Green Hill Solar Farm
EN010170

Environmental Statement
Appendix 20.1: Agricultural Land Classification Technical Report

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Contents

1 Introduction 2
1.1 Background 2
1.2 Scope 2
1.3 Legislation, Policy and Guidance 2
2 Methodology 7
3 Baseline Information 9
3.2 Land Use 9
3.3 Topography & Relief 9
3.4 Flooding 9
3.5 Geology 9
3.6 Previous and Provisional ALC 10
3.7 Previous Soil Survey Data 11
3.8 Climatological Data 11
4 ALC Assessment and Result 12
4.1 Soil Type 12
4.2 Climatic Limitations 12
4.3 Site Limitations 12
4.4 Soil Limitations 13
4.5 Chemical Limitations 14
4.6 Interactive Limitations 14
5 ALC Grade Distribution 16
6 Conclusion and Recommendations 17
References 18
Appendix A Auger bore locations and ALC Grades
Appendix B Auger Bore Soil Log
Appendix C Long Term Flood Risk Service Maps
Appendix D Soil Pit Description
Appendix E Soil Laboratory Analysis
Appendix F Green Hill BESS Agricultural Land Classification Report

1 Introduction

1.1 Background

1.1.1 Agricultural Land Classification (ALC) surveys were undertaken by Arcadis Consulting (UK) Limited on behalf of Green Hill Solar Farm Limited ('the Applicant') to support the Scheme Development Consent Order (DCO) application. The Scheme consists of an electricity generating station with a capacity of over 50 megawatts ('MW') comprising ground mounted solar arrays and Associated Development.

1.1.2 The Scheme comprises nine sites described as Green Hill Site A, A.2, B, C, D, E, F, G, and BESS (the Sites).

1.1.3 The Sites have an area of approximately 1200.6 hectares. The Sites are situated in an area of countryside to the west and south of Wellingborough, and north and southeast of Northampton.

1.1.4 ALC surveys were conducted on Green Hill A, A.2, B, C, D, E, F and G between April and July 2024.

1.1.5 ALC surveys were not undertaken within the Cable Route Corridor as it was scoped out of the agricultural circumstances assessment.

1.1.6 On Green Hill BESS, ALC surveys were undertaken and an ALC report (**Appendix F**) produced by Daniel Baird Soil Consultancy Ltd in November 2023 and has been used to support the Agricultural Circumstances assessment as part of the Environmental Statement (ES).

1.2 Scope

1.2.1 The primary purpose of the ALC survey is to characterise the soils and assess the quality of the agricultural land in accordance with the Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land (Ref.1) (the ALC guidelines hereafter).

1.3 Legislation, Policy and Guidance

Legislation

UK Legislation

The Agricultural Land (Removal of Surface Soil) Act 1953

1.3.1 The Agricultural Land (Removal of Surface Soil) Act 1953 (Ref.2) is the only relevant legislation that is specific to the assessment of agricultural circumstances. The act outlines the offense and punishment as a result of removing surface soil without planning permission from agricultural land.

Planning Act 2008

1.3.2 The Planning Act (Ref.3) outlines the planning requirements and regulations for development of nationally significant infrastructure. The act includes the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. As part of the EIA process agricultural land classification is used to assess the impact on agriculture land quality and the soils which support this.

National Policy Statement (NPS)

1.3.3 Chapter 2: Key Legislation and Planning Policy Context sets out the overarching policy relevant to the Scheme including the NPS EN-1 (DESNZ, 2024) (Ref.4), which is supported by NPS EN-3 (DESNZ, 2024) (Ref.5).

1.3.4 NPS EN-1 states that energy projects could have adverse effects on agriculture, as follows:

- Paragraph 5.11.12 states that Applicants should '*seek to minimise impacts on the best and most versatile agricultural land (defined as land in grades 1, 2 and 3a of the Agricultural Land Classification) and preferable use land in areas of poorer quality (grades 3b, 4 and 5).*'
- Paragraph 5.11.34 states the Sectary of State should '*ensure that applicants do not site their scheme on the best and most versatile agricultural land without justification. Where schemes are to be sited on best and most versatile agricultural land the Secretary of State should take into account the economic and other benefits of that land. Where development of agricultural land is demonstrated to be necessary, areas of poorer quality land should be preferred to those of a higher quality.'*

1.3.5 NPS EN-3 sets out guidance on agriculture land classification and land type for renewable energy infrastructure, as follows:

- Paragraph 2.10.29 states *'Where the proposed use of any agricultural land has been shown to be necessary, poorer quality land should be preferred to higher quality land avoiding the use of "Best and Most Versatile" agricultural land where possible'.*
- Paragraph 2.10.32 states *'Where sited on agricultural land, consideration may be given as to whether the proposal allows for continued agricultural use and/or can be co-located with other functions (for example, onshore wind generation, storage, hydrogen electrolysers) to maximise the efficiency of land use'.*
- Paragraph 2.10.33 states *'The Agricultural Land Classification (ALC) is the only approved system for grading agricultural quality in England and Wales and, if necessary, field surveys should be used to establish the ALC grades in accordance with the current, or any successor to it, grading criteria and identify the soil types to inform soil management at the construction, operation, and decommissioning phases in line with the Defra Construction Code'.*
- Paragraph 2.10.145 states *'The Secretary of State should take into account the economic and other benefits of the best and most versatile agricultural land. The Secretary of State should ensure that the applicant has put forward appropriate mitigation measures to minimise impacts on soils or soil resources'.*

National Planning Policy Framework

1.3.6 This ALC assessment is consistent with the direction given by paragraph 180 of the National Planning Policy Framework (NPPF) (Ref.6) as follows:

"Planning policies and decisions should contribute to and enhance the natural and local environment by: (b) recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland."

1.3.7 The NPPF defines best and most versatile (BMV) agricultural land as land in grades 1, 2, and 3a of the Agricultural Land Classification system.

1.3.8 The NPFF states in the footnote of paragraph 181, *'Where significant development of agricultural land is demonstrated to be necessary, areas of poorer quality land should be preferred to those of a higher quality. The availability of agricultural land used for food production should be considered, alongside the other policies in this Framework, when deciding what sites are most appropriate for development.'*

Local Policy

1.3.9 Paragraph 3.32 of North Northamptonshire Joint Core Strategy 2011-2031 (North Northamptonshire Council, 2016) (Ref. 7) states *'Soils are an important asset in geodiversity, providing a growing medium for many resources including food and non-food crops. Soils should be protected from pollution and the best and most versatile agricultural land should be safeguarded, wherever possible'.*

1.3.10 Policy 46S - Use of previously developed land and use of undeveloped land of Local Plan 2030 (Bedford Borough Council, 2020) (Ref.8) states *'Where significant development is demonstrated to be necessary on agricultural land, poorer quality land should be used in preference to the best and most versatile agricultural land (grades 1-3a). Where the site is located on agricultural land outside of existing settlements, applicants will be required to provide evidence of the grade of agricultural land and, where that land is likely to be grade 3 or higher, undertake a detailed survey of land quality'.*

1.3.11 Paragraph 9.1 of Bedford Local Plan 2030 (Ref.9) states *'Soil, air and water resources are non-renewable resources, and their use needs to be managed carefully to ensure that development is sustainable'.*

1.3.12 Policy NE7 of Milton Keynes Council Plan 2016-2031 (Ref.10) states *'In assessing proposals for the development of greenfield sites, the Council will take into account the economic and other benefits of the best and most versatile agricultural land. Development involving the loss of agricultural land should seek to use areas of poorer quality land (grades 3b, 4 and 5 of the Agricultural Land Classification) in preference to that of a higher quality unless other sustainability considerations suggest otherwise'.*

1.3.13 Policy EC5 of West Northamptonshire Local Plan - 2041 (Regulation 18) (Ref.11) states *'Development proposals which sustain and enhance the rural economy by creating or safeguarding jobs and businesses will be supported where they are*

of an appropriate scale for their location, respect the environmental quality and character of the rural area and protect the best and most versatile agricultural land'.

Guidance

1.3.14 The Ministry of Agriculture, Fisheries and Food (MAFF) (Ref.1) ALC system for grading land quality for land use planning, divides agricultural land into five grades. These grades divide land according to the degree of limitation imposed on land use by the inherent characteristics of climate, site, and soils.

1.3.15 Protecting BMV agricultural land and the undertaking of ALC surveys is supported by the Natural England Guide to assessing development proposals on agricultural land (Ref.12).

1.3.16 A description of each grade is set out below based on the ALC guidelines (Ref.1).

1.3.17 **Grade 1 - excellent quality agricultural land.**

Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

1.3.18 **Grade 2 - very good quality agricultural land.**

Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

1.3.19 **Grade 3 – good to moderate quality agricultural land.**

Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown the yields are generally lower or more variable than on land in Grades 1 and 2.

1.3.20 **Subgrade 3a - good quality agricultural land.**

Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

1.3.21 **Subgrade 3b - moderate quality agricultural land.**

Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

1.3.22 **Grade 4 – poor quality agricultural land.**

Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high, but there may be difficulties in utilisation. The grade also includes very droughty arable land.

1.3.23 **Grade 5 - very poor-quality agricultural land.**

Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

2 Methodology

2.1.1 A desk study to collate baseline information for the Sites, such as geology, available ALC and soil information, was undertaken prior to the survey.

2.1.2 The ALC survey and assessment was undertaken in accordance with:

- Soil Survey Field Handbook (Hodgson, 2022) (Ref.13);
- ALC guidelines (Ref.1); and
- Meteorological Office climatological data (1989) (Ref.14).

2.1.3 The survey was conducted at a density of a 100m grid, meeting the ALC guidelines (Ref.1) requirement of one auger bore examination per hectare. Auger bores (**Appendix A**) were set out prior to the field survey and were loaded with Google Earth app into smart phones to locate auger bore in the field.

2.1.4 Soil profiles were examined up to a maximum depth of 120cm by using a 5cm Dutch soil auger.

2.1.5 A total of 13 soil pits were dug to further examine and assess subsoil structure.

2.1.6 The following soil and site properties were examined/recorded:

- Soil texture;
- Horizon depths;
- Stoniness;
- Carbonate content (using 10% hydrochloric acid);
- Matrix colour (based on a Munsell Colour Chart (Ref.15));
- Mottles (colour and size);
- Soil structure (ped development, size/shape and strength); and
- Slope (using a clinometer).

2.1.7 The total area surveyed was 1,178.4 ha.

2.1.8 The detailed survey involved the examination of the physical soil properties at 1083 auger bore locations; assessed over a series of days across 8 surveying visits between April and July 2024.

2.1.9 The surveys were undertaken by appropriately qualified and experienced soil scientists, Ruth Metcalfe, Zhigang Liu, Liv Hoyland and Jess Potts in line with British Society of Soil Science (BSSS) guidance (Ref.16).

2.1.10 The auger bore logs are presented in **Appendix B** alongside the following parameters:

- Climate: Altitude, Average Annual Rainfall (AAR) and Accumulated Temperature above 0°C between January and June (AT0), Moisture Deficit for wheat (mm), Moisture Deficit for potatoes (mm) and Field Capacity Days (FCD);
- Site: Gradient and flooding; and

- Soil attributes, grades of Soil Wetness and Soil Droughtiness and final ALC Grade.

2.1.11 Cable Avoidance Tool and Generator (CAT and Genny) was used to scan each auger bore or pit to avoid buried services before breaking ground. Soils from each auger bore and the soil pit were reinstated immediately following examination.

3 Baseline Information

3.1.1 This section provides baseline information collated from a desk study undertaken prior to the ALC survey.

3.2 Land Use

3.2.1 Satellite imagery indicates that the agricultural land within the Sites is predominantly arable land with a few areas of grassland.

3.3 Topography & Relief

3.3.1 Available Ordnance Survey maps indicate the Sites are predominantly characterised by gentle slopes, with the exception of Green Hill B and Green Hill D which are relatively level. Green Hill A gently slopes from northeast to southwest in the eastern half of the Site and west to east in the western half of the Site. Green Hill A.2 gently slopes west to east. Green Hill C gently slopes north to south and in the western half of the Site slopes northwest to southeast. Green Hill E gently slopes for northwest to southeast. Green Hill F gently slopes northeast to southwest in the north of the Site and both south to northwest and south to northeast in the south extent of the Site. Green Hill G gently slopes north to south.

3.3.2 The northern extent of Green Hill A has the highest elevation across the Sites at 137m Above Ordnance Datum (AOD), with Green Hill F being characterised by the lowest elevation at 53m AOD in the north of the Site.

3.4 Flooding

3.4.1 Government long term flooding risk service (Ref.17) information was consulted to assess the flooding risk of the Sites. This states that the Sites are predominantly of low risk of flooding from surface water and small watercourses, rivers and the sea, with a risk of flooding of less than 0.1% each year.

3.4.2 Flooding from surface water and small watercourses is moderate/high risk where watercourses are present. The northeast corner of Green Hill A, a small portion of the center of Green Hill C, along the east boundary of Green Hill E and a significant portion of the northwest and central areas of Green Hill F sit within a moderate/high risk area at risk of flooding from surface water and small watercourses.

3.4.3 Green Hill F is the only Site to have high risk of flooding from rivers and the sea in the northwest of the Site, which means that this area has a risk of flooding of more than 3.3% each year.

3.4.4 Where Sites have a high risk of flooding, they sit within Flood Zone 3, meaning in any year land has a 1% or more chance of flooding from rivers, or a 0.5% or more chance of flooding from the sea.

3.5 Geology

3.5.1 BGS (British Geological Survey) Geology Viewer (Ref.18) indicates that there are ten bedrock formations and four superficial deposits across the Sites. The geology of the Sites is characterised as follows:

- Green Hill A: The bedrock is mapped as the Northampton Sand Formation with Whitby Mudstone Formation in the western part of the Site, and the Rutland Formation and Stamford member in the eastern part of the Site, overlain by superficial Diamicton of the Oadby Member and Glaciofluvial Deposits (Sand and Gravel).
- Green Hill A.2: The bedrock is mapped as the Wellingborough Limestone Member, Rutland Formation, and Stamford Member, overlain by superficial Diamicton of the Oadby Member.
- Green Hill B: The bedrock is mapped as the Rutland Formation, Stamford Member and Blisworth Limestone Formation in the most northern extent, overlain by superficial Diamicton of the Oadby Member.
- Green Hill C: The bedrock is mapped as the Stamford Member, Northampton Sand Formation and Wellingborough Limestone Member, overlain by superficial Diamicton of the Oadby Member.
- Green Hill D: The bedrock is mapped as the Rutland Formation, Stamford Member, Northampton Sand Formation and Wellingborough Limestone Member, overlain by superficial Diamicton of the Oadby Member.
- Green Hill E: The bedrock is mapped as the Blisworth Limestone Formation, Rutland Formation, Stamford Member, Northampton Sand Formation, Wellingborough Limestone Member and Whitby Mudstone, overlain by superficial Diamicton of the Oadby Member across the northern and central areas, with pockets of Glacio-Fluvial (Sand and Gravel) present in the southwest.
- Green Hill F: The bedrock is mapped as the Blisworth Limestone, Blisworth Clay Formation, Rutland Formation, Wellingborough Limestone Member, Stamford Member, Northampton Sand Formation, Whiby Mudstone and Cornbrash Formation, overlain by superficial Diamicton of the Oadby Member, Bozeat Till, Milton Sand and Alluvium.
- Green Hill G: The bedrock is mapped as the Cornbrash Formation (Limestone), the Kellaways Clay Member and Kellaways Sand Member, overlain by superficial Diamicton of the Oadby Member in the central and northern areas of the Site. No superficial deposits are mapped in the south of the Site.

3.6 Previous and Provisional ALC

3.6.1 Provisional ALC mapping (Ref.19) shows that the Sites comprise large extents of Grade 3 land and smaller extents of Grade 2 land. Grade 3 land is mapped as being present across the entire areas of Green Hill A, A.2, B, and G, the majority of Green Hill D and F and part of Green Hill E and C. Grade 2 land is located within the southern part of Site C, the northern part of Green Hill D, the majority of Green Hill E and a small part in the northeast of Green Hill F.

3.6.2 Provisional mapping, at a scale of 1:250,000, does not distinguish between Subgrades 3a and 3b but provides an indication of the likely land

classification. This distinction can only be confirmed through a detailed ALC survey.

3.6.3 A detailed ALC survey has been conducted across Green Hill BESS. The northern and central fields as well as the southern corner of south field are graded as Grade 3b, whilst the larger section of the south field is graded as Grade 3a.

3.6.4 Three post-1988 ALC surveys from MAGIC (Ref.19) have been found within the vicinity of the Sites as follows:

- A detailed ALC survey undertaken adjacent to the north of Green Hill D and close to the north of Green Hill E shows these areas to comprise Grade 3a and 3b land just outside the site boundary.
- A detailed ALC survey has been undertaken adjacent to the north of Green Hill F which shows the land to comprise Grade 2, Grade 3a and Grade 3b land.

3.7 Previous Soil Survey Data

3.7.1 Available national soil survey data (Ref. 20) indicates that there are five different Soil Associations across the Sites. These are described below.

- Hanslope Association soils are found in Green Hill A, A.2, B, C, D, E, F and G which are described as slowly permeable calcareous or non-calcareous clayey soils with slight risk of water erosion. The Hanslope Association is the predominant Soil Association, covering the majority of the Site.
- Banbury Association soils are found in Green Hill A, C, D and E and are described as well drained brashy fine and coarse loamy ferruginous soils over ironstone.
- Moreton Association soils are found in Green Hill D, E, F and G and are described as well drained calcareous clayey and fine loamy soils over limestone, in places shallow and brashy. Some deeper slowly permeable calcareous clayey soils.
- Ragdale Association soils are found in Green Hill C, F and G and are described as slowly permeable seasonally waterlogged clayey and fine loamy over clayey soils.
- Wick 1 Association soils are found in a small area in the south of Green Hill C.

3.8 Climatological Data

3.8.1 The Climate data required for the ALC assessment are provided for 5km intersections of the National Grid by the Meteorological Office (Ref.14) Interpolated data for the Site, which is set out in **Appendix B**.

4 ALC Assessment and Result

4.1 Soil Type

4.1.1 The ALC survey has identified six major soil types across the Sites. Soil type 1 is the dominate soil, covering the majority of the Sites, while other five soil types cover only small areas.

- Soil type 1 - Deep clay. This soil dominates the majority area of all the Sites. It is generally a slowly permeable calcareous deep clay with non-calcareous clay topsoil locally;
- Soil type 2 - Deep loam. This soil was mainly found in small areas of Green Hill A and Green Hill E and consist of deep light or medium loams;
- Soil type 3 - Shallow soil over sandstone or ironstone. This soil is located in Green Hill E and is generally non-calcareous light or medium loam over sandstone or ironstone;
- Soil type 4 - Shallow soil over limestone. This soil was found in Green Hill F and is generally calcareous heavy loam or clay over limestone;
- Soil type 5 - Alluvial soil. This soil was found in Green Hill F and E and is generally either deep heavy loam, or heavy loam or clay over clay; and
- Soil type 6- Valley soil. This soil was found in all the Sites. It is predominately deep heavy loam, or heavy loam or clay over clay.

4.2 Climatic Limitations

4.2.1 The main parameters used in the assessment of overall climatic limitation are AAR, as a measure of overall wetness, and AT0, as a measure of warmth in the growing season.

4.2.2 According to the AAR and AT0 values presented in the climate tables with the soil logs in **Appendix B**, there are no climate limitations across the Sites. The climatic Grade for all Sites is Grade 1. As such climatic conditions do not represent significant factors limiting crop production.

4.3 Site Limitations

Gradient and Microrelief

4.3.1 As stated in section 3.3, field surveys confirmed all the Sites are generally either level (0-1 degrees) or gently sloping (2-3 degrees), with the exception of Green Hill E which is characterised by moderately (4-7 degrees) south-facing slopes in the south and strongly sloping (8-11 degrees) east-facing slopes along the south-east boundary of the Site.

4.3.2 As such, within the Sites, gradient and microrelief are not considered to represent limiting factors, except from specific auger location E171 within Green Hill E, which is limited to Grade 3b due to the slope being observed as greater than seven degrees.

Flooding

4.3.3 Flooding from surface water, rivers and the sea is very low risk (less than 0.1% each year), and that from reservoirs and groundwater is unlikely for Green Hill A.2, B, D, and G. Therefore, for these Sites there is no limitation to grade as a result of flood risk.

4.3.4 Small watercourses present within Green Hill A, C, E and F present a high risk of flooding from surface water (more than 3.3% chance each year). Where auger locations are within Flood Zone 3 of these small watercourses, the grade is limited to Grade 3b as a result of flood risk. Limitations due to flood risk were most significant in the north-west of the northern extent of Green Hill F, which was limited to Grade 3b. Flood risk data is presented in **Appendix C**.

4.3.5 The majority of the land within Flood Zone 3 or at high risk from surface water were either set aside or in grass, indicating that the high risk of flooding affects land management decisions. The soil profile examination from the auger bores within the high risk of flooding areas indicates that most of the subsoils are either gleyed or have many or very many mottles. The auger bores limited by flooding are: A051, C003, C021, C032, C041, E001, E002, E003, E007, E008, E016, E024, E047, E056-E058, E062, E077, E078, E087, E090, E113, E190, E194, E207, F091, F097 F106, F113, F137, F144, F145, F151, F157, F176, F180, F186, F194, F197, F205-F211, F215-F220, F227-F230, F236-F239 and F245. Details of soil mottling and characteristics, and location within flooding areas of these auger bores are in **Appendix B** and **C**.

Other

4.3.6 In some instances, across the Sites, certain auger borehole locations, as detailed in **Appendix A**, were mapped as having the same grade as adjacent boreholes. Adjustment to ALC grade in these cases was attributed to isolation (a singular point with a different ALC grade compared to the surrounding boreholes), positioning in low-lying areas, and/or proximity to flood-risk zones. Details regarding the adjustment of ALC grades for these auger borehole locations based on site limitation can be found in **Appendix B**.

4.4 Soil Limitations

Soil Depth

4.4.1 The depth of soils does not consist of a limiting factor for Green Hill A, A.2, B, C, D, and G, as the soils present are deep.

4.4.2 Within the center of Green Hill E, ironstone bedrock was encountered at a minimum depth of 30cm, and within the central area of the northern extent of Green Hill F, limestone bedrock was encountered at a minimum depth of 20cm (**Appendix B**). In both these Sites, where bedrock was identified within 20-30cm, the grade was limited as a result to Grade 3b. Additionally, where bedrock was identified between 30-45cm, Grade was limited by depth to Grade 3a; however, as topsoil stoniness (including hard and soft stones) was typically greater than 15%, these auger locations were also downgraded to Grade 3b.

4.4.3 Auger bores limited by depth are E020, E022, E029, E030, E039-E041, E048, E053, E070, E085, E086, E091, E097-E099, E103, E111, E112, E123, E125, E134a, E146, E148, F110-F112, F119-F122, F127-F130, F138, F141, F142, F146, F147, F154, F155, F158, F159, F162, F164, F165, F168, F169, F172, F173, F175, F181-F184, F189, F190, F199, and F204.

4.4.4 Hence, the depth of soil does pose a limiting factor for parts of Green Hill E and F, where the soil is shallow over ironstone in Green Hill E and shallow over limestone in Green Hill F.

Stoniness

4.4.5 Across all Sites the topsoils mostly contained few hard stones (1-5%), which includes gravel, flint, pebble and cobble with common stones (6-15%) in places (**Appendix B**).

4.4.6 The hardstones of the Sites topsoils do not represent a limiting factor.

4.4.7 Within Green Hill A, A.2, C, and D, topsoils were observed to contain few (1-5%) soft chalk stones in places. Topsoils of Green Hill E showed a similar percentage of soft chalk stones in the north, whereas the southern area of the Site had a higher presence of soft sandstone and ironstones, ranging from common to many (6-35%) in places. Green Hill F and G contained few (1-5%) soft chalk stones in places; however, towards the centre of these Sites, topsoils contained varying amounts (few to many; 1-35%) of limestones (**Appendix B**).

4.4.8 Moderately stony (soft stone) topsoils are typically limited by stoniness to Grade 3a. However, these stony topsoils were observed in shallow soil areas where the most limiting factor was soil depth, rather than stoniness.

Soil Texture

4.4.9 Topsoil texture is not a direct limiting factor for all the Sites, as the topsoils are generally clay, clay loams, sandy clay loams or sandy loams (**Appendix B**).

4.4.10 Within Green Hill E, topsoils at auger locations E012, E076 and E180 comprise either loamy medium sand or loamy fine sand, which are not eligible to be classed as Grade 1. However, the soil texture limitation for these locations was not a direct limiting factor in determining the overall grade for this Site.

4.5 Chemical Limitations

4.5.1 There was no chemical limitation on soil physical conditions, crop yield or growing observed from the onsite surveys. The survey areas of all Sites are in predominately in arable farming with a few grass fields except set aside areas which are in high risk of flooding.

4.6 Interactive Limitations

4.6.1 Soil wetness class assessment and soil droughtiness calculations indicate that soil wetness and soil droughtiness were direct limiting factors, resulting in a mixture of Grade 2, Grade 3a and Grade 3b classification across the Sites.

4.6.2 Predominantly, Green Hill A.2, B, C, D and G were limited by soil wetness, where wetness class was generally either I or II, as shown in **Appendix B**. Wetness class III was calculated for some areas of Green Hill A.2 and G.

4.6.3 Green Hill A, E and F were limited by a mixture of soil wetness and soil droughtiness. The west of Green Hill A and south of Green Hill E were predominantly limited by soil droughtiness, whereas the east of Green Hill A, center/north of Green Hill E and south of Green Hill F were predominantly limited by soil wetness. Wetness class was generally either I or II, but wetness class III was also calculated for Green Hill A and Green Hill F (**Appendix B**).

4.6.4 Where Sites were limited by soil wetness, with a wetness class of either II or III, gleying and slowly permeable layers were observed within 70cm (**Appendix B**). These soils were typically limited to Grade 3a or Grade 3b and were only upgraded to Grade 2 where topsoils were observed as calcareous. Gleying and mottling was also observed in a number of auger bores at depths below 70cm, where wetness class was calculated as I and Grade according to soil wetness was limited to either Grade 2 or Grade 3a.

4.6.5 Where soil wetness and soil droughtiness were not primary limiting factors, the ALC grade was determined as Grade 1. Small areas of Grade 1 soils were identified in the south-west of Green Hill A and the west of Green Hill E.

4.6.6 Examination of 13 soil pits reveals that gleying typically occurs between 42-65 cm with the presence of a slowly permeable layer. Photos and descriptions of the soil profiles from these pits are provided in **Appendix D.**

5 ALC Grade Distribution

5.1.1 Table 5.1 and Appendix A summarise the ALC distributions and grades of the Sites from the ALC survey as follows:

- ALC Grade 1 (BMV land) accounts for 1.2% of the Sites, identified over 14.2ha within Green Hill A and E;
- ALC Grades 2 and 3a (BMV land) account for 25.2% and 40.2% of the Sites, respectively. Therefore, 784.2ha of agricultural land across the Sites is BMV land (Grade 1, 2 and 3a), accounting for 66.6% of the Sites; and
- ALC Grade 3b (non-BMV land) accounts for 33.4% of the Sites, covering 393.6ha across all the Sites. No Grade 4 or Grade 5 non-BMV land was identified across any of the Sites.

Table 5.1 ALC Grades Distribution of land surveyed

Site	Grade 1		Grade 2		Grade 3a		Grade 3b	
	%	ha	%	ha	%	ha	%	ha
A	3.4%	5.9	30.5%	52.3	42.4%	72.9	23.7%	40.7
A.2			7.8%	5.1	69.4%	45.2	22.9%	14.9
B			4.5%	2.8	37.5%	23.8	58.1%	36.9
C			9.2%	5.1	69.7%	38.4	21.0%	11.6
D			25.5%	10.7	64.6%	27.2	9.9%	4.1
E	2.7%	8.3	22.6%	68.8	35.5%	108.2	39.2%	119.3
F			34.2%	96.4	27.0%	76.1	38.9%	109.8
G			33.0%	55.5	42.7%	71.8	24.3%	41.0
BESS					38.30%	9.5	61.60 %	15.3
Total	1.2%	14.2	25.2%	296.8	40.2%	473.2	33.4%	393.6
Total Area	1,177.8 ha							

6 Conclusion and Recommendations

6.1.1 The area and distribution of ALC grade are shown in **Appendix A** and Table 5.1 and are summarised as follows:

- The total survey area is 1,177.8ha;
- The majority of the agricultural land across the Sites is BMV land (Grade 1, 2 and 3a), which accounts for 66.6% of the Sites;
- Grade 1 (excellent quality agricultural land): 14.2ha, 1.2% of the Sites;
- Grade 2 (very good quality agricultural land): 296.8ha, 25.2% of the Sites;
- Grade 3a (good quality agricultural land): 473.2ha, 40.2% of the Sites; and
- Grade 3b (moderate quality agricultural land): 393.6ha, 33.4% of the Sites.

6.1.2 It is recommended a detailed Soil Management Plan is prepared post-planning consent and implemented during construction and operation to protect agricultural land quality and soil resources, ensuring that good practice measures are implemented for soil stripping, stockpiling and reinstatement.

References

Ref.1 MAFF (1988). Agricultural Land Classification of England and Wales.

Ref.2 The Agriculture Land (Removal of Surface Soil) Act (1953)

Ref.3 The Planning Act (2008) https://www.legislation.gov.uk/ukpga/2008/29/contents [accessed 12 August 2024].

Ref.4 DESNZ (2024). Overarching National Policy Statement for Energy (EN-1)

Ref.5 DESNZ (2024). National Policy Statement for renewable energy infrastructure (EN-3).

Ref.6 The National Planning Policy Framework (NPPF) (2023). National Planning Policy Framework - GOV.UK (www.gov.uk) [accessed 12 August 2024].

Ref.7 North Northamptonshire Council (2016). North Northamptonshire Joint Core Strategy 2011-2031.

Ref.8 Bedford Borough Council, 2020. Policy 46S - Use of previously developed land and use of undeveloped land of Local Plan 2030

Ref.9 Bedford Council (2019). Bedford Local Plan 2030 https://www.bedford.gov.uk/planning-and-building-control/planning-policy/local-plan-2030/local-plan-2030-overview#:~:text=Bedford%20Borough%20Council%20has%20prepared,Council%20on%2015%20January%202020. [accessed 12 August 2024].

Ref.10 Milton Keynes Council (2019). Plan: MK 2016-2031.

