



## Awel y Môr Offshore Wind Farm

# Agricultural Land Classification Report at the Onshore Substation Site

Deadline 7

Date: 08 March 2023

**Revision:** A

Document Reference: 7.20 Application Reference: N/A





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| REVISION | DATE          | STATUS/<br>REASON<br>FOR ISSUE | AUTHOR                         | CHECKED<br>BY | APPROVED<br>BY |
|----------|---------------|--------------------------------|--------------------------------|---------------|----------------|
| A        | March<br>2023 | Deadline 7                     | Land<br>Research<br>Associates | SLR           | RWE            |
|          |               |                                |                                |               |                |
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SOILS AND AGRICULTURAL QUALITY OF LAND AT FAENOL-BROPOR FARM ST ASAPH

Report 2094/1

13<sup>th</sup> January, 2023



## SOILS AND AGRICULTURAL QUALITY

## OF LAND AT FAENOL-BROPOR FARM, ST ASAPH

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13<sup>th</sup> January, 2023

## SUMMARY

An agricultural land quality survey has been undertaken of 33.3 ha of land at Faenol-Bropor Farm, St Asaph in December 2022.

The soils of the site are fine loams over slowly permeable clay. Agricultural land quality is mainly limited to subgrade 3b by wetness/workability constraints, with a small area of subgrade 3a.

## 1.0 Introduction

1.1 This report provides information on the agricultural quality of 33.3 ha of land at Faenol-Bropor Farm, St Asaph, Denbighshire. The report is based on a survey of the land in December 2022.

## SITE ENVIRONMENT

- 1.2 The survey area comprises eight fields and parts of two further fields in the north. The land is bordered to the south by Glascoed Road, to the north-west by woodland and on other sides by adjoining agricultural land.
- 1.3 The land slopes very gently from south to north, with an average elevation of approximately 35 m AOD.
- 1.4 At the time of survey the land was under grass in use as sheep grazing.

## PUBLISHED INFORMATION

- 1.5 British Geological Survey 1:50,000 scale information records the underlying geology of the land as Devensian glacial till over Carboniferous mudstone, siltstone and sandstone (interbedded) of the Warwickshire Group.
- 1.6 The National Soil Map (published at 1:250,000 scale) records the land as Salop Association: mainly slowly permeable fine loams over clay and fine loams formed in reddish drift<sup>1</sup>.
- 1.7 The Welsh Government Predictive Agricultural Land Classification Map shows the land as subgrade 3a agricultural quality in northern and central areas, and subgrade 3b in the south.

<sup>1</sup> Rudeforth, C. C., *et al.*, 1984. *Soils and their use in Wales*. Soil survey of England and Wales, Bulletin No. 11, Harpenden.

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- 2.1 A soils and agricultural quality survey was carried out in December 2022 in accordance with MAFF (1988) Agricultural Land Classification guidelines<sup>2</sup>. It was based on observations at intersects of a 100 m grid, giving a density of one observation per hectare. During the survey, soils were examined by hand augerings and pits to a maximum depth of approximately 1.2 m. A log of the sampling points and a map (Map 1) showing their location is in an appendix to this report.
- 2.2 The soils of the site were found to be relatively uniform, comprising fine loamy topsoil over slowly permeable (poorly structured) reddish clay or heavy clay loam. The subsoils show evidence of seasonal waterlogging (pale and greyish subsoil colours with ochreous mottles) to shallow depth. The soils typically have a thin permeable fine loamy upper subsoil above the slowly permeable layer, with the latter typically occurs between 40 and 50 cm below the land surface.
- 2.3 Minor variation in topsoil texture and drainage occurs across the site: the topsoils vary between medium or sandy clay loam and heavy clay loam. The land is mainly judged to be poorly-draining under the local climate (Soil Wetness Class IV) but in places a greater depth of permeable upper subsoil means the soils have slightly better drainage properties (Soil Wetness Class III).
- 2.4 Representative soil profiles are described from pits at observation points 8, 19 and 25 (see Map 1) in an appendix to this report.

