

# LAND NORTH-WEST OF SOUTHWATER, HORSHAM

## ENVIRONMENTAL STATEMENT, VOLUME II, APPENDIX 8.9 2025 WATER VOLE AND OTTER REPORT

FEBRUARY 2026



**LAND NORTH-WEST OF SOUTHWATER, HORSHAM**

**2025 WATER VOLE AND OTTER SURVEY REPORT**

**Prepared for Berkeley Strategic Land Ltd**

**by**

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HDA Document Control and Quality Assurance Record

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# 1 INTRODUCTION

## 1.1 Site location and summary description

1.1.1 This report describes updated Water Vole and Otter surveys of suitable waterbodies and watercourses associated with the proposed development of approximately 116ha of land north-west of Southwater, West Sussex, hereinafter referred to as 'the site'. The site centre is located by National Grid Reference TQ154274. The study was commissioned by Berkeley Strategic Land Ltd in April 2025.

1.1.2 The site is split into a main site and a smaller area. The main site lies on the north-western edge of the village of Southwater and comprises a series of arable fields, semi-improved grassland fields, and improved grassland fields bordered by hedgerows, treelines and fence lines. Other habitats present include areas of broadleaved woodland, mixed woodland, and tall ruderal vegetation. In addition, Marlpost Gill flows in a southerly direction through the western part of the site and a second stream flows east to west through the north. The main site is bordered to the west by agricultural land and Two Mile Ash road and associated residential properties, beyond which are arable fields; to the north by the A24, industrial units, and agricultural land; to the south by Kirsty's Wood, and Bonfire Hill road with associated residential properties and grassland fields; and to the east by Worthing Road, beyond which is the settlement of Southwater.

1.1.3 The smaller area of the site measures approximately 1.35ha in size and is located approximately 800m to the north-west of the main site near Christ's Hospital railway station. This area comprises part of a grassland field and is bordered to the north by woodland; to the east by grassland fields; to the west by a public right of way and access road with residential properties and Christ's Hospital station car park beyond, and to the south by residential properties.

1.1.4 The location and boundary of the main site are shown in *Appendix A*.

## 1.2 Legislative context

1.2.1 Otters are protected as European Protected Species under the 2017 Conservation of Habitats and Species Regulations (as amended). In relation to European Protected Species (EPS), the 2017 Regulations make it an offence to:

- Deliberately capture, injure or kill any wild animal of an EPS;
- Deliberately disturb wild animals of any such species, in particular any disturbance which is likely to: (i) impair their ability to survive, to breed or reproduce, or to rear or nurture their young; or to hibernate or migrate; (ii) affect significantly the local distribution or abundance of the species to which they belong;
- Damage or destroy a breeding site of such an animal; and/or

- To be in (a) possession of, or control; (b) to transport any live or dead animal or any part of an animal; (c) to sell or exchange, or (d) offer for sale or exchange any live or dead animal or part of an animal of an EPS.

1.2.2 The Water Vole is fully protected through its inclusion on Schedule 5 of the 1981 Wildlife and Countryside Act (as amended). The Otter is subject to the provisions of Sections 9.4b and 9.4c of the Act only. This makes it an offence to:

- Intentionally or recklessly kill, injure or take a Water Vole;
- Possess or control live or dead specimens or anything derived from a Water Vole;
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place which Water Voles or Otters use for shelter or protection; and/or
- Intentionally or recklessly disturb Water Voles or Otters while they are using such a place, unless permitted under a licence issued by Natural England.

1.2.3 In addition, the Otter and Water Vole are listed as priority species on the UK Biodiversity Action Plan (BAP) and identified as Species of Principal Importance under Section 41 of the 2006 NERC Act. Section 40 of the NERC Act, planning policy and underpinning guidance requires that these species are a material consideration in the planning process.

### **1.3 Development Proposals**

1.3.1 Outline planning application, with all matters reserved (except for primary access to the highway) for a phased development comprising: the demolition of existing buildings and the construction of residential dwellings (including affordable housing) (Use Classes C2 and C3); a mixed-use neighbourhood centre (Use Classes E and F); education facilities (Use Class F1(a)); business and employment floorspace (Use Classes B2, B8 and E(g)); redevelopment of existing agricultural buildings including construction of a building for community use (Use Class F2); improvements to public rights of way; sports pitches; gypsy and traveller pitches/plots; public open space; landscaping, and associated infrastructure.

### **1.4 Scope and purpose of the report**

1.4.1 During the UK Habitat Classification survey, habitats suitable for Water Vole were recorded in the form of two small streams running through the northern and south-western areas of the main site. The streams form part of a wider network of waterways across the surrounding landscape. No streams are located within or adjacent to the smaller area located to the west of the main site.

1.4.2 Although the streams were considered unsuitable for Otter due to their small size and unlikelihood to support sufficient fish for foraging Otters, as the streams form a component of the wider network of waterways it was considered that these could provide potential corridors for the movement of Otters between larger waterbodies in the surrounding area.

1.4.3 An Otter and Water Vole survey was previously undertaken of the site by HDA in September 2021 and April 2022, during which no evidence of either species was recorded (HDA, 2022).

1.4.4 In recognition of the presence of suitable habitat in the main site, the time that has passed since the 2021/2022 Otter and Water Vole survey was carried out and the legislative context set out in *Section 1.2* above, an updated Otter and Water Vole survey was undertaken of the main site in June and October 2025 to confirm the continued presence/likely absence of Otters and Water Voles within areas of the main site affected by the emerging development proposals. This is the subject of this report. Specifically, the aims of the Water Vole and Otter survey were:

- i) To identify the presence/likely absence of Water Voles and Otter at the site and, if present, the level and type of activity; and
- ii) If present, to predict potential impacts of development on Water Voles and Otter and provide recommendations for impact avoidance, minimisation and mitigation.

## **2 METHODOLOGY**

2.1 The field survey was carried out on 20<sup>th</sup> June 2025 by Claire Cornhill and Lydia Taylor and on 16<sup>th</sup> October 2025 by Filippo Faraone of HDA. The survey was based on the methodology described in the Water Vole Mitigation Handbook (Dean *et al.*, 2016) and the method used for the Otter Survey of England 1991-1994 (Strachan 1998, Strachan and Jefferies, 1996). A total of 5 hours was spent carrying out the field surveys. Weather conditions were warm and dry.

2.2 During the survey, the channels and banks of all suitable watercourses within the site were examined for signs of Water Vole such as latrines, burrows, footprints, paths, feeding lawns, feeding remains, sightings and sounds of entering water. These areas were also examined for signs of Otter including sightings, footprints, holts, slides, spraints, rolled vegetation (wisps/twists), vegetation mattresses (couches), refuges and feeding remains. Any signs of Mink and Brown Rat were also recorded.

2.3 The locations of the surveyed watercourses are given in *Appendix A*. The survey forms used were adapted from the Berkshire, Buckinghamshire and Oxfordshire Wildlife Trust Water Vole Survey Form. Completed forms are given in *Appendix B*.

### **2.4 Limitations**

2.4.1 As is often the case during Water Vole and Otter surveys, it was not possible to access some short stretches of the streams due to encroachment by dense scrub. This is not considered a significant constraint however as over-shaded areas generally provide lower quality habitat for Water Voles due to absence of marginal vegetation, no signs of either

species were recorded in adjacent areas, and the vast majority of the stream was surveyed in detail.

- 2.4.2 No other constraints were encountered and the survey is therefore considered to allow a robust assessment of the likely effects of the proposed development on Otters and Water Voles.

### **3 RESULTS**

#### **3.1 Habitat description**

- 3.1.1 A summary of the habitat provided by suitable watercourses within the site is given below. These are mapped in *Appendix A*.