Ref.11 West Northamptonshire Council (2024). West Northamptonshire Local Plan – 2041 (Regulation 18).

Ref.12 Natural England (2021). Guide to assessing development proposals on agricultural land Guide to assessing development proposals on agricultural land - GOV.UK (www.gov.uk) [Accessed 12 August 2024].

Ref.13 Hodgson, J.M. (2022). The Soil Survey Handbook. Soil Survey Technical Monograph No. 5, Cranfield.

Ref.14 Meteorological Office (1989). Climatological Data for Agricultural Land Classification. London: The Meteorological Office.

Ref.15 Munsell (2022). Munsell Soil Colour Charts: with genuine Munsell colour chips.

Ref.16 British Society of Soil Science (BSSS) (2022). Working with Soil Guidance Note on Assessing Agricultural Land Classification Surveys in England and Wales.

Ref.17 GOV.UK (2024). Long Term Flood Risk Service Where do you want to check? - Check your long term flood risk - GOV.UK (check-long-term-flood-risk.service.gov.uk) [accessed 12 August 2024].

Ref.18 BGS (British Geological Survey) Geology Viewer [redacted] [accessed 12 August 2024].

Ref.19 Department for Environment, Food and Rural Affairs (Defra), Magic Map Application https://magic.defra.gov.uk/MagicMap.aspx [accessed 12 August 2024].

Ref.20 Hodge, C.A.H (1984). Soils and their use in Midland and Western England and South East England.

Appendix A Auger bore locations and ALC Grades

479000
480000
481000
274000
273000
OLD CP
WALGRAVE CP
Red Lodge
Brewery Farm
Old
Waldgrave Lodge
Walgrave
Moat
Sch
Sprs
Walgrave Road
Kettering Road
New
Fa
129
138
141
140
139
127
130
135
131
121
118
119
123
107
108
103
112
117
110
105
100
115
125
120
A155 A156 A157
A147 A148 A149 A150 A151 A152 A153 A154
A136 A137 A138 A139 A140 A141 A142 A143 A144 A145 A146
A125 A126 A127 A128 A129 A130 A131 A132 A133 A134 A135
A114 A115 A116 A117 A118 A119 A120 A121 A122 A123 A124
A104 A105 A106 A107 A108 A109 A110 A111 A112 A113
A094 A095 A096 A097 A098 A099 A100 A101 A102 A103
A086 A087 A088 A089 A090 A091 A092 A093
A075 A076 A077 A078 A079 A080 A081 A082 A083 A084 A085
A062 A063 A064 A065 A066 A067 A068 A069 A070 A071 A072 A073 A074
A060a
A046 A047 A048 A049 A050 A051 A052 A053 A054 A055 A056 A057 A058 A059 A060 A061
SPA01
A030 A031 A032 A033 A034 A035 A036 A037 A038 A039 A040 A041 A042 A043 A044 A045
A015 A016 A017 A018 A019 A020 A021 A022 A023 A024 A025 A026 A027 A028 A029
SPA02
A005 A006 A007 A008 A009 A010 A011 A012 A013 A014
A001 A002 A003 A004
A2-40
A2-33
A2-27
A2-28
A2-21
A2-22
A2-14
A2-15
A2-8
A2-3

GREEN HILL SOLAR FARM

Title:
Figure 20.2.1
Agricultural Land Classification (ALC) Grade
Green Hill A

Document:
Volume 1
Agricultural Circumstances
Environmental Statement (ES)

Legend:
- Order Limits

ALC Grade
- 1
- 2
- 3a
- 3b

Auger Bore Holes and Soil Pit Locations

ALC Grade
- 1
- 2
- 3a
- 3b

Data: Arcadis, 2024; Lanpro, 2024; IGP 2024
Base map: © Crown copyright and database rights 2023 Ordnance Survey 0100031673



APFP Regulation: 5(2)(a)

Application Doc No.: EN010170/APP/GH6.4.20.2

Drawing no.: P3535_LPR_ZZ_XX_DR_Z_ALC_0256

Coordinate system: British National Grid

Scale: 1:10,000 @ A3

N
W
E
S

0 100 200 300 400 500 m

Island GREEN POWER

ARCADIS
Lanpro

481000 482000 483000

274000 273000 272000

GREEN HILL SOLAR FARM

Title:
Figure 20.2.2
Agricultural Land Classification (ALC) Grade
Green Hill A.2

Document:
Volume 1
Agricultural Circumstances
Environmental Statement (ES)

Legend:

Order Limits

ALC Grade

2
3a
3b

Auger Bore Holes and Soil Pit Locations

ALC Grade

1
2
3a
3b

Data: Arcadis, 2024; Lanpro, 2024; IGP 2024
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APFP Regulation: 5(2)(a)

Application Doc No.: EN010170/APP/GH6.4.20.2

Drawing no.: P3535_LPR_ZZ_XX_DR_Z_ALC_0256

Coordinate system: British National Grid

Scale: 1:10,000 @ A3

N W E S

0 100 200 300 400 500 m

Island GREEN POWER

ARCADIS Lanpro

478000 479000 480000 481000

270000 269000 268000

Brixworth Road
Manor Farm
Holcot
Northamptonshire Round
Foxhill Farm
The Hawthorns
HOLCOT CP
Moulton Road
North Fields
102
93
119 Hillcrest
Moulton Lodge Farm
North Farm
111
Tithe Farm
B060
B052 B053 B054 B055 B056 B057 B058 B059
B041 B042 B043 B044 B045 SPB01 B046 B047 B048 B049 B050 B051
B029 B030 B031 B032 B033 B034 B035 B036 B037 B038 B039 B040
B018 B019 B020 B021 B022 B023 B024 B025 B026 B027 B028
B010 B011 B012 B013 B014 B015 B016 B017
B004 B005 B006 B007 B008 B009
B001 B002 B003
118
Sywell Road
69
New College Farm
White House
129
Overstone Old Rectory
Rectory Farm
116
68
123
Holcot Road
120
Grange Cottages
Overstone Grange
113
Kettering Road
OVERSTONE CP
Hog Hole Spinney
Spr

GREEN HILL SOLAR FARM

Title: Figure 20.2.3
Agricultural Land Classification (ALC) Grade
Green Hill B

Document:
Volume 1
Agricultural Circumstances
Environmental Statement (ES)

Legend:

- Order Limits

ALC Grade

- 2
- 3a
- 3b

Auger Bore Holes and Soil Pit Locations

ALC Grade

- 1
- 2
- 3a
- 3b

Data: Arcadis, 2024; Lanpro, 2024; IGP 2024
Base map: © Crown copyright and database rights 2023 Ordnance Survey 0100031673



APFP Regulation: 5(2)(a)

Application Doc No.: EN010170/APP/GH6.4.20.2

Drawing no.: P3535_LPR_ZZ_XX_DR_Z_ALC_0256

Coordinate system: British National Grid

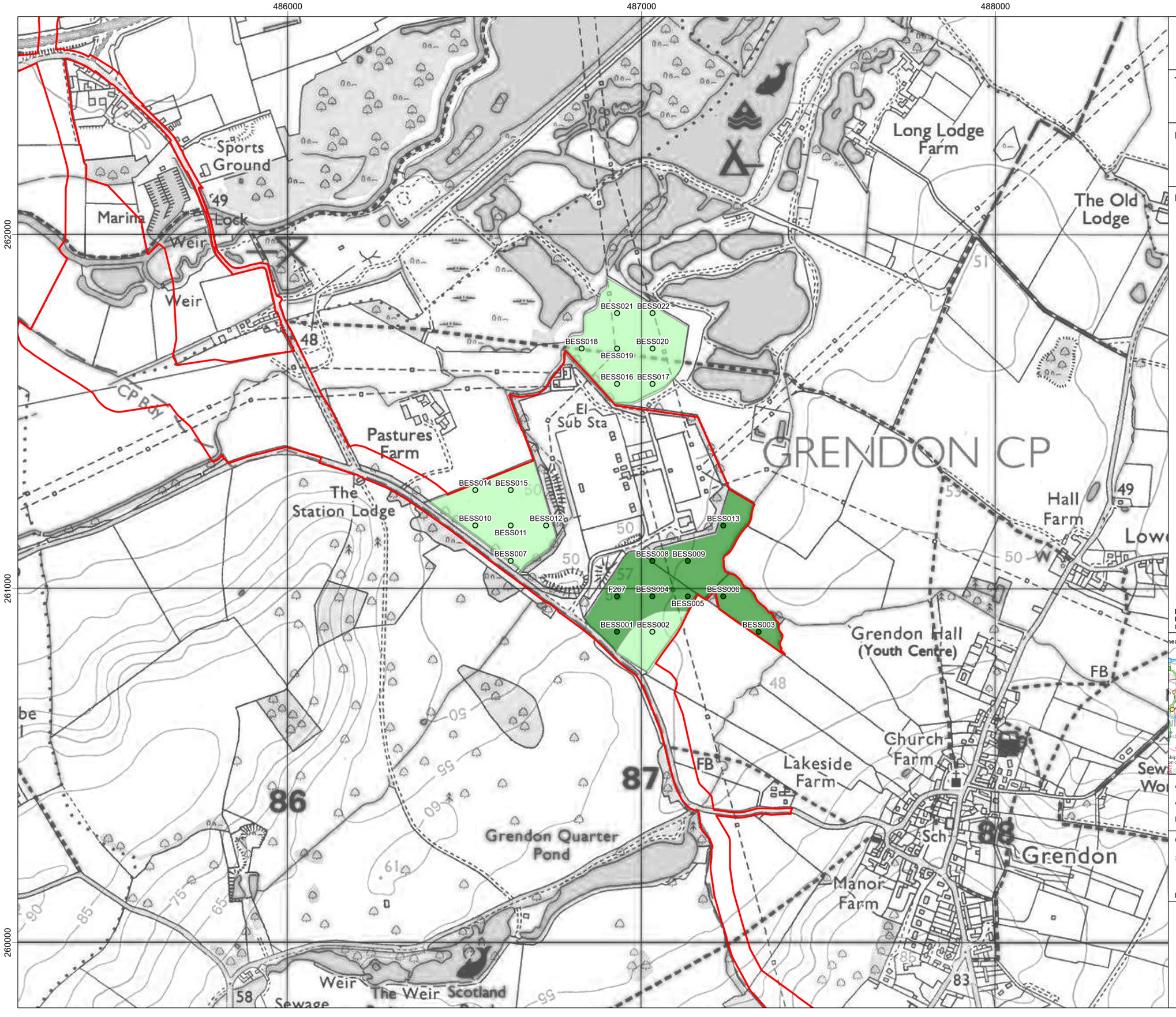
Scale: 1:10,000 @ A3

N W E S

0 100 200 300 400 500 m

Island GREEN POWER

ARCADIS Lanpro



GREEN HILL SOLAR FARM

Title: Figure 20.2.4
Agricultural Land Classification (ALC) Grade
Green Hill BESS

Document:
Volume 1
Agricultural Circumstances
Environmental Statement (ES)

Legend:

- Order Limits

ALC Grade

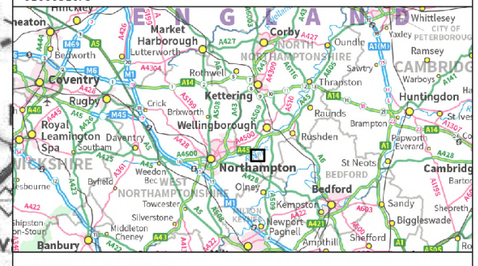
- 3a
- 3b

Auger Bore Holes and Soil Pit Locations

ALC Grade

- 1
- 2
- 3a
- 3b

Data: Arcadis, 2024; Lanpro, 2024; IGP 2024
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APFP Regulation: 5(2)(a)

Application Doc No.: EN010170/APP/GH6.4.20.2

Drawing no.: P3535_LPR_ZZ_XX_DR_Z_ALC_0256

Coordinate system: British National Grid

Scale: 1:10,000 @ A3

N W E S

0 100 200 300 400 500 m

Island GREEN POWER

ARCADIS Lanpro

482000
483000
484000
485000
269000
268000
267000

Rifle Range
Sywell Wood
Sywell Grange
Sywell Aerodrome
SYWELL CP
Works
Hotel
Park Pond
106
Sywell Hall
Spr
The Rectory
Sywell House
Garden Centre
Northamptonshire Round
Christmas Farm
Sywell Bottom
Knights Farm
Spr
Wood Lodge
Grange
HARDW
Appleby Barn
Cheesecake Spinney
Highfield Lodge
Highfield Road
Wilby Hall
Wr Twr
The Grange
The Rookery
124
130
129
125
120
119
115
112
110
C001 C002 C003 C004 C005 C006 C007 C008 C009 C010 C011 C012 C013 C014 C015 C016 C017 C018 C019 C020 C021 C022 C023 C024 C025 C026 C027 C028 C029 C030 C031 C032 C033 C034 C035 C036 C037 C038 C039 C040 C041 C042 C043 C044 C045 C046 C047 C048 C049 C050 SPC01
D001 D002 D003 D004 D005 D006 D007 D008 D009 D010 D011 D012 D013 D014 D015 D016 D017 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D031 D032 D033 D034 D035 D036 D037
E236 E237 E238 E239 E244 E245 E246 E251 E252 E253 E258 E259 E260 E265 E266 E267 E271 E272 E273 E277 E278 E279

GREEN HILL SOLAR FARM

Title: Figure 20.2.5
Agricultural Land Classification (ALC) Grade
Green Hill C

Document:
Volume 1
Agricultural Circumstances
Environmental Statement (ES)

Legend:

- Order Limits

ALC Grade

- 2
- 3a
- 3b

Auger Bore Holes and Soil Pit Locations

ALC Grade

- 1
- 2
- 3a
- 3b

Data: Arcadis, 2024; Lanpro, 2024; IGP 2024
Base map: © Crown copyright and database rights 2023 Ordnance Survey 0100031673



APFP Regulation: 5(2)(a)

Application Doc No.: EN010170/APP/GH6.4.20.2

Drawing no.: P3535_LPR_ZZ_XX_DR_Z_ALC_0256

Coordinate system: British National Grid

Scale: 1:10,000 @ A3

N
W
E
S

0 100 200 300 400 500 m

Island GREEN POWER

ARCADIS
Lanpro

GREEN HILL SOLAR FARM

Title:
Figure 20.2.6
Agricultural Land Classification (ALC) Grade
Green Hill D

Document:
Volume 1
Agricultural Circumstances
Environmental Statement (ES)

Legend:

Order Limits

ALC Grade

2

3a

3b

Auger Bore Holes and Soil Pit Locations

ALC Grade

1

2

3a

3b

Data: Arcadis, 2024; Lanpro, 2024; IGP 2024
Base map: © Crown copyright and database rights 2023 Ordnance Survey 0100031673



APFP Regulation: 5(2)(a)

Application Doc No.: EN010170/APP/GH6.4.20.2

Drawing no.: P3535_LPR_ZZ_XX_DR_Z_ALC_0256

Coordinate system: British National Grid

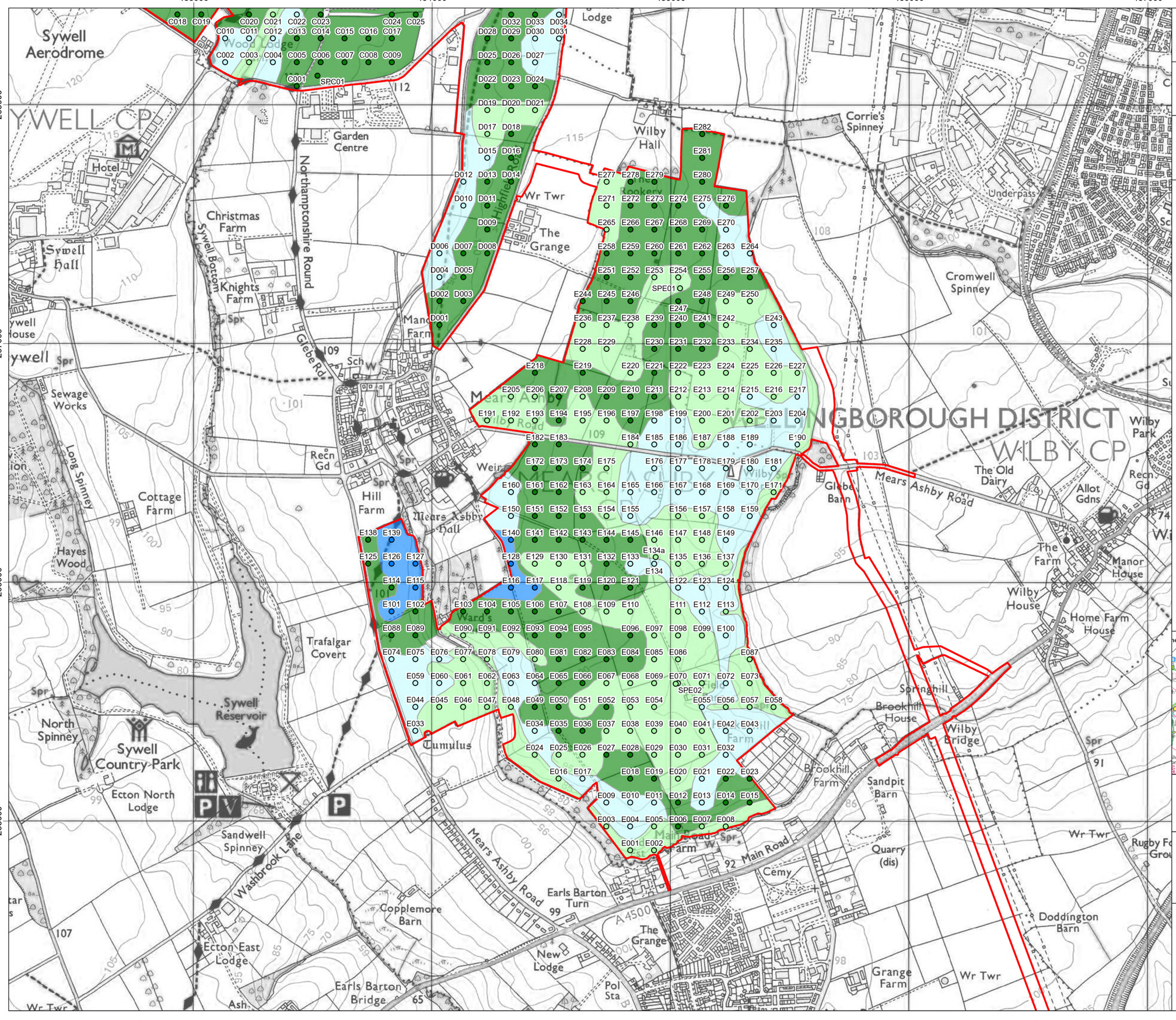
Scale: 1:10,000 @ A3

N W E S

0 100 200 300 400 500 m

Island GREEN POWER

ARCADIS Lanpro



GREEN HILL SOLAR FARM

Title:
Figure 20.2.7
Agricultural Land Classification (ALC) Grade
Green Hill E

Document:
Volume 1
Agricultural Circumstances
Environmental Statement (ES)

Legend:

- Order Limits

ALC Grade

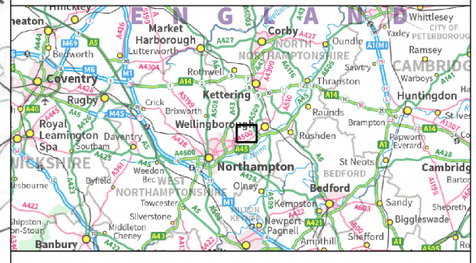
- 1
- 2
- 3a
- 3b

Auger Bore Holes and Soil Pit Locations

ALC Grade

- 1
- 2
- 3a
- 3b

Data: Arcadis, 2024; Lanpro, 2024; IGP 2024
Base map: © Crown copyright and database rights 2023 Ordnance Survey 0100031673



APFP Regulation: 5(2)(a)

Application Doc No.: EN010170/APP/GH6.4.20.2

Drawing no.: P3535_LPR_ZZ_XX_DR_Z_ALC_0256

Coordinate system: British National Grid

Scale: 1:15,000 @ A3

N W E S

0 100 200 300 400 500 m

Island GREEN POWER

ARCADIS Lanpro

GREEN HILL SOLAR FARM

Title:
Figure 20.2.8
Agricultural Land Classification (ALC) Grade Green Hill F

Document:
Volume 1
Agricultural Circumstances
Environmental Statement (ES)

Legend:

- Order Limits

ALC Grade

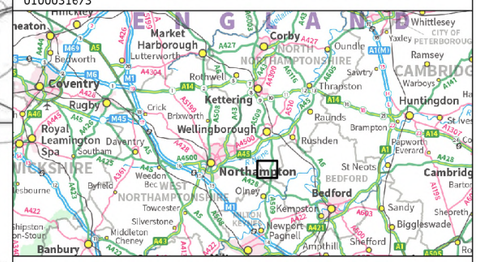
- 2
- 3a
- 3b

Auger Bore Holes and Soil Pit Locations

ALC Grade

- 1
- 2
- 3a
- 3b

Data: Arcadis, 2024; Lanpro, 2024; IGP 2024
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APFP Regulation: 5(2)(a)

Application Doc No.: EN010170/APP/GH6.4.20.2

Drawing no.: P3535_LPR_ZZ_XX_DR_Z_ALC_0256

Coordinate system: British National Grid

Scale: 1:15,000 @ A3

0 100 200 300 400 500 m

Island GREEN POWER

ARCADIS Lanpro

489000 490000 491000 492000

256000 255000 254000

GREEN HILL SOLAR FARM

Title:
Figure 20.2.9
Agricultural Land Classification (ALC) Grade
Green Hill G

Document:
Volume 1
Agricultural Circumstances
Environmental Statement (ES)

Legend:

Order Limits

ALC Grade

2

3a

3b

Auger Bore Holes and Soil Pit Locations

ALC Grade

1

2

3a

3b

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APFP Regulation: 5(2)(a)

Application Doc No.: EN010170/APP/GH6.4.20.2

Drawing no.: P3535_LPR_ZZ_XX_DR_Z_ALC_0256

Coordinate system: British National Grid

Scale: 1:10,000 @ A3

N W E S

0 100 200 300 400 500 m

Island GREEN POWER

ARCADIS Lanpro

Appendix B Auger Bore Soil Log

Key

cS, corse sand; **fS**, fine sand; **mS**, medium sand;

LcS, loamy coarse sand; **LfS**, loamy fine sand; **LmS**, loamy medium sand;

cSL, coarse sandy loam; **fSL**, fine sandy loam; **mSL**, medium sandy loam

cSZL, coarse sandy silt loam; **fSL**, fine sandy silt loam; **mSZL**, medium sandy silt loam

ZL, silt loam;

mCL, medium clay loam; **hCL**, heavy clay loam;

SCL, sandy clay loam;

mZCL, medium silty clay loam; **hZCL**, heavy silty clay loam;

C, clay; **SC**, sandy clay; **ZC**, silty clay

IMP, impenetrable

WE, wetness; **DR**, droughtiness

Site A

Climate Data:

Auger Bore No	National Grid Reference	ALT (m AOD)	AAR (mm)	AT0 (day °C)	FCD	MDMWHT (mm)	MDMPOT (mm)
A010	SP794686	111	635	1351	137	103	92
A017	SP794730	115	638	1346	137	102	91
A027	SP805731	116	633	1345	136	102	92
A048	SP795733	121	640	1339	138	101	90
A053	SP799732	114	636	1347	137	102	91
A063	SP791732	129	645	1330	138	100	89
A091	SP808735	127	640	1332	137	100	89
A095	SP802736	128	641	1331	137	100	89
A121	SP810738	125	639	1334	137	101	90
A140	SP808741	135	645	1323	138	99	87
A146	SP813740	122	637	1338	136	101	90

Auger Bore No	Surveyor Initials	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Gleyed Horizon	Depth to Gley	CaCo3%	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Hard Stone Type	Soft Stone Content % >2mm	Soft Stone Type	Slowly permeable layer (SPL) < 80cm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Limiting Factor	Final ALC Grade
A001	ZL	0	18	mCL	7.5YR4/4					non-calcareous	level	5%							I	1	23.6	12.5	2	DR	2
		18	38	mCL	7.5YR6/4					non-calcareous		0%													
		38	58	SCL	2.5YR5/4					non-calcareous		15%													
		58	120	SCL	2.5YR5/4					non-calcareous		40%													
A002	LH	0	30	hCL	10YR4/4					non-calcareous	level	8%	4%	3%	HARD				I	2	17.6	6.5	2	WE/DR	2
		30	95	C	10YR4/6	Mn				non-calcareous		5%													
		95	120	C	7.5YR4/4	10YR4/6, Mn	Few			non-calcareous		10%													
A003	LH	0	35	C	10YR4/3					non-calcareous	level	8%	4%	3%	HARD			Yes	I	3a	19.4	7.1	2	WE	3a
		35	68	C	10YR4/4	10YR5/6	Common			non-calcareous		3%													
		68	120	C	Gley 1 5/10Y			Yes	72	non-calcareous		2%													
A004	LH	0	25	C	10YR4/3					moderately calcareous	level	6%	3%	2%	HARD	2%	CHALK		I	2	18.5	5.7	2	WE/DR	2
		25	40	C	10YR4/4	10YR4/6;10YR5/1	Many			very calcareous		3%				15%									
		40	120	IMP																					
A005	ZL	0	30	SCL	10YR4/3					non-calcareous	level	5%	3%	2%					I	1	59.1	26.1	1	WE	1
		30	56	mSL	7.5YR4/4					non-calcareous		0%													
		56	76	fSL	7.5YR4/6	7.5YR6/1;10YR6/8	Few	Yes	76	non-calcareous		0%													
		76	120	hZCL	7.5YR6/1					non-calcareous		0%													
A006	ZL	0	20	mCL	7.5YR4/4	7.5YR6/1;10YR6/8	Few			non-calcareous	level	2%							I	1	32.3	19.4	1	WE	1
		20	65	mCL	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		2%													
		65	120	C	7.5YR6/4					non-calcareous		1%													
A007	ZL	0	30	hCL	7.5YR4/4					non-calcareous	level	1%						Yes	III	3b	18.3	-6.7	2	WE	3b
		30	38	C	7.5YR6/2			Yes	38	non-calcareous															
		38	120	C	7.5YR6/1					non-calcareous															
A008	ZL	0	20	mCL	7.5YR4/4					non-calcareous	gently sloping	5%							I	1	23.6	19.7	2	DR	2
		20	76	mCL	7.5YR6/4					non-calcareous		8%													
		76	88	hCL	2.5YR5/4					non-calcareous		10%													
		88	120	hCL	2.5YR5/4					non-calcareous		40%													

A009	LH	0	30	hCL	10YR4/3					non-calcareous	level	8%	4%	3%	HARD			I	2	36.5	17.2	1	WE	2
		30	65	hCL	10YR4/6	Mn				non-calcareous		5%												
		65	120	hCL	10YR4/6					non-calcareous		20%												
A010	LH	0	26	mCL	10YR4/3					non-calcareous	level	10%	7%	2%	HARD			I	1	23.6	5	2	DR	2
		26	30	hCL	10YR4/6					non-calcareous		10%												
		30	120	hCL	10YR4/6					non-calcareous		25%												
A011	LH	0	28	hCL	10YR4/3					non-calcareous	level	8%	5%	2%	HARD			I	2	32.4	19.8	1	WE	2
		28	65	hCL	10YR5/4					non-calcareous		3%												
		65	105	SCL	10YR5/6	10YR6/8;10YR6/1, Mn	Common			non-calcareous		2%												
		105	120	SCL	Gley 1 5/10Y			Yes	105	non-calcareous		2%												
A012	ZL	0	31	C	7.5YR5/2					non-calcareous	level	3%	2%	1%				I	3a	21.2	8.1	2	WE	3a
		31	53	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very slightly calcareous		1%				1%								
		53	83	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	83	very calcareous		1%				5%	CHALK							
		83	120	C	7.5YR6/3					very calcareous		1%				5%								
A013	ZL	0	29	C	7.5YR4/2					non-calcareous	level	2%	1%					I	3a	21	8.2	2	WE	3a
		29	110	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			non-calcareous		1%												
		110	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			non-calcareous		1%												
A014	ZL	0	30	C	7.5YR4/2					very slightly calcareous	level	3%	2%	1%				I	2	19.1	5.7	2	WE/DR	2*
		30	50	hCL	7.5YR6/4					very calcareous														
		50	95	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	95	very calcareous		1%				10%	CHALK							
		95	120	C	7.5YR6/3					very calcareous		2%				10%								
A015	ZL	0	27	hCL	7.5YR4/2					non-calcareous	gently sloping	2%						I	2	17.5	6	2	WE/DR	2
		27	48	hCL	7.5YR6/4					very slightly calcareous		2%												
		48	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous		5%				10%	CHALK							
A016	ZL	0	28	hCL	7.5YR4/2					non-calcareous	level	2%					Yes	II	2	33	11	1	WE	2
		28	62	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	62-90	non-calcareous														
		62	90	C	7.5YR6/3					non-calcareous														
		90	120	SCL	7.5YR6/4	7.5YR6/1;10YR6/8	Common			non-calcareous														
A017	ZL	0	20	mCL	7.5 YR 4/3					non-calcareous	level	2%						I	1	36.4	19.3	1	WE/DR	1

