercourse  |
|        | Route on surface                              |  | Water body   |
|        | Depot, station, headhouse or portal building  |  | Woodland (verified by survey)  |
|        | Land potentially required during construction |  | Aquatic invertebrate survey location   |
|        | Community area boundary                       |  | Water vole: Water vole survey undertaken - presence confirmed                              |
|        | District/Borough boundary                     |  | 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-12-341                               |
| Map Name   | Other Protected and Notable Species (2) |
|            | Community Area 5:<br>South Cheshire     |

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