

# MONA OFFSHORE WIND PROJECT

## Preliminary Environmental Information Report

Volume 7, Annex 18.2: Phase 1 Habitat Survey Technical Report



April 2023  
Final

Image of an offshore wind farm

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## Acronyms

Acronym	Description
EWG	Expert Working Group
GCN	Great Crested Newt
INNS	Invasive Non-Native Species
JNCC	Joint Nature Conservation Committee
LSS	Land Substation
LSS2	Land Substation Option 2
LSS7	Land Substation Option 7
NVC	National Vegetation Classification
PEIR	Preliminary Environmental Information Report

## Units

Unit	Description
cm	Centimetre
°	Degrees
ha	Hectare
km	Kilometre
m	Metre
%	Percentage



# 1 PHASE 1 HABITAT SURVEY TECHNICAL REPORT

## 1.1 Introduction

- 1.1.1.1 The purpose of this technical report is to provide the methodology and results of the Phase 1 Habitat Surveys undertaken in 2022 for the Mona Offshore Wind Project.
- 1.1.1.2 Phase 1 Habitat Survey is a field survey technique used to rapidly classify and map semi-natural vegetation and other wildlife habitats located within or near a proposed development site. They typically comprise a walkover of the proposed development site and surrounding area to identify habitats present and potential for protected and notable species.
- 1.1.1.3 Phase 1 Habitat Surveys were undertaken to identify habitats and potential for protected or notable species within the Mona Proposed Onshore Development Area.
- 1.1.1.4 This technical report has been used to inform volume 3, chapter 18: Onshore ecology of the Preliminary Environmental Information Report (PEIR).

### Phase 1 habitat survey area

- 1.1.1.5 For the purposes of this technical report, the Mona Proposed Onshore Development Area has been separated into nine sections, as shown in Figure 1.1 as below. As described in volume 1, chapter 3: Project description of the PEIR, two alternative locations have been identified for the Mona Onshore Substation, Land Substation (LSS) Option 2 (LSS2) and LSS Option 7 (LSS7). As such, Section 8 and 9 of the Mona Proposed Onshore Development Area have been sub-divided into LSS2 Section 8, LSS7 Section 8, LSS2 Section 9 and LSS7 Section 9.
- 1.1.1.6 These sections were informed through discussions with the Applicant and approximately followed the boundaries presented in the Works Plans – Onshore. This also allows the location of ecological features to be more accurately described in relation to the Mona Proposed Onshore Development Area.
- 1.1.1.7 In addition, each of these sections has been further sub-divided into land parcels where required, as shown in Figure 1.2 of this technical report below.
- 1.1.1.8 The phase 1 habitat survey area comprises land within the Mona Proposed Onshore Development Area. The location and geographic extent of the phase 1 habitat survey area is presented in Figure 1.1 below.
- 1.1.1.9 For the purposes of the report, only the habitats within the Mona Proposed Onshore Development Area have been described. However, Phase 1 Habitat Surveys extended to habitats adjacent to the Mona Proposed Onshore Development Area. The location and geographic extent of the phase 1 habitat survey area is presented in Figure 1.1 below.



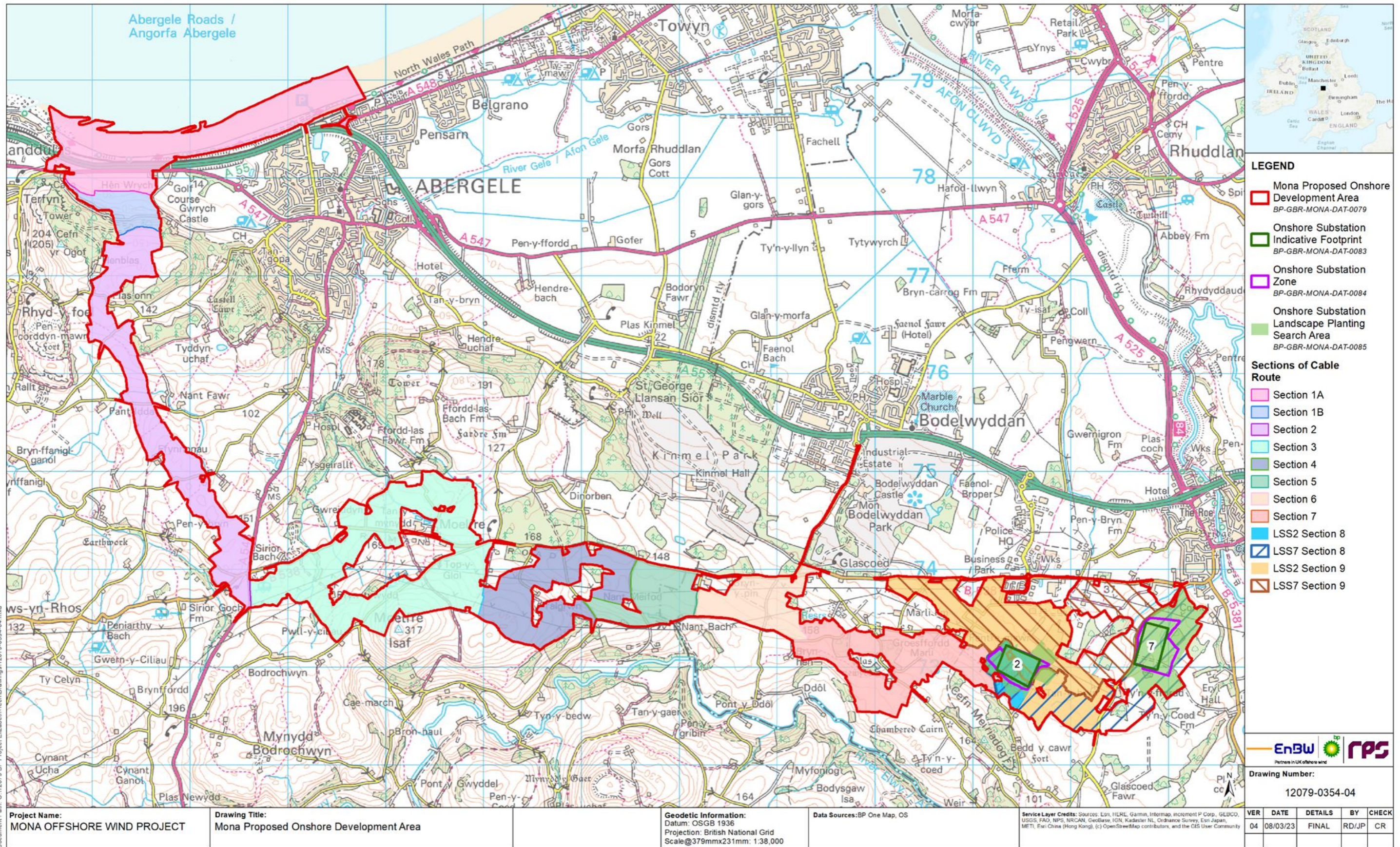


Figure 1.1: Phase 1 habitat survey area.



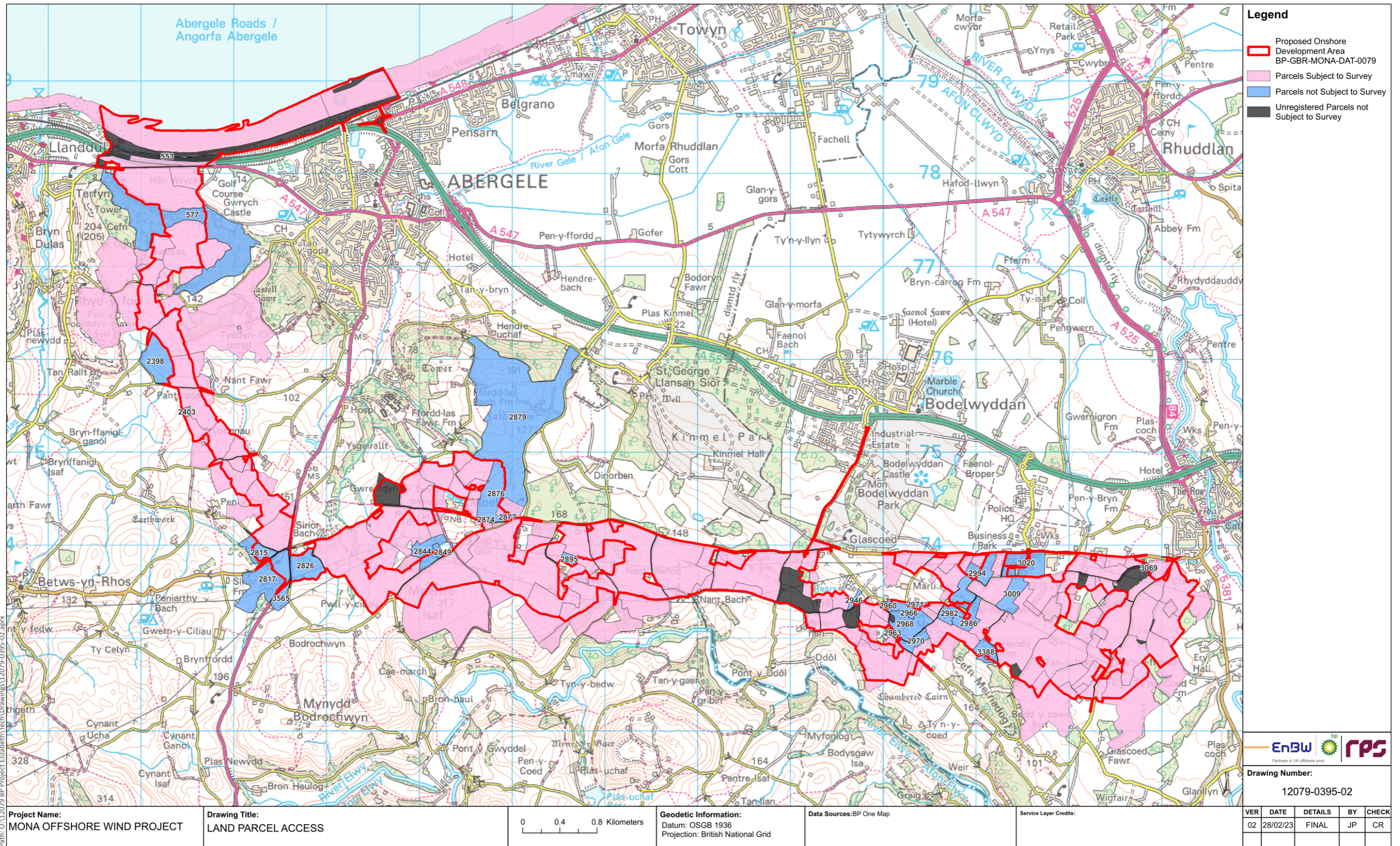


Figure 1.2: Land parcel access.



## 1.2 Consultation

1.2.1.1 Phase 1 Habitat Surveys have been discussed with stakeholders through Onshore Ecology Expert Working Group (EWG) meetings, which were used as a platform to share survey findings. The Onshore Ecology EWG will be used to agree the scope and methodology of further surveys (if required) following PEIR responses.

## 1.3 Survey methodologies

### 1.3.1 Phase 1 habitat survey

1.3.1.1 The Phase 1 Habitat Surveys were undertaken between April 2022 and January 2023 to map broad habitat types present and identify potential for protected or notable species within the phase 1 habitat survey area. The surveys were undertaken by ecologists suitably experienced in undertaking Phase 1 Habitat Surveys in accordance with the standard methodology set out in the Joint Nature Conservation Committee (JNCC) Handbook for Phase 1 Habitat Survey - a technique for environmental audit (JNCC, 2010). All broad habitat types recorded within the phase 1 habitat survey area were mapped using the JNCC Phase 1 Habitat Classification scheme, including phase 1 habitat types.

#### Identifying potential for protected or notable species

1.3.1.2 In addition to broad habitat types, the Phase 1 Habitat Surveys also identified habitats of potential value to legally protected or otherwise notable species. Signs of legally protected or otherwise notable species, including sightings, tracks, droppings and burrows were also recorded during the Phase 1 Habitat Surveys.

1.3.1.3 This information is presented in the form of target notes and is included in Appendix A of this technical report. The location of target notes within the phase 1 habitat survey area are presented in Figure 1.3 to Figure 1.15 of this technical report, where relevant. Examples of the habitats and signs of protected or otherwise notable fauna recorded during the Phase 1 Habitat Surveys include:

- **Habitats:** species-rich native hedgerows that may qualify as 'Important' under The Hedgerow Regulations 1997
- **Invertebrates:** watercourses with potential habitat to support white-clawed crayfish *Austropotamobius pallipes*
- **Amphibians:** ponds with the potential to support breeding populations of protected or otherwise notable amphibians, including Great Crested Newt (GCN) *Triturus cristatus*
- **Reptiles:** terrestrial habitat with potential to support protected or otherwise notable reptiles, such as rough grassland
- **Roosting bats:** mature trees and buildings with features suitable for roosting bats
- **Foraging/commuting bats:** hedgerows and woodland with potential to be used as flightlines or foraging habitat for foraging and commuting bats

- **Badger:** badger *Meles meles* setts, latrines, tracks and habitat with potential for sett-building activity
- **Other mammals:** watercourses with potential habitat to support water vole *Arvicola amphibius* and otters *Lutra lutra*.

## 1.4 Limitations

### 1.4.1 Field survey

1.4.1.1 Due to limited access, some of the land parcels located within the Mona Proposed Onshore Development Area have not yet been subject to Phase 1 Habitat Surveys. However, an understanding of the broad habitat types present within these land parcels, including the requirements for further surveys has been established using aerial photography and desk based analysis (see volume 7, annex 18.1: Terrestrial ecology desk study of the PEIR).

1.4.1.2 Detailed habitat condition assessment and botanical surveys (e.g. National Vegetation Classification) will also be undertaken in 2023 for land parcels not subject to Phase 1 Habitat Surveys (where appropriate). The findings of these detailed habitat condition assessment and botanical surveys will be reported in the Environmental Statement. The location of land parcels which were not subject to Phase 1 Habitat Surveys are presented in Figure 1.2 above.

1.4.1.3 Some Phase 1 Habitat Surveys were undertaken during sub-optimal conditions. For example, during the winter months (i.e. December to February) and/or snowy weather. Where possible, further botanical surveys will be undertaken in 2023 for effected land parcels to provide further survey results.

1.4.1.4 Although 32 land parcels have been identified as providing suitable bat roosting habitat within buildings, Figure 1.3 to Figure 1.15 of this technical report only show one parcel within the Mona Proposed Onshore Development Area containing buildings. It is likely that the boundaries of the land parcels were amended following the Phase 1 Habitat Surveys, which removed buildings present within the land parcels surveyed but outside the Mona Proposed Onshore Development Area. Accordingly, a full assessment of the Phase 1 Habitat Surveys results will be undertaken to determine which buildings located within the phase 1 habitat survey area will require further surveys, prior to the commencement of phase 2 surveys in 2023.