##### *Watercourse 1*

- 3.1.2 Watercourse 1 comprises an unnamed stream in the north of the main site. The stream flows in a north-westerly direction and predominately has shallow earth banks, although some sections have steeper earth cliffs. The base of the stream contains stone/ gravel with areas of silt. During both survey visits the stream had a generally slow flow of water approximately 25-50cm wide, and up to 50cm deep. Small pools of water are present within the southern section of this stream and at the time of survey were up to approximately 2m wide and up to 80cm deep. The stream passes through parcels of woodland and is culverted beneath farm entrance tracks and flows into a drainage pond at the northern end. The stream was heavily poached by Cattle, especially towards the southern end. Bankside vegetation includes Bramble, Common Nettle, Broad-leaved Dock, Yorkshire Fog, Pendulous Sedge, Common Ivy, Field Bindweed, Bittersweet and Cocks Foot with bankside trees including Oak, Holly and Hawthorn. The land in the vicinity of the stream comprises woodland edge and grassland fields.

##### *Watercourse 2*

- 3.1.3 Watercourse 2 comprises Marlpost Gill, a small stream in the south-west of the main site. The base of the stream contains stone/ gravel with areas of silt. During both survey visits the stream had a generally slow flow of water, of approximately 25-50cm wide and up to 50cm deep and was dry in places. The stream flows through a section of woodland containing Oak, Birch, Hazel and Holly and is heavily shaded. Consequently, marginal and aquatic vegetation is largely absent, with ruderal and woodland species present along its banks including Common Nettle, Bluebell, Pendulous Sedge, Wild Garlic, Bramble, Willowherb, Garlic Mustard and Cow Parsley. Beyond the woodland through which the stream flows are fields of agriculturally improved grassland. Where the stream flows beneath an old railway line, now featuring the Downs Link public footpath, it has been culverted.

#### *Other waterbodies and watercourses*

3.1.4 All other watercourses including ditches and drains were dry at the time of both the June and October 2025 survey visits, with limited marginal vegetation and/or with banks dominated by dense scrub. These watercourses are also considered unsuitable habitat for both Water Vole and Otter and as such are not considered further in this report.

3.1.5 In addition to the watercourses described above, several ponds are located within and adjacent to the site. The ponds were not considered however to have the potential to support Water Vole or Otter. This was due to the ponds being shallow (and seen to dry out), absence of fish, poor connections with other wetland habitat and/or having very limited marginal vegetation.

### **3.2 Field survey results**

3.2.1 No evidence of Water Vole was recorded during the survey and this species is considered to have been absent from the site at the time of survey. Both Watercourses 1 and 2 generally provide sub-optimal habitat for Water Vole, due to shallow water levels, seasonal fluctuations, a limited source of suitable food and heavy shading by bankside trees, hedgerows and scrub.

3.2.2 Watercourses 1 and 2 are also considered unsuitable for Otter due to the shallowness of the water and lack of a food source. No evidence of Otter was recorded during the survey and this species is considered to have been absent at the time of survey.

## **4 CONCLUSION AND RECOMMENDATIONS**

4.1 No evidence of Water Vole or Otter was identified during the surveys carried out in both 2021/2022 and 2025. The watercourses associated with the site generally provide sub-optimal habitat for Water Vole, due to shallow water levels, seasonal drying out and heavy shading by bankside vegetation resulting in a lack of suitable marginal and aquatic vegetation for foraging. The watercourses at the site also provide unsuitable habitat for Otter due to low water levels and lack of food source.

4.2 In view of the above, it is considered highly unlikely that Water Vole or Otter are present at the site on a regular basis. Development of the site is therefore highly unlikely to affect Water Voles or Otters and no mitigation specific to these species is recommended at this time. It is however recommended that the landscape and lighting strategy for the site seek to maintain a corridor of undisturbed habitat along the watercourses. Where it is unavoidable that watercourses are crossed by roads, any culverts or bridges should be of sensitive design to allow for the movement of wildlife beneath, including use of mammal ledges/ shelves outside of the flood zone where appropriate. This would maintain

opportunities for Water Vole to colonise the watercourse in the future and the current opportunities for movement of aquatic and terrestrial wildlife across the wider landscape.

- 4.3 Although neither Water Vole or Otter were recorded during the 2021/2022 or 2025 surveys, both Water Voles and Otters are highly mobile and can readily colonise and abandon sites within a relatively short period of time. If there is a delay of over two years between the survey being carried out and development works commencing, it is recommended that the survey is updated to confirm that the status of Water Vole and Otter at the site has not changed.

## 5 REFERENCES

Dean, M., Strachan, R., Gow, D., Andrews, R. (2016). *The Water Vole Mitigation Handbook (The Mammal Society Mitigation Guidance Series)*. Eds Fiona Mathews and Paul Chanin. The Mammal Society, London.

Harris, S. & Yalden, D.W. (2008). *Mammals of the British Isles. Handbook: 4<sup>th</sup> Edition*. The Mammal Society, Southampton.

HDA (2022) *Land North West of Southwater: Water Vole and Otter Survey Report*. Hankinson Duckett Associates, Wallingford.

Lawrence, M.J. & Brown, R.W. (1973). *Mammals of Britain: Their Tracks, Trails and Signs*. Brandford Press, England.

## HDA Document Control and Quality Assurance Record

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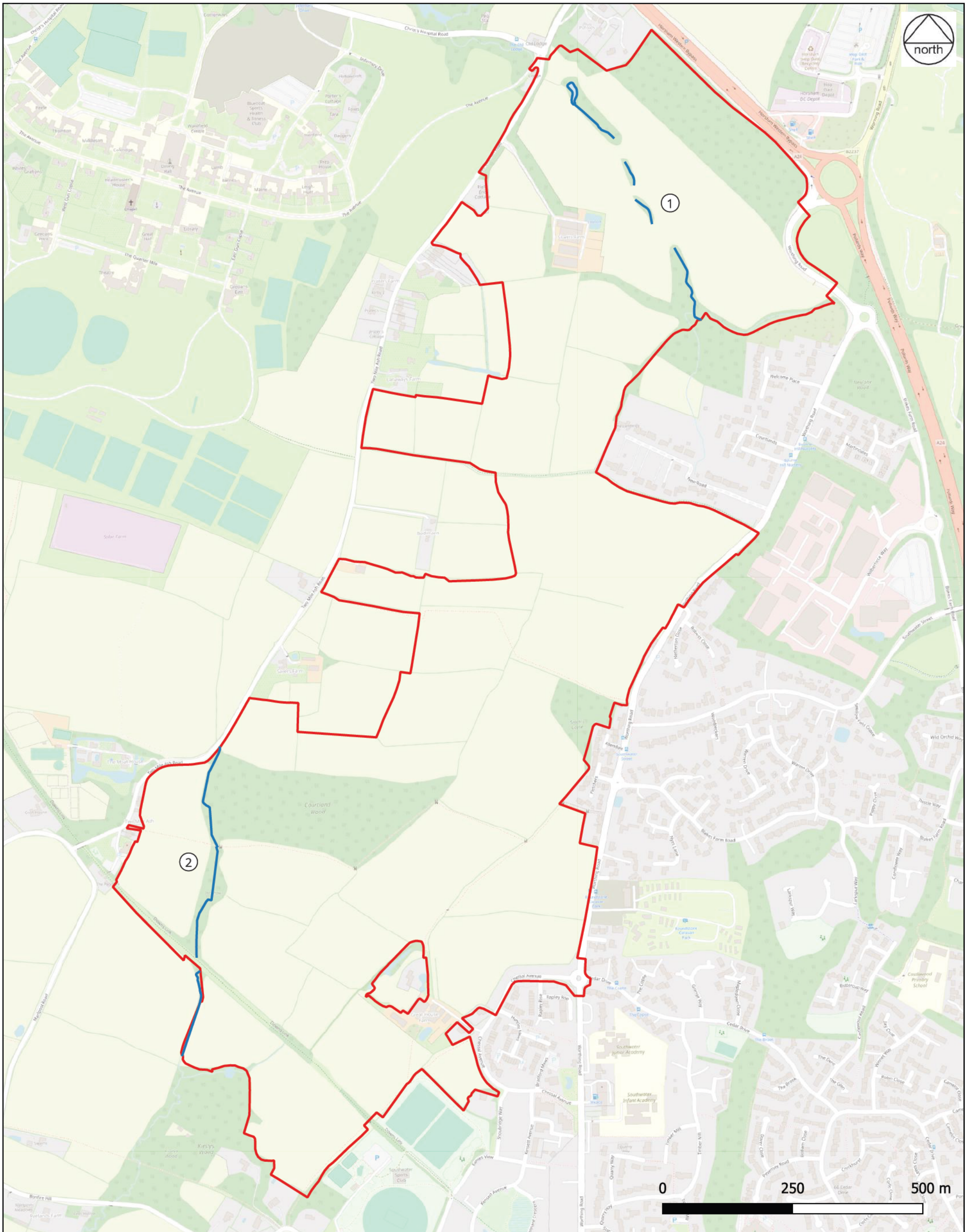
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**APPENDIX A**

