
PRELIMINARY ECOLOGICAL APPRAISAL

Land off Highfield Road, Bubwith

Rev 1: September 2023



Environment & Ecology Ltd

MAB Environment & Ecology Ltd
11a Kirkgate, Thirsk YO7 1PQ
Tel. 01845 574125

Email: ione@mab-ecology.co.uk

www.mab-ecology.co.uk

Registered in the U.K. no.6504129

Registered office: Black Hill Barn, Knayton, Thirsk YO7 4AZ

Author	Giles Manners CEnv MCIEEM Updated by Jordan Brandrick BSc (Hons)	
Status	Date	Approved by:
PEAR	21-03-2023	Jake Walker
Rev 1: updated with emergence survey results	23-09-2023	Giles Manners CEnv MCIEEM

Site:

Land off Highfield Rd,
Bubwith,
York

Dates:

Surveyed: 21st Feb 2023

Emergence survey of Building 1: 5th September 2023

Client:

John Peach
Holly Tree Farm
Harlthorpe
Selby
YO8 6DW

Client's agent:

Pearce Bottomley LLP
10 High Street
Tadcaster
LS24 9AT

Local Planning Authority:

East Riding

MAB ref:

2023-1460

Contents

1 Summary	6
2 Introduction	7
3 Site Description	8
4 Methodology.....	9
4.1 Desktop study	9
4.2 Field survey	10
4.3 Constraints and Limitations	13
5 Baseline ecological conditions	14
5.1 Designated sites	14
5.2 Habitats	16
5.3 Assessment of habitats	25
5.4 Assessment of protected and priority species.....	25
6 Description of the proposed development.....	29
7 Ecological constraints.....	30
7.1 Designated sites	30
7.2 Habitats	30
7.3 Species and species groups.....	30
8 Further ecological surveys	31
8.1 Bats.....	31
8.2 Other species / habitats	31
9 Mitigation and Compensation	31
10 Opportunities for ecological enhancement.....	32
11 References	33
Appendix 1: NEYEDC records	34
Appendix 2: Integral bat and bird box examples.....	35
Appendix 3: Emergence survey.....	36
Appendix 4: Good Working Practices.	38

Figure 1: Site location 1:25,000.	8
Figure 2 Site plan as existing with red line showing area subject to planning permission.....	8
Figure 3 Nationally designated sites	14
Figure 4 Internationally designated sites.....	15
Figure 5 Local sites	16
Figure 6 - Map showing areas of notable habitat listed on the Habitat Inventories. .	17
Figure 7 Aerial view of immediate surroundings.....	17
Figure 8 Aerial view of wider landscape	18
Figure 9 Potential bat roost habitat.....	27
Figure 10: Proposed development plans.....	29
Figure 11 - ibstock bat roost entrance brick (www.ibstock.com).....	35
Figure 12 - ibstock enclosed bat box 'B' (www.ibstock.com)	35
Figure 13 - Schwegler bat tube 1FR (www.nhbs.com)	35
Figure 14 - Schwegler swift and bat box 1MF with bat access (www.nhbs.com)	35
Figure 15 - Brick sparrow box (www.nhbs.com).....	35
Figure 16 - Schwegler sparrow terrace 1SP (www.nhbs.com)	35
Figure 17 – Surveyor locations and bat activity recorded during survey.....	37
Table 1: Guidelines for assessing the suitability of proposed development sites for bats. Adapted from BCT Bat surveys for Professional Ecologists, Good Practice Guidelines 2016.	11
Table 2: Target notes	21

1 Summary

The Preliminary Ecological Appraisal found that the proposed development on land off Highfield Road would have ecological impact on nesting birds via loss of areas of bramble and hawthorn scrub and a small section of hedge for access.

No other significant ecological constraints were identified – the land comprises arable land with hedges, trees and a ditch on the boundary.

Hedges, trees and ditches should be buffered from the impacts of construction and operation.

There will be no impact on designated sites.

A BNG baseline has been established using UK Habs mapping; net gain will be calculated on a separate document when development proposals are available.

Abundant opportunities for ecological enhancement exist within the ownership boundaries: scrub/woodland planting and pond creation would be appropriate.

A potential bat roost assessment was carried out on the farm buildings; one small brick building was found to have low potential. An emergence survey of this building was carried out in September 2023 which identified no roosts within the building. Works will therefore only result in a loss in potential bat roost habitat.

2 Introduction

MAB Environment and Ecology Ltd was commissioned by Pearce Bottomley to undertake a Preliminary Ecological Appraisal (PEA) of an area of land off Highfield Rd Bubwith, to accompany a planning application for a housing development.

The site is located at Central Grid Ref = SE71953614, Postcode = YO8 6LY. The site location is shown on Figure 1, **Error! Reference source not found.** and red line planning application boundary in Figure 2.

The objectives of this report are to:

- Identify species and habitats on site, with particular reference to protected and notable species
- Detail the need for any further ecological survey work
- Assess the potential impact of the proposed development on habitats and protected or notable species
- Identify potential opportunities for biodiversity enhancement
- To outline any necessary or recommended mitigation and compensation proposals

MAB Environment and Ecology Ltd is a registered practice of the Chartered Institute of Ecology and Environmental Management (CIEEM), and all staff follow the Institute's Code of Professional Conduct when carrying out ecological work.

3 Site Description

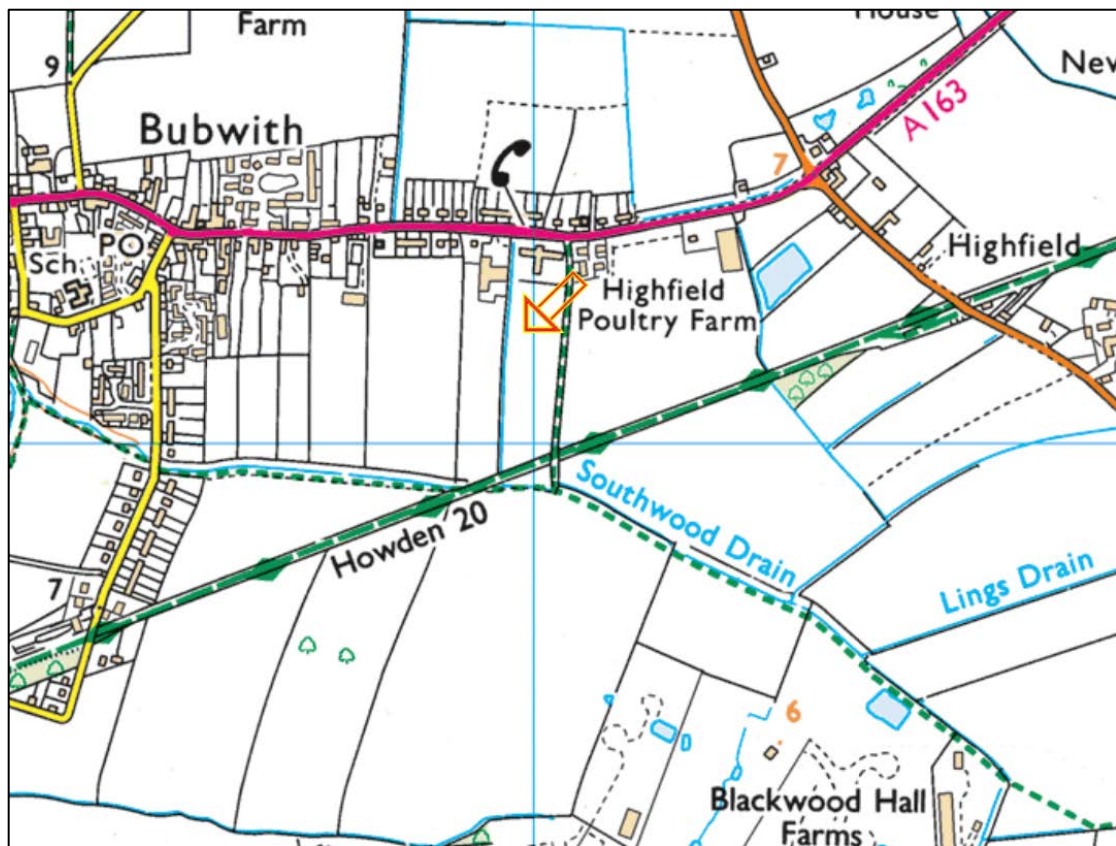


Figure 1: Site location 1:25,000.

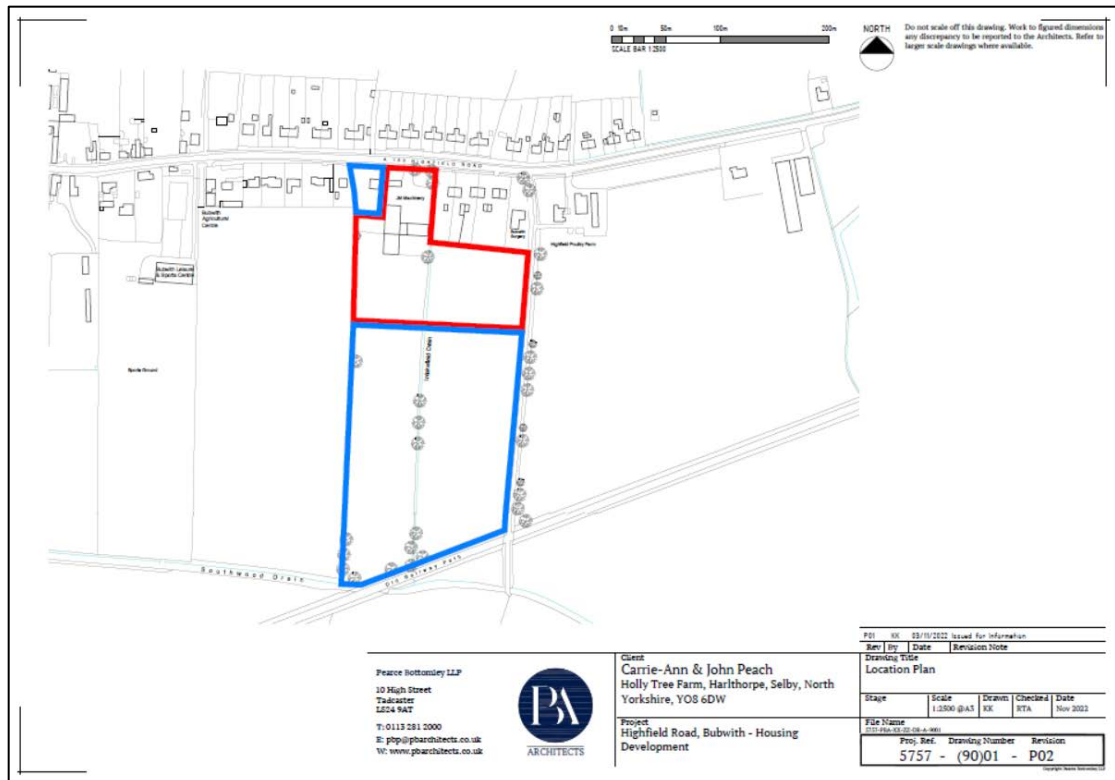


Figure 2 Site plan as existing with red line showing area subject to planning permission.