1.4.1.5 The Phase 1 Habitat Surveys were not used to determine the presence or likely absence of a protected or notable species within the phase 1 habitat survey area. The Phase 1 Habitat Surveys were used to assess the potential for habitat within the phase 1 habitat survey area to support protected or notable species. Where a species is seen during the Phase 1 Habitat Surveys, or if there is clear and recent evidence of a species, this has been reported using an appropriate target note (see Appendix A of this technical report).

## 1.5 Results

### 1.5.1 Phase 1 habitat survey

1.5.1.1 Broad habitat types recorded within the phase 1 habitat survey area during Phase 1 Habitat Surveys are presented in Table 1.1 of this technical report below, including



the phase 1 habitat code, broad habitat type, frequency and a description of the habitat type and its location within the phase 1 habitat survey area. The area in hectares (ha) and length in kilometres (km) of each broad habitat type recorded within the phase 1 habitat survey area is provided in Table 1.2 of this technical report below.

1.5.1.2 The location and geographic extent of broad habitat types located within the phase 1 habitat survey area is shown in Figure 1.3 to Figure 1.15 of this technical report below. Target notes taken during Phase 1 Habitat Surveys are provided in Appendix A of this technical report.

1.5.1.3 A summary of the protected or notable species/species groups scoped into or out of the requirement for further surveys is provided in Table 1.4 of this technical report below. This information has also been provided for each land parcel subject to Phase 1 Habitat Surveys in Appendix B of this technical report.

Table 1.1: Broad habitat types identified within the phase 1 habitat survey area.

Phase 1 habitat code	Broad habitat type	Frequency of habitat type	Description
A.1.1.1	<b>Semi-natural broadleaved woodland</b> – vegetation dominated by broadleaved trees more than 5 metres (m) high when mature, forming distinct canopy and must <b>not</b> have obviously been planted by humans.	Occasional	Semi-natural broadleaved woodland was present across all nine sections of the phase 1 habitat survey area. This habitat type was more common towards the west of the phase 1 habitat survey area in Sections 1A and 3 but was also present in smaller amounts in Sections 2, 4, and 5.
A.1.1.2	<b>Plantation broadleaved woodland</b> - vegetation dominated by broadleaved trees more than 5m high when mature, forming distinct canopy and has obviously been planted by humans (evidenced by structured planting, use of guards etc).	Rare	This habitat type was considered to be rare across the phase 1 habitat survey area as only one block of plantation broadleaved woodland was present, within Section 8.
A.1.2.2	<b>Plantation coniferous woodland</b> - vegetation dominated by coniferous trees more than 5m high when mature, forming distinct canopy and has obviously been planted by humans (evidenced by structured planting, use of guards etc).	Rare	This habitat type was rare across the phase 1 habitat survey area, with only one area present, within Section 9 (LSS7 only).
A.1.3.1	<b>Semi-natural mixed woodland</b> - vegetation dominated by a mix of broadleaved and coniferous trees (Neither can exceed 90 percent (%) dominancy) more than 5m high when mature, forming distinct canopy and must not have obviously been planted by humans.	Rare	This habitat type was rare across the phase 1 habitat survey area, with only one area present, within Section 9 (LSS2 and LSS7).
A.1.3.2	<b>Plantation mixed woodland</b> – comprises vegetation dominated by a mix of broadleaved and coniferous trees (with neither exceeding 90% dominancy) more than 5m high when mature and has obviously been planted by humans (evidenced by structured planting, use of guards etc).	Rare	This habitat type was very rare across the phase 1 habitat survey area, with only one very small area present, within Section 3.
A.2.1	<b>Dense/continuous scrub</b> – Dense seral or climax vegetation dominated by locally native shrubs, usually less than 5m tall with few scattered trees.	Rare	Dense/continuous scrub was present across the phase 1 habitat survey area but limited to small pockets. This habitat type was recorded in all sections apart from Section 1B, and Section 5.
A.2.2	<b>Scattered scrub</b> - Seral or climax vegetation dominated by locally native shrubs, usually less than 5m tall with few scattered trees.	Rare	Fewer areas of scattered scrub were present than dense/continuous scrub. This habitat type was rare across the phase 1 habitat survey area, with small areas recorded in Sections 1A, 4, 7, 8 (LSS7 only) and 9 (LSS2 and LSS7).
A.3.1	<b>Broadleaved parkland/scattered trees</b> – Broadleaved trees making up less than 30% of the total area.	Occasional	This habitat type was recorded across the phase 1 habitat survey area, with small pockets in Sections 1A, 2, 3, 4, 7, and 8 (LSS7 only), and a larger area in Section 1B (occupying approximately half of this section).
A.3.3	<b>Mixed parkland/scattered trees</b> - Mixed trees making up less than 30% of the total area.	Rare	This habitat type was very rare across the phase 1 habitat survey area, with only one very small area recorded within Section 8 (LSS7 only) and 9 (LSS2 only).
B.2.2	<b>Semi-improved neutral grassland</b> – Grassland that retains some features of a neutral grassland but due to limited modification by artificial fertilisers, slurry, intensive grazing, herbicide application or drainage has a less diverse range of species and may include some agricultural species.	Common	This habitat type was recorded across the phase 1 habitat survey area, with a very small area in Section 2, occasional fields of semi-improved neutral grassland in Sections 4, 5, and 8 (LSS7 only), and larger areas across a few fields in Sections 3 and 9 (LSS2 and LSS7).
B.3.1	<b>Unimproved calcareous grassland</b> – Grassland with little modification through grazing, fertilizer application etc. Sward composition is characteristic of local basic soils (pH above 7) and limestone or chalk-based ground. Indicative species include: <i>Brachypodium pinnatum</i> , <i>Bromus erectus</i> , <i>Koeleria macrantha</i> , <i>Avenula pratensis</i> , <i>Sesleria albicans</i> , <i>Helianthemum nummularium</i> , <i>Sanguisorba minor</i> and <i>Thymus praecox</i> .	Rare	This habitat type is considered to be rare across the phase 1 habitat survey area as only one field of unimproved calcareous grassland was recorded, within Section 2.
B.3.2	<b>Semi-improved calcareous grassland</b> – Grassland that retains some features of a calcareous grassland but due to limited modification by artificial fertilisers, slurry, intensive grazing, herbicide application or drainage has a less diverse range of species and may include some agricultural species.	Rare	This habitat type was rare across the phase 1 habitat survey area, with only two fields identified of this habitat type, one in Section 1A, and one in Section 2.

Phase 1 habitat code	Broad habitat type	Frequency of habitat type	Description
B.4	<b>Improved grassland</b> – Grasslands heavily effected by grazing, drainage, herbicide application, inorganic fertilisers or heavy doses of manure or slurry. Very limited range of grass species and few common forbs, mainly those resistant to mowing or grazing such as <i>Taraxicum officinale</i> , <i>Trifolium repens</i> , <i>Rumex acetosa</i> , <i>Bellis perennis</i> , <i>Ranunculus acris</i> , <i>Lolium perenne</i> and <i>Ranunculus bulbosa</i> . Important indicators include: <ul style="list-style-type: none"> <li>Bright green, lush and even sward, dominated by grasses</li> <li>Low diversity of forb species</li> <li>More than 50% <i>Lolium perenne</i>, <i>Trifolium repens</i> and other agricultural species.</li> </ul>	Common	This habitat type was the most common across the phase 1 habitat survey area with a total of 498.59ha recorded (with the second most common habitat type, poor semi-improved grassland, having just 71.24ha). Most of Sections 2, 3, 4, and 6 comprise improved grassland, with this habitat type also recorded within Section 1A, 5, 7, 8 (LSS2 and LSS7) and 9 (LSS2 and LSS7) in smaller proportions.
B.5	<b>Marsh/marshy grassland</b> - This is a diffuse category covering certain <i>Molinia</i> grasslands, grasslands with a high proportion of <i>Juncus</i> species, <i>Carex</i> species or <i>Filipendula ulmaria</i> , and wet meadows and pastures supporting communities of species such as <i>Caltha palustris</i> or <i>Valeriana</i> species, where broadleaved herbs rather than grasses, predominate.	Occasional	This habitat type was recorded in several small pockets across Section 3, and in one area in both Sections 2 and 4.
B.6	<b>Poor semi-improved grassland</b> – Similar to neutral semi-improved grassland but with less species diversity and likely to have less species indicative of the substrate conditions.	Common	Poor semi-improved grassland is considered common across the phase 1 habitat survey area and was the second most common habitat type identified within the phase 1 habitat survey area. Small areas were recorded within in Sections 1A and 2, becoming more common to the southeast of the phase 1 habitat survey area. This habitat type recorded in all sections apart from Section 1B.
C.1.1	<b>Continuous bracken</b> - Areas with areas of <i>Pteridium aquilinum</i> .	Rare	This habitat type was considered to be very rare across the phase 1 habitat survey area, with only one small area identified in Section 4.
C.1.2	<b>Scattered bracken</b> - Areas with scattered patches of <i>Pteridium aquilinum</i> .	Rare	This habitat type was rare across the phase 1 habitat survey area, with three small areas recorded, two within Section 3 and one within Section 4.
C.3.1	<b>Tall ruderal</b> – Tall perennial or biennial dicotyledons, usually more than 25 centimetre (cm) high of species such as: <i>Chamemon angustifolium</i> , <i>Urtica dioica</i> and <i>Reynoutria japonica</i> .	Occasional	Tall ruderal vegetation was recorded occasionally throughout survey area. This habitat type was recorded in small but widespread pockets, recorded in Sections 1A, 2, 3, 4, 7, 9 (LSS2 and LSS7).
D.1.2	<b>Basic dry dwarf shrub heath</b> - Vegetation with greater than 25% cover of ericoids or small gorse species in relatively dry situations forms this category. Basic heaths are much more restricted in extent and may be recognised by the presence of herbs characteristic of chalk grassland and open habitats.	Rare	This habitat was considered rare across the phase 1 habitat survey area as only two small areas were recorded, both within Section 4.
G.1	<b>Standing water</b> - Includes lakes, reservoirs, pools, flooded gravel pits, ponds, water-filled ditches, canals and brackish lagoons.	Rare	Standing water was present in small areas across the phase 1 habitat survey area with low numbers of ponds identified in Sections 2 and 3, with ponds becoming more common to the southeast in Sections 7, 8 (LSS7 only) and 9 (LSS2 and LSS7).
G.2	<b>Running water</b> – rivers and streams with the arrow showing the direction of flow.	Occasional	Rivers were rare across the phase 1 habitat survey area but brooks, drains and streams were present across many land parcels. No running water was identified at the very northwest of phase 1 habitat survey area in Sections 1A or 1B, but it was recorded within Sections 2, 3, 5, 8 (LSS7 only), and 9 (LSS2 and LSS7).
I.1.1.2	<b>Inland cliff</b> – Rock surfaces over 2m high and sloping at more than 60 degrees (°). Vegetated cliffs with more than 10% vascular plant cover are not included, but should be mapped using the relevant vegetation code, and target noted as necessary.	Rare	Inland cliffs were rare across the phase 1 habitat survey area as only a small length of this habitat type was recorded, within Section 2.
J.1.1	<b>Arable</b> – Arable cropland, horticultural land, freshly ploughed land and recently re-seeded grassland, potentially managed for silage.	Common	Arable land was common across the phase 1 habitat survey area, with arable fields located in every Section other than Sections 1A and 7.
J.1.2	<b>Amenity grassland</b> - This comprises intensively managed and regularly mown grasslands, typical of lawns, playing fields, golf course fairways and many urban 'savannah' parks, in which <i>Lolium perenne</i> , with or without <i>Trifolium repens</i> , often predominates. The sward composition will depend on the original seed mixture used and on the age of the community. Herbs such as <i>Bellis perennis</i> , <i>Plantago major</i> and <i>Taraxacum officinale</i> may be present.	Rare	Amenity grassland was rare across the phase 1 habitat survey area as it was only recorded in a small area in Section 2.
J.1.4	<b>Introduced shrub</b> - This is vegetation dominated by shrub species that are not locally native, whether planted or self-sown. Common introduced shrubs include species of <i>Buxus</i> , <i>Cornus</i> , <i>Laurus</i> , <i>Ligustrum</i> , <i>Rhododendron</i> and <i>Symphoricarpus</i> . Formal beds of shrubs such as of <i>Hypericum calycinum</i> , <i>Cotoneaster</i> , heaths and dwarf conifers should be included here.	Rare	Introduced shrub was rare across the phase 1 habitat survey area, with only one small area recorded within Section 3.

Phase 1 habitat code	Broad habitat type	Frequency of habitat type	Description
J.2.1.1	<b>Intact native species rich hedge</b> – Hedge with at least five native species and little/no gaps.	Common	This type of hedge was common across the phase 1 habitat survey area, except for Sections 1A and 1B where it was absent.
J.2.1.2	<b>Intact native species poor hedge</b> – Hedge with less than five native species and little/no gaps.	Common	This was the most common type of hedge across the phase 1 habitat survey area and was identified within every section except Section 1B. Section 9 (LSS7) had the longest length of this hedge type (7.78km).
J.2.2.1	<b>Defunct native species rich hedge</b> – Hedge with at least five native species and gaps that render the barrier not stockproof.	Occasional	This was the least common type of hedge across the phase 1 habitat survey area and was identified in Sections 3, 4, 5, 6 and 7.
J.2.2.2	<b>Defunct native species poor hedge</b> - Hedge with less than five native species and gaps that render the barrier not stockproof.	Common	This type of hedge was most common within the centre of the phase 1 habitat survey area, within Sections 2 and 3, but it was also present in Sections 1A, 4, 5, 7, 8 (LSS7 only), and 9 (LSS2 and LSS7).
J.2.3.1	<b>Native species rich hedge with trees</b> – Hedge with trees along its length with at least five native species.	Common	This type of hedge was common across the phase 1 habitat survey area, with the longest length recorded in Section 3, but also identified within Sections 2, 4, 5, 6, 8 (LSS7 only), and 9 (LSS2 and LSS7).
J.2.3.2	<b>Native species poor hedge with trees</b> - Hedge with trees along its length with less than five native species.	Common	This type of hedge was common across the phase 1 habitat survey area and was recorded in every section of the Mona Proposed Onshore Development Area except for Sections 1B, 6 and 7.
J.2.4	<b>Fence</b>	Common	Fences were the most common boundary features across the phase 1 habitat survey area and were identified in every section.
J.2.5	<b>Wall</b>	Occasional	Walls were recorded within five sections of the phase 1 habitat survey area, including Sections 1A, 2, 4, 6 and 7.
J.2.6	<b>Dry ditch</b>	Occasional	Dry ditches were identified within five of the sections of phase 1 habitat survey area (Sections 3, 5, 7, 8 (LSS7 only), and 9 (LSS2 and LSS7)) and were more common towards the east of the Mona Proposed Onshore Development Area.
J.2.8	<b>Earth bank</b>	Rare	Although a longer length of earth bank was recorded compared to walls, this habitat type was rare across the phase 1 habitat survey area as it was only recorded within one section, Section 6.
J.3.6	<b>Buildings</b> – buildings or built-up areas, we have included concrete foundations in this category.	Rare	Buildings were rarely identified within the phase 1 habitat survey area, with five buildings located within one land parcel in Section 9 (LSS2 and LSS7) and no others identified within the phase 1 habitat survey area.
J.4	<b>Bare ground</b> - Bare ground includes any type of bare soil or other substrate not already covered in another habitat type (e.g. bare peat E4, intertidal H1, shingle H3)	Occasional	Small areas of bare ground were recorded across six of the sections including Sections 1A, 2, 3, 7, 8 (LSS7 only), and 9 (LSS2 and LSS7).