**2025 Water Vole and Otter Survey Plan**



**KEY**

- Site boundary
- Section of stream surveyed
- 1 Watercourse numbers

Map data from OpenStreetMap 2026-01-20

**CLIENT:**  
Berkeley Strategic Land Ltd

**PROJECT:**  
Land North-West of Southwater, Horsham

**TITLE:**  
2025 Otter and Water Vole Survey Summary Plan

**SCALE AT A3:** See scale bar      **DATE:** January 2026

2090.78 / 26

Based on Ordnance Survey mapping with permission of Her Majesty's Stationery Office Licence no. AR187372

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**Landscape Architecture  
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Ecology**

**APPENDIX B**

**2025 Field Survey Recording Cards**

## Water Vole and Otter Survey Form

|                 |           |                |   |
|-----------------|-----------|----------------|---|
| Surveyors Names | CC + NT   | Watercourse    | ④ North section.<br>= Section 1 (on plan) |
| Date            | 20/6/2025 | Site reference | Southwater                                |


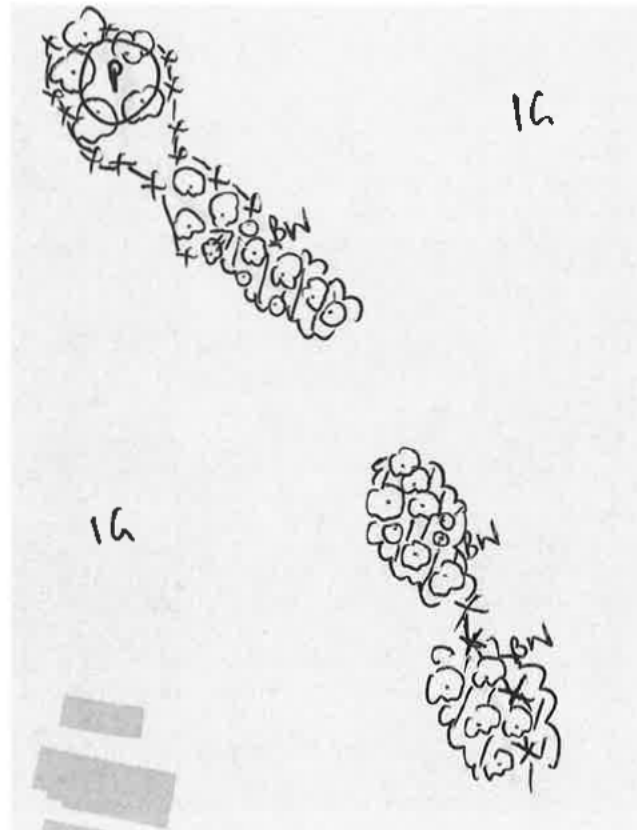






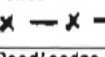
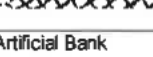

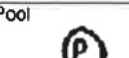
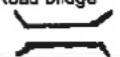





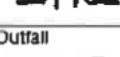

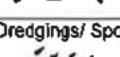


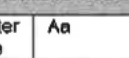



### Habitat Assessment

| Main Habitat    |       | Bank profile          |                     | Bank Vegetation (DAFORN) |               | Land Use within 50m  |   |        |
|-----------------|-------|-----------------------|---------------------|--------------------------|---------------|--|---|--------|
| Ditch / dyke    |       | Flat <10°             | ✓                   | Bankside trees           | D             | Woodland   | ✓ |        |
| Gravel Pit      |       | Shallow <45°          | ✓                   | Shrubs                   | O             | Conifer  |   |        |
| Sludge Pool     |       | Steep >45°            | ✓                   | Herbs                    | O             | Arable Crop  | ✓ |        |
| Lake            |       | Vertical/<br>undercut |                     | Reeds / sedges           | O             | Rough grassland  |   |        |
| Reservoir       |       |                       |                     | Submerged Weed           | R             | Managed grassland  | ✓ | Crazed |
| Natural Pond    |       | Water Course          |                     | Tall Grass               | R             | Fen / Carr / Marsh   |   |        |
| Artificial Pond |       | Ave depth (m) 0.2     |                     | Short Grass              | O             | Urban / industrial   |   |        |
| Running Water   | ✓     | Ave Width (m) 0.5     |                     | Bare Earth               | F             | Park / garden  |   |        |
| Marsh / bog     |       | Flow                  |                     | Grazing?                 |               | General Comments   |   |        |
| Canal           | Shore | Base                  | Static              | Cattle                   | ✓             | - Cows in field<br>- Water v. low - almost dry.<br>- Some areas fenced off but an skid access. |   |        |
|                 |       |                       | Slow                | Horses                   |               |  |   |        |
| Boulder         |       |                       | Fast                | Sheep                    |               |  |   |        |
| Stone / Gravel  |       | ✓                     | Water Management    |                          | Bank trampled |  |   | ✓      |
| Sand            |       | ✓                     | Dredging            | Bank fenced off          | Some          |  |   |        |
| Silt / clay     |       | ✓                     | Weed cutting        |                          |               |  |   |        |
| Earth           | ✓     | ✓                     | Mowing              | Level of disturbance     |               |  |   |        |
| Earth cliffs    | ✓     |                       | Water level control | Between 1-5              | 3             |  |   |        |
| Reinforced      |       |                       | Boating<br>Angling  | (1 = low, 5 = High)      |               |  |   |        |

### Field Signs

|               | Tally         |  | Total | Other Animals             |  |
|---------------|---------------|--|-------|---------------------------|--|
|               | Water Vole    |  |       |                           |  |
| Sightings     | None found.   |  |       | Mink                      |  |
| Latrines      |               |  |       | Sightings                 |  |
| Droppings     |               |  |       | Scats                     |  |
| Burrows       |               |  |       | Tracks                    |  |
| Feeding signs |               |  |       | Rat                       |  |
| Tracks        |               |  |       | Sightings                 |  |
| Runs          |               |  |       | Droppings                 |  |
| Lawns         | Tracks / runs |  |       |                           |  |
|               | Otter         |  |       | Other species / comments: |  |
| Sightings     |               |  |       |                           |  |
| Sprints       |               |  |       |                           |  |
| Tracks        |               |  |       |                           |  |