		20	47	mCL	7.5 YR 4/4				non-calcareous		1%													
		47	83	SCL	7.5 YR 6/6				non-calcareous		1%													
		83	100	C	7.5 YR 6/6	7.5YR6/1;10YR6/8	Few		non-calcareous		1%													
		100	120	hCL	7.5 YR 6/8	7.5YR6/1;10YR6/8	Common		non-calcareous		1%													
A018	ZL	0	20	mCL	5 YR 4/3				non-calcareous	level	5%							I	1	32	19.8	1	WE/DR	1
		20	65	mCL	5 YR 5/4				non-calcareous		0%													
		65	80	SCL	5 YR 5/4				non-calcareous		15%													
		80	120	SCL	5 YR 5/4				non-calcareous		40%													
A019	ZL	0	25	hCL	5 YR 4/3				non-calcareous	level	5%							I	2	15.4	5.5	2	WE/DR	2
		25	48	hCL	5 YR 5/4				non-calcareous		0%													
		48	80	C	7.5YR 6/4	10YR6/8	Few		non-calcareous		2%													
		80	120	hCL	5 YR 5/4				non-calcareous		8%													
A020	JP	0	30	hZCL	7.5 YR 4/6				non-calcareous	level	1%	2%	1%	HARD				I	2	10.6	6.7	2	WE/DR	2
		30	60	hCL	10 YR 4/6				non-calcareous		1%			HARD										
		60	IMP																					2
A021	JP	0	30	mCL	10 YR 4/6				non-calcareous	level	1%	1%	1%	HARD				I	1	29.7	18.6	2	DR	
		30	70	SCL	10 YR 5/6				non-calcareous		5%			HARD										
		70	90	SCL	7.5 YR 5/6				non-calcareous		40%													
		90	120	IMP																				
A022	JP	0	30	mCL	10 YR 4/6				very slightly calcareous	level	1%	2%	<1%	HARD				I	1	13.4	8.3	2	DR	2
		30	65	hCL	10 YR 5/6				very slightly calcareous		1%			HARD										
		65	85	C	7.5 YR 5/6				very slightly calcareous		5%			HARD										
		85	90	C	7.5 YR 5/6				very slightly calcareous		40%													
		90	120	IMP																				
A023	ZL	0	35	C	7.5YR4/3				very slightly calcareous	level	3%	2%	1%					I	2	22.5	9.4	2	DR	2
		35	50	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few		very calcareous		2%				1%	CHALK								
		50	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common		very calcareous		1%				5%									
A024	ZL	0	28	C	7.5YR4/3				very slightly calcareous	level	3%	1%	1%					I	2	18.9	6.7	2	DR	2
		28	85	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common		very calcareous		1%				5%	CHALK								
		85	120	C	7.5YR6/2			Yes	very calcareous		5%				10%									
A025	ZL	0	28	C	7.5YR4/3				non-calcareous	level	2%	1%					Yes	II	3b	20.1	3.8	2	WE	3b

		28	52	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			non-calcareous		1%													
		52	68	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		1%				5%	CHALK								
		68	120	C	7.5YR6/2					very calcareous		1%				5%									
A026	ZL	0	35	C	7.5YR4/2					non-calcareous	gently sloping	3%	2%	1%					I	3a	21.5	9.8	2	WE	3a
		35	48	C	7.5YR6/4					non-calcareous		1%													
		48	88	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous		1%				2%									
		88	95	C	7.5YR6/3			Yes	88-95	very calcareous		1%				5%	CHALK								
		95	120	hCL	10YR7/8					very calcareous		1%				8%									
A027	ZL	0	35	hCL	10YR5/3					non-calcareous	level	1%						Yes	II	3b	26.4	11.4	2	WE	3b
		35	85	hCL	10YR7/6	7.5YR6/1;10YR6/8	Common	Yes	69	non-calcareous		0%													
		85	120	C	10YR7/8					non-calcareous		0%													
A028	ZL	0	35	C	7.5YR4/2					very slightly calcareous	level	3%				1%		Yes	II	3a	21.6	8.7		WE	3a
		35	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	69	very calcareous		2%				5%	CHALK								
		70	120	C	7.5YR6/3					very calcareous		2%				5%									
A029	LH	0	23	C	2.5Y4/2					moderately calcareous	level	2%	1%	<1%	HARD	1%	CHALK	Yes	II	3a	19.3	6.6	3a	WE	3a
		23	64	C	10YR5/4	10YR6/1;10YR5/8, Mn	Few			moderately calcareous		2%				6%									
		64	120	C	Gley 1 5/10Y	10YR4/6	Many	Yes	69	very calcareous		1%				15%									
A030	ZL	0	30	C	7.5YR3/3					non-calcareous	level	3%	2%	1%				Yes	II	3b	19.7	6.6	3b	WE	3b
		30	68	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes		very calcareous		2%				8%									
		68	120	C	7.5YR6/3				68	very calcareous		2%				15%	CHALK								
A031	ZL	0	35	C	7.5YR3/3					non-calcareous	level	2%	1%					Yes	II	3b	22.8	9.3	2	WE	3b
		35	65	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		1%				10%	CHALK								
		65	120	C	7.5YR6/3					very calcareous		1%				15%									
A032	ZL	0	28	C	7.5YR4/3					non-calcareous	level	2%				1%		Yes	II	3b	11.9	4.6	3b	WE	3b
		28	39	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			non-calcareous		2%													
		39	65	C	7.5YR6/4			Yes	65	very calcareous		5%				15%	CHALK								
		65	120	C	7.5YR6/3					very calcareous		5%				15%									
A033	ZL	0	33	hCL	7.5YR4/3					non-calcareous	level								I	2	26.5	13.6	2	WE/DR	2
		33	75	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			non-calcareous		2%													

		75	120	C	7.5YR6/5	7.5YR6/1;10YR6/8	Many			very calcareous		1%				2%	CHALK							
A034	ZL	0	35	SCL	7.5YR3/3					non-calcareous	level								I	1	70	25	1		1
		35	50	SCL	7.5YR7/8	7.5YR6/1; Mn	Few			non-calcareous															
		50	90	fSL	7.5YR7/6	7.5YR6/1;10YR6/8	Common			non-calcareous															
		90	120	LfS	7.5YR7/6	10YR6/8	Few			non-calcareous															
A035		Not surveyed - inaccessible																							2
A036	JP	0	25	SCL	10 YR 4/6					non-calcareous	level	2%	2%	1%	HARD				I	1	6.1	-8.1	2	DR	2
		25	60	SCL	10 YR 5/8					non-calcareous		40%			HARD										
		60	IMP																						
A037	JP	0	25	mZCL	10 YR 4/4					non-calcareous	level	2%	2%	1%	HARD			Yes	II	2	51.7	19.9	1	WE	2
		25	50	SCL	10 YR 5/6					non-calcareous		2%			HARD										
		50	100	SCL	10 YR 5/6	10 YR 6/8; 10 YR 6/1	Many	Yes	65	non-calcareous		1%			HARD										
		100	120	mZCL	10 YR 5/4	10 YR 6/1	Common			non-calcareous		1%			HARD										
A038	JP	0	30	mZCL	2.5 Y 3/2					very slightly calcareous	level	2%	1%	1%	HARD			Yes	II	2	35.3	10.4	1	WE	2
		30	60	hZCL	2.5 Y 4/3	10 YR 5/8; 10 YR 6/1	Many	Yes	55	very slightly calcareous		1%			HARD										
		60	90	hZCL	10 YR 5/1			Yes		moderately calcareous		1%			HARD										
		90	120	IMP																					
A039	LH	0	32	hCL	2.5Y4/3					non-calcareous	level	5%	3%	1%	HARD				I	2	50.5	23.5	1	WE	2
		32	50	hCL	10YR5/6	7.5YR5/8	Few			non-calcareous		2%													
		50	95	SCL	10YR5/8	7.5YR5/8, Mn	Few			non-calcareous		1%													
		95	120	SCL	10YR5/8					non-calcareous		1%													
A040	LH	0	21	hCL	2.5Y4/3					moderately calcareous	gently sloping	3%	2%	1%	HARD	2%	CHALK	Yes	II	2	19.5	7.3	2	WE/DR	2
		21	68	C	10YR4/4	10YR5/8;10YR6/1, Mn	Few			moderately calcareous		2%				5%									
		68	95	C	Gley 1 5/10Y	10YR4/6	Very Many	Yes	68	very calcareous		2%				12%									
		95	120	IMP																					
A041	LH	0	32	hCL	2.5Y4/3					moderately calcareous	level	4%	2%	1%	HARD	1%	CHALK		I	2	24.8	12.6	2	WE/DR	2
		32	80	C	2.5Y5/4	7.5Y5/6	Few			very calcareous		2%				8%									
		85	120	C	Gley 1 5/10Y	10YR4/6	Very Many	Yes	80	very calcareous		2%				15%									

A042	LH	0	22	C	2.5Y4/3					slightly calcareous	level	3%	2%	1%	HARD			Yes	II	3a	18.8	6.5	2	WE	3a
		22	50	C	1.5Y5/4	10YR4/6, Mn	Few			moderately calcareous		2%				1%	CHALK								
		50	120	C	Gley 1 5/10Y	10YR5/8	Many	Yes	68	very calcareous		2%				8%									
A043	LH	0	34	C	10YR4/3					non-calcareous	level	3%	2%	1%	HARD				I	3a	22.5	10.8	2	WE	3a
		34	120	C	10YR4/6	10YR5/8, Mn	Few			non-calcareous		3%													
A044	LH	0	32	C	2.5Y4/3					moderately calcareous	gently sloping	2%	1%	<1%	HARD				I	2	22.9	10.3	2	WE/DR	2
		32	70	C	10YR5/4	10YR5/6;10 YR6/1, Mn	Few			very calcareous		2%				6%	CHALK								
		70	120	C	Gley 1 5/10Y	10YR5/8, Mn	Many	Yes	80	very calcareous		1%				12%									
A045	JP	0	30	C	10 YR 4/3					slightly calcareous	level	1%	2%	<1%	HARD			Yes	II	3a	24.2	3.1	2	WE/DR	3a
		30	70	C	10 YR 4/6	10 YR 5/8; 10 YR 6/1	Many	Yes	55	very calcareous		1%			HARD	15%	CHALK								
		70	120	IMP																					
A046	LH	0	28	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD	1%	CHALK	Yes	II	3b	22	10	2	WE	3b
		28	38	C	10YR5/4	10YR5/8;10 YR5/1, Mn	Common			very calcareous		3%				4%									
		38	120	C	Gley 1 5/10Y	10YR5/8	Very Many	Yes	58	very calcareous		2%				10%									
A047	ZL	0	31	C	7.5YR4/3					non-calcareous	level	3%	2%	1%				Yes	II	3b	20	6.8	2	WE	3b
		31	68	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		2%				10%	CHALK								
		68	120	C	7.5YR6/3					very calcareous		2%				15%									
A048	LH	0	25	hCL	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD				I	2	97.2	38.3	1	WE	2
		25	32	hCL	10YR4/3					non-calcareous		2%													
		32	48	hCL	7.5YR5/6	7.5YR6/8, Mn	Few			non-calcareous		1%													
		48	105	fSL	7.5YR5/6					non-calcareous		1%													
		105	120	SCL	7.5YR5/6					non-calcareous		1%													
A049	LH	0	28	hCL	10YR4/3					non-calcareous	level	4%	3%	1%	HARD				I	2	38	18.7	1	WE	2
		28	50	SCL	7.5YR4/6	7.5YR5/8	Few			non-calcareous		3%													
		50	62	C	7.5YR5/6	7.5YR5/8, Mn	Few			non-calcareous		3%													
		62	75	SCL	7.5YR4/6					non-calcareous		15%													
		75	120	IMP																					
A050	ZL	0	19	fSL	5YR4/6					non-calcareous	level	1%							I	1	29.1	14.1	1		1
		19	40	fSL	5YR6/6					non-calcareous															

		40	65	SCL	5YR6/8	7.5YR6/1;10YR6/8	Common			non-calcareous		10%												
		65	120	hCL	7.5YR6/4					non-calcareous		2%												
A051	ZL	0	22	mCL	7.5YR2.5/2					non-calcareous	level	2%						Yes	III	2	42.4	33.3	1	Flood	3b
		22	45	mCL	7.5YR6/2					non-calcareous		1%												
		45	108	hCL	7.5YR6/2			Yes	22-108	non-calcareous		2%												
		108	120	hCL	7.5YR6/4					non-calcareous		40%												
A052	LH	0	28	mCL	7.5YR4/4					non-calcareous	level	10%	10%	4%	HARD				I	1	14	-6.7	2	DR	2
		28	40	SCL	7.5YR4/4					very slightly calcareous		40%												
		40	100	SCL	7.5YR5/4					moderately calcareous		40%												
		100	120	SCL	10YR5/4					moderately calcareous		5%												
A053	LH	0	25	mCL	10YR4/3					non-calcareous	level	8%	5%	2%	HARD				I	1	13.1	-7.6	2	DR	2
		25	100	SCL	7.5YR4/4					moderately calcareous		40%												
		100	120	SCL	10YR5/4					moderately calcareous		5%												
A054		0																						2
		0																						
		0	120																					
A055	JP	0	30	C	10 YR 4/4					non-calcareous	level	1%	5%	2%	HARD			Yes	II	3b	21.1	4.7	2	WE	3b
		30	50	C	10 YR 4/6	10 YR 6/8; 10 YR 6/1	Common			very calcareous		2%			HARD									
		50	120	C	10 YR 4/6	10 YR 6/8; 10 YR 6/1	Many	Yes	65	very calcareous		2%			HARD	15%	CHALK							
A056	JP	0	30	C	10 YR 4/4					very slightly calcareous	level	2%	4%	1%	HARD				I	2	21	6.2	2	WE/DR	2
		30	120	C	10 YR 4/6	10 YR 5/8; 10 YR 6/1	Common			moderately calcareous		1%			HARD	5%	CHALK							
A057	JP	0	30	C	10 YR 4/4					slightly calcareous	level	10%	5%	2%	HARD			Yes	II	3a	17.2	2.1	2	WE	3a
		30	65	C	10 YR 4/6					very calcareous		1%			HARD	5%	CHALK							
		65	120	C	10 YR 4/6	10 YR 5/8; 10 YR 6/1	Many	Yes	69	very calcareous		1%			HARD	5%	CHALK							
A058	JP	0	30	hCL	10 YR 4/4					slightly calcareous	level	1%	3%	2%	HARD				I	2	23.5	5.8	2	WE/DR	2
		30	100	C	10 YR 4/6	10 YR 5/8; 10 YR 6/1	Common			very calcareous		2%			HARD	15%	CHALK							
		100	120	IMP																				
A059	JP	0	25	hCL	10 YR 4/4					slightly calcareous	level	2%	3%	1%	HARD				I	2	20.8	5.6	2	WE/DR	2

		25	80	C	10 YR 4/6	10 YR 6/8; 10 YR 6/1	Common			very calcareous		2%			HARD	5%	CHALK								
		80	120	IMP																					
A060	ZL	0	35	hCL	7.5YR4/3														I	2	26.8	14.2	2	WE/DR	2
		35	90	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very slightly calcareous	level	3%													
		90	120	C	7.5YR6/3			Yes	90	very calcareous		2%				15%	CHALK								
A060a	ZL	0	35	C	7.5YR4/3	7.5YR6/1;10YR6/8	Few			very calcareous		2%				5%			I	2	22.2	9.2	2	WE/DR	2
		35	93	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			non-calcareous	level	1%													
		93	120	C	7.5YR6/4					non-calcareous															
A061	ZL	0	30	hCL	7.5YR4/3					very slightly calcareous	level	2%				2%	CHALK		I	2	23.5	11	2	WE/DR	2
		30	75	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			non-calcareous		1%													
		75	90	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	90	very slightly calcareous		2%				5%	CHALK								
		90	120	C	7.5YR6/3					very calcareous		2%				5%									
A062	JP	0	30	C	10 YR 4/3					non-calcareous	level	2%	1%	<1%	HARD				I	3a	18.9	3.8	2	WE/DR	3a
		30	60	C	2.5 Y 5/6	10 YR 5/8; 10 YR 6/1	Common			very calcareous		1%			HARD	40%	CHALK								
		60	IMP																						
A063	LH	0	27	C	10YR4/3					moderately calcareous	level	5%	3%	1%	HARD	1%	CHALK	Yes	II	3a	21.7	9.8	2	WE	3a
		27	64	C	10YR5/4	10YR5/8;10YR5/1	Few			moderately calcareous		1%				2%									
		64	120	C	Gley 1 5/10Y	10YR5/8	Very Many	Yes	64	very calcareous		1%				10%									
A064	JP	0	30	C	10 YR 4/4					non-calcareous	level	2%	2%	1%	HARD				I	3a	18.2	7.7	2	WE	3a
		30	50	C	10 YR 4/3					slightly calcareous		5%			HARD										
		50	90	C	2.5 Y 5/6	10 YR 6/8; 10 YR 6/1	Common			very calcareous		2%			HARD	20%	CHALK								
		90	120	IMP																					
A065	LH	0	28	C	10YR4/3					non-calcareous	level	6%	3%	2%	HARD				I	3a	19.1	6.7	2	WE/DR	3a
		28	52	C	10YR5/4	10YR5/8;10YR5/1	Many			very calcareous		2%				15%	CHALK								
		52	120	C	Gley 1 5/10Y	10YR5/8	Many	Yes	80	very calcareous		2%				15%									
A066	LH	0	22	mCL	7.5YR3/2					non-calcareous	level	6%	3%	2%	HARD				I	1	29.1	12.8	2	DR	2
		22	35	mCL	7.5YR3/2					non-calcareous		6%													
		35	64	SCL	7.5YR4/3					non-calcareous		10%													
		64	90	SCL	7.5YR4/3					non-calcareous		30%													
		90	120	IMP																					

A067	LH	0	34	SCL	7.5YR3/2				non-calcareous	level	10%	5%	3%	HARD			I	1	13.8	-0.9	2	DR	2
		34	65	LcS	7.5YR4/3				non-calcareous		6%												
		65	120	IMP																			
A068	LH	0	34	C	10YR4/2				non-calcareous	level	6%	3%	2%	HARD			I	3a	20.9	8.6	2	WE/DR	3a
		34	68	C	10YR5/3	10YR5/6;10YR6/1	Few		very calcareous		2%				10%	CHALK							
		68	120	C	10YR5/1	10YR5/6;10YR6/1	Common		very calcareous		2%				15%								
A069	LH	0	28	C	10YR4/2				non-calcareous	level	5%	3%	2%	HARD			I	3a	19.6	7.1	2	WE/DR	3a
		28	49	C	10YR5/3				very calcareous		3%				5%	CHALK							
		49	85	C	10YR5/3	10YR5/6;10YR6/1	Few		very calcareous		3%				15%								
		85	120	C	10YR5/3	10YR5/6;10YR6/1, Mn	Common		very calcareous		2%				15%								
A070	LH	0	31	C	10YR4/2				moderately calcareous	level	6%	3%	2%	HARD	1%	CHALK	Yes	II	3a	20.5	8.2	2	WE	3a
		31	58	C	10YR5/3	Mn	Few		very calcareous		3%				8%								
		58	120	C	10YR5/3	10YR5/6;10YR6/1	Many	Yes	65	very calcareous		2%				15%								
A071	ZL	0	37	C	7.5YR4/3				very slightly calcareous	gently sloping	2%						I	2	22.8	9.5	2	WE/DR	2
		37	65	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few		very calcareous		2%				15%	CHALK							
		65	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common		very calcareous		2%				5%								
A072	ZL	0	37	C	7.5YR4/3				very slightly calcareous	level	3%	2%	1%				I	2	22.8	9.6	2	WE/DR	2
		37	85	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	85	very calcareous		1%			10%								
		85	120	C	7.5YR6/3				very calcareous		2%				5%	CHALK							
A073	ZL	0	35	hCL	10YR4/3				very slightly calcareous	level	3%	2%	1%				I	2	26.2	12.8	2	WE/DR	2
		35	72	C	10YR6/8	7.5YR6/1;10YR6/8	Common		very calcareous		1%				5%	CHALK							
		72	120	hZCL	10YR6/6	7.5YR6/1;10YR6/8	Common		very calcareous														
A074	ZL	0	36	hCL	7.5YR4/3				non-calcareous	level	3%	2%	1%				I	2	40.6	10.8	1	WE	2
		36	70	hCL	10YR7/8	7.5YR6/1;10YR6/8	Few		non-calcareous														
		70	90	SCL	10YR7/6				very slightly calcareous														
		90	120	SCL	10YR7/6				very calcareous						2%	CHALK							
A075	JP	0	30	C	10 YR 4/3				non-calcareous	level	2%	1%	1%	HARD			I	3a	19.5	5.7	2	WE	3a
		30	100	C	2.5 Y 5/3	10 YR 6/1	Common		very calcareous		2%			HARD	20%	CHALK							
		100	IMP																				
A076	JP	0	30	mCL	10 YR 4/3				non-calcareous	level	2%	1%	1%	HARD			I	1	7.1	3.9	2	WE/DR	2

		30	65	hCL	10 YR 4/3					non-calcareous		5%			HARD									
		65	70	C	10 YR 4/3					non-calcareous		40%												
		70	IMP																					
A077	JP	0	30	hCL	10 YR 4/3					non-calcareous	level	2%	2%	1%	HARD				I	2	13.3	8	2	WE/DR	2
		30	55	SCL	10 YR 4/4					non-calcareous		10%			HARD									
		55	70	SCL	10 YR 4/4					non-calcareous		40%												
		70	IMP																					
A078	ZL	0	35	C	7.5YR4/3					non-calcareous	level	3%	2%	1%				Yes	II	3b	22.7	9.9	2	WE	3b
		35	70	C	7.5YR5/3	7.5YR6/1;10YR6/8	Many	Yes	69	very slightly calcareous		1%												
		70	120	C	7.5YR6/3					very calcareous		1%				5%								
A079	ZL	0	35	C	7.5YR5/4					non-calcareous	gently sloping	2%	1%			5%		Yes	II	3b	22	9.1	2	WE	3b
		35	70	C	7.5YR5/6	7.5YR6/1;10YR6/8	Many	Yes	65	very slightly calcareous		1%												
		70	120	C	7.5YR5/6					very calcareous		1%				2%								
A080	ZL	0	29	C	7.5YR3/4					non-calcareous	level	3%	1%					Yes	II	3b	17.4	7.1	2	WE	3b
		29	45	C	7.5YR5/4	10YR6/8; Mn	Few	Yes	65	very slightly calcareous		1%				5%	CHALK							
		45	85	C	7.5YR5/3					very calcareous		1%				5%								
		85	120	C						very calcareous														
A081	LH	0	26	C	10YR3/2					moderately calcareous	level	4%	2%	1%	HARD				I	2	20.4	8.4	2	WE/DR	2
		26	90	C	10YR5/4	10YR5/6;10YR6/1	Many	Yes	80?	very calcareous		2%				10%	CHALK							
		90	120	IMP																				
A082	ZL	0	35	C	7.5YR4/2					very slightly calcareous	gently sloping	3%	2%	1%				Yes	II	3a	22.3	9	2	WE	3a
		35	67	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few	Yes	67	very calcareous		1%				8%								
		67	120	C	7.5YR6/2					very calcareous		1%				15%	CHALK							
A083	ZL	0	32	C	7.5YR4/2					non-calcareous	level	2%							II	3b	21.4	8.9	2	WE	3b
		32	98	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few	Yes	70	non-calcareous		2%												
		98	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very calcareous		2%				5%	CHALK							
A084	ZL	0	35	C	7.5YR4/2					non-calcareous	level	2%						Yes	III	3b	23.8	10.9	3b	WE	3b
		35	105	C	7.5YR6/3			Yes	45	non-calcareous		0%												
		105	120	C	7.5YR6/3					very calcareous		1%				5%	CHALK							
A085	ZL	0	38	C	7.5YR4/2					very slightly calcareous	level	2%				1%			I	2	23.8	10.4	2	WE/DR	2
		38	95	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous		1%				10%	CHALK							

		95	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous		1%				10%								
A086	JP	0	30	hCL	10 YR 4/3					non-calcareous	level	1%	1%	1%	HARD				I	2	26.9	11.1	2	WE/DR	2
		30	60	SCL	10 YR 4/3					non-calcareous		2%			HARD										
		60	70	SCL	10 YR 4/3					non-calcareous		40%													
		70	IMP																						
A087	ZL	0	31	C	7.5YR4/2					very calcareous	gently sloping	3%	1%	1%				Yes	II	3a	20.5	2.9	2	WE	3a
		31	66	C	7.5YR5/6	7.5YR6/1;10YR6/8	Many			very calcareous		2%				5%									
		66	120	C	7.5YR5/3			Yes	65	very calcareous		2%				3%	CHALK								
A088	LH	0	29	C	10YR4/2					non-calcareous	level	3%	2%	1%	HARD				I	3a	25.6	14.2	2	WE	3a
		29	64	C	10YR5/3	10YR5/1;10YR4/6, Mn	Common			moderately calcareous		2%				2%	CHALK								
		64	75	C	10YR5/3	10YR5/1;10YR4/6, Mn	Common			very calcareous		2%				8%									
		75	120	IMP																					
A089	LH	0	28	C	2.5Y4/2					non-calcareous	level	4%	2%	1%	HARD			Yes	I	3a	24.5	12.5	2	WE	3a
		28	65	C	10YR5/4	10YR4/6;10YR5/1, Mn	Few			very calcareous		2%				5%	CHALK								
		65	120	C	Gley 1 5/10Y	10YR5/4	Many	Yes	75	very calcareous		1%				8%									
A090	LH	0	28	C	2.5Y4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	22.8	11.3	2	WE	3a
		28	70	C	2.5Y4/3	10YR4/6;10YR5/1	Few			moderately calcareous		1%				3%	CHALK								
		70	90	C	2.5Y4/3	10YR4/6;10YR5/1	Common			very slightly calcareous		2%				8%									
		90	120	IMP																					
A091	LH	0	32	C	2.5Y4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	25.1	13.3	2	WE	3a
		32	79	C	2.5Y4/3	10YR5/6, Mn	Few			slightly calcareous		1%				1%	CHALK								
		79	120	C	2.5Y4/3	10YR4/6;10YR5/1	Many			very calcareous		1%				10%									
A092	LH	0	27	C	2.5Y4/2					non-calcareous	gently sloping	2%	1%	<1%	HARD			Yes	II	3b	21.8	9.7	2	WE	3b
		27	55	C	10YR5/4	10YR5/6	Few			very calcareous		2%				4%	CHALK								
		55	90	C	10YR5/4	10YR4/6;10YR5/1	Many	Yes	65	very calcareous		1%				6%									
		90	120	C	10YR5/4	10YR5/1	Very Many			very calcareous		1%				6%									
A093	LH	0	35	hCL	2.5Y4/2					moderately calcareous	level	3%	2%	1%	HARD	1%	CHALK	Yes	I	2	27.1	15.2	2	WE/DR	2
		35	75	C	2.5Y4/2	10YR5/6;10YR6/1				very calcareous		2%				6%									
		75	120	C	2.5Y4/2	10YR6/1	Very Many	Yes	75	very calcareous		2%				8%									

A094	LH	0	27	C	10YR4/2					non-calcareous	gently sloping	3%	2%	1%	HARD				I	3a	22.8	10.6	2	WE	3a
		27	120	C	10YR5/4	10YR5/6;10 YR5/1	Common	Yes	85	very calcareous		2%				12%	CHALK							
A095	LH	0	28	C	10YR4/2					non-calcareous	gently sloping	4%	3%	1%	HARD				I	3a	21.2	9.4	2	WE	3a
		28	52	C	10YR5/4	10YR5/1;10 YR5/6	Few			very calcareous		2%				8%	CHALK							
		52	120	C	10YR5/3	10YR5/1;10 YR5/6	Common	Yes	80	very calcareous		2%				10%								
A096	LH	0	28	C	10YR4/2					non-calcareous	level	3%	2%	<1%	HARD			Yes	I	3a	22.3	10.8	2	WE	3a
		28	60	C	10YR5/4	10YR5/1;10 YR5/6	Few			very calcareous		2%				6%	CHALK							
		60	120	C	10YR5/4	10YR5/1;10 YR5/6	Many	Yes	78	very calcareous		2%				10%								
A097	LH	0	28	C	10YR4/2					moderately calcareous	level	3%	2%	<1%	HARD			Yes	II	3a	22.3	10.6	2	WE	3a
		28	58	C	10YR5/3	10YR5/1;10 YR5/6	Few			very calcareous		2%				6%	CHALK							
		58	120	C	10YR5/3	10YR5/1;10 YR5/6	Many	Yes	65	very calcareous		2%				15%								
A098	JP	0	30	hCL	10 YR 4/4					non-calcareous	level	1%	4%	1%	HARD			Yes	II	3a	21.5	6.4	2	WE	3a
		30	90	hCL	2.5 Y 4/4	10 YR 6/8; 10 YR 6/1	Many	Yes	60	moderately calcareous		2%			HARD	15%	CHALK							
		90	120	IMP																				
A099	JP	0	30	hCL	10 YR 4/3					non-calcareous	level	1%	5%	2%	HARD			Yes	II	3a	22.4	7.2	2	WE	3a
		30	50	hCL	10 YR 5/6					slightly calcareous		2%			HARD										
		50	80	C	2.5 Y 5/4	10 YR 5/8	Common			slightly calcareous		2%			HARD	10%	CHALK							
		80	120	C	2.5 Y 4/4	10 YR 5/8; 10 YR 6/1	Very Many	Yes	69	moderately calcareous		1%			HARD	15%	CHALK							
A100	JP	0	25	C	10 YR 4/3					non-calcareous	level	1%	5%	1%	HARD			Yes	I	3a	18.1	5.4	2	WE	3a
		25	45	C	2.5Y 5/6					slightly calcareous		2%			HARD	3%	CHALK							
		45	70	C	2.5 Y 5/4					moderately calcareous		4%			HARD	5%	CHALK							
		70	120	C	2.5 Y 4/4	10 YR 6/8; 10 YR 6/1	Very Many	Yes	75	moderately calcareous		3%			HARD	10%	CHALK							
A101	LH	0	21	C	2.5Y4/2					moderately calcareous	level	3%	2%	1%	HARD				I	2	19.2	7.2	2	WE/DR	2
		21	34	C	1.5Y4/2					moderately calcareous		1%				1%	CHALK							
		34	50	C	10YR4/4					moderately calcareous		1%				2%								
		50	88	C	2.5Y5/3	7.5YR4/4, Mn	Many			very calcareous		2%				8%								
		88	120	C	2.5Y5/1			Yes	90	very calcareous		2%				8%								
A102	JP	0	30	C	10 YR 4/4					non-calcareous	level	3%	3%	1%	HARD			Yes	II	3b	20.5	7.9	2	WE	3b