**Table 1.2: Area of broad habitat types identified within the phase 1 habitat survey area.**

Phase 1 habitat code and broad habitat type	Area (ha) of broad habitat types within each section of the Mona Proposed Onshore Development Area												
	1A	1B	2	3	4	5	6	7	LSS2 - 8	LSS7 - 8	LSS2 - 9	LSS7 - 9	Total
A1.1.1 - Broadleaved woodland - semi-natural	1.54		0.53	2.23	0.64	0.40				2.47	0.32	1.47	<b>9.58</b>
A1.1.2 - Broadleaved woodland - plantation										1.62			<b>1.62</b>
A1.2.2 - Coniferous woodland - plantation												1.32	<b>1.32</b>
A1.3.1 - Mixed woodland - semi-natural											3.54	3.54	<b>7.08</b>
A1.3.2 - Mixed woodland - plantation				0.01									<b>0.01</b>
A2.1 - Scrub - dense/continuous	0.10		0.22	0.24	0.45		0.04	0.12		0.04	0.04	0.14	<b>1.39</b>
A2.2 - Scrub - scattered	0.33				0.37			0.04		0.08	0.26	0.20	<b>1.27</b>
A3.1 - Broadleaved Parkland/scattered trees	0.13	10.77	0.42	0.30	0.11			0.27		0.27			<b>12.28</b>
A3.3 - Mixed Parkland/scattered trees										0.08	0.08		<b>0.16</b>
B2.2 - Neutral grassland - semi-improved			0.11	19.09	2.55	1.60				1.78	4.23	15.52	<b>44.88</b>
B3.1 - Calcareous grassland - unimproved			1.46										<b>1.46</b>
B3.2 - Calcareous grassland - semi-improved	5.47		0.58										<b>6.05</b>
B4 - Improved grassland	13.13		91.67	101.27	74.13	21.97	42.02	40.35	0.15	61.59	60.46	52.55	<b>559.30</b>
B5 - Marsh/marshy grassland			0.11	3.98	0.45								<b>4.55</b>
B6 - Poor semi-improved grassland	1.99		0.97	9.15	1.36	4.38	2.83	20.50		26.94	13.04	3.12	<b>84.28</b>
C1.1 - Bracken - continuous					0.05								<b>0.05</b>
C1.2 - Bracken - scattered				1.10	0.06								<b>1.16</b>
C3.1 - Other tall herb and fern - ruderal	4.07		0.46	1.67	0.30			0.14			0.32	0.38	<b>7.33</b>
D1.2 - Dry dwarf shrub heath - basic					0.73								<b>0.73</b>
G1 - Standing water			0.08	0.03				0.01		0.34	0.18	0.22	<b>0.85</b>
J1.1 - Cultivated/disturbed land - arable		5.72	20.66	9.91	3.78	14.29	2.43			3.99	0.80	9.62	<b>71.19</b>
J1.2 - Cultivated/disturbed land - amenity grassland			0.21										<b>0.21</b>
J1.4 - Introduced shrub				0.04									<b>0.04</b>
J3.6 - Buildings				0.00							0.01	0.17	<b>0.19</b>
J4 - Bare ground	0.04		0.22	0.26				0.31		0.38	0.63	1.23	<b>3.06</b>
Digitisation in progress				2.76	1.54	2.10		4.20	21.73	14.61	22.61	31.15	<b>100.71</b>
<b>Total</b>	<b>26.80</b>	<b>16.49</b>	<b>117.70</b>	<b>152.06</b>	<b>86.52</b>	<b>44.73</b>	<b>47.32</b>	<b>65.94</b>	<b>21.89</b>	<b>114.18</b>	<b>106.51</b>	<b>120.60</b>	<b>920.74</b>

**Table 1.3: Length of broad habitat types identified within the phase 1 habitat survey area.**

Phase 1 habitat code and broad habitat type	Length (km) of broad habitat types within each section of the Mona Proposed Onshore Development Area												
	1A	1B	2	3	4	5	6	7	LSS7 - 9	LSS7 - 8	LSS2 - 9	LSS2 - 8	Total
G2 - Running water			0.45	2.28		0.39			1.94	1.23	0.43		<b>4.85</b>
I1.1.2 - Inland cliff - basic			0.05										<b>0.05</b>
J2.1.1 - Intact hedge - native species-rich			2.54	4.86	3.14	1.65	2.46	2.71	2.82	5.37	4.07		<b>29.62</b>
J2.1.2 - Intact hedge - species-poor	0.62		4.67	2.85	3.12	2.28	1.09	1.50	7.78	2.78	4.24	0.29	<b>31.22</b>
J2.2.1 - Defunct hedge - native species-rich	0.00		0.57	0.67	0.64	0.21	0.30	0.92					<b>3.31</b>
J2.2.2 - Defunct hedge - species-poor	1.16		3.92	3.46	2.02	0.87		1.01	1.19	0.59	1.50		<b>15.72</b>
J2.3.1 - Hedge with trees - native species-rich			0.86	2.52	0.72	0.42	0.82		0.53	0.76	1.29		<b>7.91</b>
J2.3.2 - Hedge with trees - species-poor	0.03		0.92	5.10	0.01	0.31			1.64	4.09	2.70		<b>14.81</b>
J2.4 - Fence	1.21	1.64	6.74	9.02	8.71	1.66	2.47	5.04	11.68	5.73	8.23	0.25	<b>62.40</b>
J2.5 - Wall	0.90		0.20		1.57		0.10	0.32					<b>3.09</b>
J2.6 - Dry ditch				0.84		0.49		0.43	1.69	1.17	1.81		<b>6.42</b>
J2.7 - Boundary removed				0.09	0.09								<b>0.19</b>
J2.8 - Earth bank							3.09						<b>3.09</b>
<b>Total</b>	<b>3.92</b>	<b>1.64</b>	<b>22.66</b>	<b>31.70</b>	<b>20.02</b>	<b>8.28</b>	<b>13.45</b>	<b>14.32</b>	<b>34.09</b>	<b>25.85</b>	<b>28.84</b>	<b>5.10</b>	<b>209.87</b>

**Table 1.4: Protected or notable species/species groups scoped in or out for further surveys.**

Species/species group	Justification	Scoped in or out of further surveys for each section of the Mona Proposed Onshore Development Area											
		1A	1B	2	3	4	5	6	7	LSS7 - 9	LSS7 - 8	LSS2 - 9	LSS2 - 8
Amphibian/GCN	Habitats suitable for GCN were identified across the phase 1 habitat survey area, although more common to the east of the Mona Proposed Onshore Development Area. Land parcels with the potential to support GCN were recorded in Sections 2, 3, 7, 8 (LSS2 and LSS7, and 9 (LSS2 and LSS7).	Out	Out	In	In	Out	Out	Out	In	In	In	In	In
Aquatic Invertebrates	Habitats with the potential to support aquatic invertebrates were identified within Sections 1A, 2, 8 (LSS2 and LSS7, and 9 (LSS2 and LSS7).	In	Out	In	Out	Out	Out	Out	Out	In	In	In	In
Badger	Habitats suitable for badger were identified across the phase 1 habitat survey area, in every section other than Section 5, and in 65% of land parcels surveyed.	In	In	In	In	In	Out	In	In	In	In	In	In
Bats - Bat Activity	Habitats suitable for foraging and/or commuting bats were identified across the phase 1 habitat survey area including Sections 2, 3, 6, 7, 8, and 9.	Out	Out	In	In	Out	Out	In	In	In	In	In	In
Bats - Bat Building	Buildings were scoped in for bat roost potential across the phase 1 habitat survey area, including Sections 1A, 2, 3, 4, 6, 7, 8 and 9. However, the phase 1 mapping only shows buildings within Section 9 LSS2 and LSS7 (see limitations section).	In	Out	In	In	In	Out	In	In	In	In	In	In
Bats - Bat Hibernation	20 land parcels were scoped in for hibernation potential for bats, within Sections 2, 3, 4, 6, 7 and 9 (LSS2 and LSS7).	Out	Out	In	In	In	Out	In	In	In	Out	In	Out
Bats - Bat Tree	Trees that were considered suitable for roosting bats were common and widespread across the phase 1 habitat survey area, having been identified within every section of the Mona Proposed Onshore Development Area, and in over 80% of surveyed land parcels within the phase 1 habitat survey area.	In	In	In	In	In	In	In	In	In	In	In	In
Birds - Schedule 1	Habitats suitable for Schedule 1 bird species were identified across the phase 1 habitat survey area, within all sections of the Mona Proposed Onshore Development Area, apart from Sections 5 and 6.	In	In	In	In	In	Out	Out	In	In	In	In	In

Species/species group	Justification	Scoped in or out of further surveys for each section of the Mona Proposed Onshore Development Area											
		1A	1B	2	3	4	5	6	7	LSS7 - 9	LSS7 - 8	LSS2 - 9	LSS2 - 8
Fish and eel	The potential for fish to be present was identified in four land parcels across the phase 1 habitat survey area: one in Section 1A, one in Section 2, and two in Section 9 (one in LSS2, and one in both LSS2 and LSS7).	In	Out	In	Out	Out	Out	Out	Out	In	Out	In	Out
Hazel Dormouse <i>Muscardinus avellanarius</i>	Habitats suitable for dormice including hedgerows and woodland were recorded across the phase 1 habitat survey area in all sections other than Sections 1A, 1B and 5.	Out	Out	In	In	In	Out	In	In	In	In	In	In
INNS	Invasive Non-Native Species (INNS) have been scoped in around 10% of the surveyed land parcels, in Sections 2, 3, 4, 8 (LSS2 and LSS7) and 9 (LSS2 and LSS7) based on the identification of INNS during the Phase 1 Habitat Survey.	Out	Out	In	In	In	Out	Out	Out	In	In	In	In
Otter	Habitats with the potential to support otters were identified in five land parcels within the phase 1 habitat survey area; three within Section 2, and two within Section 9 (LSS7 only).	Out	Out	In	Out	Out	Out	Out	Out	In	Out	Out	Out
Plants	The Phase 1 Habitat Surveys did not include a full species list of plants present within the phase 1 habitat survey area. However, the requirement for National Vegetation Classification (NVC) surveys were scoped in for 13 land parcels across the phase 1 habitat survey area, in Sections 1A, 2, 3, 4, 8 (LSS7) and 9 (LSS2 and LSS7). The potential for hedgerows of importance was identified across the phase 1 habitat survey area, in all sections other than Sections 1A and 1B.	In	Out	In	In	In	Out	Out	Out	Out	In	In	In
Reptiles	Habitats with the potential to support reptiles were identified across the phase 1 habitat survey area, in all sections of the phase 1 habitat survey area other than Section 5 and 8 (LSS7).	In	In	In	In	In	Out	In	In	In	Out	In	Out
Terrestrial Invertebrates	Habitats with the potential to support terrestrial invertebrates were identified within Sections 1A, 2, 3, 4, 8 (LSS2 and LSS7, and 9 (LSS2 and LSS7).	In	Out	In	In	In	Out	Out	Out	In	In	In	In
Water vole	Habitats with the potential to support water vole were identified in two sections of the phase 1 habitat survey area: Sections 2 and 9 (LSS2 and LSS7).	Out	Out	In	Out	Out	Out	Out	Out	In	Out	In	Out



Species/species group	Justification	Scoped in or out of further surveys for each section of the Mona Proposed Onshore Development Area											
		1A	1B	2	3	4	5	6	7	LSS7 - 9	LSS7 - 8	LSS2 - 9	LSS2 - 8
White Clawed Crayfish	Habitats with the potential to support white clawed crayfish were identified in two sections of the phase 1 habitat survey area; Sections 2 and 9 (LSS2 and LSS7).	Out	Out	In	Out	Out	Out	Out	Out	In	Out	In	Out

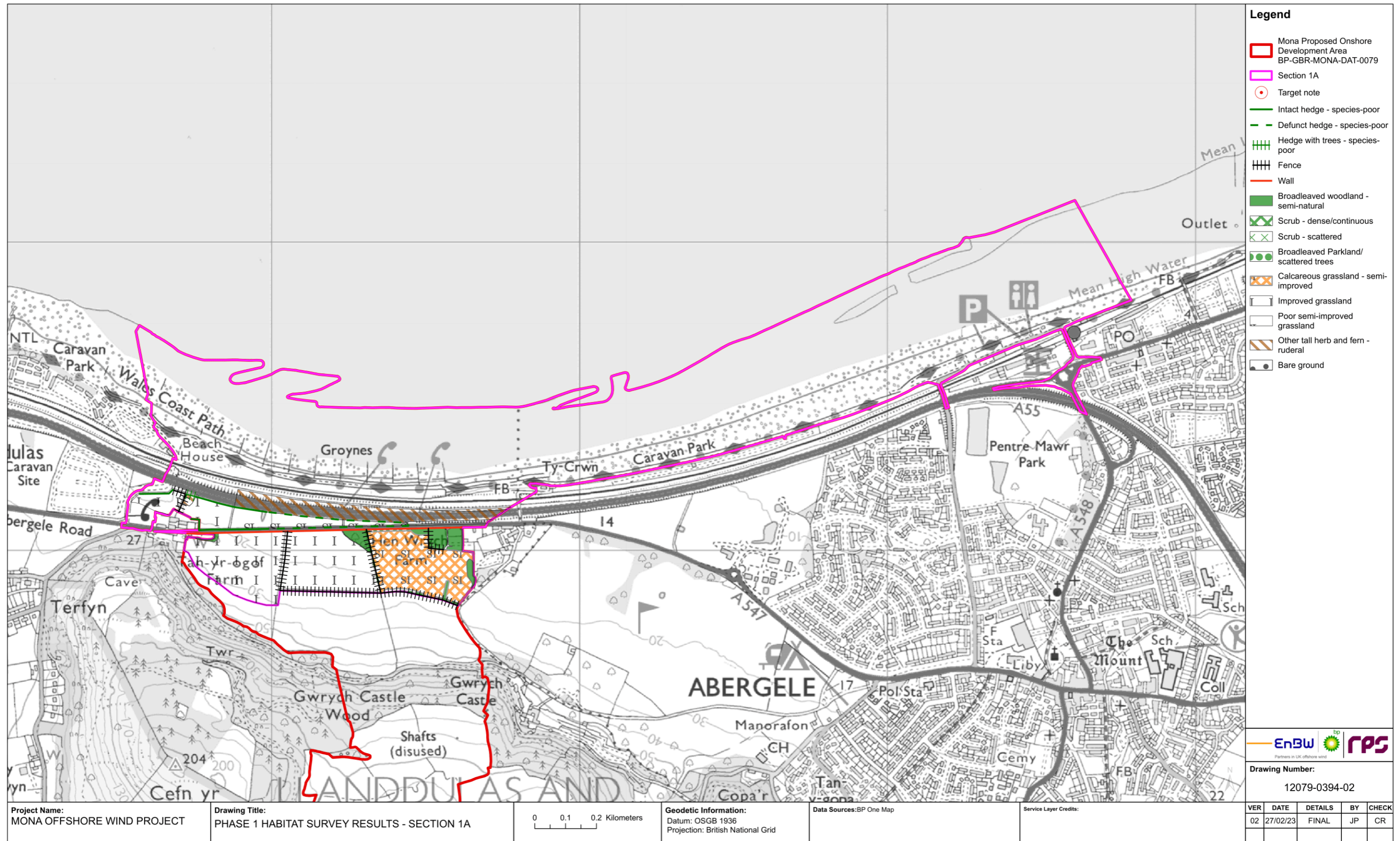


Figure 1.3: Phase 1 Habitat Survey results for Section 1A.