# Sketch of Site (indicating any Water Vole or Otter activity)

|  |   |   |                |
|--|---|---|----------------|
| Mature Trees<br>          |  | <b>ADJACENT LAND-USE CODES</b>  |                |
| Over-hanging Branches<br> |   | <b>BW</b> Broadleaf Wood  |                |
| Fallen Tree<br>           |   | <b>WL</b> Wetland   |                |
| Exposed Roots<br>         |   | <b>CP</b> Conifer Plantation  |                |
| Pollarded Tree<br>        |   | <b>URB</b> Gardens and Urban  |                |
| Sapling<br>               |   | <b>TL</b> Tilled Land (crop)  |                |
| Scrub<br>                 |   | <b>IG</b> Improved Grassland  |                |
| Hedgerow<br>              |   | <b>MH</b> Moorland/heath  |                |
| Fence<br>                |   | <b>RP</b> Rough Pasture   |                |
| Reed/ sedge bed<br>     |   | <b>OTHER FEATURES</b>   |                |
| Artificial Bank<br>     |   | Road bridge<br>      |                |
| Earth Cliff<br>         |   | Foot bridge<br>      |                |
| Pool<br>                |   | Weir<br>             |                |
| Riffle<br>              |   | Ford<br>             |                |
| Rapids<br>              |   | Outfall<br>          |                |
| Waterfall<br>           |   | Dredgings/ Spoil<br> |                |
| Protruding Rock<br>     |   | Silt bars<br>        |                |
| Culvert<br>             |   | Islands<br>          |                |
| <b>ANIMAL CODES</b>  |   | <b>FIELD SIGN CODES</b>   |                |
| Water vole   | Aa  | dr  | Droppings      |
| Mink   | Nv  | la  | Latrines       |
| Otter  | Li  | sc  | Scats/Spraints |
| Rat  | Rn  | bu  | Burrows        |
| Field vole   | Ma  | fs  | Feeding signs  |
|  |   | lw  | Lawn           |
|  |   | pr  | Prints         |
|  |   | e.g. 2 water vole latrines  |                |
|  |   | ( 2 x Aa )  |                |

Banks heavily shaded + stream

## Water Vole and Otter Survey Form

|                 |           |                |  |
|-----------------|-----------|----------------|--|
| Surveyors Names | CC + LT   | Watercourse    | ① Abornh = Section 3 section (on plan) |
| Date            | 20/6/2025 | Site reference | Southwater.                            |

### Habitat Assessment

| Main Habitat    |       | Bank profile          |                     | Bank Vegetation (DAFORN) |                      | Land Use within 50m |   |   |
|-----------------|-------|-----------------------|---------------------|--------------------------|----------------------|---------------------|---|---|
| Ditch / dyke    |       | Flat <10°             | ✓                   | Bankside trees           | D                    | Woodland            | ✓ |   |
| Gravel Pit      |       | Shallow <45°          | ✓                   | Shrubs                   | O                    | Conifer             |   |   |
| Sludge Pool     |       | Steep >45°            | ✓                   | Herbs                    | O                    | Arable Crop         |   |   |
| Lake            |       | Vertical/<br>undercut |                     | Reeds / sedges           | O                    | Rough grassland     |   |   |
| Reservoir       |       |                       |                     | Submerged Weed           | R                    | Managed grassland   | ✓ |   |
| Natural Pond    |       | Water Course          |                     | Tall Grass               | R                    | Fen / Carr / Marsh  |   |   |
| Artificial Pond |       | Ave depth (m) 0.2     |                     | Short Grass              | O                    | Urban / industrial  |   |   |
| Running Water   | ✓     | Ave Width (m) 0.5     |                     | Bare Earth               | F                    | Park / garden       |   |   |
| Marsh / bog     |       | Flow                  |                     | Grazing?                 |                      | General Comments    |   |   |
| Canal           |       | Static                |                     | Cattle                   | ✓                    | As previous         |   |   |
|                 | Shore | Base                  | Slow                | Horses                   |                      |                     |   |   |
| Boulder         |       |                       | Fast                | Sheep                    |                      |                     |   |   |
| Stone / Gravel  |       | ✓                     | Water Management    |                          | Bank trampled        |                     |   | ✓ |
| Sand            |       | ✓                     | Dredging            |                          | Bank fenced off      |                     |   |   |
| Silt / clay     |       | ✓                     | Weed cutting        |                          |                      |                     |   |   |
| Earth           | ✓     | ✓                     | Mowing              |                          | Level of disturbance |                     |   |   |
| Earth cliffs    | ✓     |                       | Water level control |                          | Between 1-5          |                     |   | 3 |
| Reinforced      |       |                       | Boating<br>Angling  |                          | (1 = low, 5 = High)  |                     |   |   |

Crazed (own)

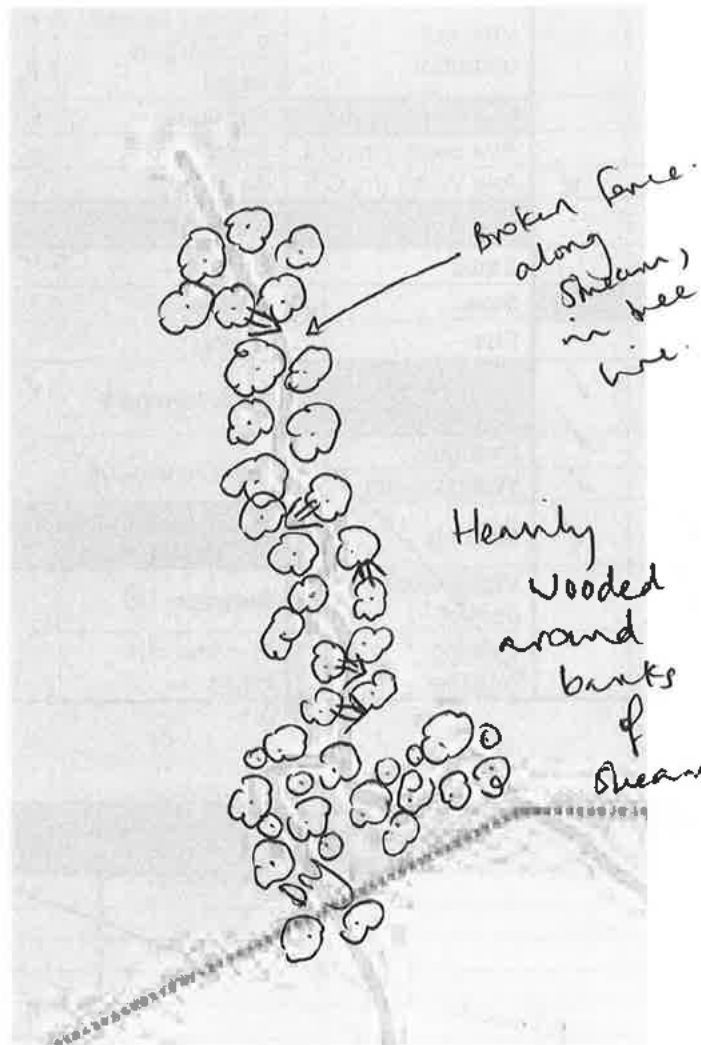
### Field Signs

|               | Tally      |  | Total | Other Animals             |  |
|---------------|------------|--|-------|---------------------------|--|
|               | Water Vole |  |       |                           |  |
| Sightings     |            |  |       | Mink                      |  |
| Latrines      |            |  |       | Sightings                 |  |
| Droppings     |            |  |       | Scats                     |  |
| Burrows       |            |  |       | Tracks                    |  |
| Feeding signs |            |  |       | Rat                       |  |
| Tracks        |            |  |       | Sightings                 |  |
| Runs          |            |  |       | Droppings                 |  |
| Lawns         |            |  |       | Tracks / runs             |  |
|               | Otter      |  |       | Other species / comments: |  |
| Sightings     |            |  |       |                           |  |
| Sprints       |            |  |       |                           |  |
| Tracks        |            |  |       |                           |  |

None found.