		30	60	C	10 YR 5/8					non-calcareous		1%			HARD									
		60	120	C	10 YR 5/8	10 YR 6/8; 10 YR 6/1	Many	Yes	60	non-calcareous		2%			HARD									
A103	JP	0	30	C	10 YR 4/4					non-calcareous	level	1%	3%	<1%	HARD			Yes	II	3b	21.1	8.6	2	WE	3b
		30	110	C	2.5Y 5/4	10 YR 5/8; 10 YR 6/1	Many	Yes	60	non-calcareous		2%			HARD									
		110	120																					
A104	LH	0	28	hCL	10YR4/3					moderately calcareous	gently sloping	3%	2%	1%	HARD				I	2	23.8	12.1	2	WE/DR	2*
		28	78	C	10YR5/4	10YR5/6;10 YR5/1, Mn	Few			very calcareous		2%				4%	CHALK							
		78	120	C	10YR5/4	10YR5/1;7. 5YR4/6, Mn	Common	Yes	80	very calcareous		2%				10%								
A105	LH	0	30	C	10YR4/2					non-calcareous	gently sloping	3%	2%	1%	HARD				I	3a	22.9	11.4	2	WE	3a
		30	50	C	10YR5/4	10YR5/6;10 YR5/1	Few			very calcareous		2%				6%	CHALK							
		50	120	IMP																				
A106	LH	0	28	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			Yes	I	3a	23.7	11.9	2	WE	3a
		28	49	C	10YR4/4					very calcareous		1%				5%	CHALK							
		49	85	C	10YR4/4	10YR5/6;10 YR5/1, Mn	Many	Yes	75	very calcareous		1%				10%								
		85	120	C	10YR4/4	10YR5/1, Mn	Very Many			very calcareous		1%				12%								
A107	ZL	0	30	C	7.5YR4/3					non-calcareous	level	3%	2%	1%				Yes	II	3b	18	3.9	2	WE	3b
		30	58	C	7.5YR6/4	7.5YR6/1	Many	Yes	58	very calcareous		2%				15%	CHALK							
		58	120	C	7.5YR6/3					very calcareous		15%				15%								
A108	ZL	0	28	C	7.5YR4/3					non-calcareous	gently sloping	5%	3%	1%				Yes	II	3b	13.8	6	2	WE	3b
		28	43	C	7.5YR6/4					non-calcareous		2%												
		43	80	C	7.5YR6/3	7.5YR6/1;1 0YR6/8	Common	Yes	65	very calcareous		2%												
		80	120	C	7.5YR6/3					very calcareous		20%				5%	CHALK							
A109	ZL	0	27	C	7.5YR4/3					non-calcareous	gently sloping	2%							I	3a	20.5	7.7	2	WE	3a
		27	50	C	7.5YR6/4					non-calcareous		0%												
		50	120	C	7.5YR6/4	7.5YR6/1;1 0YR6/8; Mn	Common			non-calcareous		1%												
A110	LH	0	20	C	2.5Y4/2					non-calcareous	level	3%	2%	1%	HARD				I	3a	18.9	6.4	2	WE	3a
		20	46	C	7.5YR4/3					non-calcareous		2%												

		46	75	C	10YR5/4	10YR6/1;10 YR5/8	Many			very calcareous		2%				12%	CHALK							
		75	120	C	10YR5/4	10YR5/1	Many	Yes	85	very calcareous		1%				15%								
A111	JP	0	30	C	10 YR 4/4					non-calcareous	level	1%	5%	1%	HARD			Yes	II	3b	21.5	10.9	2	WE	3b
		30	60	C	10 YR 4/6	10 YR 5/8	Common			non-calcareous		2%			HARD									
		60	120	C	10 YR 5/3	10 YR 6/1	Very Many	Yes	69	moderately calcareous		1%			HARD	20%	CHALK							
A112	JP	0	30	C	10 YR 4/4					non-calcareous	level	1%	3%	1%	HARD				I	3a	17.6	6.5	2	WE	3a
		30	60	C	10 YR 5/8					moderately calcareous		1%			HARD									
		60	90	C	10 YR 5/8	10 YR 6/1	Many			moderately calcareous		2%			HARD	10%	CHALK							
		90	120	IMP																				
A113	JP	0	30	C	10 YR 4/4					non-calcareous	level	3%	3%	1%	HARD			Yes	II	3b	18.1	6.7	2	WE	3b
		30	65	C	10 YR 5/8					very calcareous		3%			HARD									
		65	70	C	2.5 YR 5/2					very calcareous		10%			HARD	2%	CHALK							
		70	90	C	2.5 R 5/2	gley 1 4/10Y	Very Many	Yes	69	very calcareous		15%			HARD	5%	CHALK							
		90	120	C	gley 1 4/10Y					very calcareous		1%			HARD	5%	CHALK							
A114	LH	0	24	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD				I	3a	20.3	8.8	2	WE	3a
		24	75	C	10YR4/4	10YR5/6;10 YR5/1	Few			non-calcareous		2%												
		75	120	IMP																				
A115	LH	0	30	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	23.6	12	2	WE	3a
		30	55	C	10YR5/4	10YR5/6, Mn	Few			non-calcareous		1%												
		55	120	IMP																				
A116	LH	0	31	C	10YR4/2					non-calcareous	gently sloping	3%	2%	1%	HARD				I	3a	23.1	11.4	2	WE	3a
		31	55	C	10YR5/4	10YR5/6	Few			very calcareous		2%				4%	CHALK							
		55	120	C	10YR5/4	10YR5/6;10 YR5/1	Common			very calcareous		2%				10%								
A117	LH	0	31	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	25.1	13.4	2	WE	3a
		31	55	C	10YR4/4					moderately calcareous		1%				3%	CHALK							
		55	120	IMP																				
A118	ZL	0	32	C	7.5YR3/3					non-calcareous	level	2%							I	3a	17.4	9.1	2	WE	3a
		32	70	C	7.5YR6/4	7.5YR6/1;1 0YR6/8	Few			very calcareous		1%				2%	CHALK							
		70	120	C	7.5YR6/4	7.5YR6/1;1 0YR6/8	Common			very calcareous		15%				10%								
A119	ZL	0	28	C	7.5YR3/3					non-calcareous	gently sloping	2%							I	3a	20.5	6.8	2	WE	3a
		28	50	C	7.5YR6/4					very slightly calcareous		1%				2%	CHALK							

		50	120	C	7.5YR6/4	7.5YR6/1	Common			very calcareous		1%				15%								
A120	LH	0	15	C	2.5Y4/2					non-calcareous	level	6%	3%	2%	HARD				I	3a	15.7	3.8	2	WE	3a
		15	35	C	2.5Y5/3					very calcareous		3%				2%	CHALK							
		35	58	C	10YR4/4	10YR6/1;10 YR5/8	Few			very calcareous		3%				5%								
		58	85	C	10YR5/4	10YR6/1;10 YR5/8	Common			very calcareous		2%				10%								
		85	120	C	Gley 1 5/10Y			Yes	85	very calcareous		2%				10%								
A121	LH	0	22	C	2.5Y4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	19.8	8	2	WE	3a
		22	89	C	10YR5/4	Mn	Few			moderately calcareous		2%				2%	CHALK							
		89	120	C	10YR5/4	10YR6/1;10 YR5/8, Mn	Common			very calcareous		1%				6%								
A122	JP	0	30	C	10 YR 4/4					slightly calcareous	level	2%	5%	1%	HARD			Yes	II	3a	21.3	8.5	2	WE	3a
		30	60	C	10 YR 4/6					slightly calcareous		1%			HARD									
		60	80	C	10 YR 4/6	10 YR 6/8	Very Many	Yes	65	moderately calcareous		1%			HARD									
		80	120	C	10 YR 5/3	10 YR 6/1	Very Many			moderately calcareous		1%			HARD	5%	CHALK							
A123	LH	0	22	C	2.5Y4/2					non-calcareous	level	5%	2%	2%	HARD	1%	CHALK		I	3a	17.7	5.3	2	WE	3a
		22	58	C	10YR4/4	10YR5/6;10 YR6/1	Few			very calcareous		2%				5%								
		58	120	C	10YR5/4	10YR6/1	Many	Yes	85	very calcareous		2%				15%								
A124	LH	0	18	C	2.5Y4/2					non-calcareous	gently sloping	8%	4%	3%	HARD				I	3a	13.8	1.2	2	WE	3a
		18	38	C	2.5Y4/2					moderately calcareous		4%				2%	CHALK							
		38	50	C	10YR5/4	10YR5/6, Mn	Few			very calcareous		3%				3%								
		50	70	C	10YR4/4					very calcareous		8%				35%								
		70	120	IMP																				
A125	LH	0	29	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD				I	3a	22.9	11.3	2	WE	3a
		29	75	C	10YR5/4	Mn				very slightly calcareous		1%												
		75	120	IMP																				
A126	LH	0	28	hCL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD	1%	CHALK	Yes	II	3a	21.4	9.5	2	WE	3a
		28	60	C	10YR5/4	10YR5/6;10 YR5/1	Few			very calcareous		2%				6%								
		60	120	C	10YR5/4	10YR5/6;10 YR5/1	Common	Yes	68	very calcareous		2%				12%								
A127	ZL	0	35	C	7.5YR4/3					very slightly calcareous	gently sloping	2%				1%		Yes	II	3a	21.9	8.7	2	WE	3a
		35	70	C	5YR5/8	7.5YR6/1	Common	Yes	69	very calcareous		2%				10%	CHALK							
		70	120	C	7.5YR6/3					very calcareous		2%				10%								

A128	ZL	0	28	C	7.5YR3/4					very slightly calcareous	level	2%						Yes	II	3a	17.8	14.6	2	WE	3a
		28	65	C	7.5YR6/4	7.5YR6/1	Common	Yes	65	very calcareous		1%				5%	CHALK							
		65	120	C	7.5YR6/2					very calcareous		8%				10%								
A129	ZL	0	29	C	7.5YR3/4					non-calcareous	level	3%	2%	1%		2%			I	3a	19.8	13.2	2	WE	3a
		29	86	C	7.5YR6/4	7.5YR6/1	Common	Yes	86	very calcareous		1%				5%	CHALK							
		86	120	C	7.5YR6/3					very calcareous		1%				5%								
A130	ZL	0	32	C	5YR4/3					non-calcareous	level	2%						Yes	III	3b	19.3	9.5	2	WE	3b
		32	45	C	7.5YR6/4	7.5YR6/1	Few	Yes	45	non-calcareous														
		45	85	C	7.5YR6/3					non-calcareous		1%												
		85	120	C	7.5YR6/3					very calcareous		1%				10%	CHALK							
A131	ZL	0	28	C	7.5YR4/3					non-calcareous	level	2%							I	3a	17.9	7.5	2	WE	3a
		28	45	C	7.5YR6/4					non-calcareous		0%												
		45	63	C	7.5YR6/4					very calcareous		1%				5%	CHALK							
		63	120	C	7.5YR5/3	7.5YR6/1	Many			very calcareous		1%				10%								
A132	LH	0	22	C	2.5Y4/2					slightly calcareous	level	4%	2%	1%	HARD			Yes	II	3a	18.6	7.1	2	WE	3a
		22	64	C	10YR5/4	7.5YR4/6;10YR5/1, Mn	Common			moderately calcareous		2%				3%	CHALK							
		64	80	C	10YR5/4	7.5YR4/6;10YR5/1	Many	Yes	65	very calcareous		3%				12%								
		80	120	C	10YR5/4	7.5YR4/6;10YR5/1	Many			very calcareous		3%				15%								
A133	LH	0	15	C	10YR4/3					moderately calcareous	level	3%	2%	<1%	HARD	1%	CHALK	Yes	II	3a	16.9	4.8	2	WE	3a
		15	35	C	10YR4/3					moderately calcareous		2%				1%								
		35	65	C	10YR4/4	7.5YR4/6, Mn	Few			moderately calcareous		2%				3%								
		65	120	C	10YR5/3	10YR6/1, Mn	Many	Yes	69	very calcareous		1%				10%								
A134	LH	0	18	C	2.5Y4/2					non-calcareous	level	3%	2%	<1%	HARD	1%	CHALK		I	3a	19.6	7.6	2	WE	3a
		18	41	C	2.5Y5/3					moderately calcareous		1%				2%								
		41	62	C	10YR4/4	10YR6/6;10YR6/1, Mn	Few			moderately calcareous		1%				5%								
		62	120	C	10YR5/4	10YR6/1	Common	Yes	80	very calcareous		2%				12%								
A135	ZL	0	37	hCL	7.5YR4/3					very slightly calcareous	gently sloping	3%							I	2	24.9	11.6	2	WE/DR	2*
		37	80	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very calcareous		5%				10%	CHALK							
		80	120	C	7.5YR6/3	7.5YR6/1;10YR6/8	Common			very calcareous		2%				5%								

A136	ZL	0	28	hCL	7.5YR4/3				non-calcareous	level	2%						I	2	18.9	6.4	2	WE/DR	2
		28	95	hCL	7.5YR6/4				non-calcareous		1%												
		95	120	C	5YR6/4				non-calcareous		15%												
A137	ZL	0	32	C	7.5YR3/4				very calcareous	gently sloping	3%				2%		I	2	15.7	6.6	2	WE/DR	2
		32	40	C	7.5YR4/3				very calcareous		2%				5%								
		40	68	C	7.5YR6/4	7.5YR6/1	Common		very calcareous		2%				10%	CHALK							
		68	120	C	7.5YR6/4	7.5YR6/1	Common		very calcareous		15%				10%								
A138	ZL	0	30	C	7.5YR4/3				non-calcareous		2%						I	3a	18.9	7.7	2	WE	3a
		30	47	C	7.5YR6/4				very slightly calcareous		2%					CHALK							
		47	120	C	5YR6/4	7.5YR6/1	Common		very calcareous		2%				6%								
A139	ZL	0	32	C	7.5YR3/4				very slightly calcareous	level	3%	2%	1%				Yes	II	3a	21.3	8.1	2	WE	3a
		32	58	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	58	very calcareous		1%			5%	CHALK							
		58	120	C	7.5YR6/2					very calcareous		1%			8%								
A140	LH	0	28	C	10YR4/3				non-calcareous	level	3%	2%	1%	HARD			Yes	II	3b	22.9	11.6	2	WE	3b
		28	55	C	10YR5/3	10YR4/6;10YR6/1	Few			very calcareous		2%			5%	CHALK							
		55	120	C	10YR5/3		Many	Yes	69	very calcareous		2%			8%								
A141	LH	0	27	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			II	3b	23.3	11.7	2	WE	3b
		27	48	C	10YR5/3	10YR5/6, Mn	Few			very calcareous		2%			6%	CHALK							
		48	85	C	10YR5/3	10YR4/6;10YR6/1, Mn	Common			very calcareous		1%			10%								
		85	120	C	10YR5/3	10YR6/1	Very Many	Yes	85	very calcareous		1%			10%								
A142	LH	0	28	C	2.5Y4/2				non-calcareous	level	5%	2%	2%	HARD			Yes	II	3b	21.8	10.4	2	WE	3b
		28	42	C	2.5Y4/3				moderately calcareous		2%				2%	CHALK							
		42	120	C	2.5Y4/3	10YR5/6;10YR5/1	Many	Yes	68	very calcareous		2%			8%								
A143	LH	0	20	C	2.5Y4/2				non-calcareous	gently sloping	2%	1%	<1%	HARD			Yes	II	3b	19.8	7.7	2	WE	3b
		20	58	C	10YR4/6				very calcareous		2%				4%	CHALK							
		58	95	C	10YR5/4	10YR5/1	Many	Yes	69	very calcareous		1%			12%								
		95	120	IMP																			
A144	LH	0	10	C	2.5Y4/2				non-calcareous	level	4%	2%	1%	HARD			Yes	II	3b	15.1	3.1	2	WE	3b
		10	28	C	2.5Y4/2				moderately calcareous		2%				2%	CHALK							

		28	62	C	10YR5/4	10YR5/6;10 YR5/1	Few			very calcareous		2%			6%								
		62	120	C	10YR5/4	10YR5/1	Many	Yes	68	very calcareous		1%			10%								
A145	ZL	0	32	C	7.5YR4/3					non-calcareous	gently sloping	2%						I	3a	20.9	7.7	2	WE	3a
		32	85	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very calcareous		2%			10%	CHALK							
		85	120	C	7.5YR6/3	7.5YR6/1;10YR6/8	Many			very calcareous		2%			10%								
A146	ZL	0	28	C	7.5YR4/3					very calcareous	level	2%						II	3a	19.2	21.1	2	WE	3a
		28	65	C	7.5YR6/4	7.5YR6/1;10YR6/8	Many	Yes	65	very calcareous		2%			10%	CHALK							
		65	120	C	7.5YR6/3					very calcareous		2%			15%								
A147	ZL	0	27	hCL	7.5YR4/3					non-calcareous		2%						I	2	20.7	5.8	2	WE/DR	2
		27	100	hCL	7.5YR6/4					non-calcareous		1%											
		100	120	C	5YR6/4	10YR6/8	Few			non-calcareous													
A148	ZL	0	20	C	7.5YR3/3					slightly calcareous	gently sloping	3%	2%	1%				I	2	16.8	3.7	2	WE/DR	2
		20	33	C	7.5YR6/4					very calcareous		1%			5%	CHALK							
		33	120	C	7.5YR6/3	7.5YR6/1	Common			very calcareous		1%			5%								
A149	ZL	0	35	C	7.5YR3/3					non-calcareous	level	3%	2%	1%			Yes	II	3b	21.1	8.6	2	WE	3b
		35	55	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			non-calcareous		2%											
		55	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	67	very calcareous		2%			15%	CHALK							
		70	120	C	7.5YR6/3					very calcareous		5%			15%								
A150	ZL	0	29	C	7.5YR4/3					non-calcareous	level	2%		1%				I	3a	20.8	7.8	2	WE	3a
		29	55	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very slightly calcareous		1%			2%								
		55	105	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	105	very calcareous		1%			5%	CHALK							
		105	120	C	7.5YR6/3					very calcareous		1%			10%								
A151	ZL	0	35	C	7.5YR4/3					non-calcareous	level	3%	2%	1%			Yes	I	3a	22.7	18.9	2	WE	3a
		35	77	C	7.5YR6/4	7.5YR6/1	Few	Yes	72	very slightly calcareous		1%											
		77	120	C	7.5YR6/3					very calcareous		1%			5%	CHALK							
A152	ZL	0	35	C	7.5YR4/3					non-calcareous	level	2%	1%				Yes	II	3b	22.7	9.9	2	WE	3b
		35	70	C	7.5YR6/4	10YR6/8; 7.5YR6/1	Common	Yes	68	very calcareous		1%			5%	CHALK							
		70	120	C	7.5YR6/3					very calcareous		2%			10%								
A153	ZL	0	28	C	7.5YR4/3					non-calcareous	gently sloping	1%					Yes	II	3b	20.7	8.2	2	WE	3b
		28	70	C	7.5YR6/4	10YR6/8; 7.5YR6/1	Few	Yes	69	very slightly calcareous		1%											

		70	120	C	7.5YR6/3				very calcareous		2%			5%	CHALK								
A154	ZL	0	35	C	7.5YR4/3				non-calcareous	level	3%	1%					I	3a	24.4	13.7	2	WE	3a
		35	85	C	7.5YR5/4				non-calcareous		0%												
		85	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few		very calcareous		10%			10%	CHALK								
A155	ZL	0	29	C	7.5YR3/3				non-calcareous	level	5%	3%	1%			Yes	II	3b	19.1	6.1	2	WE	3b
		29	53	C	7.5YR6/4	7.5YR6/1;10YR6/8; Mn	Few		very slightly calcareous		1%												
		53	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	69	very calcareous		2%			10%	CHALK							
		70	120	C	7.5YR6/3					very calcareous		2%			10%								
A156	ZL	0	31	C	7.5YR4/3				non-calcareous	level	3%	2%	1%			Yes	II	3b	21.2	8.3	2	WE	3b
		31	53	C	7.5YR6/4	7.5YR6/1;10YR6/8; Mn	Common			non-calcareous													
		53	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		1%			8%	CHALK							
		70	120	C	7.5YR6/2					very calcareous		2%			10%								
A157	ZL	0	36	C	7.5YR4/3				non-calcareous	gently sloping	2%					Yes	II	3b	22.4	8.9	2	WE	3b
		36	95	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		2%			15%	CHALK							
		95	120	C	7.5YR6/2					very calcareous		2%			10%								

* Isolated points of Grade 2, mapped as Grade 3a.

Site A.2

Climate Data:

Auger Bore No	National Grid Reference	ALT (m AOD)	AAR (mm)	AT0 (day °C)	FCD	MDMWHT (mm)	MDMPOT (mm)
A2-001	SP819723	130	639	1329	135	100	90
A2-024	SP820726	118	632	1343	134	102	92
A2-049	SP819729	120	634	1340	135	102	92
A2-061	SP823731	134	641	1324	136	100	89

Auger Bore No	Surveyor Initials	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Gleyed Horizon	Depth to Gley	CaCo3%	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Hard Stone Type	Soft Stone Content % >2mm	Soft Stone Type	Slowly permeable layer (SPL) < 80cm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Limiting Factor	Final ALC Grade
A.2-001	ZL	0	28	C	7.5YR4/3					non-calcareous		3%	2%	1%				Yes	II	3b	22.2	9.7	2	WE	3b
		28	67	C	7.5YR5/6	7.5YR6/1;10YR6/8	Few			slightly calcareous		2%				2%									
		67	120	C	7.5YR6/1			Yes	67	very calcareous		2%				5%									
A.2-002	ZL	0	30	C	7.5YR4/3					very slightly calcareous	level	2%				2%		Yes	II	3a	22.6	10.8	2	WE	3a
		30	49	C	7.5YR6/4					slightly calcareous		1%				5%									
		49	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%				2%									
		65	120	C	7.5YR6/1			Yes	65	very calcareous		2%				5%									
A.2-003	ZL	0	30	C	7.5YR4/3					slightly calcareous	level	3%	2%	1%				Yes	II	3a	22.1	9.5	2	WE	3a
		30	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		2%				10%									
		65	120	C	7.5YR6/1			Yes	65	very calcareous		2%				10%									
A.2-004	ZL	0	28	C	7.5YR4/3					slightly calcareous	level	3%	2%	1%				Yes	II	3a	21.3	8.7	2	WE	3a
		28	63	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		2%				10%									
		63	120	C	7.5YR6/1			Yes	63	very calcareous		2%				10%									
A.2-005	ZL	0	30	C	7.5YR4/3					very calcareous	level	3%	2%	1%		1%		Yes	II	3a	20.5	10.7	2	WE	3a
		30	45	C	7.5YR6/4					very calcareous		1%													
		45	55	C	7.5YR6/4	7.5YR6/1;10YR6/8				very calcareous		1%				5%									
		55	120	C	7.5YR6/1			Yes	55	very calcareous		2%				8%									
A.2-006	ZL	0	32	C	7.5YR4/3					very calcareous	level	3%				1%		Yes	II	3a	23.3	11	2	WE	3a

		32	68	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		2%			2%								
		68	120	C	7.5YR6/1			Yes	68	very calcareous		2%			10%								
A.2-007	ZL	0	28	C	7.5YR4/3					moderately calcareous	level	5%	3%	2%		Yes	II	3a	20.4	7.3	2	WE	3a
		28	65	C	7.5YR5/6	7.5YR5/8	Few			very calcareous		2%			15%								
		65	120	C	7.5YR6/1			Yes	65	very calcareous		1%			10%								
A.2-008	ZL	0	29	C	7.5YR4/3					very calcareous	ently slopi	2%				Yes	II	3a	23	10.8	2	WE	3a
		29	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%			2%								
		65	120	C	7.5YR6/1			Yes	65	very calcareous		2%			10%								
A.2-009	ZL	0	28	hCL	7.5YR4/3					non-calcareous	ently slopi	3%	2%	1%			I	2	29.6	15.1	2	WE/DR	2
		28	120	hCL	7.5YR6/4					non-calcareous		2%											
A.2-010	ZL	0	29	C	7.5YR4/3					very slightly calcareous	ently slopi	2%				Yes	I	2	23.3	11.2	2	WE/DR	2
		29	65	C	7.5YR5/6					slightly calcareous		1%											
		65	120	C	7.5YR5/8	10YR6/8	Few			very calcareous		1%			5%								
A.2-011	ZL	0	35	hCL	7.5YR4/3					non-calcareous	level	3%	2%	1%			I	2	29.9	16.3	2	WE/DR	2
		35	86	hCL	7.5YR5/6	10YR6/8	Few			non-calcareous		2%											
		86	120	hCL	7.5YR5/8	10YR6/8	Few			non-calcareous		5%											
A.2-012	ZL	0	29	C	7.5YR4/4					moderately calcareous	level	5%	2%	1%		Yes	II	3a	20.9	8.4	2	WE	3a
		29	70	C	7.5YR5/6	7.5YR6/1	Few			very calcareous		2%			8%								
		70	120	C	7.5YR6/1			Yes	70	very calcareous		2%			5%								

A.2-013	ZL	0	29	C	7.5YR4/4					non-calcareous	level	3%	2%	1%			Yes	II	3b	23.3	11	2	WE	3b
		29	60	C	7.5YR5/6	10YR6/8	Few			non-calcareous														
		60	120	C	7.5YR6/1			Yes	60	very calcareous		1%			5%									
A.2-014	ZL	0	38	hCL	7.5YR4/4					non-calcareous		2%						I	2	29.3	17.2	2	WE/DR	2
		38	67	C	7.5YR 6/4					very slightly calcareous		3%												
		67	86	SCL	10YR8/8	7.5YR7/6	Common			very calcareous		15%												
		86	120	C	7.5YR6/1			Yes	86	very calcareous		2%			2%									
A.2-015	ZL	0	35	hCL	7.5YR4/4					very slightly calcareous	level	2%					Yes	I	2	29.2	15.6	2	WE/DR	2
		35	85	C	7.5YR6/3	7.5YR6/1;10YR6/8	Common			slightly calcareous		2%			1%									
		85	120	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		0%												
A.2-016	ZL	0	35	hCL	7.5YR3/4					non-calcareous	level	5%	2%	1%			Yes	II	3a	29.2	16.2	2	WE	3a
		35	55	hCL	7.5YR6/4					very calcareous		2%			5%									
		55	70	C	7.5YR6/3	10YR6/8				very calcareous		2%			5%									
		70	120	C	10YR6/1			Yes	70	very calcareous		2%			5%									
A.2-017	ZL	0	28	C	7.5YR3/4					very calcareous	level	3%	2%	1%	2%		Yes	II	3a	22.3	9.1	2	WE	3a
		28	50	C	7.5YR6/4	10YR6/8	Common			very calcareous		1%			10%									
		50	70	C	7.5YR6/3	7.5YR6/1	Common			very calcareous		2%			10%									
		70	120	C	7.5YR6/1			Yes	70	very calcareous		2%			10%									
A.2-018	ZL	0	29	C	7.5YR4/3					non-calcareous		3%	2%	1%			Yes	II	3a	20.7	8.1	2	WE	3a

		29	70	C	7.5YR5/6	10YR6/8	Few			very slightly calcareous		1%												
		70	120	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		2%				5%								
A.2-019	ZL	0	29	C	7.5YR4/3					very slightly calcareous	level	4%	2%	1%				Yes	II	3a	19.6	7.9	2	WE	3a
		29	69	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		1%				3%								
		69	120	C	7.5YR6/1			Yes	69	very calcareous		5%				8%								
A.2-020	ZL	0	28	C	7.5YR4/3					non-calcareous	level	3%	2%	1%	HARD			Yes	I	3a	20.9	7.9	2	WE	3a
		28	78	C	7.5YR5/6	10YR6/8	Common	Yes	78	very calcareous		1%				5%	CHALK							
		78	120	C	7.5YR6/1					very calcareous		1%				5%								
A.2-021	RM	0	40	C	10YR5/3					slightly calcareous		2%			HARD			Yes	II	3a	25.7	12.6	2	WE	3a
		40	55	C	10YR4/4			Yes	55	moderately calcareous														
		55	80	C	2.5Y4/1	10YR5/6	Many			moderately calcareous						2%	CHALK							
		80	120	C																				
A.2-022	RM	0	40	C	2.5Y4/3					non calcareous		2%			HARD				I	3a	25.7	12.6	2	WE	3a
		40	70	C	2.5Y4/4					very calcareous														
		70	85	C	2.5Y5/4	10YR5/6	few									2%	CHALK							
		85	120	C																				
A.2-023	ZL	0	29	C	7.5YR4/3					very slightly calcareous	level	5%	3%	2%		1%		Yes	II	3a	19.5	6.8	2	WE	3a
		29	52	C	7.5YR5/6	10YR6/8	Few			slightly calcareous		2%				1%								
		52	85	C	7.5YR5/6	7.5YR6/1	Common			slightly calcareous		2%				2%								
		85	120	C	7.5YR5/8	7.5YR6/1	Many	Yes	98	very calcareous		2%				2%								

A.2-024	ZL	0	28	hCL	7.5YR4/3					non-calcareous		2%					Yes	I	2	23.4	11.1	2	WE	2
		28	120	ZC	7.5YR5/6	10YR6/8	Few			non-calcareous		1%												
A.2-025	ZL	0	32	C	7.5YR 4/3					non-calcareous	level	3%	2%	1%			Yes	II	3a	21.9	9.4	2	WE	3a
		32	90	C	7.5YR 5/6	7.5YR 6/1	Few			non-calcareous		2%												
		90	120	C	7.5YR 5/6	7.5YR 6/1	Common	Yes	65	non-calcareous		2%												
A.2-026	ZL	0	29	C	7.5YR 4/3					non-calcareous	level	3%	2%	1%			Yes	I	3a	18.3	3	2	WE	3a
		29	45	C	7.5YR 5/6					non-calcareous		1%												
		45	79	C	7.5YR 5/6	7.5YR 6/1	Common			very calcareous		1%				5%								
		79	120	C	7.5YR 6/1			Yes	79	very calcareous		2%				5%								
A.2-027	RM	0	40	C	10YR4/1					very calcareous		3%	2		HARD		Yes	II	3a	25.7	12.7	2	WE	3a
		40	50	C	10YR5/4			Yes	50	very calcareous						2%	CHALK						
		60	80	C	2.5Y5/3	10YR5/6	Many			very calcareous														
		80	120	C																				
A.2-028	RM	0	38	C	10YR4/4					very calcareous		3%	2%		HARD			Yes	II	3a	25.7	12.7	2	WE	3a
		38	55	C	2.5Y5/4					very calcareous														
		55	80	C	2.5Y6/3	10YR5/6	Many	Yes	55	very calcareous						2%	CHALK							
		80	120	C																				
A.2-029	RM	0	40	C	10YR4/4			No	43	very calcareous		3%	2%		HARD			Yes	III	3a	25.7	12.7	2	WE	3a
		40	43	C	10YR4/4					very calcareous						2%	CHALK							
		43	70	C	2.5Y5/3	10YR5/6	Many			very calcareous														
		70	120	C																				