<sup>2</sup>MAFF, (1988).*Agricultural Land Classification for England and Wales: Guidelines and Criteria for Grading the Quality of Agricultural Land.* 

## 3.0 Agricultural land quality

- 3.1 To assist in assessing land quality, the Ministry of Agriculture, Fisheries and Food (MAFF) developed a method for classifying agricultural land by grade according to the extent to which physical or chemical characteristics impose long-term limitations on agricultural use for food production. The MAFF ALC system classifies land into five grades numbered 1 to 5, with grade 3 divided into two subgrades (3a and 3b). The system was devised and introduced in the 1960s and revised in 1988.
- 3.2 The agricultural climate is an important factor in assessing the agricultural quality of land and has been calculated using the Climatological Data for Agricultural Land Classification<sup>3</sup>. The relevant site data for a central point at grid reference SJ 0101,7431 and an average elevation of 35 m is given below.

| • | Average annual rainfall:   | 730 mm                           |
|---|--|----------------------------------|
| • | January-June accumulated temperature >0°C                              | 1434 day°                        |
| • | Field capacity period<br>(when the soils are fully replete with water) | 174 days<br>late Oct-late Apr    |
| • | Summer moisture deficits for:  | wheat: 102 mm<br>potatoes: 92 mm |

3.3 The survey described in the previous section was used in conjunction with the agroclimatic data above to classify the site using the revised guidelines for ALC issued in 1988 by MAFF<sup>4</sup>. There are no overriding climatic limitations at this locality.

### SURVEY RESULTS

3.4 The agricultural quality of the land is primarily determined by wetness/workability. Other factors have been assessed but do not affect the land grade. Land of grade 3 has been identified.

## Subgrade 3a

3.5 This subgrade comprises an area in the south-east of the site with moderately high topsoil clay content and imperfect drainage (Soil Wetness Class III). This combination means machinery access for cultivations is usually restricted in winter and early spring under the local climate, although late spring (as well as autumn) sowings are usually possible.

<sup>3</sup>Meteorological Office, (1989).*Climatological Data for Agricultural Land Classification*. <sup>4</sup>MAFF, (1988).*Agricultural Land Classification for England and Wales: Guidelines and Criteria for Grading the Quality of Agricultural Land*.

### Subgrade 3b

- 3.6 Most of the land is poorly-draining (Soil Wetness Class IV) with moderately high to high topsoil clay content. Under the local climate this combination means machinery land access for spring sowings is rarely possible and arable cropping potential is mainly limited to autumn sown cereal-based rotations.
- 3.7 Other than the area mapped in the south-east of the site, some patches of land with slightly higher potential (medium topsoil and imperfect drainage: Soil Wetness Class III) were observed across the site. However, these patches could not realistically be mapped or managed separately from the surrounding wetter land and are therefore judged to be limited to subgrade 3b by the average degree of limitation.

## Other land (non-agricultural)

3.8 This comprises a block of woodland in the north and two small ponds.

#### Grade areas

3.9 The land grades are shown on Map 2 and the areas occupied shown below.

| Grade/subgrade | Area (ha) | % of the land |
|----------------|-----------|---------------|
| Subgrade 3a    | 1.5       | 5             |
| Subgrade 3b    | 30.6      | 92            |
| Other land     | 1.2       | 3             |
| Total          | 33.3      | 100           |