# Sketch of Site (indicating any Water Vole or Otter activity)

| Mature Trees          |    |
|-----------------------|----|
| Over-hanging Branches |    |
| Fallen Tree           |    |
| Exposed Roots         |    |
| Pollarded Tree        |    |
| Sapling               |    |
| Scrub                 |    |
| Hedgerow              |    |
| Fence                 |    |
| Reed/ sedge bed       |    |
| Artificial Bank       |    |
| Earth Cliff           |    |
| Pool                  |    |
| Riffle                |    |
| Rapids                |    |
| Waterfall             |    |
| Protruding Rock       |    |
| Culvert               |    |
| ANIMAL CODES          |    |
| Water vole            | Aa |
| Mink                  | Nv |
| Otter                 | Li |
| Rat                   | Rn |
| Field vole            | Ma |



| ADJACENT LAND-USE CODES    |                    |
|----------------------------|--------------------|
| BW                         | Broadleaf Wood     |
| WL                         | Wetland            |
| CP                         | Conifer Plantation |
| URB                        | Gardens and Urban  |
| TL                         | Tilled Land (crop) |
| IG                         | Improved Grassland |
| MH                         | Moorland/ heath    |
| RP                         | Rough Pasture      |
| OTHER FEATURES             |                    |
| Road bridge                |                    |
| Foot bridge                | FB                 |
| Weir                       |                    |
| Ford                       |                    |
| Outfall                    |                    |
| Dredgings/ Spoil           |                    |
| Silt bars                  |                    |
| Islands                    |                    |
| FIELD SIGN CODES           |                    |
| dr                         | Droppings          |
| la                         | Latrines           |
| sc                         | Scats/ Spraints    |
| bu                         | Burrows            |
| fs                         | Feeding signs      |
| lw                         | Lawn               |
| pr                         | Prints             |
| e.g. 2 water vole latrines |                    |
| ( 2 x Aa )                 |                    |

## Water Vole and Otter Survey Form

|                 |           |                |   |
|-----------------|-----------|----------------|---|
| Surveyors Names | CC + LT   | Watercourse    | ② <sup>South</sup> <del>water</del> = Section 3 (on plan) |
| Date            | 20/6/2025 | Site reference | southwater  |

### Habitat Assessment

| Main Habitat    |              | Bank profile          |                     | Bank Vegetation (DAFORN) |               | Land Use within 50m |   |  |
|-----------------|--------------|-----------------------|---------------------|--------------------------|---------------|---------------------|---|--|
| Ditch / dyke    | ✓            | Flat <10°             | ✓                   | Bankside trees           | D             | Woodland            | ✓ |  |
| Gravel Pit      |              | Shallow <45°          | ✓                   | Shrubs                   | O             | Conifer             |   |  |
| Sludge Pool     | Occasionally | Steep >45°            | ✓                   | Herbs                    | O             | Arable Crop         | ✓ |  |
| Lake            |              | Vertical/<br>undercut |                     | Reeds / sedges           | R             | Rough grassland     | ✓ |  |
| Reservoir       |              |                       |                     | Submerged Weed           | N             | Managed grassland   | ✓ |  |
| Natural Pond    |              | Water Course          |                     | Tall Grass               | O             | Fen / Carr / Marsh  |   |  |
| Artificial Pond |              | Ave depth (m)         | ✓                   | Short Grass              | O             | Urban / industrial  |   |  |
| Running Water   |              | Ave Width (m)         | ✓                   | Bare Earth               | F             | Park / garden       |   |  |
| Marsh / bog     |              | Flow                  |                     | Grazing?                 |               | General Comments    |   |  |
| Canal           |              | Static                |                     | Cattle                   |               |                     |   |  |
|                 | Shore        | Base                  | Slow                | Horses                   |               |                     |   |  |
| Boulder         |              |                       | Fast                | Sheep                    |               |                     |   |  |
| Stone / Gravel  |              | ✓                     | Water Management    |                          | Bank trampled |                     |   |  |
| Sand            |              |                       | Dredging            | Bank fenced off          |               |                     |   |  |
| Silt / clay     | ✓            | ✓                     | Weed cutting        |                          |               |                     |   |  |
| Earth           | ✓            | ✓                     | Mowing              | Level of disturbance     |               |                     |   |  |
| Earth cliffs    | ✓            |                       | Water level control | Between 1-5              | 2             |                     |   |  |
| Reinforced      |              |                       | Boating             | (1 = low, 5 = High)      |               |                     |   |  |
|                 |              |                       | Angling             |                          |               |                     |   |  |

Dry Stream

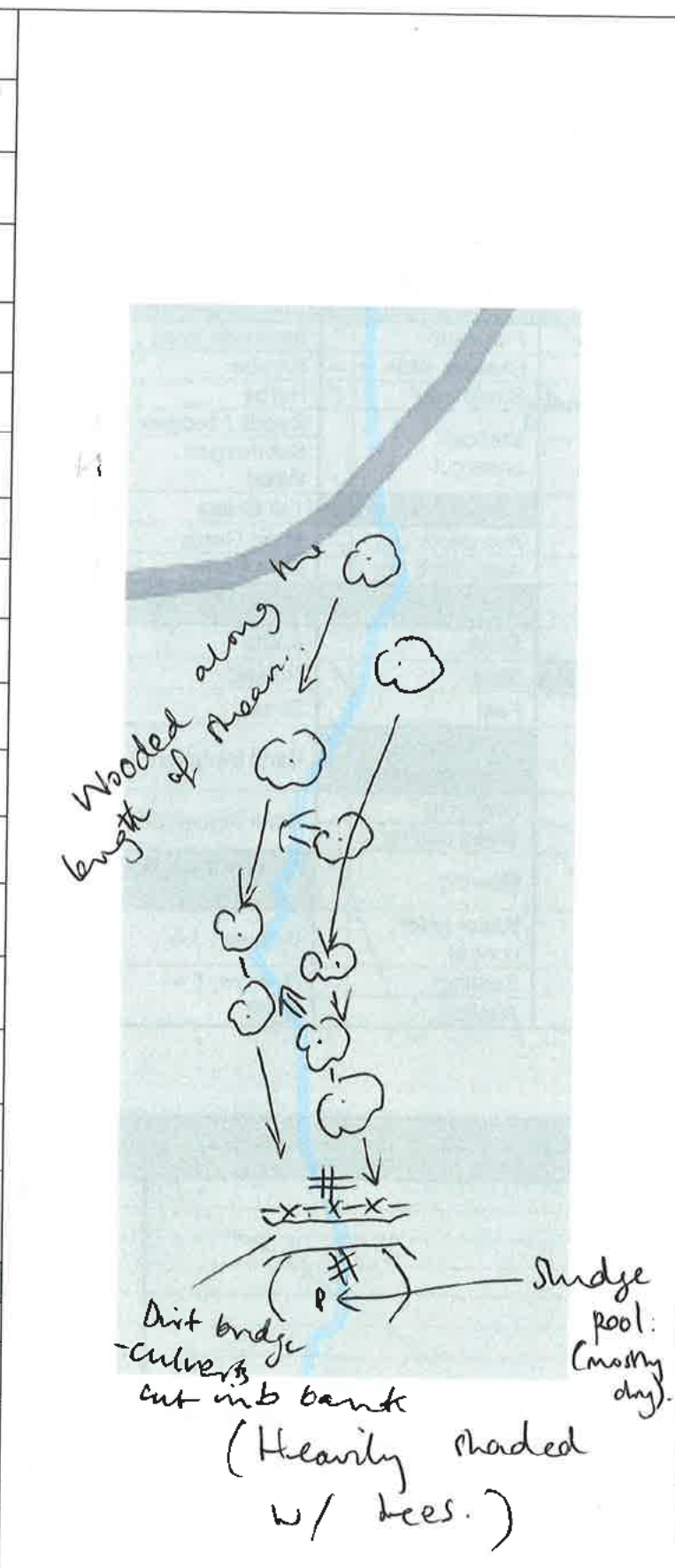
Some steep/cliff banks.