A.2-030	RM	0	39	C	2.5Y4/2					very calcareous	3%			HARD			Yes	III	3a	25.7	12.7	2	WE	3a
		39	85	C	2.5Y5/3	10YR5/6	Common	Yes	39	very calcareous					2%	CHALK							
		85	120	C																			
A.2-031	RM	0	40	C	2.5Y5/2					very calcareous	2%			HARD			Yes	II	3a	25.7	12.7	2	WE	3a
		40	50	C	2.5Y5/4			Yes	50	very calcareous													
		50	85	C	2.5Y5/3	10YR5/6	Many			very calcareous					2%	CHALK							
		85	120	C																			
A.2-032	RM	0	35	C	2.5Y4/3					non-calcareous	3%	2%		HARD			Yes	II	3b	25.7	12.7	2	WE	3b
		35	60	C	2.5Y5/3					non-calcareous					2%	CHALK							
		60	68	C	2.5Y5/3	10YR5/6	Common	Yes	60	very calcareous													
		68	120	C																			
A.2-033	RM	0	40	C	10YR3/4					non-calcareous	3%	2%		HARD				I	3a	25.7	12.7	2	WE	3a
		40	70	C	10YR4/6					non-calcareous													
		70	80	C	10YR5/3	10YR5/6	Common	Yes	70	non-calcareous					2%	CHALK							
		80	120	C																			
A.2-034	RM	0	40	C	10YR3/2					non-calcareous	2%			HARD				I	3a	25.7	12.7	2	WE	3a
		40	80	C	10YR4/4					slightly calcareous													
		80	90	C	10YR4/4	10YR5/6	Few	No		very calcareous					2%	CHALK							
		90	120	C																			
A.2-035	RM	0	40	C	10YR3/2					non-calcareous	2%			HARD			Yes	I	3a	25.7	12.7	2	WE	3a
		40	70	C	2.5Y5/3					non-calcareous													
		70	85	C	2.5Y5/3	10YR5/6	Common	Yes	70	slightly calcareous					2%	CHALK							
		85	120	C																			

A.2-036	RM	0	40	C	10YR3/2					very slightly calcareous		2%		HARD			Yes	I	3a	25.7	12.7	2	WE	3a
		40	70	C	2.5Y5/4					very calcareous													
		70	90	C	2.5Y5/3	10YR5/6	Many	Yes	70	very calcareous					2%	CHALK							
		90	120																				
A.2-037	RM	0	38	C	2.5Y4/2					slightly calcareous	level	2%		HARD			Yes	III	3a	25.7	12.7	2	WE	3b
		38	40	C	2.5Y4/2	10YR5/6	Few			very calcareous													
		40	85	C	2.5Y5/3	10YR5/6	Many	Yes	40	very calcareous					2%	CHALK							
		85	120	C																			
A.2-038	RM	0	40	C	2.5Y54/2					slightly calcareous		2%		HARD			Yes	III	3a	25.7	12.7	2	WE	3a
		40	80	C	2.5Y5/3	10YR5/6	Many			very calcareous													
		80	90	C	2.5Y4/2			Yes	40	very calcareous					2%	CHALK							
		90	120	C																			
A.2-039	RM	0	40	C	2.5Y4/2					moderately calcareous		2%		HARD			Yes	II	3a	25.7	12.7	2	WE	3a
		40	50	C	10YR4/4					very calcareous													
		50	75	C	2.5Y5/3	10YR5/6	Many	Yes	50	very calcareous					2%	CHALK							
		75	120	C																			
A.2-040	RM	0	40	C	10YR4/3					slightly calcareous							Yes	II	3a	25.7	12.7	2	WE	3a
		40	60	C	10YR5/3			Yes	60	moderately calcareous		2%	1%	HARD										
		60	70	C	10YR5/3	10YR5/6	Common			moderately calcareous					2%	CHALK							
		70	120	C																			
A.2-041	RM	0	40	C	10YR4/3					slightly calcareous		2%	1%	HARD			Yes	II	3a	25.7	12.7	2	WE	3a

		40	50	C	2.5Y5/3			Yes	50	slightly calcareous															
		50	85	C	2.5Y5/3	10YR5/6	Many			moderately calcareous					2%	CHALK									
		85	120	C																					
A.2-042	RM	0	38	C	10YR4/3					very calcareous	2%	1%		HARD			Yes	III	3a	25.7	12.7	2	WE	3a
		38	80	C	2.5Y5/1	10YR5/6	Many			very calcareous															
		80	90	C	2.5Y5/1			Yes	38	very calcareous					2%	CHALK									
		90	120	C																					
A.2-043	RM	0	33	C	10YR4/3					slightly calcareous	3%	2%	1%	HARD			Yes	II	3a	25.7	12.7	2	WE	3a
		33	50	C	2.5Y5/4					very calcareous															
		50	80	C	2.5Y5/3	10YR5/6	Many	Yes	50	very calcareous					1%	CHALK									
		80	120	C																					
A.2-044	RM	0	40	C	10YR4/2					non-calcareous	2%			HARD			Yes	III	3b	25.7	12.7	2	WE	3b
		40	78	C	2.5Y4/1	10YR5/6	Common	Yes	40	non-calcareous															
		78	90	C	2.5Y5/3	10YR5/6	Many			slightly calcareous					1%	CHALK									
		90	120	C																					
A.2-045	RM	0	38	C	2.5Y4/2					slightly calcareous	3%			HARD	1%	CHALK	Yes	III	3a	25.7	12.7	2	WE	3a
		38	40	C	2.5Y5/3			Yes	40	very calcareous															
		40	75	C	2.5Y5/3	10YR5/6	Many			very calcareous															
		75	90	C	2.5Y5/1	10YR5/6	Many			very calcareous															
		90	120	C																					
A.2-046	RM	0	33	C	10YR4/2					non-calcareous	2%			HARD			Yes	II	3b	25.7	12.7	2	WE	3b
		33	50	C	10YR5/6					non-calcareous					2%	CHALK									

		50	80	C	2.5Y5/3	10YR5/6	Many	Yes	50	slightly calcareous												
		80	90	C	2.5Y5/1	10YR5/6	Many			slightly calcareous												
		90	120	C																		
A.2-047	RM	0	38	C	10YR4/2					non-calcareous	2%		HARD			Yes	II	3b	25.7	12.7	2	WE	3b
		38	50	C	10YR4/4					non-calcareous												
		50	80	C	2.5Y5/3	10YR5/6	Common	Yes	50	non-calcareous			2%	CHALK								
		80	90	C	2.5Y5/1					very calcareous												
		90	120	C																		
A.2-048	RM	0	40	C	2.5Y4/4					slightly calcareous	3%		HARD			Yes	II	3a	25.7	12.7	2	WE	3a
		40	60	C	2.5Y4/3					slightly calcareous												
		60	90	C	10YR5/3	10YR5/6	Many	Yes	60	moderately calcareous			2%	CHALK								
		90	120																			
A.2-049	RM	0	35	HZCL	2.5Y4/1					very slightly calcareous	2%		HARD			Yes	II	3b	31.7	18.7	1	WE	3b
		35	60	C	10YR4/3					non-calcareous												
		60	70	C	10YR5/3	10YR5/6	Common	Yes	60	non-calcareous												
		70	120	C																		
A.2-050	RM	0	40	C	2.5Y5/2					non-calcareous	2%		HARD			Yes	III	3b	6.1	14.1	2	WE	3b
		40	60	C	10YR4/2	10YR5/6	Common			very calcareous												
		60	80	C	10YR5/2	10YR5/6	Many	Yes	40	very calcareous			2%	CHALK								
		80	120	C																		
A.2-051	RM	0	40	C	2.5Y4/2					non-calcareous	2%		HARD	2%	CHALK	Yes	II	3b	6.1	14.1	2	WE	3b
		40	65	C	2.5Y5/4					non-calcareous												

		65	90	C	2.5Y5/3	10YR5/6	Common	Yes	65	very calcareous														
		90	120	C																				
A.2-052	RM	0	40	C	10YR4/2					slightly calcareous		3%			HARD	2%	CHALK	Yes	II	3a	6.1	14.1	2	WE	3a
		40	50	C	2.5Y5/3			Yes	50	slightly calcareous														
		50	80	C	2.5Y5/1	10YR5/6	Many			very calcareous														
		80	90	C																				
		90	120																					
A.2-053	RM	0	40	C	10YR4/2					slightly calcareous		3%			HARD	1%	CHALK	Yes	III	3a	6.1	14.1	2	WE	3a
		40	90	C	2.5Y5/3	10YR5/6	Many	Yes	40	very calcareous														
		90	120	C																				
A.2-054	RM	0	40	C	10YR4/2					slightly calcareous		5%	2%	1%	HARD			Yes	II	3a	6.1	14.1	2	WE	3a
		40	50	C	10YR4/4					very calcareous														
		50	80	C	2.5Y5/3	10YR5/6	Many	Yes	50	very calcareous						2%	CHALK							
		80	90	C	2.5Y5/1																			
		90	120	C																				
A.2-055	RM	0	40	C	2.5Y4/2					very slightly calcareous		3%	2%		HARD			Yes	II	3a	6.1	14.1	2	WE	3a
		40	50	C	2.5Y5/4					non-calcareous														
		50	60	C	2.5Y5/2	10YR5/6	Many	Yes	50	non-calcareous														
		60	90	C	2.5Y5/3	10YR5/6	Many																	
		90	120	C																				
A.2-056	ZL	0	30	C	7.5YR4/4					very calcareous	level	3%	2%	1%				Yes	II	3a	23.4	1.1	2	WE	3a
		30	63	C	7.5YR5/6	7.5YR6/1	Few			very calcareous		1%				2%								
		63	120	C	7.5YR6/1			Yes	63	very calcareous		1%				2%								
A.2-057	ZL	0	37	C	7.5YR4/4					very slightly calcareous	level	4%	2%	1%				Yes	II	3a	24.6	13	2	WE	3a

		37	57	C	7.5YR6/4	7.5YR6/1	Common			moderately calcareous		1%										
		57	120	C	7.5YR6/1			Yes	57	very calcareous		2%										
A.2-058	ZL	0	29	C	7.5YR4/3					moderately calcareous	level	5%	3%	1%	1%	Yes	II	3a	20.7	8.7	2	WE	3a
		29	56	C	7.5YR6/4					very calcareous		1%			5%							
		56	120	C	7.5YR6/1			Yes	56	very calcareous		3%			5%							
A.2-059	ZL	0	27	C	7.5YR3/4					very slightly calcareous	level	3%	2%	1%		Yes	II	3a	21.1	9.7	2	WE	3a
		27	48	C	7.5YR4/4	7.5YR6/1	Common			very slightly calcareous		1%										
		48	120	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		1%			5%							
A.2-060	ZL	0	35	C	7.5YR4/3					very calcareous	level	3%	2%	1%	2%	Yes	II	3a	23.5	11.5	2	WE	3a
		35	67	C	7.5YR6/4	7.5YR6/1;10YR7/8	Common			very calcareous		1%			2%							
		67	120	C	7.5YR6/1			Yes	67	very calcareous		2%			5%							
A.2-061	ZL	0	27	C	7.5YR3/4					non-calcareous	level	3%	2%	1%		Yes	II	3b	16.7	1.2	2	WE	3b
		27	56	C	7.5YR5/6	7.5YR6/1	Common			non-calcareous		1%										
		56	68	C	7.5YR6/1			Yes	68	slightly calcareous		1%										
		68	120	C	7.5YR6/1					very calcareous		1%			5%							
A.2-062	ZL	0	32	C	7.5YR3/4					non-calcareous	level	3%	2%	1%		Yes	II	3b	24.1	11.7	2	WE	3b
		32	63	C	7.5YR6/4	10YR7/8	Common			non-calcareous		1%										
		63	79	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		1%			3%							

		79	120	C	7.5YR6/1			Yes	65	very calcareous		1%			5%								
A.2-063	ZL	0	25	C	7.5YR3/4					non-calcareous	level	3%	2%	1%	1%	Yes	II	3b	18	9.1	2	WE	3b
		25	44	C	7.5YR5/6					slightly calcareous		1%											
		44	79	C	7.5YR5/6	7.5YR6/1;10YR7/8	Common			very calcareous		1%			3%								
		79	120	C	7.5YR6/1			Yes	66	very calcareous		2%			3%								
A.2-064	ZL	0	31	C	7.5YR4/3					non-calcareous	level	2%		1%		Yes	II	3b	23.7	11.7	2	WE	3b
		31	62	C	7.5YR5/6	7.5YR6/1;10YR7/8	Common			non-calcareous		1%											
		62	75	C	7.5YR5/6	7.5YR6/1;10YR7/8	Common			very calcareous		1%			2%								
		75	120	C	7.5YR6/1			Yes	66	very calcareous		1%			5%								

Site B

Climate Data:

Auger Bore No	National Grid Reference	ALT (m AOD)	AAR (mm)	AT0 (day °C)	FCD	MDMWHT (mm)	MDMPOT (mm)
B001	SP790681	120	630	1343	132	103	93
B015	SP795682	124	632	1338	132	102	92
B021	SP791682	124	632	1338	132	102	93
B050	SP797686	126	635	1335	133	102	92
B053	SP790686	124	633	1339	133	102	92

Auger Bore No	Surveyor Initials	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Gleyed Horizon	Depth to Gley	CaCo3%	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Hard Stone Type	Soft Stone Content % >2mm	Soft Stone Type	Slowly permeable layer (SPL) < 80cm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Limiting Factor	Final ALC Grade
B001	JP	0	27	mCL	10 YR 4/3								5%	2%	HARD				I	1	40.3	17.5	1		1*
		27	75	SCL	10 YR 4/4	10YR6/8; 10YR6/1	Many			non-calcareous	level														
		75	95	LmS	10 YR 5/6																				
		95	120	LfS	10 YR 6/1																				
B002	JP	0	25	mCL	10 YR 4/4					slightly calcareous	level		5%	2%	HARD				I	1	18.8	5.9	2	DR	2
		25	50	C	7.5 YR 5/4	10 YR 6/8	Many			moderately calcareous		2%													
		50	100	C	7.5 YR 5/4	10YR6/8; 10YR6/1	Common			moderately calcareous		3%													
		100	120	C	10 YR 5/8			Yes	100	very calcareous		1%				5%	CHALK								
B003	JP	0	25	mCL	10 YR 4/4					slightly calcareous	level	1%	5%	2%	HARD				I	1	20.4	7.3	2	DR	2
		25	65	C	2.5 Y 5/6					very slightly calcareous		5%													
		65	95	C	7.5 Y 5/4	10YR5/8; 10YR6/1	Common			moderately calcareous		2%													
		95	120	IMP																					
B004	JP	0	25	C	10 YR 3/4					non-calcareous	level		5%	2%	HARD			Yes	II	3b	18.1	4.2	2	WE	3b
		25	50	C	10 YR 4/4					moderately calcareous						2%	CHALK								
		50	80	C	10 YR 4/4	10YR5/8; 10YR6/1	Common			moderately calcareous						10%	CHALK								
		80	120	C	10 YR 4/4	10YR5/8; 10YR6/1	Many	Yes	70	moderately calcareous						20%	CHALK								
B005	JP	0	28	C	10 YR 3/4					non-calcareous	level							Yes	II	3b	21.7	8.3	2	WE	3b
		28	62	C	10 YR 4/4	10 YR 5/8	Common			non-calcareous															

		62	120	C	10 YR 4/4	10YR5/8; 10YR6/1	Very Many	Yes	62	slightly calcareous					10%	CHALK									
B006	JP	0	25	C	10 YR 4/3					non-calcareous	level		5%	2%	HARD			I	3a	15.9	2.7	2	WE	3a
		25	63	C	10 YR 4/4	10 YR 5/8	Common			moderately calcareous		5%			HARD										
		63	90	C	10 YR 4/4	10YR5/8; 10YR6/1	Common			moderately calcareous		2%			HARD	15%	CHALK								
		90	120	C	10 YR 4/4	10YR5/8; 10YR6/1	Very Many	Yes	90	moderately calcareous		2%			HARD	20%	CHALK								
B007	JP	0	25	C	10 YR 4/3					non-calcareous	level		5%	1%	HARD			I	3a	7.5	1	2	WE	3a
		25	55	C	10 YR 4/6	10 YR 5/8	Common			non-calcareous		10%													
		55	120	C	10 YR 4/4	10YR5/8; 10YR6/1	Many			non-calcareous						25%	SANDSTONE								
B008	JP	0	25	C	10 YR 4/4					non-calcareous	level		6%	2%	HARD			I	3a	10.3	3.8	2	WE	3a
		25	35	C	10 YR 5/4					non-calcareous		2%			HARD										
		35	70	C	10 YR 5/4	10 YR 5/8	Common			non-calcareous		2%			HARD										
		70	85	C	10 YR 4/6	10YR5/8; 10YR6/1	Many			moderately calcareous		1%			HARD	10%	CHALK								
		85	115	SC	10 YR 4/6	10 YR 5/8	Common			very slightly calcareous		15%			HARD										
		115	120	fS	2.5 Y 5/2			Yes	115	non-calcareous		2%			HARD										
B009	ZL	0	29	C	7.5YR5/4					non-calcareous	level	3%	2%	1%				I	3a	18.7	7.4	2	WE	3a
		29	45	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		1%													
		45	105	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		1%				5%	CHALK								
		105	120	C	7.5YR6/1			Yes	105	very calcareous		1%				8%									

B010	JP	0	30	C	10 YR 4/4				non-calcareous	level		5%	3%	HARD				I	3a	18.8	4.8	2	WE	3a*
		30	60	C	10 YR 5/4	10 YR 5/8	Common		slightly calcareous		2%			HARD	5%	CHALK								
		60	80	C	10 YR 5/4	10YR5/8; 10YR6/1	Common		moderately calcareous		2%			HARD	20%	CHALK								
		80	120	C	10 YR 5/4	10YR5/8; 10YR6/1	Very Many	Yes	80	moderately calcareous					30%	CHALK								
B011	JP	0	22	C	10 YR 4/4				non-calcareous	level	5%						Yes	II	3b	15.7	2.8	2	WE	3b
		22	45	C	10 YR 5/4	10YR5/8; 10YR6/1	Common		moderately calcareous		5%			HARD										
		45	75	C	10 YR 5/4	10YR5/8; 10YR6/1	Common		moderately calcareous		3%			HARD										
		75	90	C	10 YR 5/4	10YR5/8; 10YR6/1	Very Many	Yes	70	moderately calcareous		2%			HARD	20%	CHALK							
		90	120	SCL	10 YR 5/6				moderately calcareous		2%													
B012	JP	0	26	C	10 YR 4/4				non-calcareous	level	3%	2%	1%				Yes	II	3b	19.4	5.7	2	WE	3b
		26	55	C	10 YR 5/6	10 YR 6/8	Common		moderately calcareous		2%			HARD										
		55	120	C	10 YR 5/6	10YR6/8; 10YR6/1	Very Many	Yes	55	moderately calcareous		1%			15%	CHALK								
B013	JP	0	23	C	10 YR 4/4				non-calcareous	level	1%	2%	2%	HARD				I	3a	17.1	5.1	2	WE	3a
		23	70	C	10 YR 5/6	10 YR 6/8	Many		non-calcareous		3%			HARD										
		70	120	C	10 YR 5/4	10YR6/8; 10YR6/1	Many		non-calcareous		5%			HARD										
B014	ZL	0	29	C	7.5YR5/4				non-calcareous	level	2%	1%					Yes	I	3a	21.5	8.3	2	WE	3a
		29	43	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common		non-calcareous		1%													

		43	68	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	75	very calcareous		1%			5%	CHALK								
		68	120	C	7.5YR5/6	7.5YR6/1;10YR6/8	Many			very calcareous		1%			5%									
B015	ZL	0	32	C	7.5YR5/4					non-calcareous	level	2%		1%			I	3a	23.1	10.2	2	WE	3a	
		32	65	C	7.5YR5/6					non-calcareous														
		65	120	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%			5%									
B016	ZL	0	29	C	7.5YR5/4					non-calcareous	level	3%	2%	1%			I	3a	20	8.3	2	WE	3a	
		29	73	C	7.5YR5/6	7.5YR6/1;10YR6/8; Mn	Common			non-calcareous		1%												
		73	120	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		5%			5%									
B017	ZL	0	29	hCL	7.5YR5/4					non-calcareous		2%					I	2	21.4	9.1	2	WE/DR	2*	
		29	49	hCL	7.5YR5/6					non-calcareous		0%												
		49	85	C	7.5YR6/3	7.5YR6/1;10YR6/8; Mn	Common			non-calcareous		2%												
		85	120	SCL	5YR4/4					non-calcareous		1%			20%	SANDSTONE								
B018	LH	0	26	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD		Yes	II	3b	19.5	6.6	2	WE	3b
		26	65	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	48	very calcareous		2%			6%	CHALK								
		65	120	IMP																				
B019	LH	0	26	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD		Yes	II	3b	20.3	7.2	2	WE	3b
		26	65	C	10YR5/3	10YR5/6;10YR6/2	Few			moderately calcareous		2%			1%	CHALK								
		65	120	C	10YR5/4	10YR5/6;10YR6/2	Many	Yes	70	very calcareous		1%			6%									
B020	LH	0	31	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD		Yes	II	3b	22.3	9.1	2	WE	3b
		31	120	C	10YR5/4	10YR5/6;10YR6/2	Many	Yes	70	very calcareous		1%			6%	CHALK								

B021	JP	0	25	C	10 YR 4/4				non-calcareous	level	1%	1%	1%	HARD			Yes	II	3b	14.9	5.8	2	WE	3b
		25	40	C	10 YR 5/6	10 YR 6/8	Common		slightly calcareous		2%			HARD	5%	CHALK							
		40	70	C	10 YR6/3	10 YR 6/8	Common		moderately calcareous		1%			HARD	15%	CHALK							
		70	120	C	10 YR 4/3	10YR6/8; 10YR6/1	Many	Yes	70 moderately calcareous						20%	CHALK							
B022	LH	0	25	C	10YR4/3				non-calcareous	level	3%	2%	1%	HARD				I	3a	19.5	6.4	2	WE	3a
		25	64	C	10YR5/4	7.5YR4/6;7.5YR6/2	Common		moderately calcareous		1%				2%	CHALK							
		64	120	C	10YR5/4		Very Many	Yes	105 very calcareous		1%				6%								
B023	ZL	0	35	C	10YR4/3				non-calcareous	level	1%							I	3a	16.6	11.5	2	WE	3a
		35	70	C	10YR5/8				non-calcareous		1%												
		70	120	C	10YR6/8	10YR6/1	Common		non-calcareous		25%												
B024	ZL	0	29	C	7.5YR4/3				non-calcareous	level	3%	2%	1%					I	3a	25.9	7.9	2	WE	3a
		29	70	C	7.5YR5/6	7.5YR6/1;10YR6/8	Few		very slightly calcareous		1%				5%	CHALK							
		70	120	SCL	10YR7/6	10YR6/9	Few		very calcareous		1%				2%	CHALK							
B025	ZL	0	29	C	7.5YR4/3				non-calcareous	level	3%	2%	1%				Yes	II	3b	21.4	8.2	2	WE	3b
		29	50	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common		very slightly calcareous		1%												
		50	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common		very calcareous		1%				5%	CHALK							
		65	120	C	7.5YR6/2			Yes	65 very calcareous		1%				5%	CHALK							
B026	ZL	0	32	C	7.5YR5/4				non-calcareous	level	3%	2%	1%				Yes	II	3b	22.4	9.2	2	WE	3b

		32	45	C	7.5YR5/6					very calcareous		1%												
		45	75	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%				5%	CHALK							
		75	120	C	7.5YR6/2			Yes	70	very calcareous		1%				5%	CHALK							
B027	ZL	0	25	hCL	7.5YR5/4					non-calcareous	level	3%	2%	1%				I	3a	21.4	8.5	2	WE	3a
		25	35	hCL	7.5YR5/6					non-calcareous		1%												
		35	68	C	7.5YR5/6	10YR6/8	Few			non-calcareous		1%												
		68	120	C	7.5YR6/3	7.5YR6/1;10YR6/8	Common			very calcareous		1%				3%								
B028	ZL	0	29	C	7.5YR5/4					non-calcareous		3%	2%	1%				I	3a	21.6	7.8	2	WE	3a
		29	49	C	7.5YR5/6	7.5YR6/1;10YR6/8; Mn	Common			non-calcareous														
		49	120	C	7.5YR5/6			Yes	88	very calcareous						8%								
B029	LH	0	26	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			I	3a	19.3	6.2	2	WE	3a
		26	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	85	very calcareous		2%				6%	CHALK							
B030	LH	0	30	C	10YR4/3					non-calcareous	level	3%	2%	1%	HARD			Yes	II	3b	20.3	7.2	2	WE	3b
		30	120	C	10YR5/4	10YR5/6;10YR6/3	Very Many	Yes	55	very calcareous		2%				8%	CHALK							
B031	LH	0	29	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	21.4	8.2	2	WE	3b
		29	65	C	10YR5/3	10YR5/6	Few			moderately calcareous		2%				3%	CHALK							
		65	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	55	very calcareous		1%				8%								
B032	LH	0	31	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	15.5	9.2	2	WE	3b
		31	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	70	very calcareous		1%				6%	CHALK							

B033	LH	0	29	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	21.5	8.1	2	WE	3b
		29	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	70	very calcareous		1%				8%	CHALK								
B034	LH	0	28	C	10YR4/3					non-calcareous	level	3%	2%	1%	HARD			Yes	II	3b	20.3	7.5	2	WE	3b
		28	64	C	10YR5/4	10YR5/6;10YR6/2	Few			moderately calcareous		2%													
		64	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	70	very calcareous		2%				6%	CHALK								
B035	ZL	0	30	C	7.5YR4/3					non-calcareous	level	4%	2%	1%				Yes	II	3b	21.2	8	3a	WE	3b
		30	48	C	7.5YR5/6					non-calcareous		1%													
		48	69	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%				5%	CHALK								
		69	120	C	7.5YR6/2			Yes	69	very calcareous		1%				5%	CHALK								
B036	ZL	0	31	C	7.5YR4/3					non-calcareous	level	4%	2%	1%				Yes	II	3b	21.5	8.3	2	WE	3b
		31	45	C	7.5YR5/6					non-calcareous		1%													
		45	70	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%				5%	CHALK								
		70	120	C	7.5YR6/2			Yes	70	very calcareous		1%				5%	CHALK								
B037	ZL	0	35	C	7.5YR4/2					very slightly calcareous	level	3%	2%	1%				Yes	II	3a	23.7	10.6	2	WE	3a
		35	56	C	7.5YR5/6	10YR6/8	Few			very slightly calcareous		1%													
		56	76	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		1%				5%	CHALK								
		76	120	C	7.5YR6/2					very calcareous		1%				8%	CHALK								
B038	ZL	0	33	C	7.5YR4/2					non-calcareous		3%	2%	1%				Yes	II	3b	23	9.9	2	WE	3b
		33	58	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		1%													

		58	120	C	10YR6/2			Yes	58	very calcareous		1%				5%	CHALK								
B039	ZL	0	35	C	7.5YR4/3					non-calcareous	level	2%							I	3a	24.1	11.1	2	WE	3a
		35	60	C	7.5YR5/6	10YR6/8	Few			non-calcareous		1%													
		60	72	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%													
		72	120	C	7.5YR6/1			Yes	75	very calcareous		1%				5%	CHALK								
B040	ZL	0	35	C	7.5YR4/3					non-calcareous	level	2%				5%	CHALK		I	3a	22.8	9.8	2	WE	3a
		35	59	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		1%													
		59	76	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%				3%	CHALK								
		76	120	C	7.5YR6/1			Yes	75	very calcareous		1%				5%	CHALK								
B041	LH	0	30	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			Yes	I	3a	21.6	8.6	2	WE	3a
		30	78	C	10YR5/4	10YR5/6;10YR6/2	Common			moderately calcareous		2%													
		78	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	78	very calcareous		1%				6%	CHALK								
B042	LH	0	29	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	21.4	8.1	2	WE	3a
		29	55	C	10YR5/4					moderately calcareous		2%													
		55	120	C	10YR5/4	10YR5/6;10YR6/2	Many	Yes	90	very calcareous		1%				8%	CHALK								
B043	LH	0	28	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	6.5	7	2	WE	3b
		28	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	60	very calcareous		2%				10%	CHALK								
B044	LH	0	34	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	23.5	10.2	1	WE	3b
		34	90	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	55	very calcareous		1%				8%	CHALK								
		90	120	IMP																					

B045	LH	0	24	C	10YR4/3				non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	19.8	6.4	2	WE	3b
		24	45	C	10YR5/3	10YR5/6;10YR6/2	Common		very calcareous		2%				3%	CHALK							
		45	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	50	very calcareous		1%				10%								
B046	LH	0	28	C	10YR4/3				non-calcareous	level	3%	2%	1%	HARD			Yes	II	3b	20.1	6.9	2	WE	3b
		28	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	65	very calcareous		2%				10%	CHALK							
B047	LH	0	32	C	10YR4/3				non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	23.4	10.5	2	WE	3b
		32	50	C	10YR5/4			Yes	50	moderately calcareous		1%				1%	CHALK							
		50	IMP																					
B048	LH	0	30	C	10YR4/3				non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	21.4	9.4	2	WE	3b
		30	48	C	10YR5/4	10YR5/6;10YR6/2	Few			moderately calcareous		2%				1%	CHALK							
		48	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	48	very calcareous		1%				6%								
B049	ZL	0	29	C	7.5YR4/3				non-calcareous	level	2%						Yes	II	3b	22.1	9	2	WE	3b
		29	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		1%				5%	CHALK							
		65	120	C	7.5YR6/1					very calcareous		1%				5%	CHALK							
B050	ZL	0	28	C	7.5YR4/3				non-calcareous	level	5%	2%	1%					I	3a	20.6	7.6	2	WE	3a
		28	55	C	7.5YR5/6					very slightly calcareous		1%												
		55	78	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	75	very calcareous		1%				5%	CHALK							
		78	120	C	7.5YR6/2					very calcareous		1%				8%	CHALK							
B051	ZL	0	30	C	7.5YR4/3				non-calcareous	level	2%						Yes	II	3b	22.7	9.7	2	WE	3b

		30	56	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		1%													
		56	120	C	10YR6/2	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		1%				5%	CHALK								
B052	LH	0	30	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	22.2	9.2	2	WE	3a
		30	75	C	10YR5/4					very slightly calcareous		1%													
		75	120	C	10YR5/4	10YR5/6;10YR6/2	Many	Yes	85	very calcareous		1%				5%	CHALK								
B053	LH	0	32	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	22.4	9.1	2	WE	3a
		32	55	C	10YR5/4					very calcareous		2%				4%	CHALK								
		55	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	75	very calcareous		1%				8%									
B054	LH	0	29	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	21.6	8.4	2	WE	3b
		29	55	C	10YR5/4	10YR5/6;10YR6/2	Common			very calcareous		2%		south-facing slopes			CHALK								
		55	120	C	10YR5/4	10YR5/6;10YR6/2	Very Many	Yes	55	very calcareous		1%				8%									
B055	LH	0	31	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	23.3	10.3	2	WE	3b
		31	56	C	10YR5/4	10YR5/6;10YR6/2	Few			moderately calcareous		1%													
		56	60	C	10YR5/4	10YR5/6;10YR6/2	Many	Yes	58	very calcareous		1%				4%	CHALK								
		60	120	IMP																					
B056	LH	0	30	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD				I	3a	22.1	9.5	2	WE	3a*
		30	40	C	10YR5/4					moderately calcareous		2%				1%	CHALK								
		40	IMP																						
B057	LH	0	24	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	20.6	7.5	2	WE	3b

		24	42	C	10YR5/4	10YR5/6;10YR6/2	Common			moderately calcareous		1%												
		42	120	C	10YR5/4	10YR5/1	Very Many	Yes	70	very calcareous		1%				6%	CHALK							
B058	ZL	0	37	C	7.5YR4/3					non-calcareous	level	3%	2%	1%				Yes	II	3b	25	11.8	2	WE	3b
		37	49	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very slightly calcareous		1%												
		49	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Many		65	very calcareous		1%				8%	CHALK							
		65	120	C	7.5YR6/2			Yes		very calcareous		1%				10%	CHALK							
B059	ZL	0	35	C	7.5YR4/3					non-calcareous	level	2%						Yes	II	3b	24.8	11.8	2	WE	3b
		35	45	C	7.5YR5/6					very slightly calcareous		1%												
		45	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		1%				5%	CHALK							
		65	120	C	7.5YR6/2					very calcareous		1%				5%	CHALK							
B060	LH	0	28	C	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	22.2	9.1	2	WE	3b
		28	48	C	10YR5/4					moderately calcareous		1%												
		48	120	C	10YR5/4	10YR5/1	Very Many	Yes	65	very calcareous		1%				6%	CHALK							

* B001 - Isolated point of Grade 1, mapped as Grade 2. B010 and B056 - Isolated points of Grade 3a, mapped as Grade 3b. B017 - Isolate point of Grade 2, mapped as Grade 3a.