4 Methodology

4.1 Desktop study

4.1.1 NEYEDC were commissioned to provide records of protected or notable species within 2km of the site. The search was extended to include any statutory, non-statutory sites and notable habitats.

4.1.2 DEFRA's interactive MAGIC map was used for a baseline assessment of available environmental information of over 300 datasets including Priority Habitats & Species inventories, Designations, Environmental & Historic Landscape Agreements, SSSI impact zones, and Wildlife Licenses.

4.1.3 Aerial imagery from Google Earth and government websites 'MAGIC' and were used to search for ponds within 500m of the site.

4.2 Field survey

4.2.1 Giles Manners CEnv MCIEEM, a director of MAB Environment & Ecology Ltd.

Giles has been a professional ecologist since 2004 and has a Class Survey Licence WML CL20 (Bat Survey Level 4) registration number 2015-10306-CLS-CLS, alongside a Class Licence WML CL16 (Volunteer Bat Roost Visitor Level 2) – Natural England trainer license 2015-10305-CLS-CLS. Giles is also licensed by NE to survey for GCN's - Class Licence WML-CL08 (Great Crested Newt Class 1) registration number 2014-5604-CLS-CLS. He is also a zoologist of over 20 years' experience, a full member of the Institute of Ecology and Environmental Management and a Chartered Environmentalist.

4.2.2 UK HABS habitat survey of the site was conducted following standard published

guidelines (Butcher et al, 2020). This involved a walkover of the site, mapping all habitats present which fell into the appropriate Minimum Mapping Units (MMU), using a handheld GPS tablet with Qfield. MMU's were decided upon pre survey. Small scale MMU's = Area 25m², linear feature 5m. Large scale MMU = Area 400m², Linear feature 20m. The survey was extended to include records of protected or notable fauna and the habitats were evaluated for their potential to support such fauna. Any invasive plant species listed on Schedule 9 of the Wildlife and Countryside Act were also recorded.

4.2.3 Hedgerows within or forming the external boundaries to the site which have a

continuous length of or exceeding 20m were surveyed in accordance with the Hedgerow Regulations 1997. Survey results were used to determine whether any of the hedgerows meet criteria listed in Part II of Schedule 1 and would therefore be deemed an 'important' hedge under the regulations. Hedgerows forming the boundary of the curtilage of a dwelling-house are not covered by the regulations and were not surveyed.

4.2.4 Trees marked for removal, or which may be affected by the development

scheme were assessed during the day from the ground using close focusing binoculars and a halogen torch (500,000 candle power). Features such as woodpecker holes, splits, cracks, rot holes, dense ivy, and peeling bark were looked for which are

commonly used by bats for roosting and for shelter. Any features were then inspected for any signs of bat use, including scratches or staining around potential access points, bat droppings bats, and the sounds / smells of bat roosts.

4.2.5 Other trees within the site and areas of vegetation were also assessed for value to bats and birds, and their importance as foraging and commuting habitat.

4.2.6 Any buildings on site were assessed for their degree of potential to support roosting bats. This includes assessing the building design, materials and condition.

Colour code	Bat roost potential.	Roosting habitats	Commuting and foraging habitats
Red	High risk	A structure or tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for longer periods of time due to their size, shelter, protection, conditions and surrounding habitat.	Continuous, high-quality habitat that is well connected to the wider landscape that is likely to be used regularly by commuting bats such as river valleys, streams, hedgerows, lines of trees and woodland edge. High-quality habitat that is well connected to the wider landscape that is likely to be used regularly by foraging bats such as broadleaved woodland, tree-lined watercourses and grazed parkland. Site is close to and connected to known roosts.
Amber	Moderate risk	A structure or tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of high conservation status (with respect to roost type only-the assessments in this table are made irrespective of species conservation status, which is established after presence is confirmed).	Continuous habitat connected to the wider landscape that could be used by bats for commuting such as a line of trees and scrub or linked back gardens. Habitat that is connected to the wider landscape that could be used by bats for foraging such as trees, scrub, grassland or water.
Yellow	Low risk	A structure with one or more potential roost sites that could be used by individual bats opportunistically. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (i.e. Unlikely to be suitable for maternity or hibernation)	Habitat that could be used by small numbers of commuting bats such as gappy hedgerow or unvegetated stream, but isolated, i.e. Not very well connected to the surrounding landscape by other habitat. Suitable but isolated habitat that could only be used by small numbers of foraging bats such as a lone tree (not in a parkland situation) or a patch of scrub.
Grey	Negligible risk	Negligible habitat features on site likely to be used by roosting bats.	Negligible habitat features on site likely to be used by commuting or foraging bats.

Table 1: Guidelines for assessing the suitability of proposed development sites for bats. Adapted from BCT Bat surveys for Professional Ecologists, Good Practice Guidelines 2016.

4.2.7 The interior and exterior of the buildings were inspected for bats and bat habitat during the day. All normal signs of bat use were looked for, including bats, bat droppings, feeding waste, entry and exit holes, grease marks, dead bats, and the sounds/smells of bat roosts.

4.2.8 An emergence survey was carried out using two surveyors with ultra-sound detectors (Pettersson D240x and Elekon Batlogger). The D240x detector was set to 10x

expansion with manual triggering with an Edirol R09 WAV solid state recording device for the time expansion channel, with heterodyne output through the other channel. Time expansion recordings were analysed with BatSound software.

4.2.9 Surveyors used were:

- Alice Brown (AB); she is a Consultant Ecologist for MAB. She is a qualifying member of CIEEM and has a BSc (Hons) in Ecology and Conservation. She has worked for MAB since the beginning of 2022 and holds a Class Survey Licence CL17 (Bat Survey Level 1) registration number 2023-11025-CL17-BAT.
- Rachel Boulton (RB); she is an assistant ecologist for MAB.

4.2.10 The location of the site and the surrounding habitat were also assessed for value to bats. This includes proximity of the site to good bat foraging habitat such as woodland and water bodies and if the site is linked to such habitats by linear features like hedgerows, woodland edges or rivers which bats use to commute around the environment.

4.2.11 All signs of breeding bird activity were looked for.

4.2.12 Habitat evaluation for reptiles was undertaken focusing on potential areas for reptile basking in sheltered locations. Potential refugia such as rabbit burrows, brash piles, cracks and gaps in rocks, stone piles etc were noted. Throughout the walkover survey, the site was walked slowly looking out for reptiles and listening for any rustles in the undergrowth.

4.2.13 The site was surveyed for evidence of badgers. Field signs include setts (noting number of entrances and evidence/level of recent activity); latrines; well-worn pathways; footprints; snuffle holes; hairs caught in boundary fences; scratching posts; smells.

4.2.14 Habitat evaluation for hedgehogs was undertaken; hedgehogs may seek shelter in vegetation under hedges, and some hedgerows may be suitable habitats for summer breeding nests and winter hibernacula. Field signs (e.g., tracks, droppings) were also looked for.

4.3 Constraints and Limitations

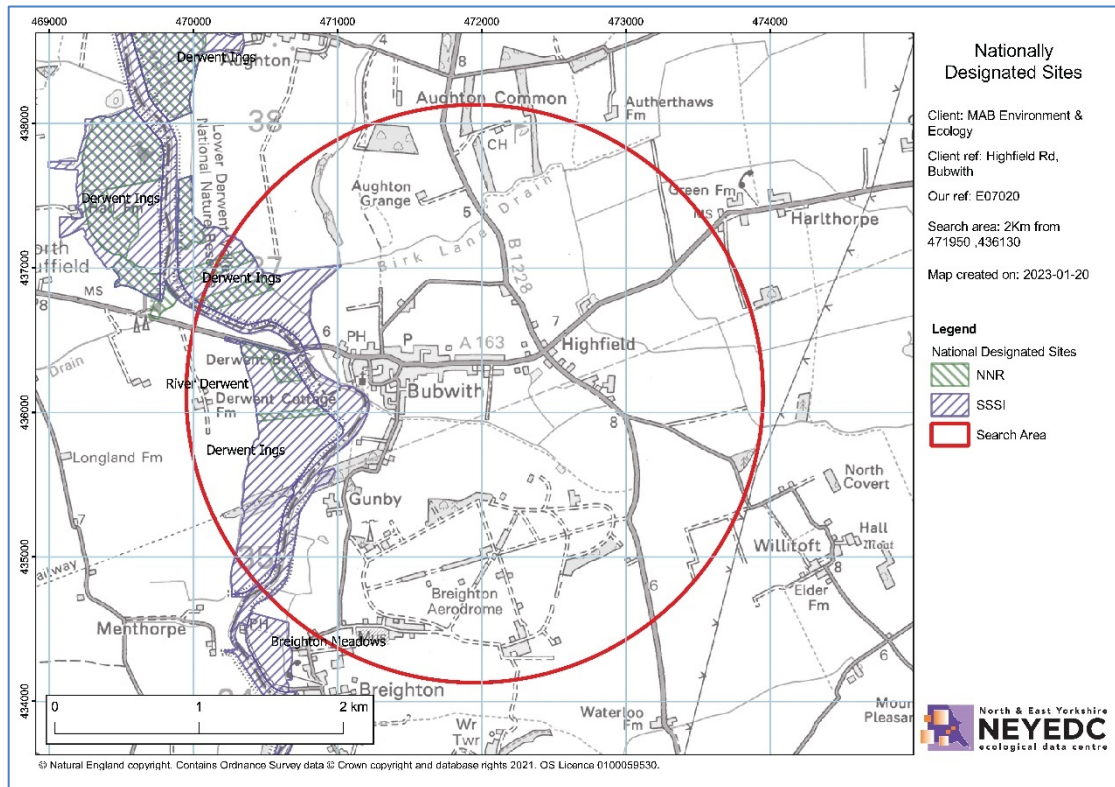
There are no significant constraints on the survey in relation to access to the site. Surveying took place outside of bird nesting season, but this was not considered a significant constraint as usage by birds can be predicted. Botanical surveying was limited by season.

Great crested newt survey methodology was not available at the time of the scoping survey, but in the absence of suitable habitat this was not considered a constraint.

5 Baseline ecological conditions

5.1 Designated sites

The site boundary is 670m east of the Derwent Ings SSSI, SAC & SPA (which share the same boundary) but it is separated ecologically by the village and a road. See Figs 3 & 4.