### Field Signs

|               | Tally      |  | Total | Other Animals |  |                           |  |
|---------------|------------|--|-------|---------------|--|---------------------------|--|
|               | Water Vole |  |       |               |  |                           |  |
| Sightings     | /          |  |       | Mink          |  |                           |  |
| Latrines      |            |  |       | /             |  | Sightings                 |  |
| Droppings     |            |  |       |               |  | Scats                     |  |
| Burrows       |            |  |       |               |  | Tracks                    |  |
| Feeding signs |            |  |       | /             |  | Rat                       |  |
| Tracks        |            |  |       |               |  | Sightings                 |  |
| Runs          |            |  |       |               |  | Droppings                 |  |
| Lawns         |            |  |       |               |  | Tracks / runs             |  |
|               |            |  |       | Otter         |  | Other species / comments: |  |
| Sightings     |            |  |       | /             |  |                           |  |
| Spraints      |            |  |       |               |  |                           |  |
| Tracks        |            |  |       |               |  |                           |  |

# Sketch of Site (indicating any Water Vole or Otter activity)

| Mature Trees          |    |
|-----------------------|----|
| Over-hanging Branches |    |
| Fallen Tree           |    |
| Exposed Roots         |    |
| Pollarded Tree        |    |
| Sapling               |    |
| Scrub                 |    |
| Hedgerow              |    |
| Fence                 |    |
| Reed/ sedge bed       |    |
| Artificial Bank       |    |
| Earth Cliff           |    |
| Pool                  |    |
| Riffle                |    |
| Rapids                |    |
| Waterfall             |    |
| Protruding Rock       |    |
| Culvert               |    |
| ANIMAL CODES          |    |
| Water vole            | Aa |
| Mink                  | Nv |
| Otter                 | Li |
| Rat                   | Rn |
| Field vole            | Ma |



| ADJACENT LAND-USE CODES    |                    |
|----------------------------|--------------------|
| BW                         | Broadleaf Wood     |
| WL                         | Wetland            |
| CP                         | Conifer Plantation |
| URB                        | Gardens and Urban  |
| TL                         | Tilled Land (crop) |
| IG                         | Improved Grassland |
| MH                         | Moorland/ heath    |
| RP                         | Rough Pasture      |
| OTHER FEATURES             |                    |
| Road bridge                |                    |
| Foot bridge                |                    |
| Weir                       |                    |
| Ford                       |                    |
| Outfall                    |                    |
| Dredgings/ Spoil           |                    |
| Silt bars                  |                    |
| Islands                    |                    |
| FIELD SIGN CODES           |                    |
| dr                         | Droppings          |
| la                         | Latrines           |
| sc                         | Scats/ Spraints    |
| bu                         | Burrows            |
| fs                         | Feeding signs      |
| lw                         | Lawn               |
| pr                         | Prints             |
| e.g. 2 water vole latrines |                    |
| ( 2 x Aa )                 |                    |

## Water Vole and Otter Survey Form

= Section 4  
section (on plan)

|                 |           |                |                           |
|-----------------|-----------|----------------|---------------------------|
| Surveyors Names | CE + LT   | Watercourse    | ② South section (on plan) |
| Date            | 20/6/2025 | Site reference | Southwater                |

### Habitat Assessment

Dry stream

| Main Habitat    |       | Bank profile          |   | Bank Vegetation (DAFORN) |   | Land Use within 50m  |   |
|-----------------|-------|-----------------------|---|--------------------------|---|----------------------|---|
| Ditch / dyke    | ✓     | Flat <10°             | ✓ | Bankside trees           | D | Woodland             | ✓ |
| Gravel Pit      |       | Shallow <45°          | ✓ | Shrubs                   | b | Conifer              |   |
| Sludge Pool     |       | Steep >45°            | ✓ | Herbs                    | O | Arable Crop          |   |
| Lake            |       | Vertical/<br>undercut |   | Reeds / sedges           | R | Rough grassland      | ✓ |
| Reservoir       |       |                       |   | Submerged<br>Weed        | N | Managed<br>grassland | ✓ |
| Natural Pond    |       | Water Course          |   | Tall Grass               | O | Fen / Carr / Marsh   |   |
| Artificial Pond |       | Ave depth (m)         |   | Short Grass              | D | Urban / industrial   |   |
| Running Water   |       | Ave Width (m)         |   | Bare Earth               | F | Park / garden        |   |
| Marsh / bog     |       | Flow                  |   | Grazing?                 |   | General Comments     |   |
| Canal           |       | Static                |   | Cattle                   |   |                      |   |
|                 | Shore | Slow                  |   | Horses                   |   |                      |   |
| Boulder         |       | Fast                  |   | Sheep                    |   |                      |   |
| Stone / Gravel  | ✓     | Water Management      |   | Bank trampled            |   |                      |   |
| Sand            |       | Dredging              |   | Bank fenced off          |   |                      |   |
| Silt / clay     | ✓     | Weed cutting          |   |                          |   |                      |   |
| Earth           | ✓     | Mowing                |   | Level of disturbance     |   |                      |   |
| Earth cliffs    | ✓     | Water level control   |   | Between 1-5              |   |                      |   |
| Reinforced      |       | Boating               |   | (1 = low, 5 = High)      | 2 |                      |   |
|                 |       | Angling               |   |                          |   |                      |   |

### Field Signs

|               | Tally      |  | Total | Other Animals |   |                           |  |
|---------------|------------|--|-------|---------------|---|---------------------------|--|
|               | Water Vole |  |       |               |   |                           |  |
| Sightings     | /          |  |       | Mink          |   |                           |  |
| Latrines      |            |  |       | Sightings     |   |                           |  |
| Droppings     |            |  |       | Scats         |   |                           |  |
| Burrows       |            |  |       | Tracks        |   |                           |  |
| Feeding signs |            |  |       | Rat           |   |                           |  |
| Tracks        |            |  |       | Sightings     |   |                           |  |
| Runs          |            |  |       | Droppings     | ✓ |                           |  |
| Lawns         |            |  |       | Tracks / runs | ✓ |                           |  |
|               |            |  |       | Otter         |   | Other species / comments: |  |
| Sightings     |            |  |       |               |   |                           |  |
| Sprints       |            |  |       |               |   |                           |  |
| Tracks        |            |  |       |               |   |                           |  |

# Sketch of Site (indicating any Water Vole or Otter activity)

|                       |    |                            |                         |                    |
|-----------------------|----|----------------------------|-------------------------|--------------------|
| Mature Trees          |    |                            | ADJACENT LAND-USE CODES |                    |
| Over-hanging Branches |    |                            | BW                      | Broadleaf Wood     |
| Fallen Tree           |    |                            | WL                      | Wetland            |
| Exposed Roots         |    |                            | CP                      | Conifer Plantation |
| Pollarded Tree        |    |                            | URB                     | Gardens and Urban  |
| Sapling               |    |                            | TL                      | Tilled Land (crop) |
| Scrub                 |    |                            | IG                      | Improved Grassland |
| Hedgerow              |    |                            | MH                      | Moortland/heath    |
| Fence                 |    |                            | RP                      | Rough Pasture      |
| Reed/ sedge bed       |    |                            | OTHER FEATURES          |                    |
| Artificial Bank       |    |                            | Road bridge             |                    |
| Earth Cliff           |    |                            |                         |                    |
| Pool                  |    |                            | Foot bridge             |                    |
| Riffle                |    |                            | FB                      |                    |
| Rapids                |    |                            | Weir                    |                    |
| Waterfall             |    |                            |                         |                    |
| Protruding Rock       |    |                            | Ford                    |                    |
| Culvert               |    |                            |                         |                    |
| ANIMAL CODES          |    |                            | Outfall                 |                    |
| Water vole            | Aa |                            |                         |                    |
| Mink                  | Nv | Dredgings/ Spoil           |                         |                    |
| Otter                 | Li |                            |                         |                    |
| Rat                   | Rn | Silt bars                  |                         |                    |
| Field vole            | Ma |                            |                         |                    |
|                       |    | Islands                    |                         |                    |
|                       |    |                            |                         |                    |
|                       |    | FIELD SIGN CODES           |                         |                    |
|                       |    | dr                         | Droppings               |                    |
|                       |    | la                         | Latrines                |                    |
|                       |    | sc                         | Scats/Spraints          |                    |
|                       |    | bu                         | Burrows                 |                    |
|                       |    | fs                         | Feeding signs           |                    |
|                       |    | lw                         | Lawn                    |                    |
|                       |    | pr                         | Prints                  |                    |
|                       |    | e.g. 2 water vole latrines |                         |                    |
|                       |    | 2 x Aa                     |                         |                    |