Site C

Climate Data:

Auger Bore No	National Grid Reference	ALT (m AOD)	AAR (mm)	AT0 (day °C)	FCD	MDMWHT (mm)	MDMPOT (mm)
C001	SP833681	118	620	1344	129	104	94
C018	SP829684	119	622	1343	129	104	94
C025	SP839683	113	618	1349	128	104	95
C040	SP832685	116	621	1345	129	104	94
C050	SP839685	117	620	1345	129	104	94

Auger Bore No	Surveyor Initials	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Gleyed Horizon	Depth to Gley	CaCo3%	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Hard Stone Type	Soft Stone Content % >2mm	Soft Stone Type	Slowly permeable layer (SPL) < 80cm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Limiting Factor	Final ALC Grade
C001	LH	0	32	C	10YR4/2					very calcareous	level	5%	3%	1%	HARD	3%	CHALK	Yes	II	3a	17.5	3.5	2	WE	3a
		32	70	C	2.5Y5/3	10YR5/6	Very Many	Yes	45	very calcareous		2%				15%									
		70	120	IMP																					
C002	LH	0	32	mCL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD				I	1	20.3	9.7	2	DR	2
		32	60	C	10YR5/3					non-calcareous		2%													
		60	85	C	10YR5/3	10YR5/8	Few			very calcareous		1%				3%	CHALK								
		85	90	SCL	10YR5/8					very calcareous		1%				3%									
		90	120	IMP																					
C003	LH	0	20	mCL	10YR4/2					non-calcareous	level	3%	1%	1%	HARD				I	1	29.4	11.7	2	Flood	3b
		20	45	mCL	10YR4/3					non-calcareous		2%													
		45	70	SCL	7.5YR4/6					non-calcareous		12%													
		70	120	IMP																					
C004	LH	0	33	C	10YR4/2					moderately calcareous	level	4%	2%	1%	HARD	1%	CHALK		I	2	18.5	4.8	2	WE/DR	2
		33	70	C	10YR5/4	10YR5/6	Common			very calcareous		2%				8%									
		70	120	IMP																					
C005	LH	0	33	C	10YR4/2					very calcareous	level	5%	3%	1%	HARD	3%	CHALK	Yes	II	3a	17.7	3.7	2	WE	3a
		33	120	C	2.5Y5/3	10YR5/6	Very Many	Yes	45	very calcareous		2%				15%									
C006	ZL	0	32	C	10YR4/2					very calcareous	level	2%				2%		Yes	II	3a	16.8	5.7	2	WE	3a
		32	69	C	10YR5/6	7.5YR6/1;10YR6/8	Common	Yes	69	very calcareous		2%				10%									
		69	120	C	10YR6/1					very calcareous		10%				15%									

C007	ZL	0	37	C	10YR3/3				very calcareous	level	2%					Yes	II	3a	17	4.8	2	WE	3a
		37	70	C	10YR5/6	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		10%			15%	CHALK							
		70	120	C	10YR6/1					very calcareous		10%			15%								
C008	ZL	0	36	C	7.5YR3/3					very calcareous	level	2%			1%		Yes	II	3a	21.4	8	2	WE	3a
		36	70	C	7.5YR5/4	7.5YR6/1;10YR6/8	Few			very calcareous		1%			6%	CHALK							
		70	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		2%			5%								
C009	ZL	0	29	C	7.5YR3/3					very slightly calcareous	level	1%					Yes	II	3a	16.7	4.4	2	WE	3a
		29	55	C	7.5YR5/4	7.5YR6/1;10YR6/8	Few			very slightly calcareous		1%			1%	CHALK							
		55	120	C	7.5YR6/3	7.5YR6/1;10YR6/8	Common	Yes	55	very calcareous		8%			10%								
C010	LH	0	35	C	10YR4/2					moderately calcareous	level	3%	1%	1%	HARD	1%	CHALK		I	2	19.9	6.1	2	WE/DR	2
		35	120	C	10YR5/4	10YR5/6;10YR6/1	Common	Yes	86	very calcareous		2%				10%							
C011	LH	0	30	C	10YR4/3					moderately calcareous	level	3%	1%	1%	HARD	1%	CHALK		I	2	17.6	3.6	2	WE/DR	2
		30	120	IMP																			
C012	LH	0	30	mCL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD				I	1	9.2	18.5	2	DR	2
		30	55	hCL	10YR4/4					non-calcareous		2%											
		55	80	SCL	10YR4/4					non-calcareous		<1%											
		80	120	LfS	10YR5/4					non-calcareous		<1%											
C013	LH	0	34	C	10YR4/2					very calcareous	level	5%	3%	1%	HARD	3%	CHALK	Yes	II	3a	18.1	4.3	2	WE	3a
		34	120	C	2.5Y5/3	10YR5/6	Very Many	Yes	45	very calcareous		2%				12%							

C014	LH	0	31	C	10YR4/3				non-calcareous	level	2%	1%	<1%	HARD			Yes	I	3a	20.4	6.8	2	WE	3a
		31	73	C	10YR5/3	10YR5/6	Few		moderately calcareous		2%				4%	CHALK								
		73	120	C	1.5Y5/3	10YR5/8;10YR6/1	Very Many	Yes	75	very calcareous		1%			8%									
C015	ZL	0	36	C	10YR3/3					very calcareous	level	2%			1%		Yes	II	3a	21.5	7.8	2	WE	3a
		36	70	C	10YR5/4	10YR6/1;10YR6/8	Few	Yes	70	very calcareous		2%			10%	CHALK								
		70	120	C	10YR5/3					very calcareous		2%			15%									
C016	ZL	0	33	C	10YR3/3					very calcareous	level	2%			1%		Yes	II	3a	20.2	6.6	2	WE	3a
		33	69	C	10YR5/4	10YR6/1;10YR6/8	Few	Yes	70	very calcareous		2%			10%	CHALK								
		69	120	C	10YR5/3					very calcareous		2%			15%									
C017	ZL	0	37	C	7.5YR3/3					slightly calcareous		3%	2%	1%				I	2	20	8	2	WE/DR	2*
		37	53	C	7.5YR6/4	10YR6/8	Common			slightly calcareous		1%			1%									
		53	87	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous		2%			10%	CHALK								
		87	120	C	7.5YR6/3					very calcareous		10%			20%									
C018	JP	0	25	C	10 YR 4/2					non-calcareous	level	1%	2%	<1%	HARD			I	3a	18.2	4.7	2	WE	3a
		25	35	C	10 YR 4/2					slightly calcareous		2%			HARD	1%	CHALK							
		35	65	C	10 YR 5/6					very calcareous		2%			HARD	5%	CHALK							
		65	90	C	10 YR 5/6					very calcareous						20%	CHALK							
		90	120	IMP																				
C019	JP	0	25	C	10 YR 4/2					non-calcareous	level	2%	1%	<1%	HARD			I	3a	16.9	2.5	2	WE	3a
		25	65	C	7.5 YR 4/6					slightly calcareous		5%			HARD	1%	CHALK							

		65	90	C	2.5 Y 6/6				very calcareous						25%	CHALK								
		90	120	IMP																				
C020	JP	0	20	C	10 YR 4/2				non-calcareous	level	1%	1%	<1%	HARD			I	3a	-0.6	-14.1	3a	WE/DR	3a
		20	30	C	10 YR 3/4				slightly calcareous		1%			HARD										
		30	65	C	2.5 Y 5/4	10 YR 5/8	Common		moderately calcareous		25%			HARD	5%	CHALK								
		65	120	IMP																				
C021	JP	0	25	hCL	10 YR 4/2				very slightly calcareous	level	2%	1%	<1%	HARD			I	2	17.9	2.4	2	Flood	3b
		25	50	hCL	10 YR 5/4				moderately calcareous		1%			HARD	1%	CHALK								
		50	120	IMP																				
C022	LH	0	34	C	10YR4/2				very calcareous	level	2%	1%	<1%	HARD	2%	CHALK		2	24.2	10.6	2	WE/DR	2
		34	120	C	10YR4/3				very calcareous		1%				3%									
C023	LH	0	22	hCL	10YR4/2				non-calcareous	level	2%	1%	<1%	HARD	1%	CHALK	Yes	II	3a	26.9	-9.2	2	WE	3a
		22	38	hCL	10YR4/3				moderately calcareous		3%				1%									
		38	52	hCL	10YR5/3				very calcareous		2%				4%									
		52	120	C	2.5Y5/3	10YR5/8;10 YR6/1	Very Many	Yes	68	very calcareous		2%			8%									
C024	ZL	0	36	C	7.5YR4/3					non-calcareous	level	3%	2%	1%				I	3a	25.1	11.6	2	WE	3a
		36	53	C	7.5YR6/4	Mn				slightly calcareous		1%												
		53	86	C	7.5YR6/4	7.5YR6/1;1 0YR6/8	Common	Yes	86	very calcareous		2%			8%	CHALK								
		86	120	C	7.5YR6/3					very calcareous		2%			10%									
C025	ZL	0	37	C	7.5YR3/3					non-calcareous	level	3%	2%	1%				I	3a	22.6	10.9	2	WE	3a

		37	56	C	7.5YR4/3	7.5YR6/1;10YR6/8	Few			non-calcareous		1%												
		56	120	C	5YR4/3	7.5YR6/1;10YR6/8	Common			non-calcareous		8%												
C026	JP	0	32	C	10 YR 4/2					non-calcareous	level	1%	2%	<1%	HARD				I	3a	25.3	12.1	2	WE	3a
		32	60	C	10 YR 5/6	10 YR 5/8	Common			moderately calcareous		2%			HARD	2%	CHALK							
		60	100	C	2.5 Y 5/4	10 YR 5/8;10YR6/1	Many	Yes	90	very calcareous		1%			HARD	2%	CHALK							
C027	JP	0	35	C	10 YR 4/2					non-calcareous	level	1%	2%	<1%	HARD				I	3a	26	12.9	1	WE	3a
		35	75	C	10 YR 5/6	10 YR 5/8	Many			very calcareous		2%			HARD	3%	CHALK							
		75	120	C	2.5 Y 5/4	10 YR 5/8;10YR6/1	Many	Yes	80	very calcareous		2%			HARD	5%	CHALK							
C028	JP	0	25	C	10 YR 4/2					non-calcareous	level	2%	2%	<1%	HARD				I	3a	18.1	5.4	2	WE	3a
		25	65	C	7.5 YR 4/6					slightly calcareous		5%			HARD									
		65	90	C	2.5 Y 6/6					very calcareous		5%			HARD	20%	CHALK							
		90	120	IMP																				
C029	JP	0	35	C	10 YR 4/2					non-calcareous	level	5%	2%	<1%	HARD				I	3a	22.6	7.7	2	WE	3a
		35	90	C	2.5 Y 6/6					very calcareous		1%			HARD	25%	CHALK							
		90	120	IMP																				
C030	JP	0	29	C	10 YR 4/2					slightly calcareous	level	1%	1%	1%	HARD	1%	CHALK	Yes	II	3a	23.2	7.8	2	WE	3a
		29	50	C	7.5 YR 4/6	10 YR 5/8	Common			slightly calcareous		2%			HARD	3%	CHALK							
		50	100	C	2.5 Y 5/4	10 YR 5/8;10YR6/1	Many	Yes	65	very calcareous						30%	CHALK							
		100	120	IMP																				
C031	JP	0	25	C	10 YR 4/2					non-calcareous	level	1%	1%	<1%	HARD			Yes	I	3a	16.2	5	2	WE	3a
		25	70	C	2.5 Y 5/4	10 YR 5/8	Common			moderately calcareous		5%			HARD	5%	CHALK							

		70	90	C	2.5 Y 5/4	10 YR 5/8;10YR6/1	Many	Yes	75	very calcareous		10%			HARD	15%	CHALK							
		90	120	IMP																				
C032	LH	0	31	C	10YR4/2					moderately calcareous	level	3%	2%	1%	HARD	2%	CHALK		I	2	21.3	7.8	2	Flood	3b
		31	80	C	10YR5/3					very calcareous		2%				5%								
		80	120	C	10YR5/4	10YR6/1	Many	Yes	88	very calcareous		2%				8%								
C033	LH	0	10	C	10YR4/2					moderately calcareous	level	2%	1%	<1%	HARD	1%	CHALK	Yes	II	3a	10.3	-3.3	2	WE	3a
		10	38	C	10YR4/3					moderately calcareous		3%				2%								
		38	120	C	2.5Y5/3	10YR5/8;10 YR6/1	Very Many	Yes	45	very calcareous		3%				12%								
C034	ZL	0	29	C	7.5YR3/3					very slightly calcareous		2%						Yes	II	3a	19.6	6.3	2	WE	3a
		29	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	70	very slightly calcareous		1%				8%	CHALK							
		70	120	C	10YR5/2					very calcareous		2%				8%								
C035	ZL	0	36	C	10YR5/3					non-calcareous		2%						Yes	II	3b	22.9	9.5	2	WE	3b
		36	53	C	10YR5/4	10YR6/1;10 YR6/8	Common	Yes	45-50	non-calcareous		0%												
		53	68	C	10YR5/4	10YR6/1;10 YR6/8	Common			very calcareous		2%				10%	CHALK							
		68	120	C	10YR5/2			Yes	68	very calcareous		2%				5%								
C036	ZL	0	37	C	10YR3/3					non-calcareous		2%						Yes	II	3b	22.9	9.8	2	WE	3b
		37	68	C	10YR5/4	10YR6/1;10 YR6/8; Mn	Common	Yes	68	non-calcareous		1%												
		68	120	C	10YR5/2					very calcareous		2%				15%	CHALK							

C037	ZL	0	34	C	7.5YR4/3					non-calcareous	level	3%	2%	1%				Yes	II	3b	21	7.9	2	WE	3b
		34	63	C	7.5YR5/4					non-calcareous		1%													
		63	68	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few	Yes	68	very calcareous		1%				3%									
		68	120	C	7.5YR6/3	7.5YR6/1;10YR6/8	Common			very calcareous		2%				3%	CHALK								
C038	JP	0	32	C	10 YR 4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	20.5	6.3	2	WE	3a
		32	60	C	2.5 Y 6/6	10 YR 6/1	Common			very calcareous		1%			HARD	15%	CHALK								
		60	120	IMP																					
C039	JP	0	35	C	10 YR 4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	21.2	7.3	2	WE	3a
		35	80	C	7.5 YR 4/6					slightly calcareous		5%			HARD	2%	CHALK								
		80	120	C	2.5 Y 6/6					very calcareous						20%	CHALK								
C040	JP	0	28	C	10 YR 4/2					non-calcareous	level	1%	1%	<1%	HARD				I	3a	16.5	5.3	2	WE	3a
		28	45	C	10 YR 4/2					very slightly calcareous		2%			HARD										
		45	100	C	2.5 Y 5/4	10 YR 5/8;10YR6/1	Common			moderately calcareous		2%			HARD	15%	CHALK								
		100	120	IMP																					
C041	LH	0	29	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD				I	3a	19.3	5.9	2	Flood	3b
		29	90	C	10YR5/3					moderately calcareous		2%				1%	CHALK								
		90	100	C	10YR5/6	10YR6/1	Many			very calcareous		1%				6%									
C042	LH	0	32	C	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			Yes	II	3b	21.2	7.5	2	WE	3b
		32	55	C	10YR5/4	7.5YR4/4	Few			very calcareous		1%				6%	CHALK								
		55	60	C	10YR5/3	10YR6/1	Very Many	Yes	55	very calcareous		1%				10%									

C043	ZL	0	36	C	10YR3/3				non-calcareous	level	2%				Yes	II	3b	22.9	9.8	2	WE	3b
		36	65	C	10YR5/4	10YR6/1;10 YR6/8; Mn	Common	Yes	65	non-calcareous		1%											
		65	120	C	10YR5/2					very calcareous		2%		15%	CHALK								
C044	ZL	0	29	C	10YR3/3					non-calcareous	level	3%	1%			Yes	II	3b	19.7	6	2	WE	3b
		29	52	C	10YR5/4	10YR6/1;10 YR6/8; Mn	Common			non-calcareous		1%											
		52	65	C	10YR5/3	10YR6/1;10 YR6/8; Mn	Common	Yes	65	very calcareous		2%		15%	CHALK								
		65	120	C	10YR5/2					very calcareous		2%		15%									
C045	ZL	0	36	C	10YR3/3					non-calcareous	level	2%				Yes	II	3b	21.4	8.9	2	WE	3b
		36	65	C	10YR5/4	10YR6/1;10 YR6/8; Mn	Common	Yes	65	very slightly calcareous		1%		2%	CHALK								
		65	120	C	7.5YR5/2					very calcareous		5%		20%									
C046	ZL	0	35	C	10YR3/3					very slightly calcareous	level	2%		1%		Yes	II	3a	21.7	8.3	2	WE	3a
		35	64	C	10YR6/6	10YR2/1; Mn	Common	Yes	64	very calcareous		2%		5%	CHALK								
		64	120	C	10YR6/2					very calcareous		2%		10%									
C047	ZL	0	29	C	7.5YR4/3					very slightly calcareous	level	2%		1%		Yes	II	3a	20.2	7	2	WE	3a
		29	68	C	7.5YR6/4	10YR6/1;10 YR6/8; Mn	Common			very slightly calcareous		1%		1%									
		68	78	C	7.5YR6/4	10YR6/1;10 YR6/8; Mn	Common	Yes	70	very calcareous		1%		5%	CHALK								
		78	120	C	7.5YR6/2					very calcareous		1%		5%									
C048	ZL	0	38	C	7.5YR3/3					very slightly calcareous		3%				Yes	II	3a	23	9.1	2	WE	3a

		38	55	C	7.5YR6/4	10YR6/1;10 YR6/8; Mn	Common			very slightly calcareous	1%									
		55	66	C	7.5YR6/4	10YR6/1;10 YR6/8; Mn	Many	Yes	66	very calcareous	1%		30%	CHALK						
		66	120	C	7.5YR6/2					very calcareous	2%		5%							
C049	ZL	0	37	C	7.5YR3/3					non-calcareous	2%				Yes	II	3b	18.6	9.6	2	WE	3b
		37	66	C	7.5YR4/4	10YR6/1;10 YR6/8; Mn	Common	Yes	66	non-calcareous	1%											
		66	120	C	7.5YR6/2					very calcareous	15%		10%	CHALK								
C050	ZL	0	37	C	10YR3/3					non-calcareous	2%				Yes	II	3b	22.2	10.4	2	WE	3b
		37	70	C	10YR5/4	10YR6/1;10 YR6/8; Mn	Common	Yes	55	non-calcareous												
		70	120	C	10YR6/2	10YR6/1;10 YR6/8; Mn	Common			very calcareous	5%		10%	CHALK								

* C017 - Isolated point of Grade 2, mapped as Grade 3a.

Site D

Climate Data:

Auger Bore No	National Grid Reference	ALT (m AOD)	AAR (mm)	AT0 (day °C)	FCD	MDMWHT (mm)	MDMPOT (mm)
D001	SP840670	108	609	1356	126	106	97
D011	SP841676	113	615	1350	128	105	96
D020	SP842679	112	616	1351	128	105	96
D036	SP844684	115	619	1347	128	104	95

Auger Bore No	Surveyor Initials	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Gleyed Horizon	Depth to Gley	CaCo3%	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Hard Stone Type	Soft Stone Content % >2mm	Soft Stone Type	Slowly permeable layer (SPL) < 80cm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Limiting Factor	Final ALC Grade
D001	ZL	0	29	hCL	7.5YR4/2					non-calcareous	level	1%						Yes	II	3a	20.9	7.2	2	WE	3a
		29	73	C	7.5YR6/4			Yes	65	non-calcareous		1%													
		73	120	C	7.5YR6/3					very calcareous		1%				10%									
D002	ZL	0	35	C	7.5YR4/2					non-calcareous		2%							I	3a	17.7	3.2	2	WE	3a
		35	88	C	7.5YR5/4					non-calcareous	level	8%													
		88	105	SC	7.5YR5/4	7.5YR2/1; Mn	Common			very calcareous		8%													
		105	120	C	7.5YR5/6	7.5YR2/1; Mn	Common			very calcareous		1%				2%									
D003	ZL	0	28	C	7.5YR4/2					very calcareous	level	3%				3%		Yes	II	3a	16.1	2.2	2	WE	3a
		28	55	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very calcareous		1%				5%									
		55	69	C	7.5YR6/3	7.5YR6/1	Very Many	Yes	69	very calcareous		1%				5%									
		69	120	C	7.5YR6/1					very calcareous		1%				5%									
D004	ZL	0	35	hCL	7.5YR4/2					non-calcareous	level	2%							I	2	20.5	7.4	2	WE/DR	2
		35	50	C	7.5YR5/4					non-calcareous		5%													
		50	120	C	7.5YR5/6	7.5YR6/1;10YR6/8	Few			very slightly calcareous		5%				1%									
D005	ZL	0	35	C	7.5YR4/3					very calcareous	level	2%						Yes	II	3a	20.1	6.3	2	WE	3a
		35	66	C	10YR5/4	7.5YR6/1;10YR6/8	Few			very calcareous		1%				2%									
		66	120	C	7.5YR6/3			Yes	66	very calcareous		1%				5%									
D006	ZL	0	28	hCL	7.5YR4/3					non-calcareous	gently sloping	2%							I	2	17.4	3.2	2	WE/DR	2

		28	52	hCL	7.5YR4/2					non-calcareous		3%											
		52	120	C	7.5YR5/4	7.5YR6/1	Few			very calcareous		3%			2%								
D007	ZL	0	36	C	7.5YR4/3					non-calcareous	level	2%					Yes	I	3a	19.9	6.4	2	WE	3a
		36	69	C	10YR5/4	7.5YR6/1;10YR6/8	Few			non-calcareous		2%											
		69	120	C	7.5YR6/3			Yes	75	very calcareous		2%			5%								
D008	ZL	0	37	C	7.5YR4/3					very calcareous	level	2%			1%			I	2	21	7	2	WE/DR	2*
		37	70	C	7.5YR5/4	7.5YR6/1;10YR6/8	Common			very calcareous		1%			8%								
		70	120	C	10YR5/4	7.5YR6/1;10YR6/8	Common			very calcareous		1%			8%								
D009	ZL	0	37	C	7.5YR4/2					very calcareous	level	1%			1%		Yes	II	3a	21.2	7.4	2	WE	3a
		37	68	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		1%			10%								
		68	120	C	7.5YR6/3					very calcareous		2%			5								
D010	LH	0	29	hCL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			I	2	20.9	7.2	2	WE/DR	2
		29	120	C	10YR4/3					non-calcareous		1%											
D011	LH	0	26	C	10YR4/2					non-calcareous	level	5%	3%	1%	HARD	2%	CHALK	Yes	I	3a	15.5	1.6	2	WE	3a
		26	55	C	10YR4/4					moderately calcareous		2%			2%								
		55	86	C	10YR4/4					very calcareous		2%			8%								
		86	120	C	10YR4/4	10YR6/8;10YR6/1	Many	Yes	78	very calcareous		1%			8%								
D012	LH	0	32	hCL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			I	2	22.1	8.3	2	WE/DR	2
		32	70	C	10YR4/4					non-calcareous		1%											

		70	120	C	10YR4/4					non-calcareous		1%												
D013	LH	0	29	C	10YR4/2					very calcareous	level	8%	4%	3%	HARD	2%	CHALK	Yes	II	3a	13.1	-1	2	WE	3a
		29	120	C	10YR5/4	10YR5/6	Very Many	Yes	55	very calcareous		3%				15%								
D014	LH	0	26	C	10YR4/2					moderately calcareous	level	4%	2%	1%	HARD	2%	CHALK	Yes	II	3a	15.6	1.5	2	WE	3a
		26	45	C	10YR5/4					very calcareous		2%				6%								
		45	120	C	Gley 1 5/10Y	10YR5/6	Very Many	Yes	45	very calcareous		2%				15%								
D015	LH	0	34	C	10YR4/2					moderately calcareous	level	3%	2%	<1%	HARD	1%	CHALK		I	2	29.5	5.4	2	WE/DR	2
		34	100	C	10YR4/4	10YR5/6, Mn	Few			very calcareous		1%				6%								
		100	120	fS	10YR6/6					slightly calcareous		0%												
D016	LH	0	29	C	10YR4/2					very calcareous	level	4%	2%	1%	HARD	2%	CHALK	Yes	II	3a	16.3	2.2	2	WE	3a
		29	120	C	10YR5/6	10YR6/1	Very Many	Yes	45	very calcareous		2%	1%			15%								
D017	ZL	0	30	C	7.5YR4/2					non-calcareous	level	2%						Yes	II	3b	18.7	5.4	2	WE	3b
		30	69	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	69	non-calcareous		1%												
		69	120	C	7.5YR6/3					very calcareous		2%				5%	CHALK							
D018	ZL	0	30	C	7.5YR3/2					very calcareous	level	5%	2%	1%				Yes	II	3a	17.2	3.3	2	WE	3a
		30	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	70	very calcareous		1%				10%	CHALK							
		70	120	C	7.5YR6/3					very calcareous		2%				5%	CHALK							
D019	ZL	0	30	C	7.5YR3/2					non-calcareous	level	5%	3%	1%				Yes	II	3b	17.3	4	2	WE	3b
		30	55	C	7.5YR6/3					very slightly calcareous		1%												

		55	75	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			slightly calcareous		1%											
		75	120	C	7.5YR6/3	7.5YR6/1;10YR6/8	Many	Yes	70	very calcareous		2%			5%	CHALK							
D020	ZL	0	34	C	7.5YR3/2					non-calcareous	level	2%			1%	CHALK	Yes	II	3b	20.7	7.2	2	WE	3b
		34	67	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few	Yes	67	very calcareous		1%			5%	CHALK							
		67	120	C	7.5YR6/3	10YR6/8	Common			very calcareous		2%	2%	1%	5%	CHALK							
D021	ZL	0	32	C	7.5YR3/2					non-calcareous	level	3%					Yes	II	3b	19.8	6.1	2	WE	3b
		32	51	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very calcareous		1%											
		51	62	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	62	very calcareous		2%			10%								
		62	120	C	7.5YR6/2					very calcareous		2%			10%	CHALK							
D022	ZL	0	29	C	7.5YR3/2					slightly calcareous	level	2%					Yes	II	3a	18.2	4.7	2	WE	3a
		29	65	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous		2%			1%	CHALK							
		65	120	C	7.5YR6/2			Yes	65	very calcareous		2%			5%								
D023	ZL	0	29	C	7.5YR3/2					very calcareous	level	2%					Yes	II	3a	18.3	4.9	2	WE	3a
		29	68	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		3%			2%	CHALK							
		68	120	C	7.5YR6/3					very calcareous		2%			5%								
D024	ZL	0	33	C	7.5YR4/3					very calcareous	level	3%			1%		Yes	II	3a	20.2	6.9	2	WE	3a
		33	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	70	very calcareous		2%			10%								
		70	120	C	7.5YR6/2					very calcareous		1%			10%	CHALK							
D025	ZL	0	35	C	7.5YR3/2					non-calcareous	level	2%						I	3a	21.2	7.4	2	WE/DR	3a
		35	80	C	7.5YR6/4	10YR6/8	Few			very calcareous		1%			3%	CHALK							

		80	120	C	7.5YR6/3	7.5YR6/1;10YR6/8	Many			very calcareous		1%				5%								
D026	ZL	0	35	C	10YR4/2					very calcareous	level	2%						Yes	II	3a	21.5	7.9	2	WE	3a
		35	77	C	7.5YR6/4	7.5YR6/1;10YR6/8	Many	Yes	69	very calcareous		1%				1%								
		77	120	C	10YR6/2					very calcareous		1%				5%	CHALK							
D027	ZL	0	29	C	7.5YR4/2					very calcareous	level	2%							I	2	17.8	3.5	2	WE/DR	2
		29	75	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very calcareous		2%				20%	CHALK							
		75	120	C	10YR5/4	7.5YR6/1;10YR6/8	Common			very calcareous		2%				20%								
D028	LH	0	30	C	10YR4/2					non-calcareous	gently sloping	2%	1%	<1%	HARD				I	3a	19.3	5.7	2	WE	3a
		30	120	C	10YR5/4	10YR5/6;10YR6/1, Mn	Very Many	Yes	80	non-calcareous		1%												
D029	LH	0	32	C	10YR4/2					very calcareous	level	5%	2%	2%	HARD	2%	CHALK	Yes	II	3a	17.7	4.2	2	WE	3a
		32	64	C	10YR5/4					very calcareous		2%				4%								
		64	120	C	Gley 1 5/10Y	10YR5/6;10YR6/1	Very Many	Yes	64	very calcareous		2%				10%								
D030	ZL	0	35	C	7.5YR3/2					very calcareous		3%	2%	1%					I	2	18.5	5.2	2	WE/DR	2
		35	55	C	10YR5/6	10YR6/8	Few			very calcareous		5%				15%	CHALK							
		55	120	C	7.5YR6/3	7.5YR6/1;10YR6/8	Common			very calcareous		5%				15%								
D031	LH	0	29	C	10YR4/2					moderately calcareous	level	3%	2%	<1%	HARD	1%	CHALK	Yes	I	2	18.2	4.7	2	WE/DR	2
		29	120	C	10YR5/4	10YR6/8;10YR6/1	Many	Yes	78	very calcareous		2%				8%								
D032	LH	0	29	C	10YR4/2					non-calcareous	level	3%	2%	1%	HARD	1%	CHALK		I	3a	18.2	4.4	2	WE/DR	3a
		29	50	C	10YR4/3					moderately calcareous		2%				1%								

		50	78	C	10YR5/4					very calcareous		2%				4%								
		78	120	C	10YR5/4	10YR5/6;10YR6/1	Very Many	Yes	80	very calcareous		1%				5%								
D033	LH	0	31	C	10YR4/2					very calcareous	level	4%	2%	1%	HARD	1%	CHALK	Yes	II	3a	18.2	4.4	2	WE	3a
		31	120	C	10YR5/4	10YR5/6;10YR6/1	Very Many	Yes	54	very calcareous		2%				12%								
D034	LH	0	33	C	10YR4/2					moderately calcareous	level	3%	2%	1%	HARD	1%	CHALK		I	2	20	6.6	2	WE/DR	2
		33	55	C	10YR5/4	10YR5/6;10YR6/1	Common			very calcareous		2%				5%								
		55	120	IMP																				
D035	LH	0	30	C	10YR4/2					non-calcareous	gently sloping	3%	1%	1%	HARD	1%	CHALK		I	3a	18.5	4.8	2	WE/DR	3a
		30	77	C	10YR4/4	10YR5/6	Few			moderately calcareous		2%				1%								
		77	120	C	10YR5/4	10YR5/6;10YR6/1	Very Many	Yes	86	very calcareous		1%				8%								
D036	LH	0	29	C	10YR4/2					very calcareous	level	5%	3%	1%	HARD	2%	CHALK	Yes	II	3a	16.8	3.1	2	WE	3a
		29	85	C	10YR5/4	10YR6/8;10YR6/1	Very Many	Yes	55	very calcareous		2%				10%								
		85	120	IMP																				
D037	LH	0	34	C	10YR4/2					moderately calcareous	level	3%	2%	1%	HARD	1%	CHALK	Yes	II	3a	20.5	6.9	2	WE	3a
		34	59	C	10YR4/3					very calcareous		2%				3%								
		59	90	C	10YR5/4	10YR6/8;10YR6/1	Very Many	Yes	60	very calcareous		2%				15%								
		90	120	IMP																				

* D008 - Isolated point of Grade 2, mapped as Grade 3a.