PEA: Land off Highfield Rd, Bubwith, York

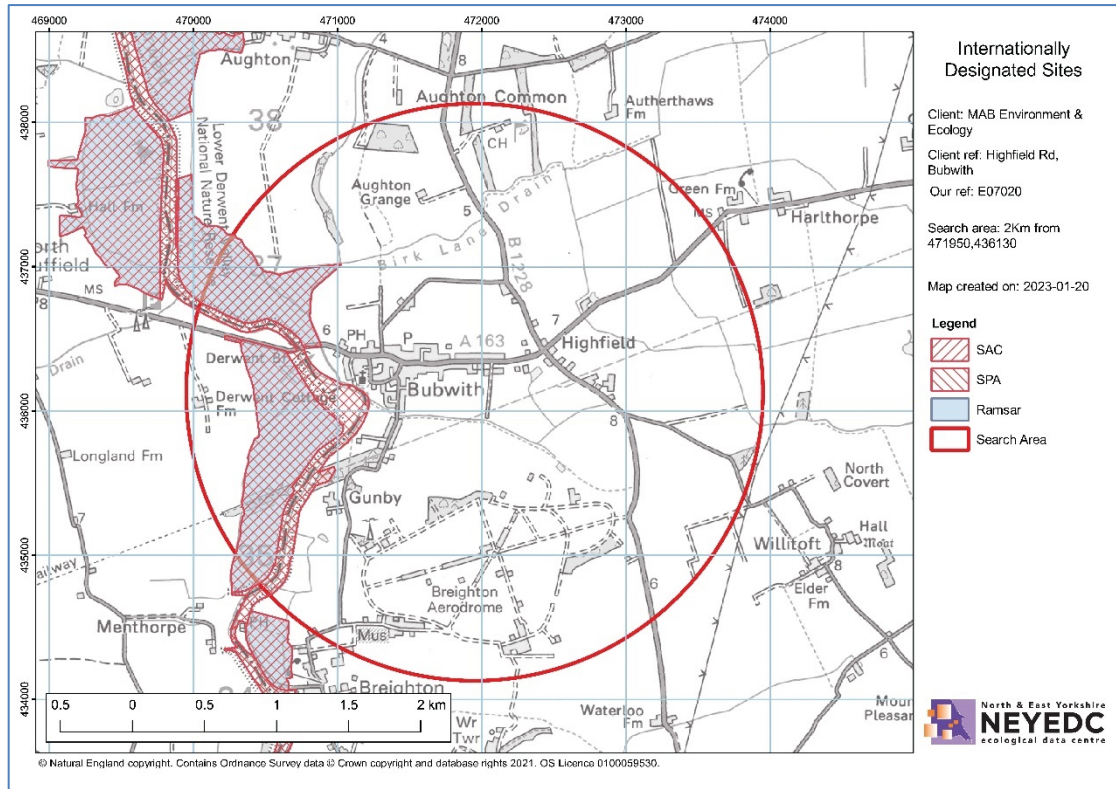


Figure 4 Internationally designated sites

There are 4 local sites within the 2km search radius – a Local Wildlife Site runs along the dismantled railway just south of the site boundary. See Fig 5.

PEA: Land off Highfield Rd, Bubwith, York

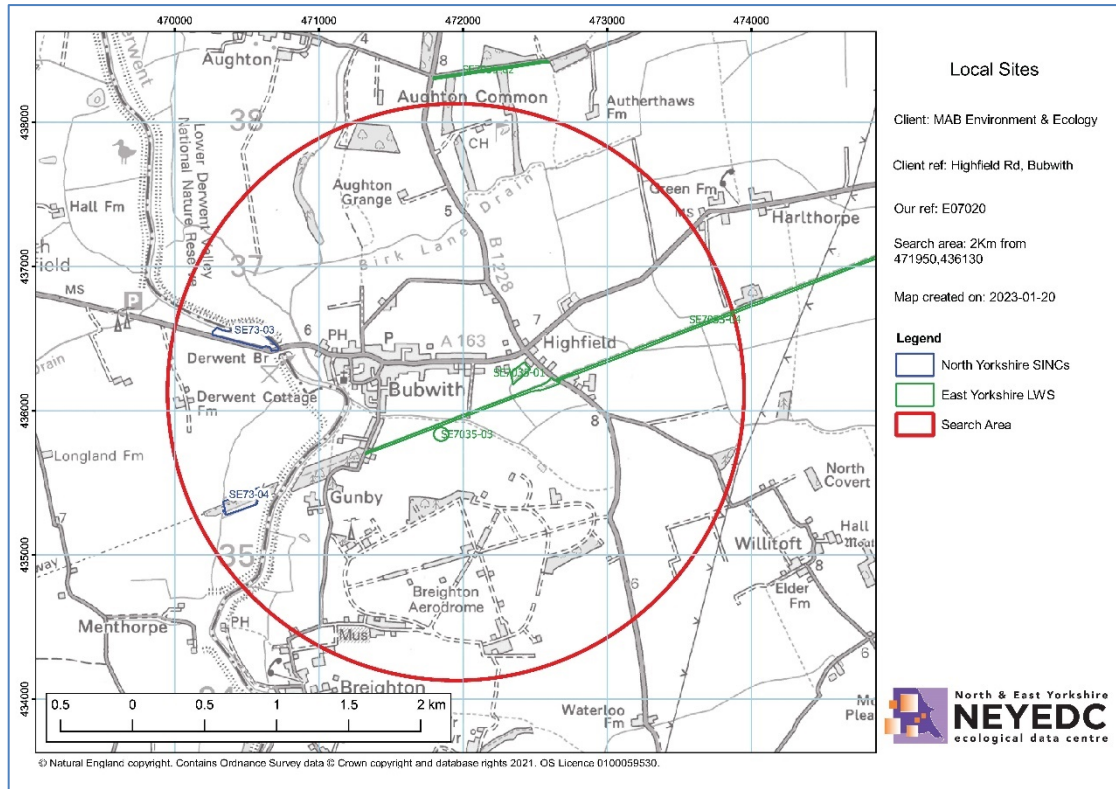


Figure 5 Local sites

5.2 Habitats

5.2.1 Surrounding Habitats

There is a small orchard near the site (see Fig 6). Other than the designated areas described in 5.1, the surrounding land is mostly arable with hedges, ditches, and patches of woodland. See Figs 7 & 8.

PEA: Land off Highfield Rd, Bubwith, York

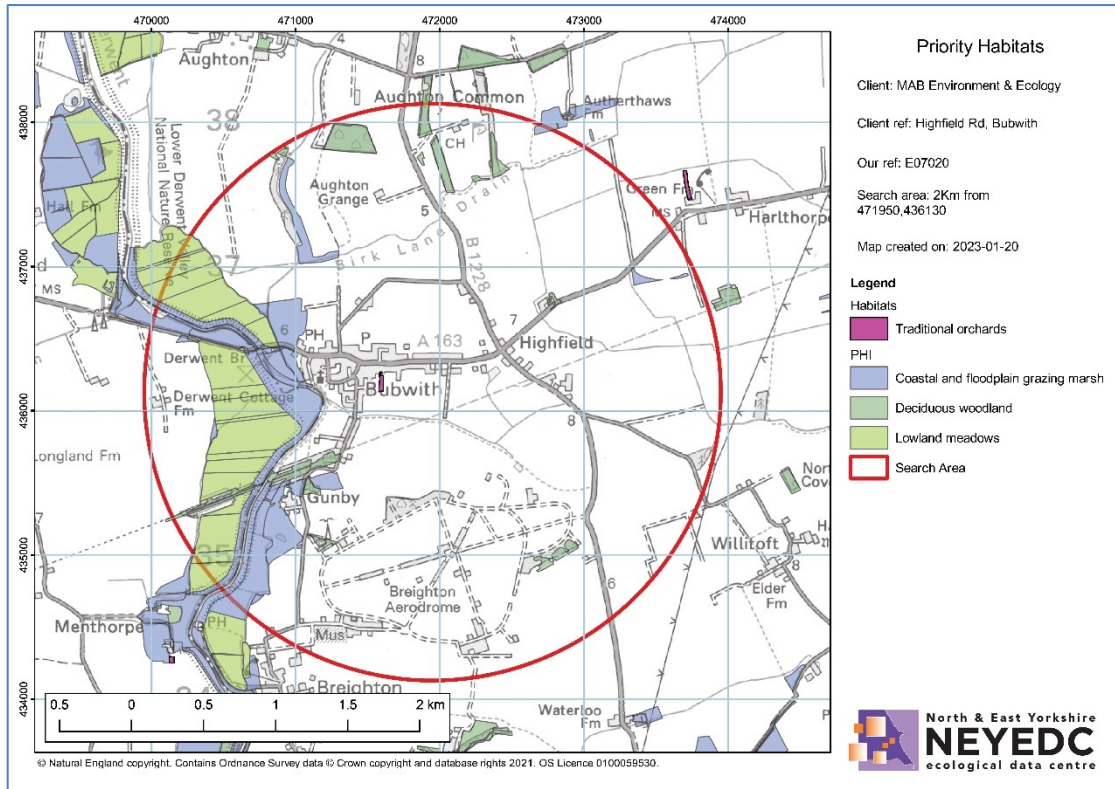


Figure 6 - Map showing areas of notable habitat listed on the Habitat Inventories.



Figure 7 Aerial view of immediate surroundings



Figure 8 Aerial view of wider landscape

Ponds & Watercourses

One pond is 320m to the east of the site (see Fig 1); the pond was not assessed. There is a ditch running through the site, and a main drain just south of the boundary. There are no ponds on site or within 250m of the site boundary.

5.2.2 Habitats on site.

Phase 1 survey

The habitats found on site are highlighted within the Phase 1 habitat plan (Figure 9). Target notes (TN) are included in Table 2, which gives more detailed information about the habitats present, along with preliminary species lists (noting survey limitation due to season).

Survey Metadata
Surveyor: Giles Manners
UK Habs edition: Professional
Minimum Mapping Unit (MMU): Areas: 25m ² , Linear features: 5m
Highest level of primary habitat achievable: Lvl 5
Map Projection: EPSG: 3857 – EPSG:
Year: 2023
Organisation: MAB Environment and Ecology Ltd



Project: Highfield Road, Bubwith
Map Title: UK Habs Baseline
Date: 20-09-2023



Legend		
— Red Line	○ Target note	▨ u1 - built-up areas and gardens
— Blue Line	■ c - cropland	▤ u1b5 - buildings
● Large urban street tree	■ g4 - modified grassland	▩ u1c - artificial unvegetated unsealed surface
● Medium urban street tree	▨ h3d - bramble scrub	
● Small urban street tree	▨ h3h - mixed scrub	

© Crown copyright and database rights 2023 Ordnance Survey
 0100031673

Figure 9 Baseline UK Habs map.