#### Table 1: Areas occupied by the different land grades

APPENDIX DETAILS OF OBSERVATIONS MAPS LABORATORY ANALYSIS

| Obs |          | Topsoil   | -          |                | Upper subsoil |          | Lower subsoil                   |                           |            | Slope | pe Wetness Agricul |       | tural quality |
|-----|----------|-----------|------------|----------------|---------------|----------|---------------------------------|---------------------------|------------|-------|--------------------|-------|---------------|
| No  | Depth    | Texture   | Stones     | Depth          | Texture       | Mottling | Depth                           | Texture                   | Mottling   | (°)   | Class              | Grade | Main          |
|     | (cm)     |           | >20 mm (%) | (cm)           |               |          | (cm)                            |                           |            |       |                    |       | limitation    |
| 1   | 0-32     | MCL/HCL   | 0          | <u>32</u> -90+ | C(r)          | XXX      |                                 |                           |            | 1     | IV                 | 3b    | W             |
| 2   | 0-25     | SCL       | 0          | 25-43          | SCL           | XXX      | <u>43</u> -90+                  | HCL/ C(r)                 | XXX        | 0     | IV                 | 3b    | W             |
| 3   | 0-50+    | MCL(dist) | 0          |                |               |          |                                 |                           |            | 1     | -                  | -     | -             |
| 4   | Woodland |           |            |                |               |          |                                 |                           |            |       |                    |       |               |
| 5   | 0-28     | MCL       | 0          | 28-46          | MCL/HCL       | XXX      | <u>46</u> -64<br><u>64</u> -90+ | HCL<br>C(r)               | XXX<br>XXX | 0     | IV/III             | 3b/3a | W             |
| 6   | 0-40     | MCL       | 0          | 40-70+         | SCL(dist?)    | XXX      |                                 |                           |            | 1     | Ш                  | 2?    | W?            |
| 7   | 0-31     | MCL/HCL   | 0          | 31-47          | MCL           | XXX      | <u>47</u> -90+                  | C(r)                      | XXX        | 1     | III/IV             | 3a/3b | W             |
| 8   | 0-29     | MCL/HCL   | 0          | 25-34          | HCL           | XXX      | <u>34</u> -120                  | C(r)                      | XXX        | 0     | IV                 | 3b    | W             |
| 9   | 0-31     | MCL/HCL   | 0          | 31-42          | HCL           | xxx      | <u>42</u> -71<br><u>71+</u>     | C(r)<br>Stopped on stones | XXX        | 2     | IV                 | 3b    | W             |
| 10  | 0-27     | MCL       | 0          | 27-34          | MCL           | XXX      | <u>34</u> -90+                  | C(r)                      | XXX        | 2     | IV                 | 3b    | W             |
| 11  | 0-35     | HCL       | 0          | 35-45          | С             | xxx      | <u>45-</u> 72<br>72+            | C<br>Stopped on stones    | XXX<br>XXX | 1     | IV                 | 3b    | W             |
| 12  | 0-31     | MCL/HCL   | 0          | 31-42          | HCL           | XXX      | <u>42</u> -90+                  | HCL/ C(r)                 | XXX        | 0     | IV                 | 3b    | W             |
| 13  | 0-30     | SCL       | 0          | <u>30</u> -90+ | HCL(r)        | XXX      |                                 |                           |            | 0     | IV                 | 3b    | W             |
| 14  | 0-27     | MCL       | 0          | 26-43          | HCL           | XXX      | <u>43</u> -90+                  | C(r)                      | XXX        | 1     | IV                 | 3b    | W             |
| 15  | 0-27     | HCL       | 0          | <u>27</u> -54  | C(r)          | XXX      | 54+                             | Stopped on stones         |            | 2     | IV                 | 3b    | W             |
| 16  | 0-26     | HCL       | 0          | 26-37          | HCL           | XXX      | <u>37</u> -90+                  | C(r)                      | XXX        | 0     | IV                 | 3b    | W             |
| 17  | 0-27     | HCL       | 0          | 29-41          | HCL           | XXX      | <u>41</u> -90+                  | C(r)                      | XXX        | 0     | IV                 | 3b    | W             |
| 18  | 0-26     | MCL       | 0          | 28-38          | MCL           | xxx      | <u>38</u> -64<br><u>64</u> -90+ | C<br>C(r)                 | XXX<br>XXX | 1     | IV                 | 3b    | W             |
| 19  | 0-31     | HCL       | 0          | 31-40          | HCL           | XXX      | <u>40</u> -90+                  | C(r)                      | XXX        | 2     | IV                 | 3b    | W             |
| 20  | 0-30     | MCL       | 0          | 30-40          | MCL           | XXX      | <u>40</u> -90+                  | C(r)                      | XXX        | 2     | IV                 | 3b    | W             |
| 21  | 0-32     | MCL       | 0          | 32-59          | MCL(r)        | XXX      | <u>59</u> -90+                  | C(r)                      | XXX        | 1     |                    | 3a    | W             |
| 22  | 0-30     | SCL       | 0          | 30-41          | SCL           | XXX      | <u>41</u> -90+                  | C(r)                      | XXX        | 1     | IV                 | 3b    | W             |
| 23  | 0-33     | MCL       | 0          | 33-53          | MCL           | XXX      | <u>53</u> -90+                  | HCL                       | XXX        | 1     |                    | 3a    | W             |
| 24  | 0-26     | HCL       | 0          | <u>26</u> -55  | C(r)          | XXX      | 55+                             |                           |            | 2     | IV                 | 3b    | W             |
| 25  | 0-27     | HCL       | 0          | 27-51          | HCL           | XXX      | <u>51</u> -90+                  | C(r)                      | XXX        | 1     | III                | 3b    | W             |
| 26  | 0-32     | MCL       | 0          | 32-48          | HCL           | XXX      | <u>48</u> -60<br><u>60</u> -90+ | HCL<br>C(r)               | xxx<br>xxx | 2     | III/IV             | 3a/3b | W             |
| 27  | 0-30     | MCL       | 0          | 30-42          | HCL           | XXX      | <u>42</u> -90+                  | HCL(r)                    | XXX        | 3     | IV                 | 3b    | W             |
| 28  | 0-27     | SCL       | 0          | 27-40          | SCL           | XXX      | <u>40</u> -90+                  | HCL(r)                    | XXX        | 3     | IV                 | 3b    | W             |
| 29  | 0-31     | HCL       | 0          | 31-40          | HCL(r)        | XXX      | <u>40</u> -90+                  | C(r)                      | XXX        | 3     | IV                 | 3b    | W             |