Site E

Climate Data:

Auger Bore No	National Grid Reference	ALT (m AOD)	AAR (mm)	AT0 (day °C)	FCD	MDMWHT (mm)	MDMPOT (mm)
E007	SP841675	78	589	1391	123	112	104
E016	SP844652	88	593	1381	123	110	102
E054	SP848654	95	596	1370	124	109	101
E091	SP841657	87	595	1380	124	110	102
E138	SP837661	104	604	1361	125	108	99
E156	SP850662	96	597	1370	124	109	101
E173	SP845664	109	605	1355	125	107	98
E190	SP855666	95	599	1371	124	109	101
E219	SP846668	105	606	1360	126	107	98
E243	SP854670	99	603	1366	125	108	100
E258	SP847673	109	611	1355	127	106	97
E280	SP851676	113	612	1350	126	106	96

Auger Bore No	Surveyor Initials	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Gleyed Horizon	Depth to Gley	CaCo3%	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Hard Stone Type	Soft Stone Content % >2mm	Soft Stone Type	Slowly permeable layer (SPL) < 80cm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Limiting Factor	Final ALC Grade
E001	ZL	0	30	C	10YR4/3					non-calcareous	moderately sloping	1%						Yes	II	3a	12.8	-2	2	Flood	3b
		30	55	C	10YR5/8	7.5YR6/1;10YR6/8	Common	Yes	55	non-calcareous		1%													
		55	120	C	10YR6/2					non-calcareous		1%													
E002	ZL	0	38	mCL	10YR3/3					non-calcareous	gently sloping	1%							I	1	31.6	2	2	Flood	3b
		38	55	mCL	10YR4/3					non-calcareous		1%													
		55	78	hCL	10YR5/6					non-calcareous															
		78	92	hCL	5YR4/3	7.5YR6/1;10YR6/8	Common			non-calcareous															
		92	120	C	5YR4/4	7.5YR6/1;10YR6/8	Common			non-calcareous															
E003	ZL	0	35	mCL	10YR4/3					non-calcareous	gently sloping					10%			I	1	-16.8	-6.2	3a	Flood	3b
		35	58	mCL	10YR5/6					non-calcareous						10%	SANDSTONE/IRONSTONE								
		58	80	hCL	10YR5/8	7.5YR6/1;10YR6/8	Few			non-calcareous						15%									
		80		Bedrock																					
E004	ZL	0	35	mCL	10YR4/6					non-calcareous	gently sloping	2%				25%	SANDSTONE/IRONSTONE		I	1	10.5	2.3	2	DR	2
		35	90	mCL	10YR5/8					non-calcareous		2%				25%									
		90	120	SCL	10YR5/8					non-calcareous		2%				10%									
E005	ZL	0	35	SCL	10YR4/3					non-calcareous	moderately sloping	2%				25%	SANDSTONE/IRONSTONE		I	1	-43.7	-35.7	3b	DR	3b
		35	50	SCL	5YR4/3					non-calcareous		2%				5%									

		50		Bedrock						non-calcareous												
E006	ZL	0	32	mCL	10YR5/3					non-calcareous	moderately sloping					10%		I	1	1.8	-9.8	3a	WE	3a
		32	90	hCL	10YR5/4					non-calcareous						20%								
		90	120	hCL	10YR5/8											20%								
E007	LH	0	28	hCL	10YR4/4					non-calcareous	moderately sloping	3%	2%	<1%	HARD			I	2	28.7	9.1	2	Flood	3b
		28	55	hCL	10YR4/4					non-calcareous		3%												
		55	87	hCL	7.5YR4/4					non-calcareous		8%												
		87	120	C	Gley 1 5/10Y	10YR5/8	Many	Yes	87	non-calcareous		1%												
E008	ZL	0	35	mCL	10YR4/4					non-calcareous	gently sloping	2%						I	1	19.9	1	2	Flood	3b
		35	76	hCL	7.5YR4/5					non-calcareous		2%												
		76	120	SCL	5YR4/3	7.5YR6/1;10YR6/8	Few			non-calcareous		2%												
E009	ZL	0	40	mCL	10YR5/6					non-calcareous	gently sloping					20%	SANDSTONE/IRONSTONE	I	1	15.1	-7.7	2	DR	2
		40	95	SCL	10YR5/8					non-calcareous						25%								
		95	120	SCL	10YR5/8					non-calcareous						25%								
E010	ZL	0	30	mCL	7.5YR4/3					non-calcareous								I	1	19.1	-4.5	2	DR	2
		30	68	mCL	7.5YR4/4					non-calcareous						20%								
		68	80	hCL	7.5YR6/4					non-calcareous						5%	SANDSTONE/IRONSTONE							
		80		Bedrock												25%								
E011	ZL	0	35	mCL	10YR4/4					non-calcareous	level					20%		I	1	8.4	-7.8	2	DR	2

		35	85	SCL	10YR5/6					non-calcareous					30%							
		85	120	hCL	10YR5/8					non-calcareous					20%							
E012	LH	0	24	LmS	10YR4/4					non-calcareous	gently sloping	6%	4%	1%	HARD		I	1	26.2	-21.3	3a	DR	3a
		24	35	LmS	7.5YR4/4					non-calcareous		8%										
		35	60	LmS	7.5YR4/4					non-calcareous		8%										
		60	120	LfS	7.5YR5/8					non-calcareous		12%			Gravel							
E013	LH	0	22	mSL	10YR4/4					non-calcareous	level	8%	6%	1%	HARD		I	1	21	0.8	2	DR	2
		22	30	mSL	7.5YR4/4					non-calcareous		6%										
		30	120	SCL								6%										
E014	ZL	0	30	hCL	7.5YR4/3					non-calcareous	moderately sloping		2%				I	2	11.2	-10.6	3a	DR	3a
		30	70	SCL	5YR5/4					non-calcareous			5%									
		70	120	SCL	5YR4/4					non-calcareous			10%		10%	SANDSTONE/IRONSTONE						
E015	ZL	0	35	hCL	10YR4/4					non-calcareous	moderately sloping	2%					Yes	II	3a	16.6	0.2	2	WE	3a
		35	55	hCL	10YR5/6	7.5YR6/1;10YR6/8	Few			non-calcareous		2%										
		55	68	C	10YR6/6	7.5YR6/1;10YR6/8	Common	Yes	68	non-calcareous		2%										
		68	120	C	10YR6/2					non-calcareous		2%										
E016	ZL	0	30	mCL	7.5YR4/3					non-calcareous	moderately sloping	2%			25%			I	1	10.6	-10	2	Flood	3b
		30	65	mCL	7.5YR4/4					non-calcareous		2%			20%	SANDSTONE/IRONSTONE							
		65	120	SCL	5YR4/4					non-calcareous		2%			30%								

E017	ZL	0	30	mCL	10YR4/3	non-calcareous	gently sloping	1%			15%		I	1	23.6	-2.8	2	DR	2
		30	65	mCL	10YR5/3	non-calcareous		1%			10%	SANDSTONE/IRONSTONE							
		65	120	SCL	10YR5/6	non-calcareous					25%								
E018	ZL	0	35	mSL	7.5YR5/4	non-calcareous	level	1%			15%		I	1	0.6	-3.8	3a	DR	3a
		35	55	mSL	7.5YR5/6	non-calcareous					3%	SANDSTONE/IRONSTONE							
		55	80	LfS	10YR4/6	non-calcareous					3%								
		80		Bedrock															
E019	ZL	0	30	mSL	7.5YR5/4	non-calcareous	level	2%			25%		I	1	26.8	-14.7	3a	DR	3a
		30	48	mSL	7.5YR5/6	non-calcareous					20%	SANDSTONE/IRONSTONE							
		48	120	SCL	10YR4/6	non-calcareous					25%								
E020	LH	0	22	mSL	10YR4/4	non-calcareous	level	5%	3%	1%	HARD		I	1	-45.6	-37.2	3b	Depth	3b
		22	40	mSL	10YR4/4	non-calcareous		8%											
		40		Bedrock															
E021	LH	0	22	mSL	10YR4/2	non-calcareous	level	5%	3%	1%	HARD		I	1	60.7	10	2	DR	2
		22	50	mSL	7.5YR4/4	non-calcareous		3%											
		50	78	LfS	10YR5/4	non-calcareous		3%											
		78	120	mSL	7.5YR4/4	non-calcareous		8%											
E022	ZL	0	36	fSL	10YR3/3	non-calcareous	level	8%	2%	1%		2%	SANDSTONE/IRONSTONE	I	1	-41.8	-33.8	3b	Depth	3b
		36	45	LmS	10YR6/6	non-calcareous						10%							
		45		Bedrock															

E023	ZL	0	30	fSL	10YR3/6			non-calcareous	gently sloping	2%		2%	SANDSTONE/IRON		I	1	-5.4	2.7	3a	DR	3a
		30	80	SCL	10YR6/6			non-calcareous				8%									
		80		Bedrock				non-calcareous													
E024	ZL	0	35	mCL	1			non-calcareous	gently sloping	1%		15%		Yes	II	2	17.4	2.9	2	Flood	3b
		35	55	mCL	7.5YR4/4	Yes	55	non-calcareous		1%		2%	SANDSTONE/IRON STONE								
		55	120	C	7.5YR3/1			non-calcareous		1%		3%									
E025	ZL	0	30	mCL	10YR4/3			non-calcareous	gently sloping	1%		30%			I	1	-46.2	-38.2	3b	DR	3b
		30	50	SCL	10YR5/6			non-calcareous		1%		30%	SANDSTONE/IRON STONE								
		50		Bedrock																	
E026	ZL	0	33	mCL	10YR4/3			non-calcareous	level			20%			I	1	-40.5	-32.5	3b	DR	3b
		33	50	SCL	10YR5/6			non-calcareous				30%	SANDSTONE/IRON STONE								
		50		Bedrock																	
E027	ZL	0	35	mCL	7.5YR4/3			non-calcareous	level	5%		15%			I	1	-7.7	-4.5	3a	DR	3a
		35	78	SCL	7.5YR5/6			non-calcareous				20%	SANDSTONE/IRON STONE								
		78	90	hCL	7.5YR5/8			non-calcareous				25%									
		90		Bedrock																	
E028	ZL	0	35	fSL	7.5YR4/3			non-calcareous	level	5%		3%			I	1	12.8	13.4	2	DR	2*
		35	85	fSL	7.5YR5/6			non-calcareous				15%	SANDSTONE/IRON STONE								
		85		Bedrock																	
E029	LH	0	30	hCL	10YR4/3			non-calcareous	level	5%	3%	2%	HARD	15%	SANDSTONE/IRON STONE		I	2	-67.1	-58.6	4	Depth	3b
		30		Bedrock																		
E030	LH	0	35	mSCL	10YR4/3			non-calcareous	level	5%	3%	1%	HARD	3%			I	1	-47.1	-38.6	3b	Depth	3b
		35	40	mSL	7.5YR4/4			non-calcareous		5%				15%	SANDSTONE/IRON STONE							
		40		Bedrock																		

E031	LH	0	36	mSL	10YR4/4		non-calcareous		5%	3%	2%	HARD	15%	SANDSTONE/IRONSTONE	I	1	-28.7	-20.2	3b	DR	3b
		36	60	SCL	7.5YR4/6		non-calcareous						25%								
		60		Bedrock																	
E032	ZL	0	36	fSL	10YR3/3		non-calcareous								I	1	27.8	-4.4	2	DR	2
		36	55	fSL	10YR6/4		non-calcareous														
		55	120	LfS	10YR6/4		non-calcareous														
E033	JP	0	38	SCL	10 YR 4/4		non-calcareous	level	2%			HARD	20%		I	2	9.3	-7.5	2	WE/DR	2
		38	85	SCL	10 YR 4/6		non-calcareous						30%	SANDSTONE/IRONSTONE							
		85	120	SCL	10 YR 5/6		non-calcareous						35%								
E034	RM	0	40	SCL	7.5YR4/4		non-calcareous		5%			HARD			I	1	26	1	2	DR	2
		40	120	SCL					10%			HARD									
E035	JP	0	25	SCL	10 YR 4/6		non-calcareous	level				HARD	25%		I	1	-61.4	-53.4	4	DR	3a
		25	40	SCL	10 YR 4/6		non-calcareous						45%								
		40		Bedrock																	
E036	ZL	0	36	mCL	10YR4/3		non-calcareous	level					20%		I	1	-9	-7.5	3a	DR	3a
		36	90	SCL	10YR5/6		non-calcareous						30%	SANDSTONE/IRONSTONE							
		90		Bedrock																	
E037	ZL	0	30	mCL	10YR4/3		non-calcareous	level					5%	SANDSTONE/IRONSTONE	I	1	-25.3	-10.4	3b	DR	3b
		30	55	mCL	5YR4/4		non-calcareous						25%								
		55	65	hCL			non-calcareous						25%								
		65		Bedrock																	
E038	ZL	0	35	mCL	10YR3/3		non-calcareous	level	2%				15%		I	1	-25.3	-12.7	3b	DR	3b
		35	70	mCL	10YR5/6		non-calcareous						30%	SANDSTONE/IRONSTONE							

		70		Bedrock																	
E039	LH	0	24	hCL	10YR4/3			non-calcareous	level	2%	1%	1%	HARD	5%		I	2	-44.4	-35.9	3b	Depth	3b
		24	40	hCL	7.5YR4/4			non-calcareous		2%				10%	SANDSTONE/IRONSTONE							
		40		Bedrock																	
E040	LH	0	34	mSL	10YR4/3			non-calcareous	level	2%	1%	1%	HARD	5%		I	1	-45.9	-37.4	3b	Depth	3b
		34	40	mSL	7.5YR4/4			non-calcareous		2%				10%	SANDSTONE/IRONSTONE							
		40		Bedrock																	
E041	LH	0	30	mCL	10YR4/3			non-calcareous	level	1%	1%		HARD	5%		I	1	-42.5	-34	3b	Depth	3b
		30	40	hCL	7.5YR4/4			non-calcareous		1%				8%	SANDSTONE/IRONSTONE							
		40		Bedrock																	
E042	ZL	0	35	mSL	7.5YR4/4			non-calcareous	level	1%				10%		I	1	44.7	6.9	2	DR	2
		35	95	fSL	5YR6/8			non-calcareous		1%				25%								
		95	120	fSL	10YR5/4			non-calcareous		1%				10%								
E043	ZL	0	32	fSL	10YR4/4			non-calcareous	level	1%				5%		I	1	58.2	15.6	1		1*
		32	100	fSL	10YR6/6			non-calcareous		1%				5%								
		100	120	fSL	10YR5/6			non-calcareous		1%				15%								
E044	JP	0	35	SCL	10 YR 3/4			non-calcareous	level	2%						Yes	I	1	36.3	4.3	2	DR	2
		35	62	C	10 YR 4/6			non-calcareous		1%												
		62	80	mCL	10 YR 5/1	Yes	75	non-calcareous		1%												
		80	90	fS	10 YR 6/6	Yes		non-calcareous														
		90	100	LfS	10 YR 5/1	Yes		non-calcareous														
		100	120	fS	10 YR 8/2	Yes		non-calcareous														

E045	JP	0	35	SCL	10 YR 3/3		non-calcareous	level	5%	3%	1%	HARD		I	1	-46.4	-38.4	3b	DR	3b
		35	40	SC	10 YR 5/8		non-calcareous		40%											
		40		Bedrock																
E046	JP	0	32	SCL	10 YR 3/3		non-calcareous	gently sloping	5%	10%	5%	HARD		I	1	-24.9	-0.9	3b	DR	3b
		32	70	LcS	10 YR 5/8		non-calcareous		35%											
		70		Bedrock																
E047	JP	0	35	SCL	10 YR 4/6		non-calcareous	moderately sloping	25%	5%	1%	HARD		I	1	10.4	-4.9	2	Flood	3b
		35	65	SCL	10 YR 5/6		non-calcareous		2%											
		65	80	C	2.5 Y 6/2		non-calcareous		1%											
				IMP																
E048	RM	0	30	SCL	7.5YR3/4		non-calcareous	gently sloping	5%					I	1	-31.4	-23.4	3b	Depth	3b
		30	50	SCL					15%			HARD								
				Bedrock																
E049	RM	0	40	MSL	7.5YR4/3		non-calcareous		5%			HARD		I	1	-18	-10	3a	DR	3a
		40	50	MSL	7.5YR4/4				10%			HARD								
		50		Bedrock																
E050	JP	0	35	SCL	10 YR 4/6		very slightly calcareous	level	15%	5%	1%	HARD		I	1	-7.6	0.7	3a	DR	3a
		35	80	SCL	5 YR 4/6		slightly calcareous		15%											
		80		Bedrock																
E051	JP	0	35	SCL	10 YR 4/3		non-calcareous	level	25%	5%	1%	HARD		I	1	-41.5	-33.5	3b		3b
		35	50	SCL	5 YR 4/6		non-calcareous		25%											
		50																		
E052	ZL	0	30	mSL	7.5YR4/3		non-calcareous	level	2%				15%	I	1	13.5	9.8	2	DR	2*

		30	47	mCL	7.5YR4/4			non-calcareous		2%		10%	SANDSTONE/IRONSTONE							
		47	90	mSL	7.5YR6/4			non-calcareous		2%		25%								
		90		Bedrock																
E053	LH	0	35	hCL	10YR4/4			non-calcareous	level	2%	HARD	10%	SANDSTONE/IRONSTONE	I	2	-45.7	-37.2	3b	Depth	3b
		35	40	hCL	7.5YR4/4			non-calcareous		2%		12%								
		40		Bedrock																
E054	LH	0	32	hCL	10YR4/4			non-calcareous	level	2%	HARD	4%		I	2	5.8	11.4	2	WE/DR	2*
		32	85	hCL	7.5YR4/4			non-calcareous		2%		4%								
		85		Bedrock																
E055	ZL	0	30	mCL	7.5YR4/4			non-calcareous	level	2%				I	1	7.5	3	2	WE	2
		30	55	mCL	7.5YR5/3			non-calcareous												
		55	90	SCL	7.5YR4/4			non-calcareous												
		90		Bedrock																
E056	ZL	0	30	mCL	7.5YR4/3			non-calcareous	moderately sloping	2%				I	1	32.6	3	2	Flood	3b
		30	58	hCL	5YR5/3			non-calcareous		1%										
		58	120	SCL	5YR5/4			non-calcareous		2%										
E057	ZL	0	30	mCL	10YR4/3			non-calcareous	moderately sloping	2%		1%	Yes	II	2	13.8	-3.4	2	Flood	3b
		30	70	hCL	10YR5/4	Yes	68	non-calcareous		1%		1%								
		70	120	C	10YR5/1			non-calcareous												
E058	ZL	0	30	hCL	7.5YR4/3			non-calcareous	gently sloping	2%				II	3a	11.5	-0.4	2	Flood	3b

		30	45	hCL	7.5YR6/3		non-calcareous		1%									
		45	69	C	10YR5/6		non-calcareous		1%									
		69	120	C	10YR6/2		non-calcareous											
E059	JP	0	35	SCL	10 YR 3/4		non-calcareous	gently sloping	2%				I	1	7.4	-6.6	2	DR	2
		35	40	fS	10 YR 4/6		non-calcareous		1%									
		40	50	SCL	10 YR 5/1		non-calcareous		1%									
		50	55	fS	10 YR 4/1		non-calcareous		1%									
		55	60	SCL	10 Yr 5/1		non-calcareous											
		60	70	SC	10 YR 5/1		non-calcareous											
		70	120	C	10 YR 6/2		non-calcareous											
E060	JP	0	35	SCL	10 YR 4/4		non-calcareous	level	5%	1%	1%	HARD	I	1	23.9	11.2	2	DR	2
		35	37	P	10 YR 5/4		non-calcareous		0%									
		37	55	SCL	10 YR 2/1		non-calcareous		10%									
		55	120	C	10 YR 5/6		non-calcareous		1%									
E061	JP	0	35	SL	10 YR 3/3		non-calcareous	level	5%	10%	5%	HARD	I	1	-16.2	-7.3	3a	DR	3a*
		35	80	LcS	10 YR 5/6		non-calcareous		15%									
		80		Bedrock															
E062	JP	0	40	SCL	10 YR 3/4		non-calcareous	moderately sloping	1%			HARD	I	1	-27.9	-19.9	3b	Flood	3b
		40	50	SCL	10 YR 5/6		non-calcareous		2%									
		50		Bedrock															

E063	RM	0	33	MSL	7.5YR4/4				non-calcareous	level						I	1	29	5	2	DR	2
		33	45	SCL	7.5YR4/4																	
		45	120	SCL							20%			HARD								
E064	RM	0	40	SCL	7.5YR3/3				non-calcareous							I	1	26	12	2	DR	2
		40	45	SCL	7.5YR4/4																	
		45	50	C	10YR4/6	10YR5/6	Common															
		50	120	C																		
E065	JP	0	35	SCL	10 YR 3/3				slightly calcareous	level	2%	2%	1%	HARD		I	1	0	1	3a	DR	3a
		35	75	SC	10 YR 4/6				slightly calcareous		2%											
		75	85	LfS	10 YR 4/6				very slightly calcareous		1%											
		85		Bedrock																		
E066	JP	0	32	SL	10 YR 3/3				non-calcareous	level	5%	2%	1%	HARD		I	1	8.3	-13.7	3a	DR	3a
		32	65	LmS	10 YR 3/6				non-calcareous													
		65	75	mS	10 YR 5/8				non-calcareous													
		75	90	mS	10 YR 6/6				non-calcareous													
		90	120	SC	10 YR 6/2	7.5YR6/1;10YR6/8	Very Many	Yes	90 non-calcareous													
E067	JP	0	35	SCL	10 YR 4/6				non-calcareous	level	20%	2%	1%	HARD		I	1	-26.5	-18.4	3b	DR	3b
		35	80	SCL	5 YR 4/6				non-calcareous		35%											
		80		Bedrock																		
E068	RM	0	40	MCL	5YR4/3					level						I	1	-34.8	-26.3	3b	DR	3b
		40	55	MCL	5YR4/3																	
		50		Bedrock							20%			HARD								
E069	LH	0	31	hCL	10YR4/4				non-calcareous	level	4%	2%	1%	HARD	8%	SANDSTONE/IRONSTONE	I	2	-34.8	-26.3	3b	DR	3b
		31	50	hCL	7.5YR4/4				non-calcareous		3%			Gravel	20%							
		50		Bedrock																		

E070	LH	0	30	hCL	10YR4/4					non-calcareous	level	4%	2%	1%	HARD	8%	SANDSTONE/IRONSTONE		I	2	-54.5	-46	4	Depth	3b
		30	35	hCL	7.5YR4/4					non-calcareous		3%			Gravel	20%									
		35		Bedrock																					
E071	ZL	0	28	SCL	10YR4/4					non-calcareous	level	1%				15%	SANDSTONE		I	1	-34.9	-33.3	3b	DR	3b
		28	50	SCL	10YR5/6					non-calcareous		1%				1%									
		50		Bedrock																					
E072	ZL	0	35	SCL	5YR4/4					non-calcareous	level	1%				12%	SANDSTONE		I	1	19.1	-0.5	2	DR	2
		35	65	SCL	5YR4/6					non-calcareous						5%									
		65	120	C	5YR5/8					non-calcareous															
E073	ZL	0	35	hCL	10YR4/3					non-calcareous	moderately sloping	3%	2%	1%				Yes	II	3a	19.1	-0.5	2	DR	3a
		35	56	C	10YR7/8	7.5YR6/1	Common	Yes	56	non-calcareous		1%													
		56	120	C	10YR6/4					non-calcareous															
E074	RM	0	40	SCL	7.5YR3/4					non-calcareous	level								I	1	35	12	1		1*
		40	60	SCL	7.5YR4/4																				
		60	120	SCL								20%			HARD										
E075	ZL	0	36	mSL	10YR3/3					non-calcareous	level	8%	4%	2%	Pebble	2%	SANDSTONE		I	1	47.7	5.3	2	DR	2
		36	55	mSL	2.5YR5/3					non-calcareous						10%									
		55	95	cSL	10YR6/6					non-calcareous						10%									
		95	120	LfS	10YR7/6	10YR6/8	Few			non-calcareous															
E076	ZL	0	35	LfS	7.5YR4/3					non-calcareous	gently sloping	3%						Yes	II	2	24.9	8.5	2	WE/DR	2
		35	65	LfS	7.5YR6/4					non-calcareous		1%													

		65	85	fSL	7.5YR6/1			Yes	65-85	non-calcareous															
		85	90	SCL	7.5YR5/6					non-calcareous							20%	SANDSTONE							
		90		Bedrock																					
E077	JP	0	28	SCL	10 YR 3/4					non-calcareous	gently sloping	20%	5%	1%	HARD			I	1	17.4	-10.6	3a	Flood	3b	
		28	90	cSL	10 YR 5/6					non-calcareous		30%													
		90	120	SCL	10 YR 5/6					non-calcareous		15%													
E078	JP	0	26	SCL	10 YR 3/4					non-calcareous	gently sloping	5%	2%	1%	HARD			Yes	II	2	18.9	3	2	Flood	3b
		26	60	SCL	10 YR 5/6					non-calcareous		2%													
		60	120	C	2.5 Y 6/2	7.5 YR 6/1	Very Many	Yes	65	non-calcareous		1%													
E079	RM	0	40	MSL	7.5YR4/4					non-calcareous									I	1	29	5	2	DR	2
		40	50	SCL	7.5YR4/4							20%			HARD										
E080	JP	0	35	SCL	10 YR 3/3					non-calcareous	level	5%	10%	1%	HARD			I	1	-21.4	-8.5	3b	DR	3b	
		35	60	SCL	10 YR 4/6							50%													
		60		Bedrock																					
E081	JP	0	30	hCL	10 YR 3/3					non-calcareous	level	10%	2%	1%	HARD			I	1	10	-5	2	DR	2*	
		30	40	hCL	10 YR 4/6					slightly calcareous		2%													
		40	120	C	10 YR 4/6	7.5 YR 6/1	Common			very calcareous						15%	CHALK								
E082	JP	Not surveyed - inaccessible																				3a			
E083	JP	0	35	SCL	10 YR 3/3					non-calcareous	level	1%	2%	1%	HARD			I	1	50.7	8.5	2	DR	2*	
		35	60	SCL	10 YR 3/6					non-calcareous		1%													
		60	100	SL	10 YR 3/8					non-calcareous		5%													