Target note	Description	Notes on potential faunal /habitat value	Onsite or Offsite
1	Oak tree with potential bat roost habitat	PBRH / bird nesting	Offsite
2	Small patch of neglected modified grassland	Negligible	Onsite
3	Mixed scrub and overgrown hedge along road with 2 mature trees and ditch (not maintained).	Bird nesting	Onsite
4	Patch of mixed scrub in the corner of the garden	Bird nesting	Offsite
5	Line of young self-seeded ash growing up sides of sheds	Negligible	Onsite
6	Low brick building	Low PBRH	Onsite
7	Modern farm buildings in light industrial use	Swallow nests	Onsite
8	Hawthorn hedge with trees in centre of site	Moderate – bird nesting	Offsite

Table 2: Target notes

Site photographs:



Photo 1: TN6 - low brick building with low PBRH



Photo 2: ceiling inside low brick building



Photo 3: yard and entrance with boundary trees



Photo 4: TN7 - interior typical shed



Photo 5: TN7 - typical shed roof



Photo 6: garden in front of house with hedge



Photo 7: TN3 - overgrown hedge between yard and road



Photo 8: hedge on west of garden



Photo 9: dwelling and garden



Photo 10: TN7 - patch of scrub in south west corner of garden



Photo 11: TN2 - modified grass



Photo 12: arable field



Photo 13: TN 1 - oak with PBRH



Photo 14: TN8 - hedge with trees in centre of site



Photo 15: TN5- young ash trees

5.3 Assessment of habitats

The areas of wildlife value are comprised of trees and shrubs on field boundaries and along the road, and the value is primarily for nesting birds. The arable land has little or no value due to small size and ongoing cultivation. The central ditch is inaccessible and unmanaged as it passes through the farmyard, but is then regularly maintained as it runs down the main drain which is off-site. The farm buildings have little value other than for swallows.

5.4 Assessment of protected and priority species

5.4.1 Plants

The data search identified no records for the site; several records are for water plants along the river Derwent, and one for ragged robin which is around 2km away. Nothing of any relevance to this application. There was no evidence of any flora of interest on the site and no signs of invasive non-native species (noting seasonal constraints).

5.4.2 Invertebrates

Records again focus on the River Derwent area – the habitats on site are of minimal value for invertebrates.

5.4.3 Amphibians

The data search returned no records for any amphibians. There are no ponds on or adjacent to the site and therefore no risk of impact on great crested newt (GCN). Toads are likely to be present in overgrown areas and long the ditch / hedge.

5.4.4 Reptiles

There are records for grass snake around 2.5 km to the south. It is unlikely that grass snakes or other reptiles will be present in this predominantly arable landscape.

5.4.5 Birds

Suitable nesting habitat for birds is available within mature trees, hedge and scrub areas. There are also known to be barn swallows nesting in farm buildings. There was no sign of barn owl.

Field size and trees make ground-nesting birds very unlikely.

5.4.6 Bats

Low-risk potential bat roost habitat is present in a single-storey outbuilding onsite. There is additional PBRH within the clients wider ownership within a mature oak tree and within the farmhouse. See Fig 9.

Common pipistrelle, noctule and Daubenton's bats have been recorded in Bubwith, but not on the site itself. These are generally old records, the most recent being 2016. Bats are generally active along rivers, and the River Derwent provides good foraging habitat. The trees and hedges on site will contribute to bat foraging habitat.

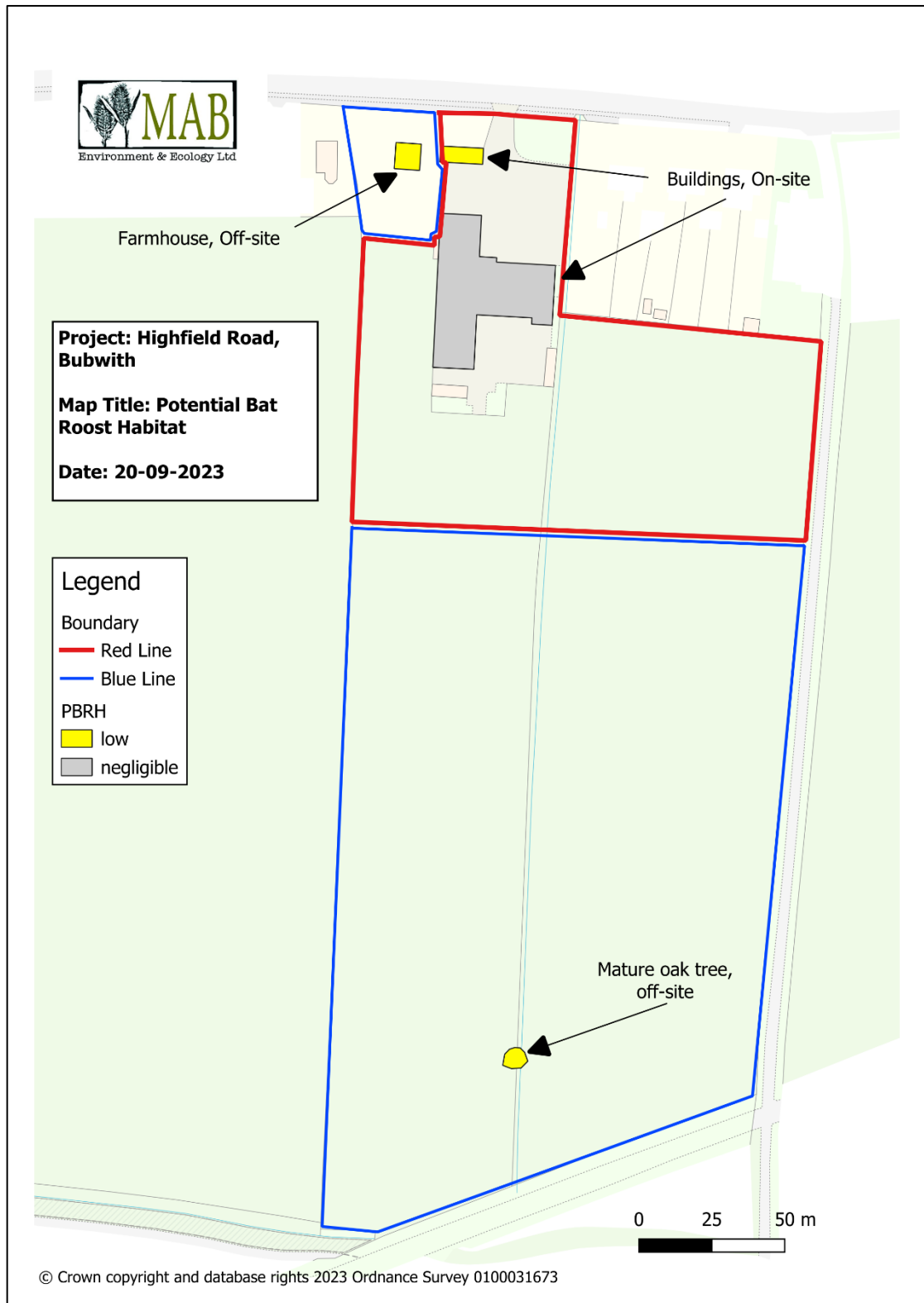


Figure 10 Potential bat roost habitat.

Emergence surveying of the low risk building onsite identified no roosting bats, with bat activity onsite limited to intermittent foraging by common pipistrelle and myotis species. (Survey results are appended.)

5.4.7 Badgers

The data search has returned no local records for badger. The likelihood of badgers utilising the site is negligible, and no further survey effort is considered necessary for badgers. There were no limitations on this element of the survey.

5.4.8 Other Mammals

Otter is present on the Derwent, and may use ditches around the area, but the ditch on this site runs through the village and under a road and is therefore less likely to be used. The main ditches to the south of the site are likely to be used.

Hedgehogs are likely to be present in the garden and hedgerows.

6 Description of the proposed development

The proposed development involves the erection of several residential dwellings and associated gardens and access onsite. See Fig 11.



Figure 11: Proposed development plans.

7 Ecological constraints

7.1 Designated sites

The local designated sites are not likely to constrain development - there is a sufficient ecological separation between the development site and the SSSI/SAC/SPA, and the proposed low number of housing units will not cause a significant increase in visitor usage.

The locally designated sites will not be impacted upon.

7.2 Habitats

There will be loss of areas of bramble and hawthorn scrub, but these will be limited in extent and will not cause local ecological impact. A small section of hedge will be lost and ditch culverted for access.

7.3 Species and species groups

7.3.1 Invertebrates

No likely effect.

7.3.2 Amphibians

Negative effect on toads may result from construction; no long-term impact likely.

7.3.3 Reptiles

No likely effect.

7.3.4 Birds

Removal of areas of significant vegetation will result in the loss of bird breeding habitat and there is a risk of disturbance if works are conducted during the breeding

season. Demolition of farm buildings will result in loss of barn swallow nesting habitat.

7.3.5 Bats

Low risk of indirect impact resulting from lighting.

No identifiable risk on roosting bats, minor loss of potential bat roost habitat.

7.3.6 Badgers

No likely effect.

7.3.7 Hedgehog

Likely impact on hedgehog from site clearance.

8 Further ecological surveys

8.1 Bats

None required at this stage. If any works are proposed within the blue ownership boundary line, further bat surveys should be carried out (e.g. T1 or farmhouse).

8.2 Other species / habitats

No other surveys are required for an appropriate assessment at this stage.

9 Mitigation and Compensation

- Site clearance should avoid bird nesting season.
- Replacement habitat for swallows should be created as close to where their existing nest sites are located. This will require a building with exposed roof timbers and at least 3 sides, with one open or with gap above doorway. This could be a utility building such as a bin-store.

- Bat and bird boxes should be integrated into the proposed dwellings. A minimum of two bat boxes should be installed to compensate for the loss of crevice habitat within the low risk building onsite.
- Further bat and bird boxes are recommended (one bat and one bird box per building) as when integrated within the proposed buildings, can be placed out of site, and increase the habitat feature's longevity. A variety of bird boxes should be utilised as this increases the potential nesting opportunities for several species such as sparrow and swift.
- Hedges and trees should be retained as much as is possible within the design of the scheme, and any new planting onsite should involve native species.
- Areas of scrub should be planted, preferably with connectivity to existing hedges.
- Gaps should be left in any fencing to allow for hedgehog movement across the site.
- Any trenches or ditches should be filled on the day they are created or a plank left within them at an angle of 45 degrees to allow for any small mammals to escape should they fall in during the construction period.
- Fingertip searches for toads and hedgehogs should be conducted prior to site clearance.
- Demolition of the low risk building onsite should follow standard good working practices in relation to bats as a precautionary measure due to the presence of potential crevice habitat (appended).

10 Opportunities for ecological enhancement

Woodland planting and pond creation would be appropriate for biodiversity net gain.

11 References

Butcher, B., Carey, P., Edmonds, R., Norton, L., and Treweek, J. (2020). UK Habitat Classification – Habitat Definitions V1.1 at <http://ukhab.org>

Butcher, B., Carey, P., Edmonds, R., Norton, L., and Treweek, J. (2020). The UK Habitat Classification User Manual Version 1.1 at <http://ukhab.org>

BS42020. Biodiversity - Code of Practice for planning and development. British Standards Institution 2013.