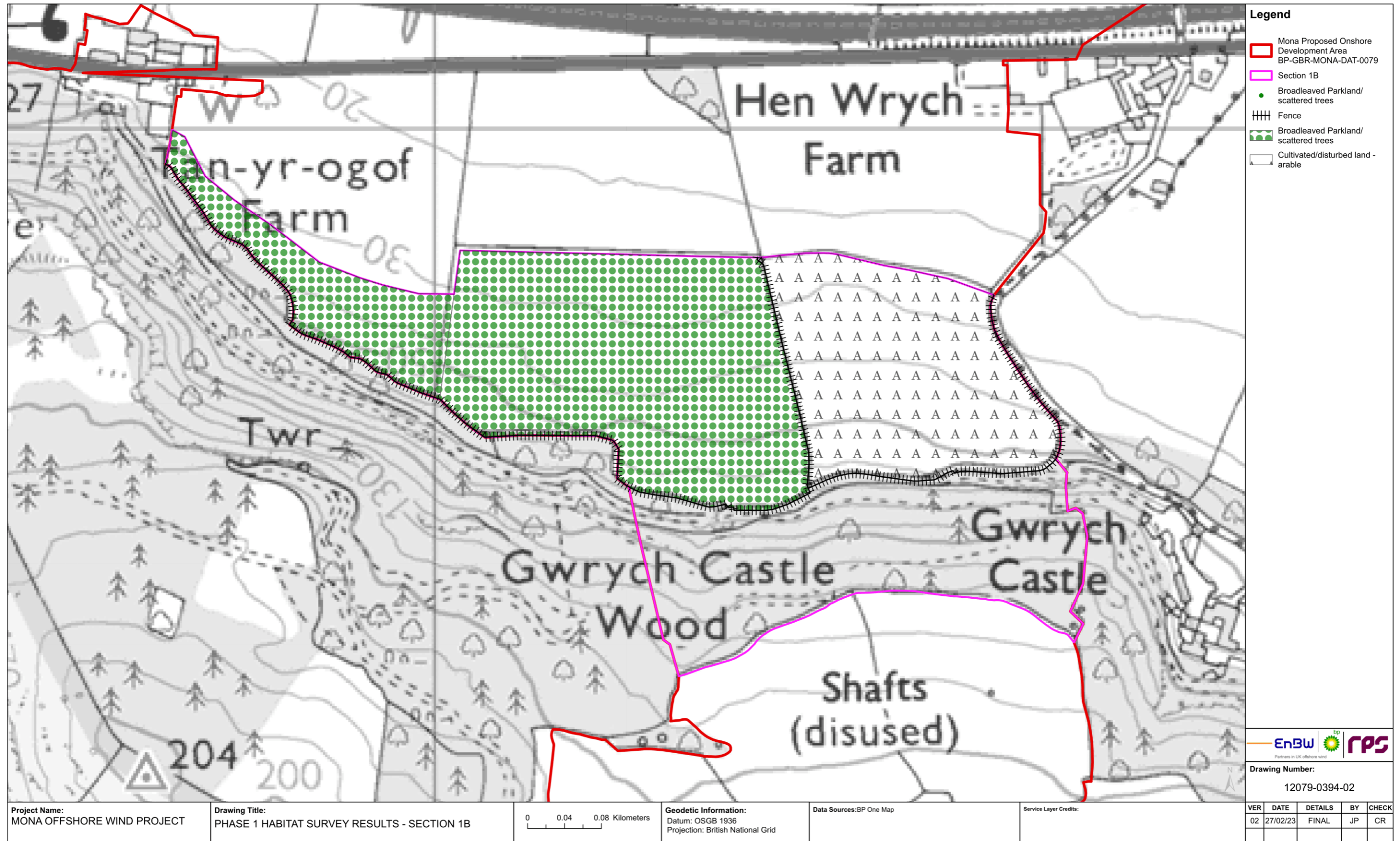


Figure 1.4: Phase 1 Habitat Survey results for Section 1B.



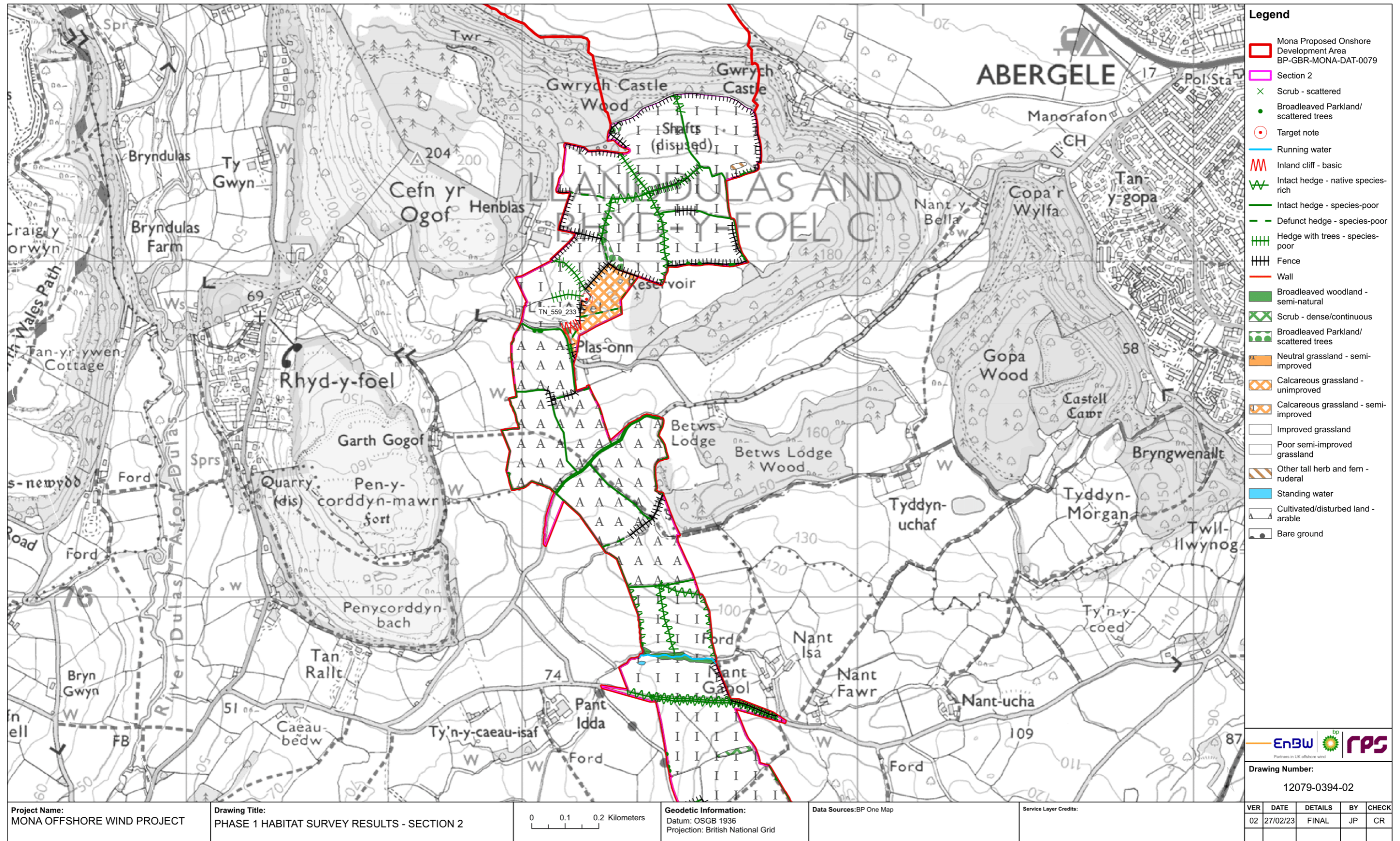


Figure 1.5: Phase 1 Habitat Survey results for Section 2 (northern extent).



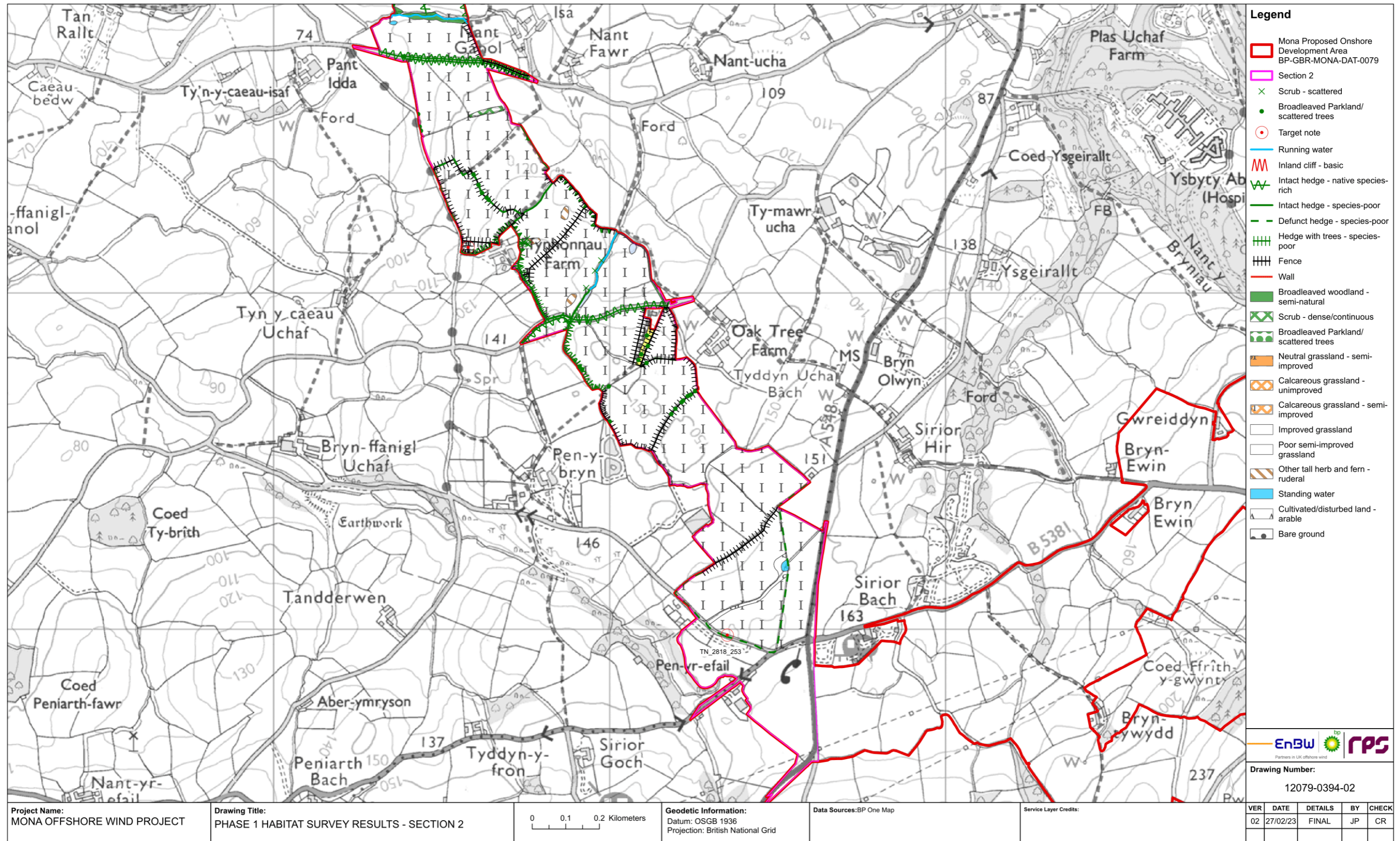


Figure 1.6: Phase 1 Habitat Survey results for Section 2 (southern extent).