## Land at Faenol-Bropor Farm: Soils and ALC survey – Details of observations at each sampling point

| Obs |       | Topsoil |            | Upper subsoil  |         |          | Lower subsoil  |         |          | Slope | Wetness | Agricu | tural quality |
|-----|-------|---------|------------|----------------|---------|----------|----------------|---------|----------|-------|---------|--------|---------------|
| No  | Depth | Texture | Stones     | Depth          | Texture | Mottling | Depth          | Texture | Mottling | (°)   | Class   | Grade  | Main          |
|     | (cm)  |         | >20 mm (%) | (cm)           |         |          | (cm)           |         |          |       |         |        | limitation    |
| 30  | 0-28  | HCL     | 0          | <u>28</u> -90+ | C(r)    | XXX      |                |         |          | 2     | IV      | 3b     | W             |
| 31  | 0-26  | MCL     | 0          | 26-55          | MCL     | XXX      | <u>56</u> -80+ | HCL/SCL | XXX      | 1     |         | 3a     | W             |

#### Soil log key

#### Gley indicators<sup>1</sup>

#### ο unmottled 1-2% ochreous mottles and brownish matrix х (or a few to common root mottles (topsoils))<sup>3</sup> >2% ochreous mottles and brownish matrix ΧХ and/or dull structure faces (slightly gleyed horizon) XXX >2% ochreous mottles and greyish or pale matrix (gleyed horizon) or reddish matrix and >2% greyish, brownish or ochreous mottles and pale ped faces mottles or f-m concentrations (gleved horizon) dominantly blueish matrix, often with some ochreous mottles XXXX (gleved horizon)

#### Slowly permeable layers<sup>4</sup>

a depth underlined (e.g. <u>50</u>) indicates the top of a slowly permeable layer

A wavy underline (e.g. <u>50</u> indicates the top of a layer borderline to slowly permeable

#### Texture<sup>2</sup>

C – clay ZC - silty clay SC - sandy clay CL - clay loam (H-heavy, M-medium) ZCL - silty clay loam (H-heavy, M-medium) SZL - sandy silt loam (F-fine, M-medium, C-coarse) LS - loamy sand (F-fine, M-medium, C-coarse) SL - sandy loam (F-fine, M-medium, C-coarse) S - sand (F-fine, M-medium, C-coarse) SCL - sandy clay loam P - peat (H-humified, SF-semi-fibrous, F-fibrous)

#### Wetness Class⁵

I (freely drained) to VI (very poorly drained)

LP - loamy peat; PL - peaty loam

#### Limitations:

W - wetness/workability D - droughtiness De - depth F - flooding St - stoniness SI - slope T - topography/microrelief C - Climate