Circular 06/05: Biodiversity and Geological Conservation - Statutory Obligations and Their Impact Within the Planning System.
<http://www.communities.gov.uk/publications/planningandbuilding/circularbiodiversity>

Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019
<https://www.legislation.gov.uk/ukxi/2019/579/regulation/1/made>

National Planning Policy Framework 2021:
<https://www.gov.uk/government/collections/revised-national-planning-policy-framework#revised-national-planning-policy-framework>

Appendix 1: NEYEDC records

Scientific Name	Common Name	Taxonomic Group	Location	Grid Reference	Custodian	Survey	Recorder(s)	Date(s)	Year	Abundance	Designation(s)
Bufo bufo	Common Toad	amphibian	Breighton	SE7288435361	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		14/06/2017	2017	5 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7291935348	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		05/06/2017	2017	3 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7270235439	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		01/06/2017	2017	3 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7271835297	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		25/05/2017	2017	6 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7251335381	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		24/05/2017	2017	1 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7253735365	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		24/05/2017	2017	1 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7269035475	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		24/05/2017	2017	1 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7251035384	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		22/05/2017	2017	1 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7269035475	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		22/05/2017	2017	1 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7274435275	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		22/05/2017	2017	5 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Breighton	SE7269035475	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		18/05/2017	2017	1 Count of Indivic England_NERC_S.41; WACA-Sch5_sec9.5a	
Bufo bufo	Common Toad	amphibian	Bubwith	SE72973598	NEYEDC	JMs amphibian & reptile records (James Mortimer		21/04/2004	2004	5 Count of Adult England_NERC_S.41; WACA-Sch5_sec9.5a	
Lissotriton helveticus	Palamate Newt	amphibian	Breighton	SE7135	YWT	Yorkshire Wildlife Trust Reserve f Unknown (YWT record		16/06/2014	2014	WACA-Sch5_sec9.5a	
Lissotriton vulgaris	Smooth Newt	amphibian	Breighton	SE7269035475	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		31/05/2017	2017	1 Count of Indivic WACA-Sch5_sec9.5a	
Lissotriton vulgaris	Smooth Newt	amphibian	Breighton	SE7269035475	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		22/05/2017	2017	1 Count of Indivic WACA-Sch5_sec9.5a	
Lissotriton vulgaris	Smooth Newt	amphibian	Breighton	SE7269035475	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		18/05/2017	2017	2 Count of Indivic WACA-Sch5_sec9.5a	
Lissotriton vulgaris	Smooth Newt	amphibian	Breighton	SE7269035475	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		18/05/2017	2017	1 Count of Indivic WACA-Sch5_sec9.5a	
Lissotriton vulgaris	Smooth Newt	amphibian	Breighton	SE7135	YWT	Yorkshire Wildlife Trust Reserve f Unknown (YWT record		16/06/2014	2014	WACA-Sch5_sec9.5a	
Rana temporaria	Common Frog	amphibian	North Duffield Carrs/Ings	SE706363	NEYEDC	Mammals and Reptile Records 20 Steve Hiner		18/07/2011	2011	HabDir-A5; WACA-Sch5_sec9.5a	
Triturus cristatus	Great Crested Newt	amphibian	Breighton	SE7251035384	NEYEDC	Ecological Consultant Records: Bl Unknown (BL Ecology)		18/05/2017	2017	1 Count of Indivic Bern-A2; England_NERC_S.41; HabDir-A4; HabReg-Sch2; WACA-	
Triturus cristatus	Great Crested Newt	amphibian	Breighton	SE7135	YWT	Yorkshire Wildlife Trust Reserve f Unknown (YWT record		16/06/2014	2014	Bern-A2; England_NERC_S.41; HabDir-A4; HabReg-Sch2; WACA-	
Anas crecca	Teal	bird	Menthorpe Ings	SE704352	NEYEDC	Bird records from RSPB	Unknown	15/04/1982	1982	Bird-Amber; CMS_A2; ECCITES-C	
Anas crecca	Teal	bird	North Duffield Carrs/Ings	SE707360	NEYEDC	Bird records from RSPB	Unknown	15/04/1982	1982	Bird-Amber; CMS_A2; ECCITES-C	
Apus apus	Swift	bird	Bubwith	SE71383587	NEYEDC	Swift Inventory of Nest Sites in t Unknown (General Put		13/06/2013	2013	1 Count of Nest Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71383587	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		13/06/2013	2013	9 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71233633	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		01/08/2012	2012	30 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71313577	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		29/06/2012	2012	4 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71383573	NEYEDC	Swift Inventory of Nest Sites in t Unknown (General Put		21/06/2012	2012	1 Count of Nest Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71383573	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		21/06/2012	2012	15 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71243628	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		15/06/2012	2012	12 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71883634	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		05/06/2012	2012	9 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Lower Derwent Valley	SE705363	NEYEDC	Natural England Volunteer Bird R Janet Roworth; Peter R		07/05/2011	2011	3 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71583632	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		01/01/2011	2011	40 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71433608	NEYEDC	Swift Inventory of Nest Sites in t Unknown (General Put		01/01/2010	2010	1 Count of Nest Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71433608	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		01/01/2010	2010	18 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71673632	NEYEDC	Swift Inventory of Nest Sites in t Unknown (General Put		01/01/2010	2010	10 Count of Nest Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71673632	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		01/01/2010	2010	50 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE71883634	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		01/01/2010	2010	12 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE7135	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		01/01/2007	2007	8 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Apus apus	Swift	bird	Bubwith	SE7136	NEYEDC	Swift Inventory of Screaming Par Unknown (General Put		01/01/2007	2007	12 Count Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding	
Asio flammeus	Short-eared Owl	bird	East Yorkshire	SE7034	NEYEDC	Bird records from local ornitholog Unknown		01/02/1985	1985	Bern-A2; Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding; f	
Corvus frugilegus	Rook	bird	Bubwith	SE7236	NEYEDC	Personal Records: Michael Senkar Michael Senkans		06/04/2015	2015	Bird_RedList_GB_post2001-NT_Breeding	
Corvus frugilegus	Rook	bird	Bubwith - Holme-upon-Spalding	SE723361	NEYEDC	East Riding of Yorkshire LWS Sur Geoffrey Wilmore		06/07/2010	2010	Bird_RedList_GB_post2001-NT_Breeding	
Cygnus cygnus	Whooper Swan	bird	Lower Derwent Valley	SE700360	NEYEDC	Natural England Volunteer Bird R Peter Roworth		23/03/2011	2011	26 Count Bern-A2; Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding; f	