## Water Vole and Otter Survey Form

|                 |           |                |            |
|-----------------|-----------|----------------|------------|
| Surveyors Names | CL + LT   | Watercourse    | ③          |
| Date            | 20/6/2025 | Site reference | Southwater |








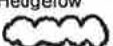







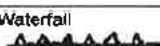









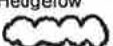







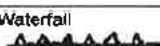



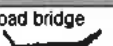



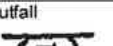
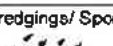

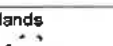
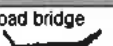



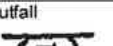
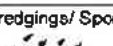

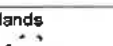







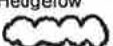







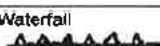


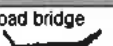



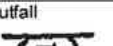
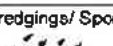

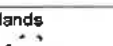
### Habitat Assessment

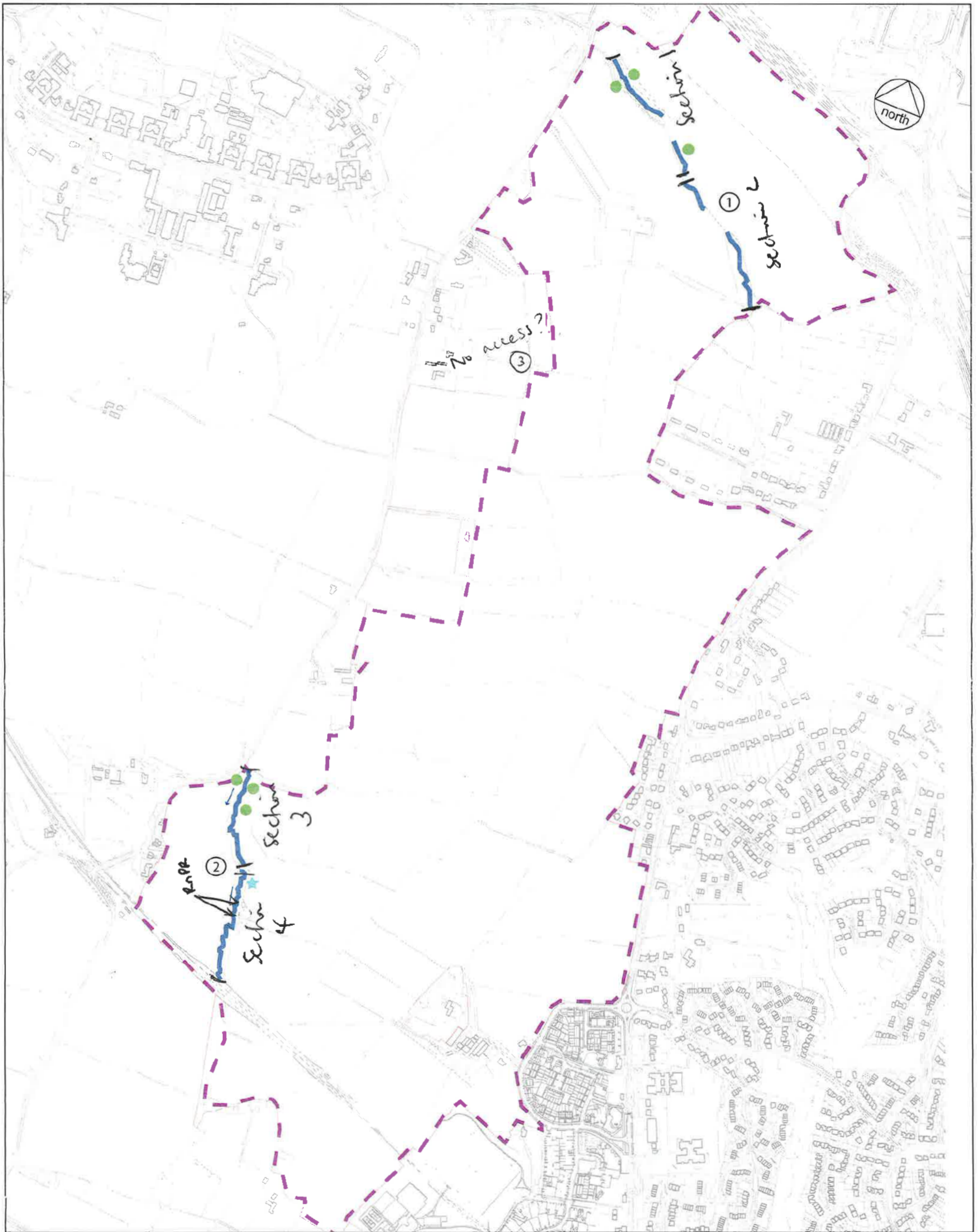
| Main Habitat    |       | Bank profile          |  | Bank Vegetation (DAFORN) |  | Land Use within 50m  |  |
|-----------------|-------|-----------------------|--|--------------------------|--|----------------------|--|
| Ditch / dyke    |       | Flat <10°             |  | Bankside trees           |  | Woodland             |  |
| Gravel Pit      |       | Shallow <45°          |  | Shrubs                   |  | Conifer              |  |
| Sludge Pool     |       | Steep >45°            |  | Herbs                    |  | Arable Crop          |  |
| Lake            |       | Vertical/<br>undercut |  | Reeds / sedges           |  | Rough grassland      |  |
| Reservoir       |       |                       |  | Submerged<br>Weed        |  | Managed<br>grassland |  |
| Natural Pond    |       | Water Course          |  | Tall Grass               |  | Fen / Carr / Marsh   |  |
| Artificial Pond |       | Ave depth (m)         |  | Short Grass              |  | Urban / industrial   |  |
| Running Water   |       | Ave Width (m)         |  | Bare Earth               |  | Park / garden        |  |
| Marsh / bog     |       | Flow                  |  | Grazing?                 |  | General Comments     |  |
| Canal           |       | Static                |  | Cattle                   |  |                      |  |
|                 | Shore | Slow                  |  | Horses                   |  |                      |  |
|                 | Base  | Fast                  |  | Sheep                    |  |                      |  |
| Stone / Gravel  |       | Water Management      |  | Bank trampled            |  |                      |  |
| Sand            |       | Dredging              |  | Bank fenced off          |  |                      |  |
| Silt / clay     |       | Weed cutting          |  |                          |  |                      |  |
| Earth           |       | Mowing                |  | Level of disturbance     |  |                      |  |
| Earth cliffs    |       | Water level control   |  | Between 1-5              |  |                      |  |
| Reinforced      |       | Boating               |  | (1 = low, 5 = High)      |  |                      |  |
|                 |       | Angling               |  |                          |  |                      |  |

### Field Signs







|               | Tally      |  | Total | Other Animals             |  |
|---------------|------------|--|-------|---------------------------|--|
|               | Water Vole |  |       |                           |  |
| Sightings     |            |  |       | Mink                      |  |
| Latrines      |            |  |       | Sightings                 |  |
| Droppings     |            |  |       | Scats                     |  |
| Burrows       |            |  |       | Tracks                    |  |
| Feeding signs |            |  |       | Rat                       |  |
| Tracks        |            |  |       | Sightings                 |  |
| Runs          |            |  |       | Droppings                 |  |
| Lawns         |            |  |       | Tracks / runs             |  |
|               | Otter      |  |       | Other species / comments: |  |
| Sightings     |            |  |       |                           |  |
| Spraints      |            |  |       |                           |  |
| Tracks        |            |  |       |                           |  |