#### Suffixes & prefixes:

o - organic

(vsl, sl, m, v, x)st – (very slightly, slightly, moderately, very, extremely) stony $^{6}$ 

(vsl, sl, m, v, x) (very slightly, slightly, moderately, very, extremely) calcareous<sup>7</sup>

#### Other abbreviations

fmn - ferri-manganiferous concentrations dist - disturbed soil layer; chky - chalky R – bedrock (CH – chalk, SST – sandstone LST – limestone, MST – Mudstone) r-reddish, gn – greenish

<sup>1</sup>Gley indicators in accordance with Hodgson, J.M., 1997. Soil Survey Field Handbook (third edition). Soil survey technical monograph No. 5 <sup>2</sup>Texture in accordance with particle size classes in Hodgson (1997)

<sup>3</sup> Occasionally recorded in the texture box

<sup>4</sup>Permeability is estimated for auger borings and must be confirmed by full pit observations in accordance with the definitions in: Revised Guidelines for grading the quality of Agricultural Land (Maff 1988)

<sup>5</sup>Soil Wetness Classes are defined in Hodgson (1997) <sup>6</sup>stoniness classes as defined in Hodgson (1997)

<sup>7</sup>calcareous classes as defined in Hodgson (1997)

Grades in brackets eg. (3a) raised by one grade due to calcareous topsoil

Observations close to or on grade boundaries are sometimes recorded as borderline e.g. 3a/3b. In these cases the former grade shows the estimated grading according to the criteria

## Soil pit descriptions

#### Pit 8 (see Map 1)

- 0-29 cm Very dark greyish brown (10YR 3/2) medium clay loam; <1% mixed hard stones; moderately developed coarse and very coarse sub-angular blocky structure; friable; abundant fine fibrous roots; smooth clear boundary to:
- 29-34 cm Pinkish grey (7.5YR 6/2) heavy clay loam with 5% distinct fine strong brown (7.5YR 5/8) mottles; stoneless; moderately developed coarse sub-angular blocky structure; friable; porous; medium packing density; common fine fibrous roots; smooth gradual boundary to:
- 34-120 cm Reddish brown (5YR 5/3) clay with pinkish grey (5YR 6/2) ped faces and 10% faint yellowish red (5YR 5/6) mottles; stoneless; weakly developed very coarse angular blocky structure; firm; <0.5% macropores; high packing density; few fine fibrous roots.

#### Pit 19 (see Map 1)

- 0-31 cm Dark greyish brown (10YR 4/2) heavy clay loam; 1-2% mixed hard rounded stones; moderately developed medium sub-angular blocky structure; friable; common fine fibrous roots; smooth gradual boundary to:
- 31-40 cm Pinkish grey (7.5YR 6/2) heavy clay loam with 5% distinct fine strong brown (7.5YR 5/8) mottles; very slightly stony; moderately developed coarse subangular blocky structure; friable; porous; few fine fibrous roots; medium packing density; wavy diffuse boundary to:
- 40-110 cm+ Reddish brown (5YR 5/3) clay with pinkish grey (5YR 6/2) ped faces and very dark grey (7.5YR 3/1) ferri-manganiferous concentrations; very slightly stony; weakly developed very coarse angular blocky structure; firm; <0.5% macropores; high packing density; few fine fibrous roots.

#### Pit 25 (see Map 1)

- 0-24 cm Very dark greyish brown (10YR 3/2) heavy clay loam with 5% strong brown (7.5YR 5/8) root channel mottles; 1% mixed hard stones; moderately developed coarse and very medium and fine sub-angular blocky structure; friable; common medium fibrous roots; uneven gradual boundary to:
- 24-35 cm Light brownish grey (10YR 6/2) sandy clay loam with 30% distinct fine yellowish brown and brownish yellow (10YR 5/8 & 6/8) mottles; very slightly stony; moderately developed coarse sub-angular blocky structure; friable; low packing density (porous); common fine fibrous roots; wavy gradual boundary to:
- 34-120 cm Pinkish grey (7.5YR 6/2) clay with 25% diffuse strong brown (7.5YR 5/6) mottles and 1-2% fine very dark grey (7.5YR 3/1) ferri-manganiferous concentrations; very slightly stony; weakly developed very coarse angular blocky structure; very firm; <0.5% macropores; few fine fibrous roots.