Scientific Name	Common Name	Taxonomic Group	Location	Grid Reference	Custodian	Survey	Recorder(s)	Date(s)	Year	Abundance	Designation(s)
Cygnus cygnus	Whooper Swan	bird	Lower Derwent Valley	SE700360	NEYEDC	Natural England Volunteer Bird R	Peter Roworth	21/03/2011	2011	26 Count	Bern-A2; Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding; f
Cygnus cygnus	Whooper Swan	bird	Lower Derwent Valley	SE700360	NEYEDC	Natural England Volunteer Bird R	Peter Roworth	17/03/2011	2011	41 Count	Bern-A2; Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding; f
Cygnus cygnus	Whooper Swan	bird	Lower Derwent Valley	SE700360	NEYEDC	Natural England Volunteer Bird R	Peter Roworth	12/03/2011	2011	152 Count	Bern-A2; Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding; f
Cygnus cygnus	Whooper Swan	bird	Lower Derwent Valley	SE700360	NEYEDC	Natural England Volunteer Bird R	Peter Roworth	05/03/2011	2011	115 Count	Bern-A2; Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding; f
Cygnus cygnus	Whooper Swan	bird	Lower Derwent Valley	SE700360	NEYEDC	Natural England Volunteer Bird R	Peter Roworth	01/03/2011	2011	107 Count	Bern-A2; Bird-Amber; Bird_RedList_GB_post2001-EN_Breeding; f
Cygnus olor	Mute Swan	bird	Lower Derwent Valley	SE700360	NEYEDC	Natural England Volunteer Bird R	Peter Roworth	12/03/2011	2011	40 Count	Bird-Amber; CMS_A2
Cygnus olor	Mute Swan	bird	Lower Derwent Valley	SE700360	NEYEDC	Natural England Volunteer Bird R	Peter Roworth	05/03/2011	2011	48 Count	Bird-Amber; CMS_A2
Cygnus olor	Mute Swan	bird	Lower Derwent Valley	SE700360	NEYEDC	Natural England Volunteer Bird R	Peter Roworth	01/03/2011	2011	21 Count	Bird-Amber; CMS_A2
Gallinago gallinago	Snipe	bird	Menthorpe Ings	SE704352	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Amber; Bird_RedList_GB_post2001-NT_NonBreeding; CMS_
Gallinago gallinago	Snipe	bird	Bubwith Ings	SE704370	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Amber; Bird_RedList_GB_post2001-NT_NonBreeding; CMS_
Gallinago gallinago	Snipe	bird	North Duffield Carrs/Ings	SE707360	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Amber; Bird_RedList_GB_post2001-NT_NonBreeding; CMS_
Gallinula chloropus	Moorhen	bird	Pond adjacent to disused railway	SE704353	NEYEDC	North Yorkshire SINC Survey - 2C	Martin Hammond	21/07/1998	1998		Bird_RedList_GB_post2001-VU_Breeding; CMS_A2
Haematopus ostralegus	Oystercatcher	bird	Menthorpe Ings	SE704352	NEYEDC	Bird records from RSPB	Unknown	20/06/1982	1982		Bird-Amber
Haematopus ostralegus	Oystercatcher	bird	Bubwith Ings	SE704370	NEYEDC	Bird records from RSPB	Unknown	20/06/1982	1982		Bird-Amber
Hirundo rustica	Swallow	bird	Bubwith - Holme-upon-Spalding-	SE723361	NEYEDC	East Riding of Yorkshire LWS Sur	Geoffrey Wilmore	06/07/2010	2010		Bern-A2
Motacilla flava	Western Yellow Wagtail	bird	Menthorpe Ings	SE704352	NEYEDC	Bird records from RSPB	Unknown	15/04/1982	1982		Bern-A2; Bird-Red; Bird_RedList_GB_post2001-NT_Breeding
Motacilla flava	Western Yellow Wagtail	bird	Bubwith Ings	SE704370	NEYEDC	Bird records from RSPB	Unknown	15/04/1982	1982		Bern-A2; Bird-Red; Bird_RedList_GB_post2001-NT_Breeding
Motacilla flava	Western Yellow Wagtail	bird	North Duffield Carrs/Ings	SE707360	NEYEDC	Bird records from RSPB	Unknown	15/04/1982	1982		Bern-A2; Bird-Red; Bird_RedList_GB_post2001-NT_Breeding
Numenius arquata	Curlew	bird	Menthorpe Ings	SE704352	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Red; Bird_RedList_GB_post2001-EN_Breeding; CMS_A2; Enç
Numenius arquata	Curlew	bird	Bubwith Ings	SE704370	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Red; Bird_RedList_GB_post2001-EN_Breeding; CMS_A2; Enç
Numenius arquata	Curlew	bird	North Duffield Carrs/Ings	SE707360	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Red; Bird_RedList_GB_post2001-EN_Breeding; CMS_A2; Enç
Tringa totanus	Redshank	bird	Menthorpe Ings	SE704352	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Amber; Bird_RedList_GB_post2001-NT_NonBreeding; Bird_R
Tringa totanus	Redshank	bird	Bubwith Ings	SE704370	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Amber; Bird_RedList_GB_post2001-NT_NonBreeding; Bird_R
Tringa totanus	Redshank	bird	North Duffield Carrs/Ings	SE707360	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Amber; Bird_RedList_GB_post2001-NT_NonBreeding; Bird_R
Tyto alba	Western Barn Owl	bird	Bubwith	SE724364	NEYEDC	Personal Records: Michael Senkai	Michael Senkans	06/04/2015	2015		Bern-A2; ECCITES-A; WACA-Sch1_part1
Vanellus vanellus	Lapwing	bird	Menthorpe Ings	SE704352	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Red; Bird_RedList_GB_post2001-EN_Breeding; Bird_RedList
Vanellus vanellus	Lapwing	bird	Bubwith Ings	SE704370	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Red; Bird_RedList_GB_post2001-EN_Breeding; Bird_RedList
Vanellus vanellus	Lapwing	bird	North Duffield Carrs/Ings	SE707360	NEYEDC	Bird records from RSPB	Unknown	30/06/1989	1989		Bird-Red; Bird_RedList_GB_post2001-EN_Breeding; Bird_RedList
Anguilla anguilla	European Eel	bony fish (Actin Birk lane drain		SE708364	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	05/07/2006	2006		England_NERC_S_41; RedList_Global_post2001-CR
Anguilla anguilla	European Eel	bony fish (Actin Brighton DERCORS20		SE706349	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	10/09/2003	2003		England_NERC_S_41; RedList_Global_post2001-CR
Anguilla anguilla	European Eel	bony fish (Actin Brighton DERCORS20		SE705350	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	16/09/2002	2002		England_NERC_S_41; RedList_Global_post2001-CR
Anguilla anguilla	European Eel	bony fish (Actin Site name unavailable		SE705350	NEYEDC	NBN Atlas CC-BY BRC: Database	Withheld (NBN Atlas)	25/04/1995	1995		England_NERC_S_41; RedList_Global_post2001-CR
Barbus barbus	Barbel	bony fish (Actin Bubwith - Fry Survey		SE707362	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	15/09/1997	1997		HabDir-A5; HabReg-Sch4
Barbus barbus	Barbel	bony fish (Actin Bubwith		SE707365	NEYEDC	NBN Atlas CC-BY BRC: Database	Withheld (NBN Atlas)	1986	1986		HabDir-A5; HabReg-Sch4
Barbus barbus	Barbel	bony fish (Actin Bubwith		SE707365	NEYEDC	NBN Atlas CC-BY BRC: Database	Withheld (NBN Atlas)	1981	1981		HabDir-A5; HabReg-Sch4
Cottus gobio	Bullhead	bony fish (Actin Bubwith - Fry Survey		SE707362	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	20/08/2015	2015		
Cottus gobio	Bullhead	bony fish (Actin BUBWITH		SE707364	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	11/09/2009	2009		
Cottus gobio	Bullhead	bony fish (Actin Brighton DERCORS20		SE706349	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	10/09/2003	2003		
Cottus gobio	Bullhead	bony fish (Actin Brighton DERCORS20		SE705350	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	16/09/2002	2002		
Cottus gobio	Bullhead	bony fish (Actin Site name unavailable		SE705350	NEYEDC	NBN Atlas CC-BY BRC: Database	Withheld (NBN Atlas)	25/04/1995	1995		
Cottus gobio	Bullhead	bony fish (Actin Bubwith		SE707365	NEYEDC	NBN Atlas CC-BY BRC: Database	Withheld (NBN Atlas)	1981	1981		
Cottus gobio	Bullhead	bony fish (Actin Bubwith		SE710362	NEYEDC	NBN Atlas CC-BY BRC: Database	Withheld (NBN Atlas)	1981	1981		
Gymnocephalus cernuus	Pope	bony fish (Actin Bubwith		SE707365	NEYEDC	NBN Atlas CC-BY BRC: Database	Withheld (NBN Atlas)	29/09/1998	1998		
Gymnocephalus cernuus	Pope	bony fish (Actin Site name unavailable		SE705350	NEYEDC	NBN Atlas CC-BY BRC: Database	Withheld (NBN Atlas)	25/04/1995	1995		

Scientific Name	Common Name	Taxonomic Group	Location	Grid Reference	Custodian	Survey	Recorder(s)	Date(s)	Year	Abundance	Designation(s)
Gymnocephalus cernuus	Pope	bony fish (Actin	Bubwith	SE710362	NEYEDC	NBN Atlas CC-BY BRC: Database	Withheld (NBN Atlas)	1982	1982		
Elodea nuttallii	Nuttall's Waterweed	flowering plant	BUBWITH	SE709364	NEYEDC	NBN Atlas OGL EA: England Non I	Withheld (NBN Atlas)	28/08/2014	2014	INNS	
Elodea nuttallii	Nuttall's Waterweed	flowering plant	BUBWITH	SE709364	NEYEDC	NBN Atlas OGL EA: England Non I	Withheld (NBN Atlas)	06/08/2013	2013	INNS	
Elodea nuttallii	Nuttall's Waterweed	flowering plant	BUBWITH	SE707364	NEYEDC	NBN Atlas OGL EA: England Non I	Withheld (NBN Atlas)	02/09/2011	2011	INNS	
Elodea nuttallii	Nuttall's Waterweed	flowering plant	BUBWITH	SE707364	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	02/09/2011	2011	INNS	
Myosurus minimus	Mousetail	flowering plant	South-east Yorkshire	SE7036	NEYEDC	BSBI Notable and Protected Plant	T. E. Dixon	1989	1989	RedList_ENG_post2001-VU; RedList_GB_post2001-VU	
Silene flos-cuculi	Ragged-Robin	flowering plant	Pond adjacent to disused railway	SE704353	NEYEDC	North Yorkshire SINC Survey - 2C	Martin Hammond	21/07/1998	1998	R DAFOR of Individ	RedList_ENG_post2001-NT
Sium latifolium	Greater Water-parsnip	flowering plant	South-east Yorkshire	SE7036	NEYEDC	BSBI Notable and Protected Plant	Rohan Lewis	07/08/2018	2018	England_NERC_S_41; NS-excludes;	RedList_ENG_post2001-EN; R
Sium latifolium	Greater Water-parsnip	flowering plant	South-east Yorkshire	SE7138	NEYEDC	BSBI Notable and Protected Plant	Eva Crackles	1972	1972	England_NERC_S_41; NS-excludes;	RedList_ENG_post2001-EN; R
Gabrius bishopi	Gabrius bishopi	insect - beetle	(Bubwith Bridge	SE707364	NEYEDC	Coleoptera (Selby District)	Mike Denton	01/09/1990	1990	Notable-B	
Gabrius bishopi	Gabrius bishopi	insect - beetle	(Bubwith Bridge	SE707364	NEYEDC	Coleoptera (Selby District)	Mike Denton	05/08/1989	1989	Notable-B	
Gyrinus distinctus	Gyrinus distinctus	insect - beetle	(River Derwent, Bubwith	SE707363	NEYEDC	NBN Atlas CC-BY BRC: Bob Merrit	R. Merritt	01/08/2010	2010	4 Count of Absent NS-excludes	
Gyrinus distinctus	Gyrinus distinctus	insect - beetle	(River Derwent, Bubwith	SE710358	NEYEDC	NBN Atlas CC-BY BRC: Bob Merrit	R. Merritt	01/08/2010	2010	3 Count of Absent NS-excludes	
Helochares punctatus	Helochares punctatus	insect - beetle	(North Duffield Carrs/Ings	SE6936	NEYEDC	Coleoptera (Selby District)	Martin Hammond	23/07/2000	2000	NS-excludes	
Hydroporus neglectus	Hydroporus neglectus	insect - beetle	(North Duffield Carrs/Ings	SE6936	NEYEDC	Coleoptera (Selby District)	Martin Hammond	23/07/2000	2000	NS-excludes	
Hydroporus neglectus	Hydroporus neglectus	insect - beetle	(Bubwith Bridge	SE7036	NEYEDC	Coleoptera (Selby District)	Martin Hammond	16/07/2000	2000	NS-excludes	
Isochnus foliorum	Isochnus foliorum	insect - beetle	(Bubwith	SE7135	NEYEDC	Weevil & Bark Beetle Recording	S. H. K. Kenward	05/04/2014	2014	Notable-A	
Oulimnius major	Oulimnius major	insect - beetle	(Bubwith Bridge	SE7036	NEYEDC	Coleoptera (Selby District)	Martin Hammond	16/07/2000	2000	NS-excludes	
Pelenomus comari	Pelenomus comari	insect - beetle	(Bubwith	SE7035	NEYEDC	Weevil & Bark Beetle Recording	S. H. K. Kenward	02/02/2013	2013	Notable-B	
Platyrhinus resinosus	Cramp-Ball Fungus Weevil	insect - beetle	(Bubwith Bridge	SE707364	NEYEDC	Coleoptera (Selby District)	P. Kendall	08/06/1998	1998	Notable-B	
Scydmorephes helvolus	Scydmorephes helvolus	insect - beetle	(Bubwith Bridge	SE707364	NEYEDC	Coleoptera (Selby District)	Bob Marsh	02/05/1997	1997	Notable	
Sunius melanocephalus	Sunius melanocephalus	insect - beetle	(Bubwith Bridge	SE707364	NEYEDC	Coleoptera (Selby District)	Mike Denton	15/12/1990	1990	Notable	
Satyrrium w-album	White-letter Hairstreak	insect - butterfly	Bubwith	SE730353	NEYEDC	Martin Greenland's Butterfly Recc	Martin Greenland	05/07/2007	2007	3 Count of Abund;	England_NERC_S_41; RedList_GB_post2001-EN; WACA-Sch5_sect
Satyrrium w-album	White-letter Hairstreak	insect - butterfly	Brighton Airfield B1228	SE731355	NEYEDC	Martin Greenland's Butterfly Recc	Martin Greenland	10/10/2006	2006	England_NERC_S_41; RedList_GB_post2001-EN; WACA-Sch5_sect	
Pseudanodonta complanata	Depressed River Mussel	mollusc	BUBWITH	SE707364	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	11/09/2009	2009	England_NERC_S_41; RedList_Global_post2001-VU	
Pseudanodonta complanata	Depressed River Mussel	mollusc	BUBWITH	SE707364	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	06/05/2008	2008	England_NERC_S_41; RedList_Global_post2001-VU	
Pseudanodonta complanata	Depressed River Mussel	mollusc	BUBWITH	SE707364	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	04/05/2006	2006	England_NERC_S_41; RedList_Global_post2001-VU	
Pseudanodonta complanata	Depressed River Mussel	mollusc	BUBWITH	SE707364	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	10/05/2004	2004	England_NERC_S_41; RedList_Global_post2001-VU	
Pseudanodonta complanata	Depressed River Mussel	mollusc	BUBWITH	SE707364	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	17/11/2003	2003	England_NERC_S_41; RedList_Global_post2001-VU	
Pseudanodonta complanata	Depressed River Mussel	mollusc	Bubwith	SE706364	NEYEDC	Environment Agency crayfish/ wa	Unknown	23/05/2000	2000	2 Count of musse	England_NERC_S_41; RedList_Global_post2001-VU
Pseudanodonta complanata	Depressed River Mussel	mollusc	BUBWITH	SE707364	NEYEDC	NBN Atlas OGL EA: Environment	Withheld (NBN Atlas)	23/05/2000	2000	England_NERC_S_41; RedList_Global_post2001-VU	
Natrix helvetica	Grass Snake	reptile	Brighton	SE7265535536	NEYEDC	Ecological Consultant Records: Bl	Unknown (BL Ecology)	14/06/2017	2017	1 Count of Indiv	England_NERC_S_41; WACA-Sch5_sect9.1; WACA-Sch5_sect9.5a
Natrix helvetica	Grass Snake	reptile	Brighton	SE7265935227	NEYEDC	Ecological Consultant Records: Bl	Unknown (BL Ecology)	14/06/2017	2017	1 Count of Indiv	England_NERC_S_41; WACA-Sch5_sect9.1; WACA-Sch5_sect9.5a
Natrix helvetica	Grass Snake	reptile	Brighton	SE7292735334	NEYEDC	Ecological Consultant Records: Bl	Unknown (BL Ecology)	05/06/2017	2017	1 Count of Indiv	England_NERC_S_41; WACA-Sch5_sect9.1; WACA-Sch5_sect9.5a
Natrix helvetica	Grass Snake	reptile	Brighton	SE7265335542	NEYEDC	Ecological Consultant Records: Bl	Unknown (BL Ecology)	01/06/2017	2017	1 Count of Indiv	England_NERC_S_41; WACA-Sch5_sect9.1; WACA-Sch5_sect9.5a
Lepus europaeus	Brown Hare	terrestrial mam	North Duffield Carrs/Ings	SE706363	NEYEDC	Mammals and Reptile Records 20	Steve Hiner	04/10/2011	2011	3 Count	England_NERC_S_41
Lutra lutra	European Otter	terrestrial mam	River Derwent, Derwent Bridge,	SE707365	NEYEDC	Water for Wildlife Project	Gordon Woodroffe	01/06/1995	1995	Bern-A2; ECCITES-A; England_NERC_S_41; HabDir-A4; HabReg-S	
Lutra lutra	European Otter	terrestrial mam	River Derwent, Derwent Bridge	SE707364	NEYEDC	Water for Wildlife Project	Volunteer (YOAT)	04/10/1992	1992	Bern-A2; ECCITES-A; England_NERC_S_41; HabDir-A4; HabReg-S	
Lutra lutra	European Otter	terrestrial mam	Derwent Bridge, Bubwith	SE70703650	NEYEDC	Otter, water vole and crayfish rec	Unknown	1995	1995	Bern-A2; ECCITES-A; England_NERC_S_41; HabDir-A4; HabReg-S	
Lutra lutra	European Otter	terrestrial mammal		SE7071435373	YWT	Yorkshire Wildlife Trust Reserve f	Unknown (YWT record	09/04/2014	2014	Bern-A2; ECCITES-A; England_NERC_S_41; HabDir-A4; HabReg-S	
Lutra lutra	European Otter	terrestrial mammal		SE707365	YWT	Yorkshire Wildlife Trust Reserve f	Unknown (YWT record	10/03/2003	2003	Bern-A2; ECCITES-A; England_NERC_S_41; HabDir-A4; HabReg-S	
Myotis daubentonii	Daubenton's Bat	terrestrial mam	Bubwith	SE7136	NEYEDC	East Yorkshire Bat Group (roost v	Unknown	17/06/2000	2000	Bern-A2; CMS_A2; HabDir-A4; HabReg-Sch2; WACA-Sch5_sect9.	
Nyctalus noctula	Noctule Bat	terrestrial mam	Bubwith	SE7136	NEYEDC	East Yorkshire Bat Group (roost v	Unknown	17/06/2000	2000	Bern-A2; CMS_A2; England_NERC_S_41; HabDir-A4; HabReg-Sch	
Pipistrellus	Pipistrelle	terrestrial mam	Bubwith	SE71403584	NEYEDC	East Yorkshire Bat Group (roost v	Unknown	01/03/1999	1999	107 Count	Bern_A2; CMS_A2; HabDir-A4; HabReg-Sch2; WACA-Sch5_sect9.