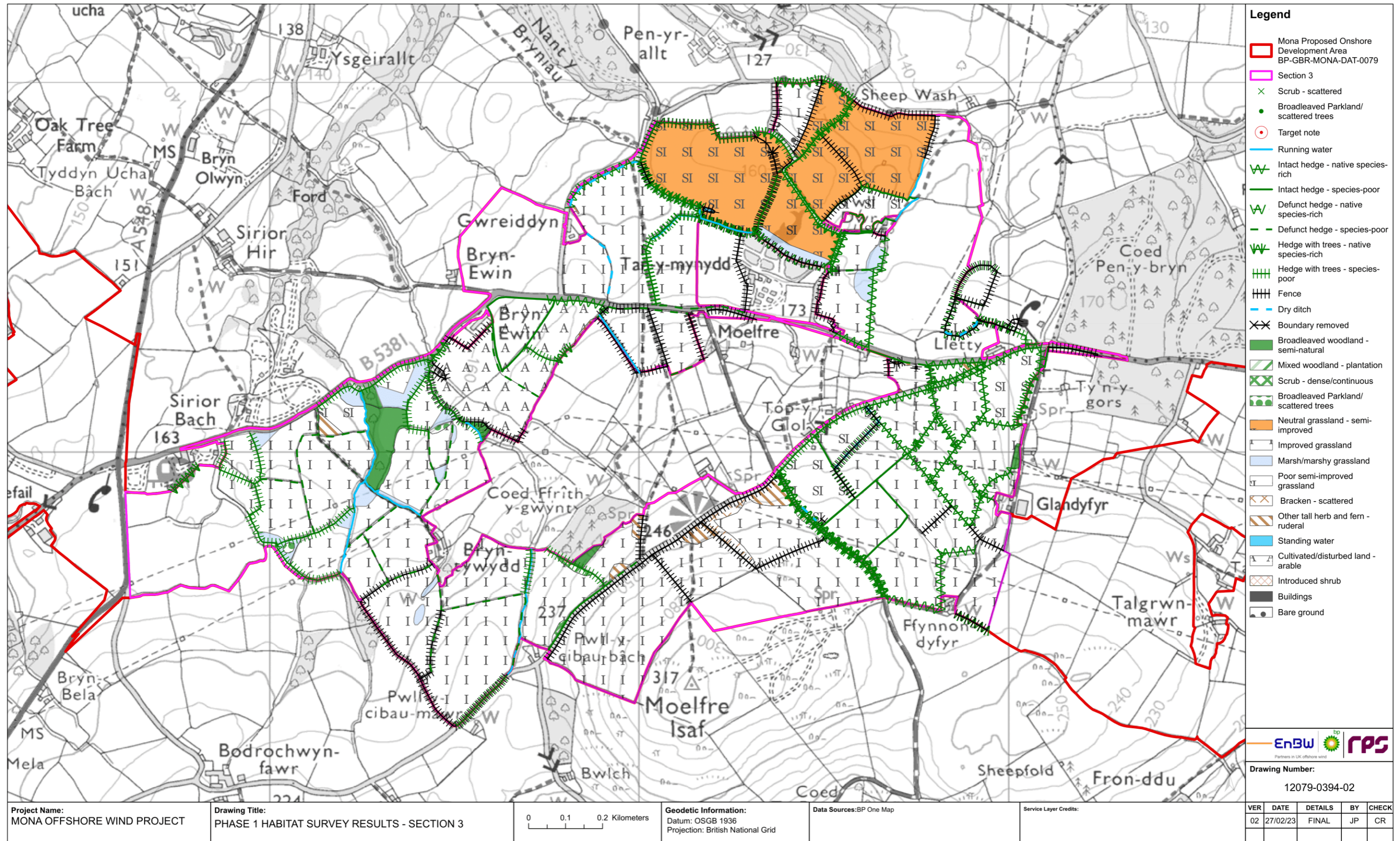


Figure 1.7: Phase 1 Habitat Survey results for Section 3.



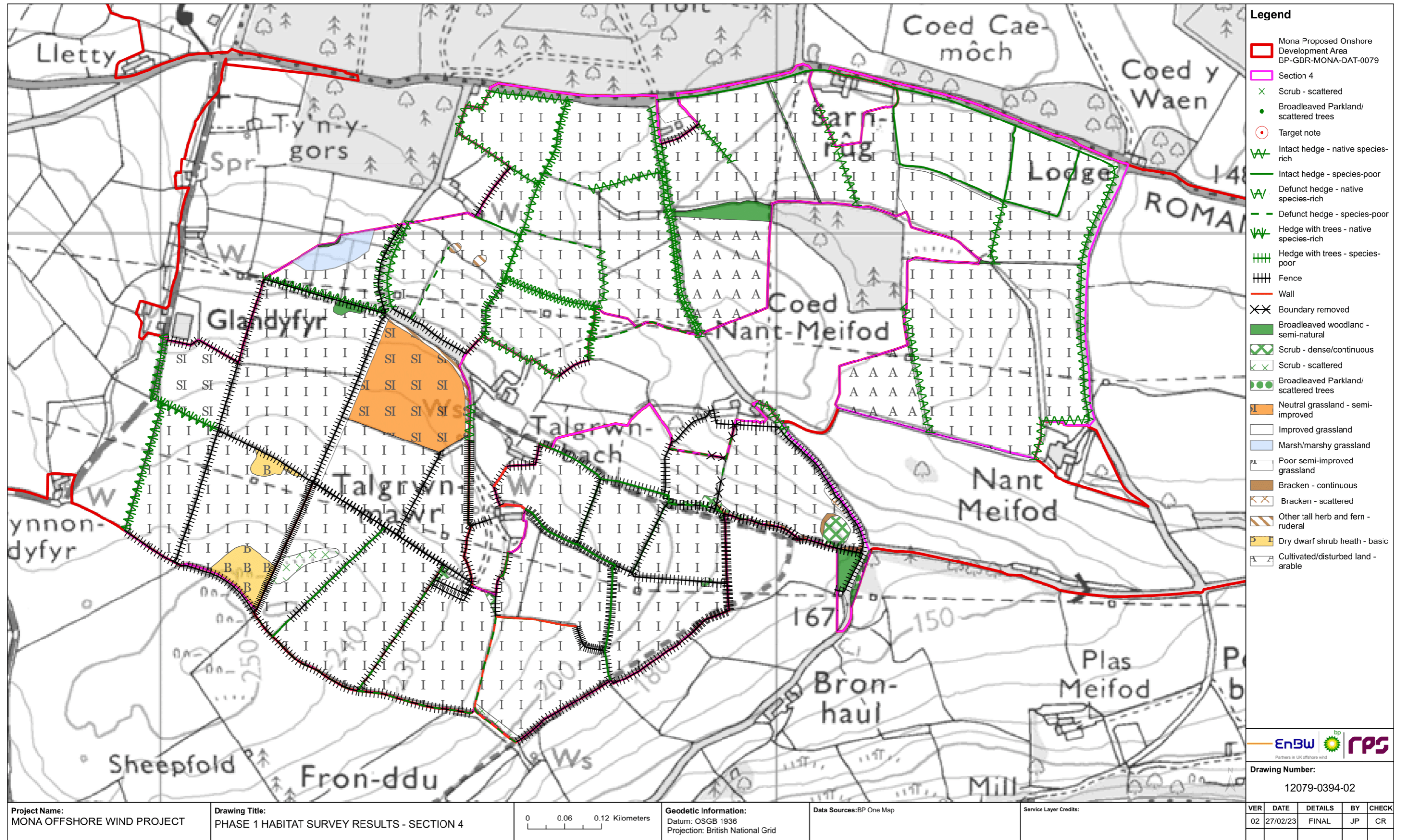


Figure 1.8: Phase 1 Habitat Survey results for Section 4.



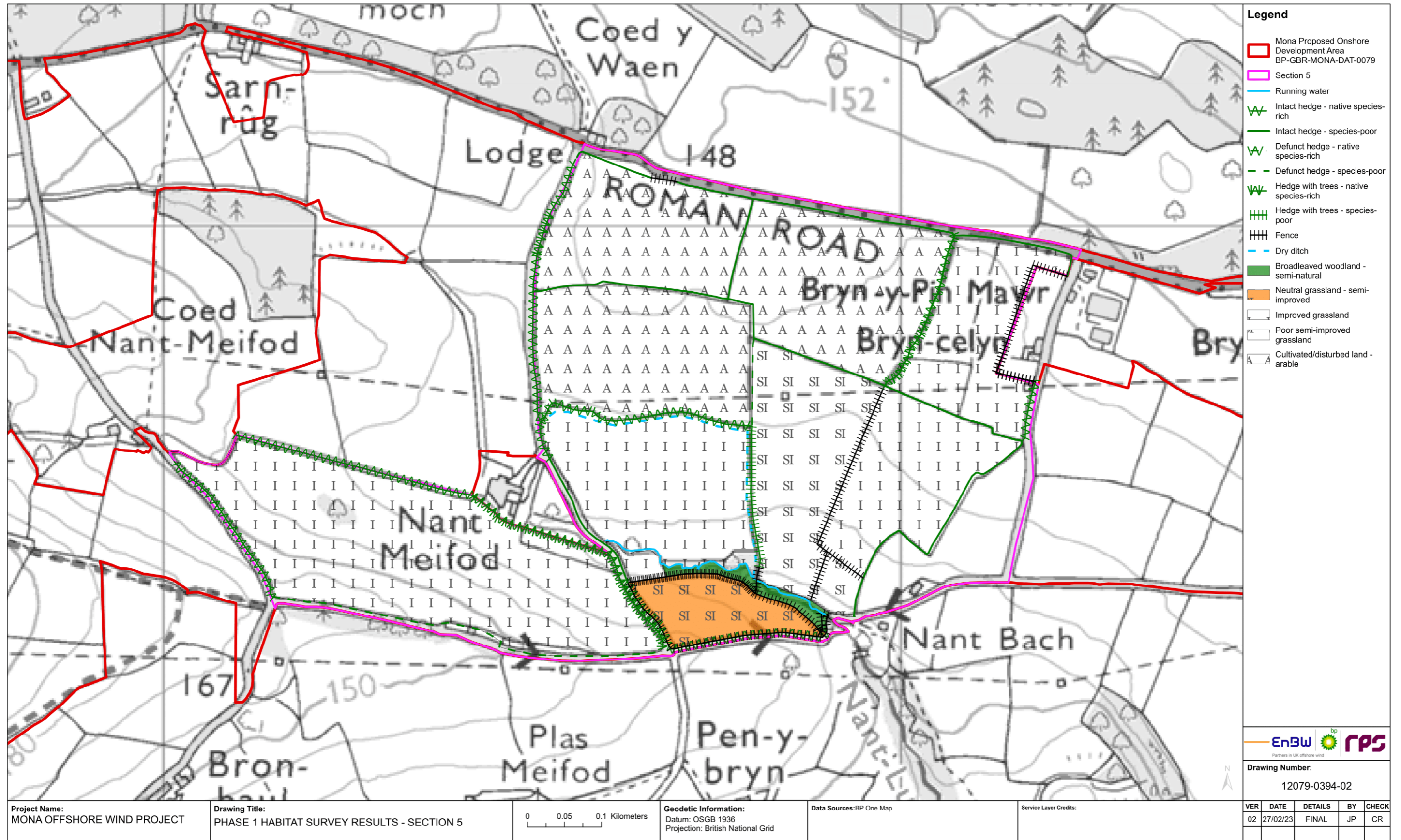


Figure 1.9: Phase 1 Habitat Survey results for Section 5.



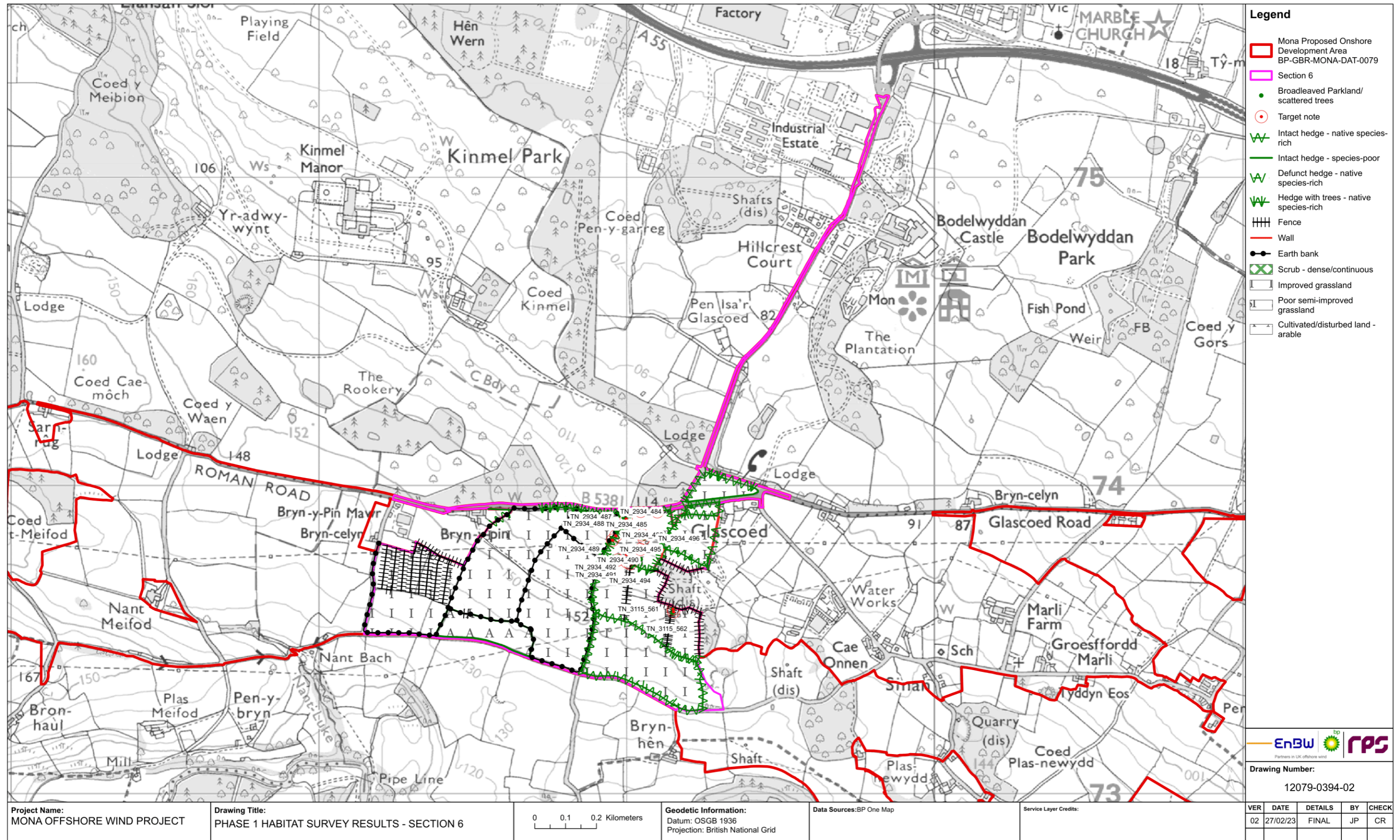


Figure 1.10: Phase 1 Habitat Survey results for Section 6.