|                                    |  |  |   | ANALYTI   | CAL REPORT      |  |  |  |  |   |  |
|------------------------------------|--|--|---|---|-----------------|--|--|--|--|---|--|
| Report Number                      | 50662-23 H579 MR MIKE PALMER   |  |   |   |                 |  |  |  |  |   |  |
| Date Received                      | 04-JAN-2023 LAND RESEARCH ASSOCIATES   |  |   |   |                 |  |  |  |  |   |  |
| Date Reported                      | 11-JAN-2023 LOCKINGTON HALL  |  |   |   |                 |  |  |  |  |   |  |
| Project                            | SOIL   |  |   | LOCKINGTON  |                 |  |  |  |  |   |  |
| Reference                          | AWEL Y MOR   |  |   | DERBY   |                 |  |  |  |  |   |  |
| Order Number                       |  |  |   | DE74 2RH  |                 |  |  |  |  |   |  |
| Laboratory Reference               |  | SOIL601260   | SOIL601261  | SOIL601262  |                 |  |  |  |  |   |  |
| Sample Reference                   |  | 8  | 25  | 19  |                 |  |  |  |  |   |  |
| Determinand                        | Unit   | SOIL   | SOIL  | SOIL  |                 |  |  |  |  |   |  |
| Sand 2.00-0.063mm                  | % w/w  | 39   | 33  | 28  |                 |  |  |  |  | 1 |  |
| Silt 0.063-0.002mm                 | % w/w  | 35   | 37  | 38  |                 |  |  |  |  |   |  |
| Clay <0.002mm                      | % w/w  | 26   | 30  | 34  |                 |  |  |  |  |   |  |
| Textural Class **                  |  | MCL  | HCL   | HCL   |                 |  |  |  |  | T |  |
| Notes                              | i  | -  | <u> </u>  |   |                 |  |  |  |  | · |  |
| Analysis Notes<br>Document Control | The sample submitted was of adequate size to complete all analysis requested.<br>The results as reported relate only to the item(s) submitted for testing.<br>The results are presented on a dry matter basis unless otherwise stipulated. |  |   |   |                 |  |  |  |  |   |  |
| Reported by                        | ** Please see the att<br><b>Myles Niche</b><br>Natural Resource Ma<br>Coopers Bridge, Bra<br>Tel: 01344 886338<br>Fax: 01344 890972<br>email: enquiries@nrr  | ached documen<br>O <b>lson</b><br>anagement, a tra<br>ziers Lane, Brac<br>m.uk.com | t for the definitio<br>ading division of<br>knell, Berkshire, | n of textural clas:<br>Cawood Scientifi<br>, RG42 6NS | ses.<br>ic Ltd. |  |  |  |  |   |  |





## **ADAS (UK) Textural Class Abbreviations**

The texture classes are denoted by the following abbreviations:

| Class           | Code |
|-----------------|------|
| Sand            | S    |
| Loamy sand      | LS   |
| Sandy loam      | SL   |
| Sandy Silt loam | SZL  |
| Silt loam       | ZL   |
| Sandy clay loam | SCL  |
| Clay loam       | CL   |
| Silt clay loam  | ZCL  |
| Clay            | С    |
| Silty clay      | ZC   |
| Sandy clay      | SC   |

For the *sand, loamy sand, sandy loam* and *sandy silt loam* classes the predominant size of sand fraction may be indicated by the use of prefixes, thus:

- vf Very Fine (more than 2/3's of sand less than 0.106 mm)
- f Fine (more than 2/3's of sand less than 0.212 mm)
- c Coarse (more than 1/3 of sand greater than 0.6 mm)
- m Medium (less than 2/3's fine sand and less than 1/3 coarse sand).

The subdivisions of *clay loam* and *silty clay loam classes* according to clay content are indicated as follows:

- M medium (less than 27% clay)
- H heavy (27-35% clay)

Organic soils i.e. those with an organic matter greater than 10% will be preceded with a letter O.

Peaty soils i.e. those with an organic matter greater than 20% will be preceded with a letter  $\mathsf{P}.$ 







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