# Sketch of Site (indicating any Water Vole or Otter activity)

| <table border="1"> <tr><td>Mature Trees</td><td></td></tr> <tr><td>Over-hanging Branches</td><td></td></tr> <tr><td>Fallen Tree</td><td></td></tr> <tr><td>Exposed Roots</td><td></td></tr> <tr><td>Pollarded Tree</td><td></td></tr> <tr><td>Sapling</td><td></td></tr> <tr><td>Scrub</td><td></td></tr> <tr><td>Hedgerow</td><td></td></tr> <tr><td>Fence</td><td></td></tr> <tr><td>Reed/ sedge bed</td><td></td></tr> <tr><td>Artificial Bank</td><td></td></tr> <tr><td>Earth Cliff</td><td></td></tr> <tr><td>Pool</td><td></td></tr> <tr><td>Riffle</td><td></td></tr> <tr><td>Rapids</td><td></td></tr> <tr><td>Waterfall</td><td></td></tr> <tr><td>Protruding Rock</td><td></td></tr> <tr><td>Culvert</td><td></td></tr> </table> | Mature Trees  |  | Over-hanging Branches |  | Fallen Tree |  | Exposed Roots |  | Pollarded Tree |  | Sapling    |  | Scrub |  | Hedgerow |  | Fence |  | Reed/ sedge bed |  | Artificial Bank |  | Earth Cliff |  | Pool |  | Riffle |  | Rapids |  | Waterfall |  | Protruding Rock |  | Culvert |  |  | <table border="1"> <tr><th colspan="2">ADJACENT LAND-USE CODES</th></tr> <tr><td>BW</td><td>Broadleaf Wood</td></tr> <tr><td>WL</td><td>Wetland</td></tr> <tr><td>CP</td><td>Conifer Plantation</td></tr> <tr><td>URB</td><td>Gardens and Urban</td></tr> <tr><td>TL</td><td>Tilled Land (crop)</td></tr> <tr><td>IG</td><td>Improved Grassland</td></tr> <tr><td>MH</td><td>Moorland/ heath</td></tr> <tr><td>RP</td><td>Rough Pasture</td></tr> <tr><th colspan="2">OTHER FEATURES</th></tr> <tr><td>Road bridge</td><td></td></tr> <tr><td>Foot bridge</td><td></td></tr> <tr><td>Weir</td><td></td></tr> <tr><td>Ford</td><td></td></tr> <tr><td>Outfall</td><td></td></tr> <tr><td>Dredgings/ Spoil</td><td></td></tr> <tr><td>Silt bars</td><td></td></tr> <tr><td>Islands</td><td></td></tr> <tr><th colspan="2">FIELD SIGN CODES</th></tr> <tr><td>dr</td><td>Droppings</td></tr> <tr><td>la</td><td>Latrines</td></tr> <tr><td>sc</td><td>Scats/ Spraints</td></tr> <tr><td>bu</td><td>Burrows</td></tr> <tr><td>fs</td><td>Feeding signs</td></tr> <tr><td>lw</td><td>Lawn</td></tr> <tr><td>pr</td><td>Prints</td></tr> <tr><td colspan="2">e.g. 2 water vole latrines</td></tr> <tr><td colspan="2" style="text-align: center;">( 2 x Aa )</td></tr> </table> | ADJACENT LAND-USE CODES |  | BW | Broadleaf Wood | WL | Wetland | CP | Conifer Plantation | URB | Gardens and Urban | TL | Tilled Land (crop) | IG | Improved Grassland | MH | Moorland/ heath | RP | Rough Pasture | OTHER FEATURES |  | Road bridge |  | Foot bridge |  | Weir |  | Ford |  | Outfall |  | Dredgings/ Spoil |  | Silt bars |  | Islands |  | FIELD SIGN CODES |  | dr | Droppings | la | Latrines | sc | Scats/ Spraints | bu | Burrows | fs | Feeding signs | lw | Lawn | pr | Prints | e.g. 2 water vole latrines |  | ( 2 x Aa ) |  |
|--|---|---|-----------------------|---|-------------|---|---------------|---|----------------|---|------------|---|-------|---|----------|---|-------|---|-----------------|--|-----------------|---|-------------|---|------|---|--------|---|--------|---|-----------|---|-----------------|---|---------|---|---|---|-------------------------|--|----|----------------|----|---------|----|--------------------|-----|-------------------|----|--------------------|----|--------------------|----|-----------------|----|---------------|----------------|--|-------------|---|-------------|---|------|---|------|---|---------|---|------------------|---|-----------|---|---------|---|------------------|--|----|-----------|----|----------|----|-----------------|----|---------|----|---------------|----|------|----|--------|----------------------------|--|------------|--|
| Mature Trees   |      |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Over-hanging Branches  |      |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Fallen Tree  |      |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Exposed Roots  |      |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Pollarded Tree   |      |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Sapling  |      |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Scrub  |      |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Hedgerow   |      |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Fence  |      |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Reed/ sedge bed  |     |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Artificial Bank  |    |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Earth Cliff  |    |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Pool   |    |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Riffle   |    |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Rapids   |    |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Waterfall  |    |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Protruding Rock  |    |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Culvert  |    |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| ADJACENT LAND-USE CODES  |   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| BW   | Broadleaf Wood  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| WL   | Wetland   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| CP   | Conifer Plantation  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| URB  | Gardens and Urban   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| TL   | Tilled Land (crop)  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| IG   | Improved Grassland  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| MH   | Moorland/ heath   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| RP   | Rough Pasture   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| OTHER FEATURES   |   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Road bridge  |  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Foot bridge  |  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Weir   |  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Ford   |  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Outfall  |  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Dredgings/ Spoil   |  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Silt bars  |  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Islands  |  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| FIELD SIGN CODES   |   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| dr   | Droppings   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| la   | Latrines  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| sc   | Scats/ Spraints   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| bu   | Burrows   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| fs   | Feeding signs   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| lw   | Lawn  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| pr   | Prints  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| e.g. 2 water vole latrines   |   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| ( 2 x Aa )   |   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| <table border="1"> <tr><th colspan="2">ANIMAL CODES</th></tr> <tr><td>Water vole</td><td>Aa</td></tr> <tr><td>Mink</td><td>Nv</td></tr> <tr><td>Otter</td><td>Li</td></tr> <tr><td>Rat</td><td>Rn</td></tr> <tr><td>Field vole</td><td>Ma</td></tr> </table>   | ANIMAL CODES  |   | Water vole            | Aa  | Mink        | Nv  | Otter         | Li  | Rat            | Rn  | Field vole | Ma  |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| ANIMAL CODES   |   |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Water vole   | Aa  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Mink   | Nv  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Otter  | Li  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Rat  | Rn  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |
| Field vole   | Ma  |   |                       |   |             |   |               |   |                |   |            |   |       |   |          |   |       |   |                 |  |                 |   |             |   |      |   |        |   |        |   |           |   |                 |   |         |   |   |   |                         |  |    |                |    |         |    |                    |     |                   |    |                    |    |                    |    |                 |    |               |                |  |             |   |             |   |      |   |      |   |         |   |                  |   |           |   |         |   |                  |  |    |           |    |          |    |                 |    |         |    |               |    |      |    |        |                            |  |            |  |



**KEY**

-  Site boundary
-  Survey area
-  Section of stream surveyed and direction of flow
-  Rat Prints
-  Mink Scats
-  Watercourse Number

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**Land North West of Southwater**  
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**Otter and Water Vole Survey Summary Plan**  
 SCALE AT A3: NTS DATE: June 2022  
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