Scientific Name	Common Name	Taxonomic Group	Location	Grid Reference	Custodian	Survey	Recorder(s)	Date(s)	Year	Abundance	Designation(s)
Pipistrellus	Pipistrelle	terrestrial mam	Bubwith	SE714362	NEYEDC	East Yorkshire Bat Group (ground Unknown		12/07/1994	1994		Bern_A2; CMS_A2; HabDir-A4; HabReg-Sch2; WACA-Sch5_sect9.
Pipistrellus pipistrellus	Common Pipistrelle	terrestrial mam	Bubwith	SE7212036818	NEYEDC	Ecological Consultant Records: V; Unknown (Arcus Consi		31/08/2016	2016	Present Count of I	Bern-A2; CMS_A2; HabDir-A4; HabReg-Sch2; WACA-Sch5_sect9.
Pipistrellus pipistrellus	Common Pipistrelle	terrestrial mam	Bubwith	SE7212036818	NEYEDC	Ecological Consultant Records: V; Unknown (Arcus Consi		31/08/2016	2016	12 Count of Indivi	Bern-A2; CMS_A2; HabDir-A4; HabReg-Sch2; WACA-Sch5_sect9.
Pipistrellus pipistrellus	Common Pipistrelle	terrestrial mam	Bubwith	SE711363	NEYEDC	East Yorkshire Bat Group (ground Unknown (EYorks Bat		08/10/2010	2010		Bern-A2; CMS_A2; HabDir-A4; HabReg-Sch2; WACA-Sch5_sect9.
Pipistrellus pipistrellus	Common Pipistrelle	terrestrial mam	Sutton-on-Derwent	SE706352	NEYEDC	East Yorkshire Bat Group (ground Unknown (EYorks Bat		10/05/2008	2008		Bern-A2; CMS_A2; HabDir-A4; HabReg-Sch2; WACA-Sch5_sect9.
Pipistrellus pipistrellus	Common Pipistrelle	terrestrial mam	Bubwith	SE7236	NEYEDC	East Yorkshire Bat Group (ground Unknown		14/07/2004	2004		Bern-A2; CMS_A2; HabDir-A4; HabReg-Sch2; WACA-Sch5_sect9.
Vespertilionidae	Bats	terrestrial mam	Bubwith	SE7136	NEYEDC	East Yorkshire Bat Group (roost v Philip Moodie		07/08/2003	2003		CMS_A2; HabReg-Sch2; WACA-Sch5_sect9.4b; WACA-Sch5_sect9.
Vespertilionidae	Bats	terrestrial mam	Bubwith	SE713362	NEYEDC	East Yorkshire Bat Group (roost v Unknown		12/12/2002	2002		CMS_A2; HabReg-Sch2; WACA-Sch5_sect9.4b; WACA-Sch5_sect9.
Vespertilionidae	Bats	terrestrial mam	Bubwith	SE727367	NEYEDC	East Yorkshire Bat Group (roost v Philip Moodie		21/02/2002	2002		CMS_A2; HabReg-Sch2; WACA-Sch5_sect9.4b; WACA-Sch5_sect9.
Vespertilionidae	Bats	terrestrial mam	Bubwith	SE727367	NEYEDC	East Yorkshire Bat Group (roost v Unknown		21/02/2002	2002		CMS_A2; HabReg-Sch2; WACA-Sch5_sect9.4b; WACA-Sch5_sect9.
Vespertilionidae	Bats	terrestrial mam	Bubwith	SE7136	NEYEDC	East Yorkshire Bat Group (roost v Unknown		17/06/2000	2000		CMS_A2; HabReg-Sch2; WACA-Sch5_sect9.4b; WACA-Sch5_sect9.
Vespertilionidae	Bats	terrestrial mam	Bubwith	SE71173629	NEYEDC	East Yorkshire Bat Group (roost v Unknown		27/06/1990	1990		CMS_A2; HabReg-Sch2; WACA-Sch5_sect9.4b; WACA-Sch5_sect9.
Vespertilionidae	Bats	terrestrial mam	Bubwith	SE7136	NEYEDC	East Yorkshire Bat Group (roost v Unknown		04/12/1986	1986		CMS_A2; HabReg-Sch2; WACA-Sch5_sect9.4b; WACA-Sch5_sect9.
Vespertilionidae	Bats	terrestrial mam	Bubwith	SE7136	NEYEDC	East Yorkshire Bat Group (roost v Unknown		12/04/1985	1985		CMS_A2; HabReg-Sch2; WACA-Sch5_sect9.4b; WACA-Sch5_sect9.



Our Ref: E07020
 Your Ref: Highfield Rd, Bubwith
 On behalf of: MAB Environment & Ecology
 Date: 20/01/2023
 Search area: 2km from SE71953613

NEYEDC Site Data Search

Internationally Designated Sites

The following internationally designated site boundaries were searched:

- Ramsar sites published May 2017, revised October 2020
- Special Areas of Conservation published July 2017, revised May 2021
- Special Protection Areas published January 2019, revised June 2021

The following internationally designated sites are in or partly within the search area, and are shown on the accompanying map.

Designation	Name or location of site	Grid reference in relation to the search area
Special Areas of Conservation	Lower Derwent Valley	SE705361
Special Areas of Conservation	River Derwent	SE710360 – throughout search area.
Special Protection Areas	Lower Derwent Valley	SE705361
Ramsar	Lower Derwent Valley	SE705361

Nationally Designated Sites

The following nationally designated site boundaries were searched:

- Areas of Outstanding Natural Beauty published January 2017, revised August 2020
- National Nature Reserves published April 2017, revised June 2021
- National Parks published August 2016, revised February 2019
- Sites of Special Scientific Interest published January 2019, revised June 2021

The following nationally designated sites are in or partly within the search area, and are shown on the accompanying map.