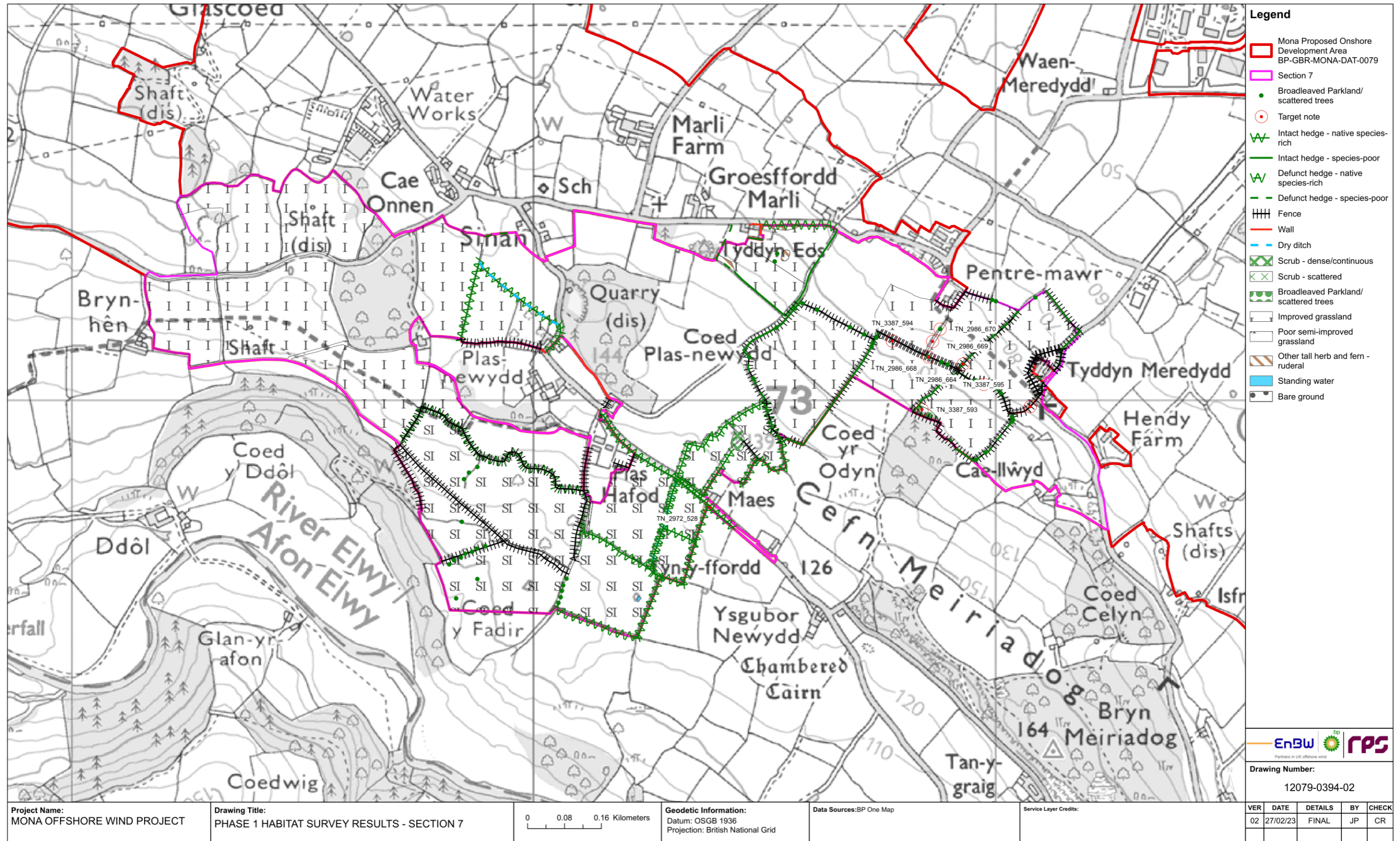


Figure 1.11: Phase 1 Habitat Survey results for Section 7.



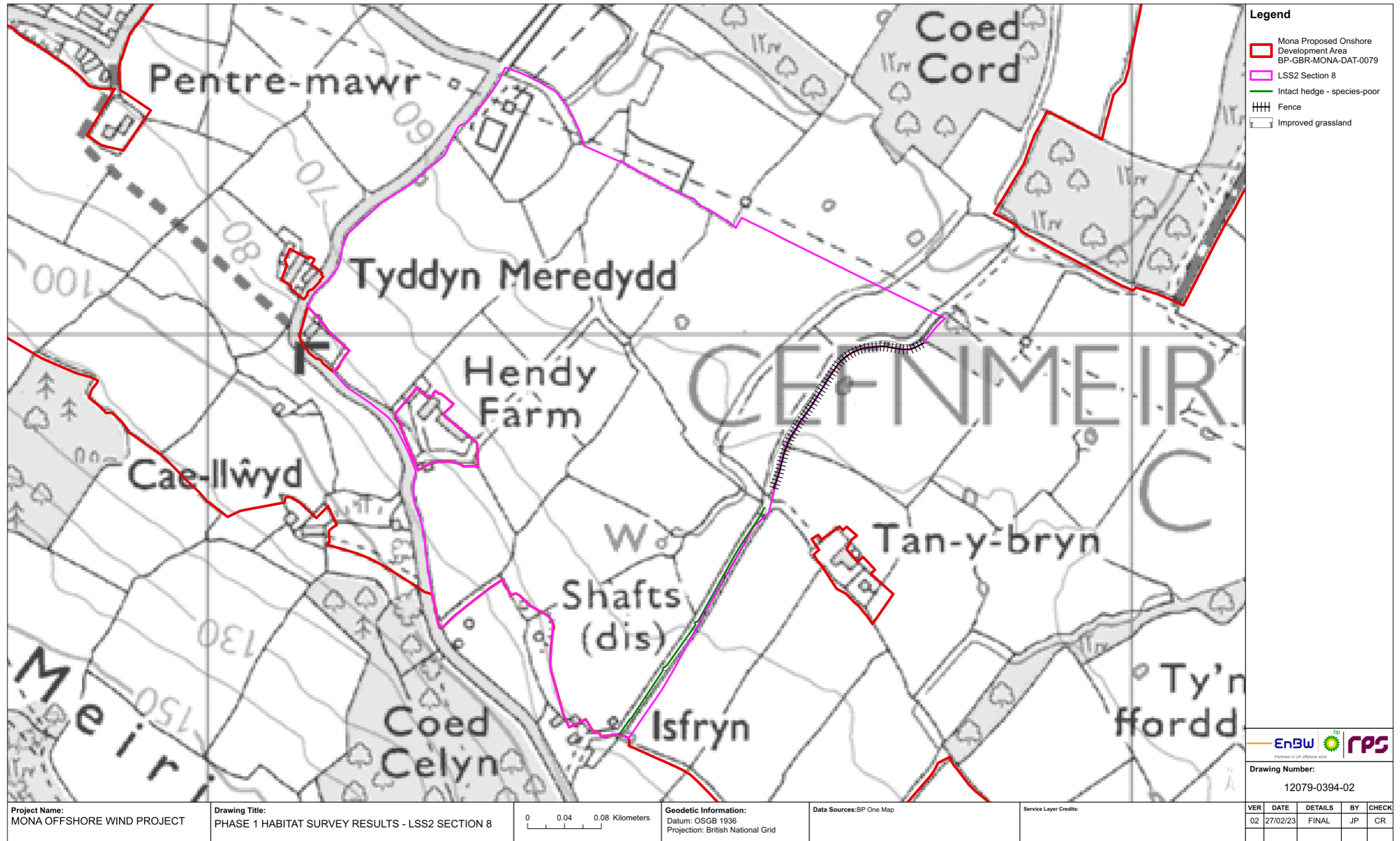


Figure 1.12: Phase 1 Habitat Survey results for LSS2 - Section 8.



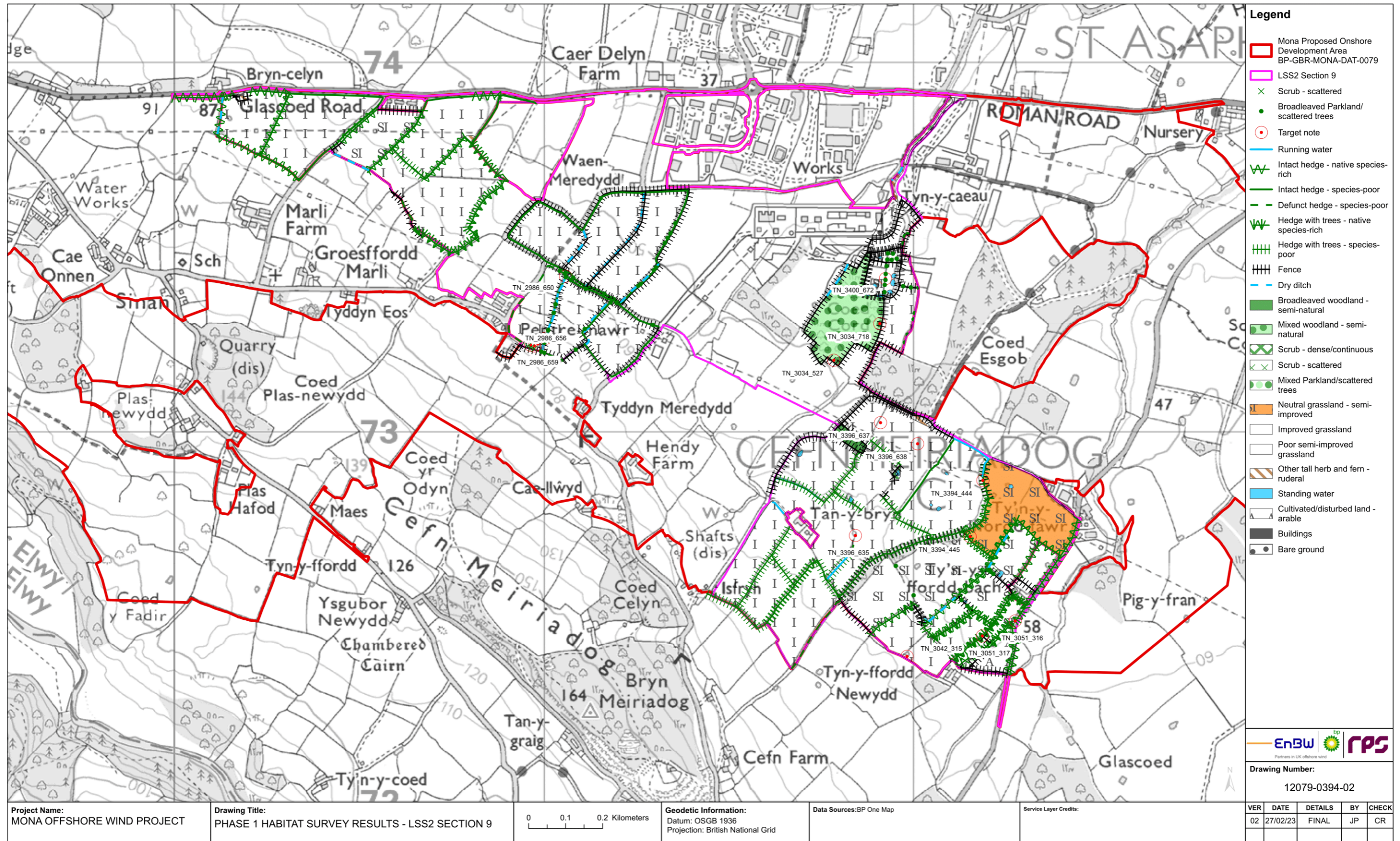


Figure 1.13: Phase 1 Habitat Survey results for LSS2 - Section 9.



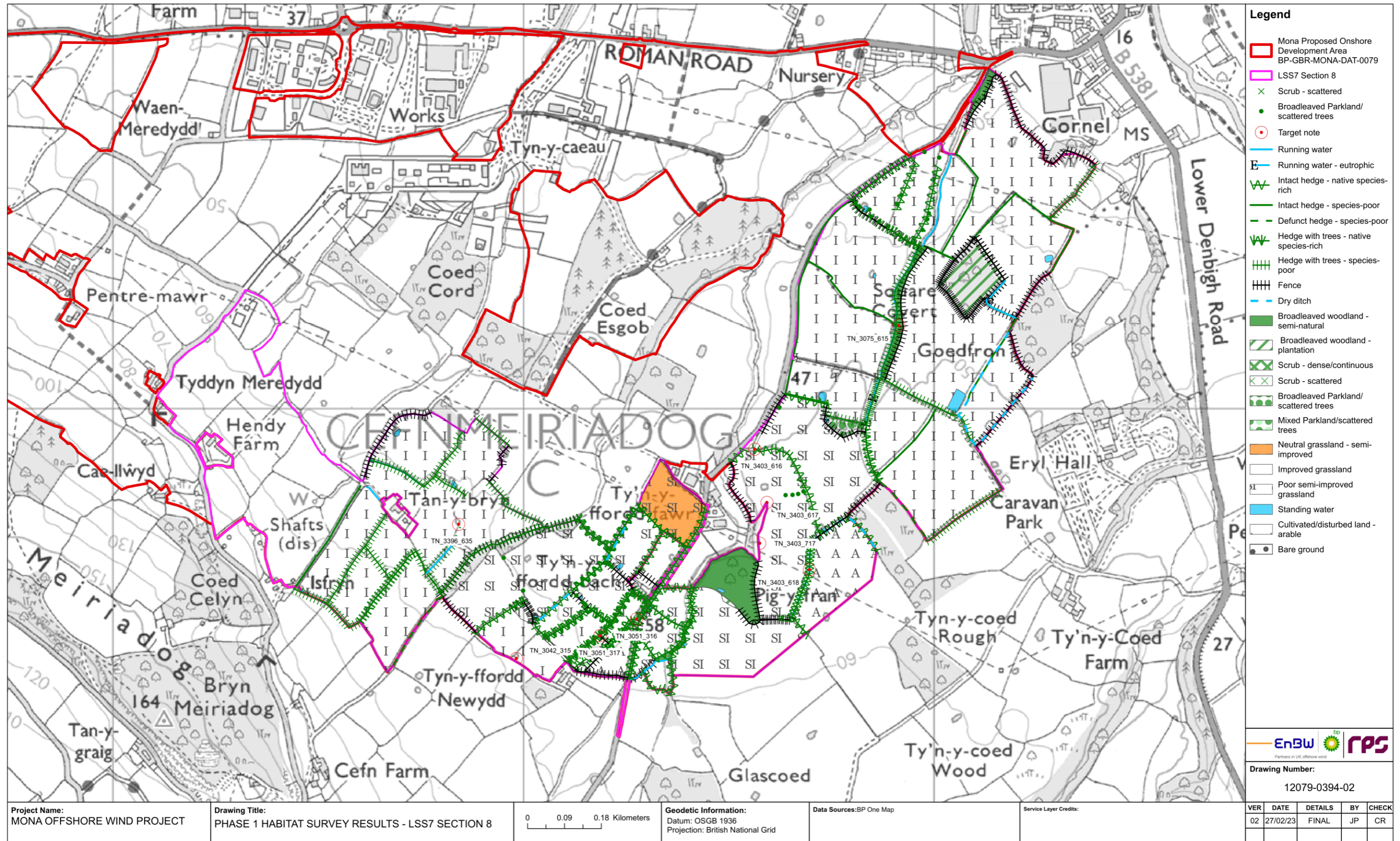


Figure 1.14: Phase 1 Habitat Survey results for LSS7 - Section 8.



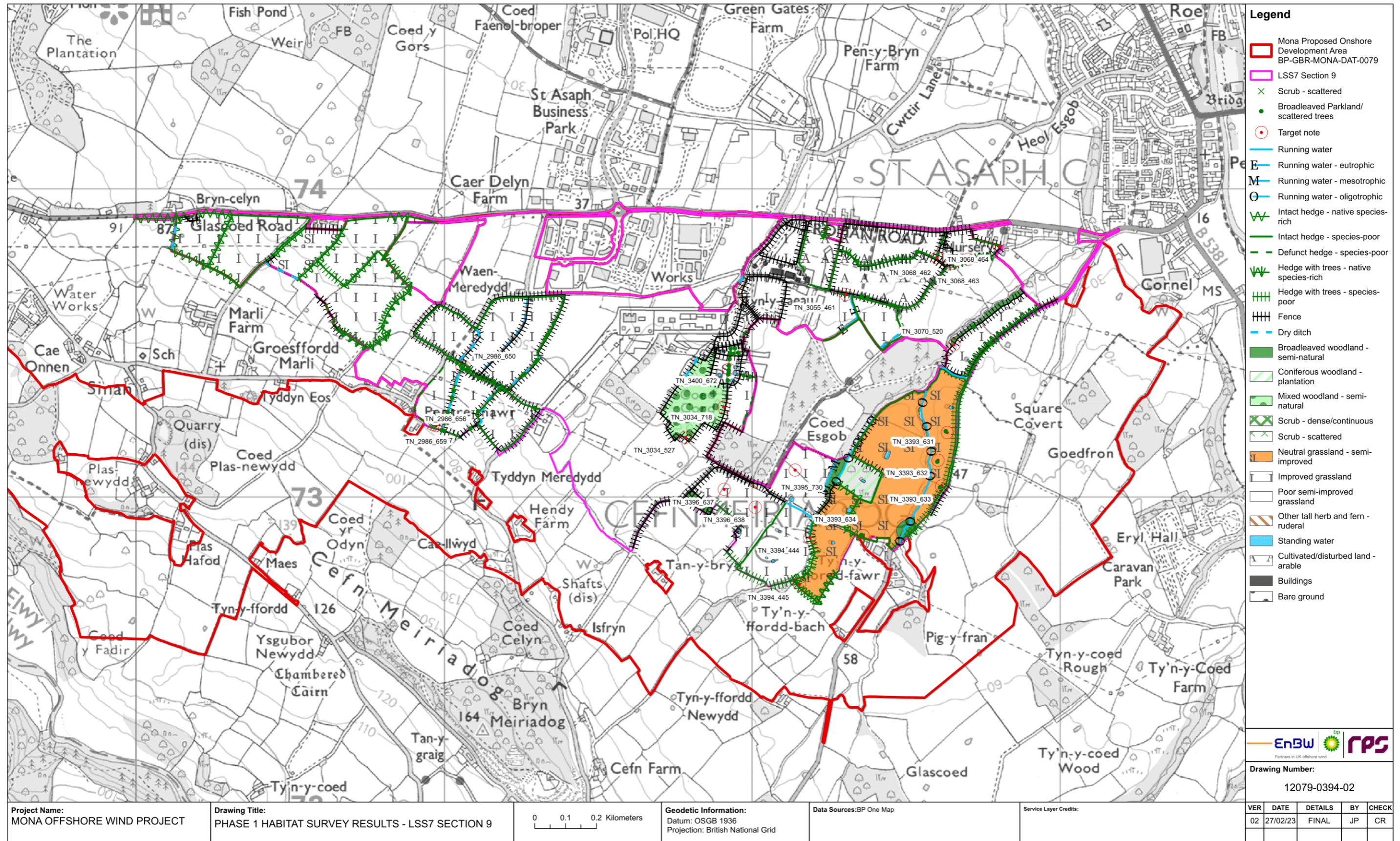


Figure 1.15: Phase 1 Habitat Survey results for LSS7 - Section 9.



## 1.6 Summary

1.6.1.1 Phase 1 Habitat Surveys were undertaken between April 2022 and January 2023 to map broad habitat types present and identify potential for protected or notable species within the phase 1 habitat survey area. All broad habitat types recorded within the phase 1 habitat survey area were mapped using the JNCC Phase 1 Habitat Classification scheme, including phase 1 habitat types (JNCC, 2010).

1.6.1.2 The phase 1 habitat survey area predominantly comprised improved grassland, with comparatively smaller areas of other broad habitat types, including habitats of importance, such as semi-natural broadleaved woodland, species-rich hedgerows, and waterbodies. In addition, broad habitat types identified within the phase 1 habitat survey area have the potential to support a range of protected or notable species, including badger, bats, fish and eel, GCN, hazel dormice, invertebrates, otter, reptile, Schedule 1 bird species, water vole, and white clawed crayfish.

1.6.1.3 This technical report has been used to inform volume 3, chapter 18: Onshore ecology of the PEIR.

### 1.6.2 Further surveys

1.6.2.1 Further Phase 1 Habitat Surveys will be undertaken for land parcels surveyed during sub-optimal conditions. Detailed habitat condition assessment and botanical surveys (e.g. NVC) will also be undertaken in 2023 for land parcels not subject to Phase 1 Habitat Surveys (where appropriate). The findings of these detailed habitat condition assessment and botanical surveys will be reported in the Environmental Statement.

1.6.2.2 In addition, a full assessment of the Phase 1 Habitat Surveys results will be undertaken to determine which buildings located within the phase 1 habitat survey area will require further surveys, prior to the commencement of phase 2 surveys in 2023.

1.6.2.3 Based on the findings of this technical report, further phase 2 surveys will be required following publication of the PEIR. The scope and methodology of phase 2 surveys will be discussed with relevant stakeholders as part of the Onshore Ecology EWG meetings. Further phase 2 surveys are likely to include the following surveys:

- Hedgerow assessments and NVC
- GCN
- Schedule 1 bird surveys, including barn owl
- Reptile
- Hazel dormouse
- Badger
- Otter and water vole
- Bat tree assessments, including subsequent aerial tree inspections and/or dusk emergence surveys
- Bat building assessments, including subsequent dusk emergence surveys and/or dawn re-entry survey

- Bat activity and hibernation
- Fish and eel
- Terrestrial invertebrate
- River and ditch surveys
- White clawed crayfish
- INNS.

1.6.2.4 The findings of phase 2 surveys will be used to inform volume 3, chapter 18: Onshore ecology of the Environmental Statement where appropriate.

## 1.7 References

JNCC (2010) Handbook for Phase 1 Habitat survey - a technique for environmental audit. Available at: <https://jncc.gov.uk/>. Accessed: January 2023.

## Appendix A: Target notes

**Table A 1: Target notes taken during Phase 1 Habitat Surveys.**

Target note ID	Parcel number	Target note description	Sections
TN_554_72	554	TN3. Small area of disturbed strandline vegetation [H5] at top of beach – possibly outside of land parcel. Not assessed in detail but includes sea fern-grass <i>Catapodium marinum</i> , sea-kale and sea radish.	Section 1A
TN_554_73	554	TN2a. There is a single stand (approximately 3 x 5 m) of Japanese knotweed <i>Fallopia japonica</i> (INNS) in this vegetation at grid reference: SH9209478242 +/- 3 m; assumed to be outside land parcel.	Section 1A
TN_554_74	554	TN2. Approximate extent of large sea defence boulders at top of beach. As otters could pass along the beach these rocks provide potential resting places, however this area appears generally very disturbed by people/dogs. Narrow zone of grassland.	Section 1A
TN_554_75	554	TN2. Approximate extent of large sea defence boulders at top of beach. As otters could pass along the beach these rocks provide potential resting places, however this area appears generally very disturbed by people/dogs. Narrow zone of grassland.	Section 1A
TN_554_76	554	TN1. The shoreward boundary of the land parcel is unclear on the ground. Mean high water taken to be crest of largest shingle ridge. Sometimes this is vegetated with a scattered/broken line of strandline vegetation [H5]/the very edge of the adjacent vegetated area.	Section 1A
TN_554_77	554	TN1. The shoreward boundary of the land parcel is unclear on the ground. Mean high water taken to be crest of largest shingle ridge. Sometimes this is vegetated with a scattered/broken line of strandline vegetation [H5]/the very edge of the adjacent vegetated area.	Section 1A
TN_559_233	559	Sycamore tree to the east.	Section 2
TN_2818_253	2818	Small pond.	Section 2
TN_2868_290	2868	TN1. A roadside hedge, fenced on field side. Species-rich woody component including blackthorn, hawthorn, dog-rose, holly, hazel and gooseberry. Line of semi-mature trees associated with the hedge, largely <i>Fraxinus excelsior</i> or <i>Acer pseudoplatanus</i> .	Section 3
TN_2868_291	2868	TN2. A roadside hedge – associated with TN1. Species-rich woody component including hawthorn, blackthorn, rowan, holly, beech and dog-rose. Can be 3+m wide where extends down roadside bank.	Section 3
TN_2868_292	2868	TN3. Animal breach under hedge; no evidence of badger.	Section 3
TN_2868_293	2868	TN4. A trackside hedge/fenced on field side. On a slight bank significantly cut occasionally to near ground level. Species-rich woody component including ash, dog-rose, sycamore, rowan, hawthorn and blackthorn. Several 'woodland species' present in ground.	Section 3
TN_2868_294	2868	TN5. Localised badger foraging at field edge.	Section 3
TN_2868_295	2868	TN7. Scattered Himalayan balsam <i>Impatiens glandulifera</i> (INNS) seedlings along fenced dry ditch and into adjacent hedge at TN4. Example at SH9545073848 +/- 3 m.	Section 3
TN_2868_296	2868	TN9. A fenced off corner of a field with a static caravan (domestic use). Not accessed.	Section 3
TN_2868_297	2868	TN8. Fairly recently planted double fenced hawthorn hedge, with occasional blackthorn and gorse only.	Section 3
TN_2868_298	2868	TN10. A line of young scrub within a double fence line. Gorse, holly, blackthorn.	Section 3
TN_2868_299	2868	TN11. Dry/fenced ditch corridor with locally abundant young common gorse <i>Ulex europaeus</i> on banks.	Section 3
TN_2868_300	2868	TN12. A longish split in a leaning willow branch to approximately 0.25m diameter. Approximately 6m high. Limited bat roost potential.	Section 3
TN_2868_301	2868	TN6. A single cotoneaster species shrub at side of gate. Unconfirmed if INNS species. SH9538573945 +/- 3m.	Section 3
TN_2868_302	2868	TN2a there is a line of semi-mature trees/mature scrub associated with the hedgerow – largely sycamore.	Section 3
TN_2868_303	2868	TN13a. A small clump of <i>Crocsmia</i> sp. near a gateway. Unconfirmed if <i>montbretia Crocsmia x crocosmiiflora</i> (INNS) as not in flower. SH9556774114 +/-3m.	Section 3



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Target note ID	Parcel number	Target note description	Sections
TN_2868_304	2868	TN1a At TN1a there is a line of semi-mature trees associated with the hedge, largely ash <i>Fraxinus excelsior</i> or sycamore <i>Acer pseudoplatanus</i> /holly.	Section 3
TN_2868_305	2868	TN13b. Two large clumps of <i>Crococsmia</i> sp. in a roadside verge. Unconfirmed if <i>montbretia</i> (INNS) as not in flower. One is at SH9558174119 +/-3 m.	Section 3
TN_2868_306	2868	TN14. A rhododendron <i>Rhododendron ponticum</i> (INNS) bush in a roadside verge. SH9561374133 +/-3 m.	Section 3
TN_2868_307	2868	TN15. Animal breach under fence; no evidence of badger.	Section 3
TN_2868_308	2868	TN16. Fairly recently planted double fenced hawthorn hedge, with frequent hazel only. Plastic guards present.	Section 3
TN_2870_312	2870	TN1 Stone walls from old building.	Section 3
TN_2895_763	2895	Piled rubble from dry wall, brick, and slate. Minor potential for reptiles and hibernating amphibians.	Section 4
TN_2895_764	2895	Pitiful pond 5 square metres. Rocky banks 5cm depth.	Section 4
TN_2934_484	2934	TN1 Hawthorn hedge with ivy, brambles, nettles, hazel. 2m in height.	Section 6
TN_2934_485	2934	TN2 Dead tree 12m tall with ivy, loose bark, cracked branches.	Section 6
TN_2934_486	2934	TN3 Improved grassland .	Section 6
TN_2934_487	2934	TN4 Mature oak, with ivy, trunk cavity, 2m diameter.	Section 6
TN_2934_488	2934	TN5 Hedge with trees - holly, oak.	Section 6
TN_2934_489	2934	TN6 Ash with cavity.	Section 6
TN_2934_490	2934	TN7 Sycamore, 2m, trunk cavity.	Section 6
TN_2934_491	2934	TN8 Line of trees 4-12m high, hawthorn, willow, ash, sycamore. Wire fence.	Section 6
TN_2934_492	2934	TN9 Dense scrub in hollow, gorse, brambles, holly, dogrose, willow, hawthorn.	Section 6
TN_2934_494	2934	TN10 Possible sett, claw-marked hole, mammal trail, latrine.	Section 6
TN_2934_495	2934	TN11 Badger paw prints in snow and snuffle holes, rabbit holes.	Section 6
TN_2934_496	2934	TN12 Mature oak next to pylon with two low down cavities, hibernation potential.	Section 6
TN_2972_528	2972	TN1 Small area of <i>Leylandii</i> cypress hedge.	Section 7
TN_2986_664	2986	TN4 Mature oak, low bat roost potential, rotting branch, low trunk cavity.	Section 7
TN_2986_668	2986	TN3 Mature oak, moderate bat roost potential. Flaking bark, dead branches, trunk cavity.	Section 7
TN_2986_669	2986	TN2 Holes with faeces, badger latrine, mammal trails.	Section 7
TN_2986_670	2986	TN1 Mature oak, moderate bat roost potential, low trunk cavity.	Section 7
TN_2986_650	2986	TN10 Pond will spill into field in heavy rain.	Section 9 - LSS2 and LSS7
TN_2986_656	2986	TN9 Dead oak, loose bark, cavities, high bat roost potential.	Section 9 - LSS2 and LSS7
TN_2986_657	2986	TN6 Mature ash w. trunk hole. Moderate bat roost potential.	Section 9 - LSS2 and LSS7
TN_2986_658	2986	TN7 Mature ash, low bat roost potential, flaking bark.	Section 9 - LSS2 and LSS7
TN_2986_659	2986	TN8 Mature ash, large hole, moderate bat roost potential.	Section 9 - LSS2 and LSS7
TN_3034_527	3034	TN1 Dead sparrowhawk.	Section 9 - LSS2 and LSS7
TN_3034_718	3034	BT3 Dead, old woodpecker holes, cavities, high bat roost potential.	Section 9 - LSS2 and LSS7