Designation	Name or location of site	Grid reference in relation to the search area
NNR	Lower Derwent Valley	Multiple polygons – SE705363.
SSSI	River Derwent	SE710360 – throughout search area.
SSSI	Derwent Ings	SE705361



Our Ref: E07020
 Your Ref: Highfield Rd, Bubwith
 On behalf of: MAB Environment & Ecology
 Date: 20/01/2023
 Search area: 2km from SE71953613

We do not hold full details or citations of national designated sites. For further information please see the relevant section of the .gov.uk website

<https://www.gov.uk/topic/planning-development/protected-sites-species>

or go to JNCC's UK Protected Areas webpage: <https://jncc.gov.uk/our-work/uk-protected-areas/>

Locally Designated Sites

The following locally designated site boundaries were searched:

Local Nature Reserves

published April 2017, revised June 2021

There are no Local Nature Reserves in or partly within the search area.

East Yorkshire LWS (Local Wildlife Site)

Version: East Yorkshire LWS v8.2, February 2022

The following East Yorkshire LWS are in or partly within the search area, and are shown on the accompanying map.

Site Name	Site Ref	Grid Reference	Status
Bubwith – Holme-on-Spalding-Moor Disused Railway Line	SE7035-04	SE713357 - SE827401	Designated LWS
Bubwith Housewell	SE7035-03	SE719358	Deleted SINC
Old Clay Pits, Highfield	SE7035-01	SE724362	Historic LWS

Candidate LWS

These sites have either not been surveyed, or no East Riding of Yorkshire LWS Panel decision has been reached on their status. This designation is only be applied where there is evidence to support the site having substantive ecological value and includes, but is not limited to; anecdotal species records, aerial photography, historic maps and application of the Radcliff criteria, especially with regard to size and position within an ecological unit.

Historic LWS

Historic LWS have not been surveyed under the current local wildlife sites system (i.e. since 2007), but unlike a Candidate LWS these sites lack evidence that the site is of any substantive value, but equally lack compelling evidence to support their deletion. These sites will stay at this status until such a time that a survey can be completed.



Our Ref: E07020
Your Ref: Highfield Rd, Bubwith
On behalf of: MAB Environment & Ecology
Date: 20/01/2023
Search area: 2km from SE71953613

Deleted LWS

The decision to delete LWS by the East Riding of Yorkshire LWS Panel is made based on one of the following situations;

- The site overlaps with a statutory designated site;
- The site overlaps with another LWS, or has been merged with another;
- The site no longer exists e.g. through changes in land use or management; or
- The site has been surveyed and does not meet the robust LWS Guidelines for designation on habitat grounds.

In many cases just because a site has not met the high criteria for designation as a LWS it does not mean that it has no added value for wildlife. The LWS assessment is usually based on a botanical survey of the habitat and does rarely includes surveys for other taxa, including protected species, which the site may support. It may also be important for connectivity or as part of a wider habitat network. It may be possible to enhance the value of the site for wildlife with certain types of management, which could bring the site up to the standard required for designation as a LWS.

Citations

Citations, where available, are at an additional cost of £25 per site and include a habitat map, site description, botanical species list and scores/evaluation against the LWS criteria. The additional cost for citations is passed back to and used by the East Riding of Yorkshire LWS Panel to maintain the LWS system, including the survey and re-survey of sites. If citations are required, please email info@neyedc.co.uk and list the sites using the reference and name listed above.

North Yorkshire SINC (Site of Importance for Nature Conservation)

Version: North Yorkshire SINC v10.0, August 2022

The following North Yorkshire SINC are in or partly within the search area, and are shown on the accompanying map.

Site Name	Site Ref	Grid Reference	Status
Field at A163 and River Derwent	SE73-03	SE704364	Deleted SINC
Pond adjacent to disused railway line, North Duffield	SE73-04	SE704353	Deleted SINC

A leaflet explaining about North Yorkshire SINC is available to download from the NEYEDC web site: <https://www.neyedc.org.uk/ecologists> under the heading Local Wildlife Site data.

Deleted SINC

North Yorkshire SINC that have been deleted by the North Yorkshire and York SINC Panel have been surveyed and assessed against the SINC selection guidelines and found not to qualify. These sites are still listed in this report. In many cases just because a



Our Ref: E07020
Your Ref: Highfield Rd, Bubwith
On behalf of: MAB Environment & Ecology
Date: 20/01/2023
Search area: 2km from SE71953613

site has not met the high criteria for designation as a SINC it does not mean that it has no added value for wildlife. The SINC assessment is usually based on a botanical survey of the habitat and does rarely includes surveys for other taxa, including protected species, which the site may support. It may also be important for connectivity or as part of a wider habitat network. It may be possible to enhance the value of the site for wildlife with certain types of management, which could bring the site up to the standard required for designation as a SINC.

Citations

Citations, where available, are at an additional cost of £25 per site and include a habitat map, site description, botanical species list and scores/evaluation against the SINC criteria. The additional cost for citations is passed back to and used by the North Yorkshire and York SINC Panel to maintain the SINC system, including the survey and re-survey of sites. If citations are required, please email info@neyedc.co.uk and list the sites using the reference and name listed above.

Yorkshire Wildlife Trust Reserves published January 2019

There are no Yorkshire Wildlife Trust Reserves in or partly within the search area.

Priority Habitats

The following site-based habitat boundaries were searched:

Ancient Woodland Inventory published July 2013, revised January 2020

There are no woodlands identified on the Ancient Woodland Inventory in or partly within the search area.

Priority Habitat Inventory published August 2017

The following areas of priority habitat are in or partly within the search area and are shown on the accompanying map

Habitat type	Location description
Coastal and floodplain grazing marsh	Multiple polygons around the Lower Derwent Valley/Rover Derwent area.
Deciduous woodland	Several small polygons throughout the search area, most in the north near Aughton.
Traditional orchard	One polygon at central Bubwith.
Lowland meadows	Majority of the Lower Derwent Valley/Derwent Ings area.



Our Ref: E07020
Your Ref: Highfield Rd, Bubwith
On behalf of: MAB Environment & Ecology
Date: 20/01/2023
Search area: 2km from SE71953613

NEYEDC Species Data Search

Enclosed is a spreadsheet of species records found within the search area. For protected, priority and invasive species an abbreviation of the relevant designation(s) is listed in the 'Species Records' worksheet, with the full designation title on the second worksheet 'Designations'.

Please note that NEYEDC is not a definitive resource of species records; a lack of survey information for any particular area or lack of species records for a taxonomic group does not necessarily mean that there is no nature conservation interest present. It is always recommended that a site survey is carried out in order to assess any ecological interest that might be present before proceeding with any development.

By default, the species search returns data for the past 50 years, but if older records are required these may be obtained from NEYEDC upon request.

Bats

In addition to the records shown on the enclosed spreadsheet there are known to be records within the search area held by the North Yorkshire Bat Group, but which NEYEDC are currently unable to pass on. For further information on these records please contact the North Yorkshire Bat Group directly, see below.

Local Bat Group contact details:

North Yorkshire: Nick Whelan, Recorder
records@nybats.org.uk
www.nybats.org.uk

East Yorkshire: Roger Curtis, Recorder
rogercurtis196@btinternet.com
<https://eastyorkshirebatgroup.wordpress.com/>

Appendix 2: Integral bat and bird box examples

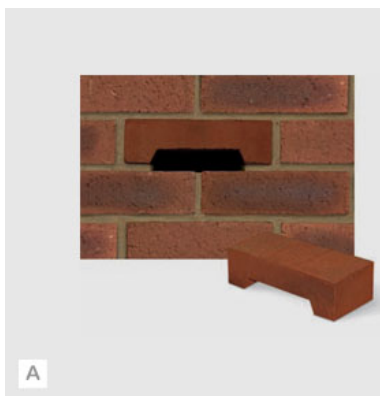


Figure 12 - ibstock bat roost entrance brick (www.ibstock.com)



Figure 13 - ibstock enclosed bat box 'B' (www.ibstock.com)



Figure 14 - Schwegler bat tube 1FR (www.nhbs.com)



Figure 15 - Schwegler swift and bat box 1MF with bat access (www.nhbs.com)

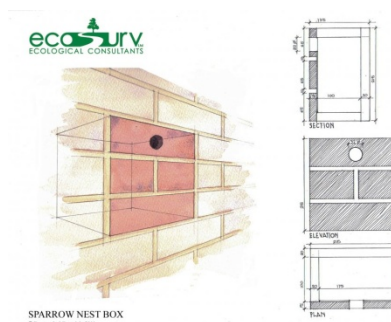


Figure 16 - Brick sparrow box (www.nhbs.com)



Figure 17 - Schwegler sparrow terrace 1SP (www.nhbs.com)

Appendix 3: Emergence survey




Table 3 – Survey details and environmental conditions

Date	Timings	Structure reference	Equipment used	Weather	
05/09/23	Start: 19:30	1	Elekon Batlogger x2	Start	End
	Sunset:19:45			Temp (°C):	Temp (°C):
	End: 21:15			Wind (BF):	Wind (BF):
				Humidity (%):	Humidity (%):
				Rain:	Rain:
				Cloud cover (%):	Cloud cover (%):
Number of surveyors used: 2					
Surveyors used: Alice Brown (AB) licence number 2023-11025-CL17-BAT; Rachel Boulton (RB)					

Summary/comments:

No roosts were identified during this survey, one Common pipistrelle and one Whiskered bat were foraging within the area between the site itself and the neighbouring buildings.

Observations:

Surveyor	Building ref	Time	Species	Count	Activity	Annotation
AB	N/A	20:18	Common pipistrelle	1	Foraging	
RB	N/A	20:22	Common pipistrelle	1	Foraging	
RB	N/A	21:09	Whiskered	1	Foraging	



Key:

1	Target buildings	😊 ^{ET}	Surveyor location
★→	Bat activity (emergence)	→	Bat activity (foraging/commuting)

Figure 18 – Surveyor locations and bat activity recorded during survey.

Appendix 4: Good Working Practices.

Bats are small, mobile animals. Individual bats can fit into gaps 14-20mm wide. They can roost in a number of places including crevices between stonework, under roof and ridge tiles, in cavity walls, behind barge boards, in soffits and fascias and around window frames. Builders should always be aware of the potential for bats to be present in almost any small gap accessible from the outside in a building. The following guidelines are provided in order to reduce the risk of harm to individual bats.

- Roofs to be replaced, or which are parts of a building to be demolished, should be dismantled carefully by hand. Ridge tiles, roof tiles and coping stones should always be lifted upwards and not slid off as this may squash/crush bats.
- Re-pointing of crevices should be done between April and October when bats are active. Crevices should be fully inspected for bats using a torch prior to re-pointing.
- Any existing mortar to be raked should be done so by hand (not with a mechanical device).
- Look out for bats during construction works. Bats are opportunistic and may use gaps overnight that have been created during works carried out in the daytime.
- If any bats are found works should stop and the Bat Conservation Trust (0845 1300 228) or a suitably qualified bat ecologist should be contacted.

If it is necessary to pick a bat up always use gloves. It should be carefully caught in a cardboard box and kept in a quiet, dark place. The Bat Conservation Trust or a suitably qualified bat ecologist should be contacted.