Target note ID	Parcel number	Target note description	Sections
TN_3042_315	3042	TN1 Not a pond, potentially wet in winter.	Section 8 - LSS7 and Section 9 - LSS2
TN_3051_316	3051	TN1 Track/road with hedges either side dividing land parcel into smaller fields.	Section 8 - LSS7 and Section 9 - LSS2
TN_3051_317	3051	TN2 Electric fence dividing field in two, horses in south section and north section left to grow long.	Section 8 - LSS7 and Section 9 - LSS2
TN_3055_461	3055	TN1 Oak in boundary hedge with branch at 12m height. Breeding birds in hedgerow. Callus wound. etc.	Section 9 - LSS7
TN_3068_462	3068	TN1 Shed and brash pile.	Section 9 - LSS7
TN_3068_463	3068	TN2 Bee hives.	Section 9 - LSS7
TN_3068_464	3068	TN3 Mammal path.	Section 9 - LSS7
TN_3068_465	3068	TN4 Compost.	Section 9 - LSS7
TN_3070_520	3070	TN2 Habitat pit.	Section 9 - LSS7
TN_3075_615	3075	TN1 Badger sett (8 holes).	Section 8 - LSS7
TN_3098_318	3098	Appears to be a sheep feeding pen.	Section 2
TN_3108_234	3108	Ditch with low flow.	Section 3
TN_3115_562	3115	TN8 Open top trunk/stem and trunk cavity. Mature sycamore.	Section 6
TN_3387_593	3387	TN3 Logpile.	Section 7
TN_3387_594	3387	TN1 Badger sett.	Section 7
TN_3393_631	3393	TN1 Boundary oak with multiple limb wounds - bat roost potential.	Section 9 - LSS7
TN_3393_632	3393	TN2 Boundary oak with multiple potential bat roost features.	Section 9 - LSS7
TN_3393_633	3393	TN3 Boundary oak with callus wound – moderate bat roost potential.	Section 9 - LSS7
TN_3393_634	3393	TN4 Oak with trunk - moderate bat roost potential. Nesting bird potential in hedge and trees.	Section 9 - LSS7
TN_3394_444	3394	TN1: Trees/scrubs by stream – potentially outside boundary.	Section 8 - LSS7 and Section 9 - LSS2 and LSS7
TN_3394_445	3394	TN2: Mammal hole at base of hawthorn - probably rabbit due to size but potential badger.	Section 8 - LSS7 and Section 9 - LSS2 and LSS7
TN_3395_730	3395	TN3 Tree with bat roost potential.	Section 9 - LSS7
TN_3396_635	3396	TN2 Filled in pond.	Section 8 - LSS2 and LSS7 and Section 9 - LSS2 and LSS7
TN_3396_637	3396	TN3 Hedge removed.	Section 8 - LSS2 and LSS7 and Section 9 - LSS2 and LSS7
TN_3396_638	3396	TN4 Mature oak with high bat roost potential.	Section 8 - LSS2 and LSS7 and Section 9 - LSS2 and LSS7
TN_3400_672	3400	TN2 Mammal path - fox seen.	Section 9 - LSS2 and LSS7
TN_3403_616	3403	TN1 Log pile.	Section 8 - LSS7
TN_3403_617	3403	TN1 Log pile.	Section 8 - LSS7
TN_3403_618	3403	TN2 Mammal path.	Section 8 - LSS7



## Appendix B: Requirement for further surveys per land parcel

**Table A 2: Species/species groups scoped in or out for further surveys per land parcel.**

Land Parcel	Section(s)	1. Hedgerow	2. NVC	3. Ditch	4. Pond	5. River	6. Birds - Schedule 1	7. Amphibian/GCN	8. Reptiles	9. Hazel Dormouse	10. Badger	11. Otter	12. Water vole	13. Bats - Bat Tree	14. Bats - Bat Building	15. Bats - Bat Activity	16. Bats - Bat Hibernation	17. Fish and eel	18. Terrestrial Invertebrates	19. Aquatic Invertebrates	20. White Clawed Crayfish	21. INNS
67	1A	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	In	In	Out	Out
554	1A	Out	In	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In
558	2	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
559	2	In	In	Out	Out	Out	Out	Out	In	Out	In	Out	Out	In	Out	Out	Out	Out	In	Out	Out	Out
560	1A	Out	Out	Out	Out	Out	In	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
562	1A	Out	In	Out	Out	Out	Out	Out	In	Out	In	Out	Out	In	In	Out	Out	Out	Out	Out	Out	Out
563	2	In	Out	In	In	In	In	In	Out	In	In	In	In	In	Out	Out	Out	In	Out	In	In	Out
565	2	In	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	In	Out	Out	In	Out	In	Out	Out	Out
569	2	In	Out	Out	Out	Out	In	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
570	2	Out	Out	Out	In	Out	In	In	In	Out	Out	Out	Out	In	In	In	Out	Out	Out	Out	Out	Out
571	1A	Out	Out	Out	Out	Out	In	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
578	2	Out	Out	Out	In	Out	In	In	Out	Out	In	Out	Out	In	In	Out	In	Out	Out	Out	Out	Out
581	2	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
582	2	In	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
587	2	Out	Out	Out	In	Out	Out	In	Out	In	In	In	In	In	In	In	Out	Out	Out	Out	In	Out
2391	2	In	In	Out	Out	Out	In	Out	In	In	In	Out	Out	In	In	In	Out	Out	In	Out	Out	Out
2396	2	Out	Out	Out	Out	Out	In	Out	In	In	In	Out	Out	In	In	Out	Out	Out	Out	Out	Out	Out
2406	2	In	Out	Out	Out	Out	In	Out	In	In	In	Out	Out	In	In	In	In	Out	Out	Out	Out	Out
2411	2	In	In	Out	Out	Out	Out	Out	In	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2816	2	Out	Out	Out	In	Out	Out	In	Out	In	In	In	In	In	In	In	Out	Out	Out	Out	In	In
2818	2	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
2837	3	Out	Out	Out	Out	Out	In	In	In	Out	In	Out	Out	In	In	Out	In	Out	In	Out	Out	Out
2841	3	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out

Land Parcel	Section(s)	1. Hedgerow	2. NVC	3. Ditch	4. Pond	5. River	6. Birds - Schedule 1	7. Amphibian/GCN	8. Reptiles	9. Hazel Dormouse	10. Badger	11. Otter	12. Water vole	13. Bats - Bat Tree	14. Bats - Bat Building	15. Bats - Bat Activity	16. Bats - Bat Hibernation	17. Fish and eel	18. Terrestrial Invertebrates	19. Aquatic Invertebrates	20. White Clawed Crayfish	21. INNS
2842	3	In	Out	Out	Out	Out	In	Out	Out	Out	In	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out
2843	3	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	In	In	Out	Out	Out	Out	Out	Out	Out
2845	3	In	Out	Out	Out	Out	In	Out	Out	Out	In	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out
2846	3	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	In	Out	In	Out	Out	Out	Out	Out
2848	3	In	Out	Out	In	Out	Out	In	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2851	3	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out
2861	3	In	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2864	3	Out	In	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	In	In	Out	In	Out	Out	Out
2868	3	In	In	Out	Out	Out	Out	Out	In	In	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	In
2870	3	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2871	3	In	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2872	3	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
2873	3	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2875	3	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out
2878	3	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	In	Out	Out	Out	Out	Out	Out	Out
2882	3	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	In
2887	3	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2889	4	In	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2890	4	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	In	In	Out	In	Out	Out	Out	Out	Out
2895	4	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
2897	4	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2899	4	In	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2900	4	Out	Out	Out	Out	Out	In	Out	Out	In	In	Out	Out	In	In	Out	In	Out	Out	Out	Out	Out
2902	4	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2904	4	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2906	4	In	In	Out	Out	Out	Out	Out	In	Out	In	Out	Out	In	In	Out	In	Out	In	Out	Out	In



Land Parcel	Section(s)	1. Hedgerow	2. NVC	3. Ditch	4. Pond	5. River	6. Birds - Schedule 1	7. Amphibian/GCN	8. Reptiles	9. Hazel Dormouse	10. Badger	11. Otter	12. Water vole	13. Bats - Bat Tree	14. Bats - Bat Building	15. Bats - Bat Activity	16. Bats - Bat Hibernation	17. Fish and eel	18. Terrestrial Invertebrates	19. Aquatic Invertebrates	20. White Clawed Crayfish	21. INNS
2914		Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	In
2918	5	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2926	6	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2928	6	In	Out	Out	Out	Out	Out	Out	In	In	In	Out	Out	In	In	In	In	Out	Out	Out	Out	Out
2934	6	In	Out	Out	In	Out	Out	Out	Out	Out	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
2938	6	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2943	7	Out	Out	Out	Out	Out	Out	Out	Out	In	In	Out	Out	In	Out	In	In	Out	Out	Out	Out	Out
2954(n)	7	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
2954(s)	7	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
2955	7	In	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2959	7	In	Out	In	In	Out	Out	In	In	In	In	Out	Out	In	In	In	Out	Out	Out	Out	Out	Out
2965	9 - LSS2 and LSS7	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
2972	7	In	Out	Out	In	Out	Out	In	In	In	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
2973	9 - LSS2 and LSS7	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
2974	7	In	Out	Out	Out	Out	Out	In	In	In	In	Out	Out	In	In	In	Out	Out	Out	Out	Out	Out
2975	7	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2976	9 - LSS2 and LSS7	In	Out	Out	Out	Out	Out	Out	In	In	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
2978	7	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	In	Out	Out	Out	Out	Out	Out	Out
2981	9 - LSS2 and LSS7	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2983	9 - LSS2 and LSS7	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
2986	9 - LSS2 and LSS7	Out	Out	Out	In	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out
2997	9 - LSS2 and LSS7	Out	Out	Out	Out	Out	In	Out	Out	In	In	Out	Out	In	In	Out	In	Out	Out	Out	Out	Out
2999	9 - LSS2 and LSS7	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
3027	9 - LSS2 and LSS7	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	In	Out	Out	In	Out	Out	Out
3034	9 - LSS2 and LSS7	Out	In	In	In	Out	In	In	In	In	In	Out	In	In	Out	In	Out	Out	In	In	In	Out
3035	8 and 9 - LSS2 and LSS7	Out	Out	Out	In	Out	In	In	Out	In	In	Out	Out	In	In	In	Out	Out	In	In	Out	Out

Land Parcel	Section(s)	1. Hedgerow	2. NVC	3. Ditch	4. Pond	5. River	6. Birds - Schedule 1	7. Amphibian/GCN	8. Reptiles	9. Hazel Dormouse	10. Badger	11. Otter	12. Water vole	13. Bats - Bat Tree	14. Bats - Bat Building	15. Bats - Bat Activity	16. Bats - Bat Hibernation	17. Fish and eel	18. Terrestrial Invertebrates	19. Aquatic Invertebrates	20. White Clawed Crayfish	21. INNS
3040	9 - LSS2 and LSS7	Out	Out	In	In	Out	In	In	In	Out	In	Out	In	In	Out	In	Out	In	Out	Out	In	Out
3041	8 - LSS7 and 9 - LSS2	In	Out	Out	In	Out	Out	In	In	In	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
3042	8 - LSS7 and 9 - LSS2	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3048	9 - LSS2 and LSS7	Out	Out	In	In	Out	In	In	Out	In	In	Out	Out	In	Out	In	Out	Out	In	Out	Out	Out
3051	8 - LSS7 and 9 - LSS2	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3053	8 - LSS7 and 9 - LSS2	In	Out	Out	In	Out	Out	In	In	In	In	Out	Out	In	In	In	Out	Out	Out	Out	Out	Out
3054	9 - LSS2 and LSS7	In	Out	In	Out	Out	In	In	Out	Out	In	Out	Out	In	In	In	Out	Out	In	Out	Out	Out
3055	9 - LSS7	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
3056	9 - LSS7	In	Out	In	In	Out	In	In	Out	Out	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
3057	9 - LSS7	Out	Out	Out	In	In	In	In	Out	In	In	Out	Out	In	Out	In	Out	Out	In	In	Out	In
3058	9 - LSS7	Out	Out	Out	In	Out	Out	In	Out	Out	In	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	In
3059	8 - LSS7	In	Out	In	In	Out	Out	In	In	In	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
3067	8 - LSS7	In	In	Out	In	In	Out	In	In	In	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
3068	9 - LSS7	Out	Out	Out	In	Out	In	In	In	Out	In	Out	Out	Out	In	In	Out	Out	Out	Out	Out	Out
3070	9 - LSS7	Out	In	Out	In	In	In	In	In	In	In	In	Out	In	Out	In	Out	In	In	In	In	Out
3075	8 - LSS7	Out	Out	Out	In	Out	Out	In	Out	In	In	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	In
3090	2	In	Out	Out	Out	Out	In	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3091	2	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3098	2	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3102	1A and 1B	Out	Out	Out	Out	Out	In	Out	In	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3103	1A	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3108	3	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3114	6	In	Out	Out	In	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3115	6	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
3116	6	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
3117	7	Out	Out	Out	Out	Out	In	Out	Out	In	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out



Land Parcel	Section(s)	1. Hedgerow	2. NVC	3. Ditch	4. Pond	5. River	6. Birds - Schedule 1	7. Amphibian/GCN	8. Reptiles	9. Hazel Dormouse	10. Badger	11. Otter	12. Water vole	13. Bats - Bat Tree	14. Bats - Bat Building	15. Bats - Bat Activity	16. Bats - Bat Hibernation	17. Fish and eel	18. Terrestrial Invertebrates	19. Aquatic Invertebrates	20. White Clawed Crayfish	21. INNS
3120	7	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out
3121	7	Out	Out	Out	Out	Out	Out	Out	Out	in	Out	Out	Out	in	Out	Out	Out	Out	Out	Out	Out	Out
3234	4	Out	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	in	Out	Out	Out	Out	Out	Out	Out	Out
3235	5	In	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3238	3 and 4	In	Out	Out	Out	In	In	Out	In	Out	In	Out	Out	In	In	Out	In	Out	Out	Out	Out	Out
3239	3	In	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	Out
3241	4	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out
3385	9 - LSS2 and LSS7	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	In	In	Out	In	Out	Out	Out	Out	Out
3386	7	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out
3387	7	Out	Out	Out	Out	Out	In	Out	Out	In	In	Out	Out	In	In	In	Out	Out	Out	Out	Out	Out
3391	8 - LSS7 and 9 - LSS2	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	In
3393	9 - LSS7	Out	Out	Out	In	In	Out	In	Out	Out	In	In	In	In	Out	In	Out	Out	Out	Out	Out	Out
3394	8 - LSS7, and 9 - LSS2 and LSS7	In	Out	Out	In	Out	In	In	In	In	In	Out	Out	In	In	In	Out	Out	Out	Out	Out	Out
3395	9 - LSS7	In	In	Out	In	In	In	In	Out	In	In	Out	Out	In	Out	In	Out	Out	Out	Out	Out	In
3396	8 - LSS2 and LSS7, and 9 - LSS2 and LSS7	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	In
3398	8 - LSS2 and LSS7	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	In	Out	Out	In	Out	Out	Out
3400	9 - LSS2 and LSS7	Out	In	In	In	Out	In	In	In	Out	In	Out	In	In	Out	In	Out	Out	In	In	In	Out
3403	8 - LSS7	In	Out	Out	In	In	In	In	In	In	In	Out	Out	In	In	In	Out	Out	Out	Out	Out	Out
3406	8 - LSS7	Out	Out	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	In
3407	8 - LSS7	In	Out	Out	In	In	Out	In	In	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	Out
3408	8 - LSS7	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	In	Out	In	Out	Out	Out	Out	Out	In
3414	8 - LSS7	Out	Out	Out	In	Out	Out	In	Out	Out	Out	Out	Out	Out	Out	In	Out	Out	Out	Out	Out	In