		100	110	LfS	10 YR 6/6					non-calcareous										
		110	120	fS	10 YR 6/6					non-calcareous										
E084	RM	0	38	MSL	7.5YR3/3							1%		HARD		I	1	-8	-16	3a	DR	3a
		38	65	LMS	7.5YR4/4																	
		65	80	MS	7.5YR4/4																	
		80	110	MS	7.5YR6/4																	
		110	120																			
E085	RM	0	35	MCL	7.5YR4/4						level					I	1	40	14	1	Depth	3b
		35	45	MCL	7.5YR4/4																	
		45	120	MCL								20%		HARD								
E086	RM	0	40	MCL	7.5YR4/4							2%		HARD		I	1	40	11	1	Depth	3b
		40	50	SCL	5YR4/6																	
		50	120	SCL								20%		HARD								
E087	ZL	0	30	hCL	7.5YR4/2					non-calcareous	gently sloping	1%			Yes	II	3a	15.2	-0.2	2	Flood	3b
		30	52	hCL	7.5YR4/4	7.5YR6/1;10YR6/8	Few			non-calcareous												
		52	62	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	62	non-calcareous												
		62	120	C	7.5YR6/3					non-calcareous												
E088	RM	0	40	MSL	7.5YR4/4					non-calcareous						I	1	-4	-12	3a	DR	3a
		40	48	LMS	7.5YR4/4																	
		48	100	MS	7.5YR4/4																	
		100	120	MS																		
E089	ZL	0	30	mSL	7.5YR4/2					non-calcareous	gently sloping	8%		2%		I	1	4.7	-2.3	3a	DR	3a
		30	45	mSL	7.5YR4/4					non-calcareous		2%		2%	SANDSTONE							
		45	95	mSL	7.5YR6/4					non-calcareous		2%		30%								
		95	100	LmS	10YR7/8					non-calcareous		2%		5%								
		100		Bedrock																		
E090	RM	0	40	MSL	7.5YR4/4					non-calcareous	level					I	1	51	12	1	Flood	3b
		40	60	MCL	7.5YR4/6																	
		60	120	MCL								10%		HARD								
E091	RM	0	40	MSL	10YR4/4					very slightly calcareous						I	1	40	7	2	Depth	3b
		40	50	LMS	10YR4/6							20%										
		50	120	MS								10%										

E092	RM	0	40	MSL	7.5YR3/3					non-calcareous		7%	5%		HARD		I	1	-37.7	-27.7	3b	DR	3b
		40	50	MS								20%			HARD								
		50		Bedrock																			
E093	JP	0	29	SCL	10 YR 3/3					non-calcareous	level	10%	10%	1%	HARD		I	1	-18.4	-10.2	3a	DR	3a
		29	80	SCL	10 YR 4/6							25%											
		80		Bedrock																			
E094	JP	0	28	hCL	10 YR 3/3					non-calcareous	level	10%	5%	1%	HARD		I	1	-17.1	-9.1	3a	DR	3a
		28	65	C	10 YR 4/6					very slightly calcareous		2%											
		65	80	SC	10 YR 4/6					slightly calcareous		15%											
		80		Bedrock																			
E095	JP	0	30	hCL	10 YR 3/3					non-calcareous	level	10%	2%	1%	HARD		I	2	3.5	-8.3	3a	DR	3a
		30	100	C	10 YR 4/6	7.5YR6/1;10YR6/8	Very Many			very calcareous		15%											
		100	120	C	10 YR 5/2	7.5YR6/1;10YR6/8	Very Many	Yes	100	very calcareous		15%											
E096	RM	0	38	MSL	7.5YR2.5/3												I	1	-10	-18	3a	DR	3a
		38	48	LMS	7.5YR3/3																		
		48	75	MS	7.5YR4/6																		
		75	110	MS	10YR6/4																		
		110	120																				
E097	RM	0	40	MCL	5YR4/3							2%	1%		HARD		I	1	30	5	2	Depth	3b
		40	90	MCL	7.5YR4/6							30%			HARD								
		90	120	MCL																			
E098	RM	0	38	MCL	5YR4/4							3%	1%		HARD		I	1	39	11	1	Depth	3b
		38	55	SCL	5YR4/4							10%			HARD								
		55	120	SCL								20%			HARD								
E099	RM	0	40	SCL	7.5YR4/4												I	1	6	2	2	Depth	3b
		40	45	MSL	7.5YR4/4																		
		45		Sandstone																			
E100	RM	0	38	MSZL	7.5YR4/4						moderately	3%	1%		HARD	Yes	II	1	37	21	1		1*
		38	48	HCL	7.5YR4/6																		
		48	70	C	10YR5/3	10YR5/6	Many	Yes	48														
		70	90	C	10YR5/1	10YR5/6	Many																
		90	120	C																			
E101	RM	0	40	MSL	7.5YR3/3					non-calcareous	level						I	1	36	10	1		1
		40	65	MSL	7.5YR4/4																		
		65	80	MS	10YR5/6																		
		80	120	FS	10YR6/6																		

E102	RM	0	40	MSL	7.5YR4/4					non-calcareous	gently sloping	7%	5%	1%	HARD			I	1	33	0	2	DR	2
		40	48	MSL	7.5YR4/3																			
		48	70	LMS	7.5YR4/6							10%			HARD									
		70	90	SCL	7.5YR4/4																			
		90	120																					
E103	RM	0	45	MSL	10YR3/4					non-calcareous	level							I	1	50	11	1	Depth	3a
		45	50	MSL	10YR3/4																			
		50	120	MSL								10%			HARD									
E104	RM	0	30	MSL	7.5YR4/3					non-calcareous	level	5%	2%		HARD			I	1	-8	-13	3a	DR	3a
		30	45	MSL	7.5YR4/3					non-calcareous														
		45	55	MS	7.5YR4/6							10%			HARD									
		55	120	MS																				
E105	RM	0	40	MSL	10YR3/3					non-calcareous		5%			HARD			I	1	-5	-14	3a	DR	3a
		40	50	LMS	7.5YR3/4																			
		50	55	MS	7.5YR3/4																			
		55	120	MS																				
E106	RM	0	39	MCL	7.5YR4/3					non-calcareous								Yes	III	3a	35	19	1	WE	3a
		39	60	C	10YR4/6			Yes	39	non-calcareous														
		60	120	C								10%			HARD									
E107	RM	0	38	HCL	10YR3/4					non-calcareous								Yes	II	3a	39	23	1	WE	3a
		38	43	HCL	10Y3/4																			
		43	75	C	10YR5/3	10YR5/6	Common	Yes	43															
		75	90	C	10YR5/4											5%	CHALK							
		90	120	C												10%	CHALK							
E108	JP	0	25	hCL	10 YR 3/3					non-calcareous	level	2%	2%	1%	HARD			Yes	II	3b	11	-1.5	2	WE	3b
		25	60	C	10 YR 4/6					slightly calcareous		2%												
		60	120	C	10 YR 5/2	7.5YR6/1;10YR6/8	Very Many	Yes	65	very calcareous		10%												
E109	RM	0	39	C	10YR3/3					non-calcareous								Yes	II	3b	30	15	1	WE	3b
		39	50	C	10YR5/3					non-calcareous														
		50	90	C	10YR5/3	10YR5/6	Many	Yes	50	very slightly calcareous						6%	CHALK							
		90	120	C																				

		120	120																
E110	RM	0	38	MSL	10YR3/3						2%	1%	HARD		I	1	-9	-17	3a	DR	3a*
		38	55	LMS	7.5YR3/3																
		55	75	MS	7.5YR4/4																
		75	110	MS	10YR5/4																
		110	120	MS																	
E111	RM	0	40	MCL	7.5YR4/4						10%	5%	HARD		I	1	40	11	1	Depth	3b
		40	55	SCL	5YR4/4						10%		HARD								
		55	120	SCL							20%		HARD								
E112	RM	0	40	MCL	7.5YR4/4						2%	1%	HARD		I	1	49	19	1	Depth	2
		40	55	MCL	7.5YR4/4																
		55	120	MCL																	
E113	RM	0	38	MCL	10YR3/3					non-calcareous					I	1	50	20	1	Flood	3b
		38	110	HCL	7.5YR5/3																
		110	120	HCL																	
E114	RM	0	38	MSL	7.5YR4/4					non-calcareous					I	1	-1	-7	3a	DR	3a
		38	43	MSL	10YR4/4																
		43	70	LMS	7.5YR4/6																
		70	120	MSL	7.5YR5/6																
E115	RM	0	35	SCL	7.5YR4/4					very slightly calcareous	level				I	1	38	11	1		1
		35	45	SCL	7.5YR5/6					non-calcareous		10%	HARD								
		45	120	SCL	7.5YR4/4																
E116	RM	0	38	FSL	10YR3/4					non-calcareous					I	1	72	25	1		1
		38	100	FSL	10YR4/4																
		100	120																		
E117	RM	0	35	MCL	10YR3/3					non-calcareous	level				I	1	48	18	1		1
		35	70	MCL	10YR3/3					non-calcareous											
		70	120	MCL																	
E118	RM	0	33	HZCL	10YR3/3					non-calcareous	level			Yes	III	3b	37	21	1	WE	3b
		33	58	C	10YR5/3	10YR5/6	Common	Yes	33	non-calcareous											
		58	90	C	10YR5/3	10YR5/6	Many			slightly calcareous											
		90	120	C																	
E119	RM	0	39	HZCL	10YR4/3					non-calcareous					I	2	40	24	1	WE	2*
		39	80	C	10YR5/4					non-calcareous											

		80	90	C	2.5Y5/3	10YR5/6	Common	Yes	80	very slightly calcareous												
		90	120	C										10%	CHALK							
E120	RM	0	40	C	10YR4/3					slightly calcareous						Yes	II	3a	31	15	1	WE	3a
		40	48	C	10YR4/3					very calcareous												
		48	90	C	10YR5/3	10YR5/6	Common	Yes	48	very calcareous				5%	CHALK							
		90	120	C																		
E121	RM	0	30	SCL	7.5YR3/3												I	1	50	11	1		1*
		30	50	MSL	7.5YR4/3																		
		50	60	MSL	7.5YR4/4																		
		60	120	MSL																			
E122	RM	0	40	MCL	7.5YR4/4					non-calcareous	level	5%	3%		HARD		I	1	46	14	1		1*
		40	80	SCL	7.5YR4/6																		
		80	110	HCL	7.5YR4/6																		
		110	120	HCL																			
E123	RM	0	40	MCL	7.5YR4/4					non-calcareous		3%			HARD		I	1	41	14	1	Depth	2
		40	55	SCL	7.5YR5/6																		
		55		Bedrock																			
E124	RM	0	30	MCL	10YR4/4											Yes	II	2	33	17	1	WE	2
		30	40	MCL	10YR4/6					non-calcareous	level												
		40	50	SCL	10YR5/6																		
		50	90	C	10YR5/3	10YR5/6	Many	Yes	50	non-calcareous	moderately sloping												
		90	120	C																			
E125	RM	0	35	MSL	7.5YR3/4												I	1	38	11	1	Depth	3a
		35	45	SCL	7.5YR3/4																		
		45	120	SCL								15%			HARD								
E126	RM	0	38	SCL	7.5YR4/4												I	1	46	15	1		1
		38	55	SCL	7.5YR4/6							2%			HARD								
		55	90	SCL	7.5YR4/6																		
		90	120	SCL																			
E127	RM	0	40	MCL	7.5YR4/4					very slightly calcareous	level						I	1	51	22	1		1
		40	55	MCL	7.5YR5/6																		
		55	60	HCL	7.5YR5/6							5%			HARD								
		60	120	HCL								5%			HARD								
E128	RM	0	40	MCL	7.5YR3/3					non-calcareous	level	1%			HARD		I	1	54	23	1		1

		40	49	MCL	7.5YR4/4					non-calcareous										
		49	60	MCL	7.5YR4/6					non-calcareous										
		60	90	SCL	7.5YR4/6					non-calcareous										
		90	110	SCL	7.5YR4/6					non-calcareous										
		110	120	SCL																
E129	RM	0	20	MZCL	10YR3/3					very slightly calcareous	gently sloping				Yes	III	3a	34	18	1	WE	3b
		20	35	HZCL	10YR3/3					non-calcareous												
		35	50	C	10YR5/4	10YR5/6	Common			very slightly calcareous												
		50	70	C	10YR5/3	10YR5/6	Common			very slightly calcareous			10%	CHALK								
		70	120	C						very calcareous												
E130	RM	0	40	C	10YR3/3					non-calcareous					Yes	III	3b	32	15	1	WE	3b
		40	60	C	10YR5/3	10YR5/6	Common	Yes	40	slightly calcareous												
		60	90	C	2.6Y5/3	10YR5/6	Common			very calcareous			5%	CHALK								
		90	120	C									10%	CHALK								
E131	RM	0	39	C	2.5Y4/3					non-calcareous					Yes	III	3b	32	16	1	WE	3b
		39	75	C	2.5Y5/3	10YR5/6	Common	Yes	39	non-calcareous												
		75	120	C									10%	CHALK								
E132	RM	0	40	C	10YR3/3					slightly calcareous					Yes	III	3a	31	15	1	WE	3a
		40	90	C	10YR5/3	10YR5/6	Common	Yes	40	slightly calcareous												
		90	120	C																		
E133	RM	0	38	MSL								1%				I	1	51	12	1		1*
		38	100	MSL																		
		100	120	MSL																		
E134	RM	0	40	MCL	7.5YR3/3											I	1	50	20	1		1*
		40	50	MCL	7.5YR4/3																	

		50	60	MCL	7.5YR4/4																			
		60	120	MCL								20%			HARD									
E134a	LH	0	35	mSL	10YR4/3					non-calcareous	level	8%	4%	3%	HARD			I	1	-45.9	-37.2	3b	Depth	3b
		35	40	LmS	7.5YR4/4					non-calcareous		5%												
		40		Bedrock																				
E135	LH	0	32	mSL	10YR4/3					non-calcareous	moderately sloping	15%	8%	5%	HARD			I	1	-40.5	-32	3b	DR	3b
		32	50	mSL	7.5YR4/4					non-calcareous		25%			Gravel									
		50		Bedrock																				
E136	LH	0	32	hCL	10YR4/3					non-calcareous	moderately sloping	8%	4%	3%	HARD			I	2	25.5	9.5	2	WE	2
		32	75	hCL	7.5YR4/4	7.5YR6/2, Mn	Few			non-calcareous		4%												
		75	120	C	7.5YR4/4	7.5YR6/2, Mn	Common			non-calcareous		2%												
E137	RM	0	37	C	7.5YR4/4											Yes		II	3b	34	18	1	WE	3b
		37	48	C	7.5YR4/4																			
		48	90	C	7.5YR5/3	10YR5/6	Many	Yes	48	non-calcareous	moderately sloping													
		90	120	C																				
E138	RM	0	40	SCL	7.5YR4/3					very slightly calcareous	level							I	1	19	13	2	DR	2
		40	55	MSL	7.5YR4/3					non-calcareous		10%			HARD									
		55	75	MSL	7.5YR4/4																			
		75	85	MS	7.5YR4/6																			
		85	120	MS								15%			HARD									
E139	RM	0	35	SCL	7.5YR4/4					non-calcareous								I	1	45	14	1		1
		35	55	SCL	7.5YR5/4																			
		55	65	SCL	7.5YR5/6							10%			HARD									
		65	120	SCL								15%			HARD									
E140	RM	0	40	MZCL	10YR3/3					very slightly calcareous		2%			HARD			I	1	54	23	1		1
		40	60	MCL	7.5YR3/3					non-calcareous														

		60	80	SCL	7.5YR4/3					non-calcareous													
		80	100	HCL	7.5YR4/3																		
		100	120	HCL																			
E141	RM	0	39	HCL	10YR3/3					non-calcareous													
		39	43	HCL	10YR4/4					non-calcareous							Yes	II	3a	38	20	1	WE	3a
		43	65	C	10YR4/4					non-calcareous													
		65	90	C	10YR5/3	10YR5/6	Common	Yes	65	slightly calcareous			5%	CHALK									
		90	120	C																			
E142	RM	0	39	C	2.5Y4/3					slightly calcareous	level						Yes	III	3a	32	16	1	WE	3a
		39	60	C	2.5Y5/3	10YR5/6	Common	Yes	39	slightly calcareous													
		60	90	C	2.5Y5/3					very calcareous			5%	CHALK									
		90	120	C																			
E143	RM	0	40	C	2.5Y4/3					slightly calcareous	level						Yes	II	3a	31	15	1	WE	3a
		40	60	C	2.5Y5/3	10YR5/6	Few			very calcareous													
		60	80	C	2.5Y5/3	10YR5/6	Many	Yes	60	very calcareous			6%	CHALK									
		80	120	C									10%	CHALK									
E144	RM	0	40	C	10YR3/2					slightly calcareous							Yes	III	3a	31	15	1	WE	3a
		40	90	C	10YR5/3	10YR5/6	Many	Yes	40	very calcareous			6%	CHALK									
		90	120	C																			
E145	RM	0	40	FSL	10YR3/3													I	1	25	17	2	DR	2*
		40	65	FSL	10YR4/3																			
		65	100	LMS	7.5YR3/3																			
		100	120	LMS																			
E146	ZL	0	32	fSL	10YR4/3					non-calcareous	level	20%	5%	2%				I	1	-42.4	-33.4	3b	Depth	3b
		32	45	fSL	10YR4/4					non-calcareous		10%												
		45		Bedrock																				
E147	LH	0	35	hCL	10YR4/3					non-calcareous	gently sloping	4%	2%	1%	HARD		Yes	III	3b	23.4	15	2	WE	3b

		35	120	C	Gley 1 5/10Y	10YR5/6	Many	Yes	38	non-calcareous		1%												
E148	LH	0	30	hCL	7.5YR4/4					non-calcareous	level	35%	30%	5%	Gravel			I	2	-73.4	-65	4	Depth	3b
		30		Bedrock																				
E149	RM	0	38	MCL	7.5YR4/4							3%	2%		HARD			I	1	48	18	1		1*
		38	80	SCL	7.5YR4/6																			
		80	120	SCL																				
E150	RM	0	30	MSZL	7.5YR3/3					very slightly calcareous								I	1	22	14	2	DR	2
		30	40	MSZL	7.5YR3/2					very slightly calcareous														
		40	65	SCL	10YR3/4					very slightly calcareous														
		65	110	LMS	10YR4/6					non-calcareous														
		110	120	LMS																				
E151	RM	0	38	C	10YR4/3					slightly calcareous		1%			HARD		Yes	III	3a	30	14	1	WE	3a
		38	50	C	10YR5/3	10YR5/6	Common	Yes	38	slightly calcareous				5%	CHALK									
		50	78	C	10YR5/2	10YR5/6	Many			slightly calcareous				5%	CHALK									
		78	90	C	10YR5/3					very calcareous														
		90	120	C																				
E152	RM	0	40	HCL	10YR3/3					slightly calcareous		2%	1%				Yes	III	3a	35	19	1	WE	3a
		40	60	C	10YR5/3	10YR5/6	Common	Yes	40	very calcareous														
		60	90	C	10YR5/3	10YR5/6	Many			very calcareous														
		90	120	C																				
E153	RM	0	38	C	10YR4/2					moderately calcareous		2%	1%		HARD		Yes	III	3a	31	18	1	WE	3a
		38	100	C	10YR5/3	10YR5/6	Common	Yes	38	slightly calcareous														
		100	120	C																				

E154	RM	0	40	C	10YR4/2					very slightly calcareous						Yes	II	3b	32	16	1	WE	3b
		40	48	C	7.5YR4/3					non-calcareous													
		48	100	C	10YR5/3	10YR5/6	Common	Yes	48	slightly calcareous													
		100	120	C																			
E155	RM	0	40	MCL	10YR4/2												I	1	44	20	1		1*
		40	70	MSL	10YR4/4																		
		70	88	SCL	10YR4/4																		
		88	100	C	10YR5/2	10YR5/6	Many	Yes	88														
		100	120	C																			
E156	LH	0	18	mCL	10YR3/2					non-calcareous	level	2%	1%	<1%	HARD		Yes	II	2	-31.9	-20.5	3b	DR	3b
		18	45	hCL	10YR4/3	5YR4/4	Few			non-calcareous		1%											
		45	50	C	10YR5/3	5YR4/6;5YR 6/1	Many	Yes	45	non-calcareous		1%											
		50		Bedrock																			
E157	LH	0	30	mCL	10YR4/3					non-calcareous	level	10%	8%	2%	HARD			I	1	3	-12	3a	DR	3a*
		30	45	mCL	10YR4/3					non-calcareous		40%											
		45	120	mCL								40%											
E158	LH	0	32	mCL	7.5YR4/4					moderately calcareous	level	5%	3%	1%	HARD			I	1	11.6	-5.1	2	DR	2
		32	120	mCL	7.5YR4/4					moderately calcareous		35%	25%	15%	Gravel								
E159	LH	0	32	mCL	7.5YR4/4					non-calcareous	level	5%	3%	1%	HARD			I	1	10.6	-6.5	2	DR	2
		32	120	mCL	7.5YR4/4					non-calcareous		35%			gravel								
E160	RM	0	40	HZCL	7.5YR3/3					non-calcareous								I	2	46	21	1	WE	2
		40	50	HZCL	7.5YR3/3																		
		50	120	HZCL								10%			HARD								
E161	RM	0	35	C	2.5Y4/3					slightly calcareous							Yes	II	3a	30	14	1	WE	3a
		35	45	C	10YR4/4					very calcareous													
		45	90	C	10YR5/3	10YR5/6	Many	Yes	45							5%	CHALK						

		90	120	C																			
E162	RM	0	38	HZCL	10YR3/3					very slightly calcareous		8%	3%	4%				Yes	II	3a	39	23	1	WE	3a
		38	45	C	10YR5/3					slightly calcareous															
		45	90	C	10YR5/3	10YR5/6	Common	Yes	45							3%	CHALK								
		90	120	C																					
E163	RM	0	40	C	10YR3/3					non-calcareous		2%	1%					Yes	II	3b	32	16	1	WE	3b
		40	60	C	10YR4/4																				
		60	90	C	10YR5/3	10YR5/6	Many	Yes	30																
		90	120	C																					
E164	RM	0	38	C	10YR3/3					non-calcareous								Yes	II	3b	31	15	1	WE	3b
		38	60	C	10YR4/3					non-calcareous															
		60	90	C	10YR5/3	10YR5/6	Common	Yes	60	very calcareous															
		90	120	C																					
E165	RM	0	40	MCL	10YR4/3					non-calcareous		1%			HARD				I	1	50	20	1		1*
		40	90	SCL	10YR4/4																				
		90	120	SCL																					
E166	ZL	0	30	fSL	10YR4/3					non-calcareous	level	2%							I	1	71	25	1		1*
		30	105	fSL	10YR4/4					non-calcareous															
		105	120	fSL	10YR8/1					non-calcareous															
E167	LH	0	29	SCL	10YR4/2					non-calcareous	level	1%	1%	<1%	HARD				I	1	53.7	6.3	2	DR	2
		29	120	fS	2.5YR7/4	10YR5/8	Few			non-calcareous		0%													
E168	LH	0	36	mSL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD				I	1	65.2	17.4	1		1*
		36	75	mSL	10YR4/3	5YR4/4	Few			non-calcareous		1%													
		75	120	LfS	10YR6/1	10YR6/6	Many	Yes	95	non-calcareous		1%													
E169	LH	0	35	SCL	10YR4/2					non-calcareous	level	8%	4%	3%	HARD				I	1	20.8	-3.1	2	DR	2

		35	120	SCL	10YR4/3					non-calcareous		20%														
E170	LH	0	35	mCL	10YR4/4					non-calcareous	level	10%	6%	3%	HARD			I	1	19.3	2.6	2	DR	2		
		35	65	cSL	7.5YR4/4					non-calcareous		15%														
		65	120	SCL	7.5YR4/4					non-calcareous		35%			gravel											
E171	LH	0	28	mCL	7.5YR4/4					non-calcareous	strongly sloping	6%	3%	2%	HARD		Yes	II	2	73.5	21	1	Slope	3b		
		28	52	mCL	7.5YR4/4					very slightly calcareous		6%														
		52	120	cSL	Gley 1 5/10Y		Yes	55		slightly calcareous		1%														
E172	RM	0	30	C	10YR3/3					slightly calcareous							Yes	III	3a	31	15	1	WE	3a		
		30	40	C	10YR4/4					slightly calcareous																
		40	90	C	10YR5/3	10YR5/6	Common	Yes	40	slightly calcareous																
		90	120	C																						
E173	RM	0	38	HZCL	10YR3/3					very slightly calcareous							Yes	II	3a	39	23	1	WE	3a		
		38	45	C	10YR4/3					very calcareous																
		45	90	C	10YR5/3	10YR5/6	Common	Yes	45	very calcareous						6%	CHALK									
		90	120	C																						
E174	RM	0	40	C	10YR4/2					slightly calcareous		1%			HARD		Yes	II	3a	31	15	1	WE	3a		
		40	52	C	10YR4/3					very calcareous																
		52	90	C	10YR5/3	10YR5/6	Common	Yes	52																	
		90	120	C																						
E175	RM	0	35	C	10YR4/3					very slightly calcareous		1%	1%		HARD		Yes	II	3b	31	14	1	WE	3b		
		35	45	C	10YR5/3					very calcareous																
		45	90	C	10YR5/3	10YR5/6	Common	Yes	45																	

		90	120	C																				
E176	ZL	0	31	SZL	10YR4/2													I	1	84.4	38.4	1		1*
		31	75	fSL	10YR5/4																			
		75	120	fSL	10YR5/6																			
E177	LH	0	28	SCL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			I	1	34.1	9.1	2	DR	2
		28	90	SCL	10YR5/4	7.5YR4/6	Few			non-calcareous		1%												
		90	120	SC	Gley 1 5/10Y	10YR5/4	Many	Yes	90	non-calcareous		<1%												
E178	LH	0	37	mSL	10YR4/3					moderately calcareous	level	2%	1%	<1%	HARD			I	1	22.6	17.3	2	DR	2
		37	76	mSL	7.5YR4/4					moderately calcareous		1%												
		76	87	mSL	7.5YR5/6					very slightly calcareous		1%												
		87	120	fS	2.5Y6/1	2.5Y7/6	Very Many	Yes	87	non-calcareous		<1%												
E179	LH	0	35	fSL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD		Yes	II	1	70.3	34.6	1		1*
		35	92	mZCL	Gley 1 5/10Y			Yes	45	non-calcareous		<1%												
		92	120	mSL	2.5Y7/2					non-calcareous		<1%												
E180	LH	0	35	LmS	10YR4/2					non-calcareous	level	3%	2%	1%	HARD			I	2	22.4	-14.9	3a	DR	3a*
		35	95	LmS	7.5YR4/4					non-calcareous		2%												
		95	120	fS	2.5Y5/4					non-calcareous		1%												
E181	LH	0	34	fSL	10YR4/2					non-calcareous	level	5%	3%	1%	HARD			I	1	41.8	10	2	DR	2
		34	80	cSL	7.5YR4/4					non-calcareous		35%			gravel									
		80	120																					
E182	RM	0	35	HZCL	7.5YR4/3					non-calcareous							Yes	II	3a	51	19	1	WE	3a
		35	90	SCL	10YR5/2	10YR5/6	Many	Yes	35															
		90	120	SCL																				

E183	RM	0	40	C	10YR4/3					slightly calcareous	gently sloping						Yes	III	3a	31	15	1	WE	3a
		40	55	C	10YR5/3	10YR5/6	Common	Yes	40	very calcareous														
		55	120	C											3%	CHALK								
E184	RM	0	40	C	10YR4/2					non-calcareous														
		40	70	C	2.5Y5/2	10YR5/6	Common	Yes	40								Yes	III	3b	34	19	1	WE	3b
		70	90	C	2.5Y5/2	10YR5/6	Common								10%	CHALK								
		90	120																					
E185	ZL	0	35	mCL	7.5YR4/4					non-calcareous	level	2%						I	1	57.8	11.8	1		1*
		35	58	hCL	10YR5/4					non-calcareous														
		58	89	SCL	10YR5/6	7.5YR6/1;10YR6/8	Common	Yes	89	non-calcareous														
		89	120	fSL	10YR7/1					non-calcareous														
E186	ZL	0	36	hCL	7.5YR4/3					non-calcareous	level	1%						I	2	22.4	28.9	2	WE/DR	2
		36	85	hCL	7.5YR6/4	7.5YR6/1;10YR6/8	Common			non-calcareous														
		85	120	hCL	7.5YR6/4	7.5YR6/1;10YR6/8	Common			non-calcareous		2%												
E187	ZL	0	29	C	7.5YR4/3					non-calcareous	level	1%					Yes	II	3b	19.2	-0.2	2	WE	3b
		29	45	C	7.5YR4/4					very slightly calcareous		1%												
		45	65	SCL	10YR5/4	7.5YR6/1	Common	Yes	65-85	very calcareous		5%			2%	CHALK								
		65	120	C	7.5YR6/3					very calcareous		1%			15%									
E188	ZL	0	37	mCL	7.5YR4/3					non-calcareous	level	2%					Yes	II	2	22.1	30.1	2	WE	2
		37	85	C	10YR5/4	7.5YR6/1;10YR6/8	Common	Yes	65	non-calcareous														
		85	120	SCL	10YR8/2					non-calcareous														
E189	ZL	0	36	fSL	10YR3/3					non-calcareous	level	2%					Yes	II	1	69.9	21.3	1		1*

		36	65	fSL	10YR5/6			Yes	65	non-calcareous	2%											
		65	105	LfS	10YR8/2					non-calcareous												
		105	120	LfS	10YR8/6					non-calcareous												
E190	ZL	0	38	mCL	10YR4/3					non-calcareous		3%			I	1	-14.7	-1.3	3a	Flood	3b	
		38	59	mCL	5YR4/4					non-calcareous		5%	IRONSTONE									
		59		Bedrock																		
E191	RM	0	40	HCL	10YR4/3					non-calcareous				Yes	III	3b	34	17	1	WE	3b	
		40	49	HCL	10YR4/2					non-calcareous												
		49	70	C	10YR5/3	10YR5/6	Common	Yes	40	very calcareous												
		70	120	C								10%	CHALK									
E192	RM	0	40	HCL	10YR4/2					non-calcareous				Yes	III	3b	38	23	1	WE	3b	
		40	50	C	10YR5/3	10YR5/6	Common	Yes	40	non-calcareous												
		50	90	C	10YR5/3	10YR5/6	Many			very slightly calcareous												
		90	120	C																		
E193	RM	0	40	HCL	10YR4/3					non-calcareous				Yes	I	2	72	20	1	WE	2*	
		40	78	SCL	10YR4/4																	
		78	90	FSZL	10YR5/3	10YR5/6	Common	Yes	78													
		90	120	FSZL																		
E194	RM	0	35	MSZL	7.5YR3/3									Yes	II	1	54	23	1	Flood	3a	
		35	40	MCL	10YR4/3	10YR5/6	Many															
		40	55	SCL	10YR5/3																	
		55	90	FSZL	10YR6/2	10YR5/6	Many	Yes	55													
		90	120	FSZL																		
E195	RM	0	40	C	10YR4/2					non-calcareous				Yes	II	3b	34	19	1	WE	3b	
		40	48	C	10YR4/4					slightly calcareous												
		48	70	C	10YR5/4					very calcareous												

		70	90	C	10YR5/3	10YR5/6	Common	Yes	70	very calcareous													
		90	120	C										10%	CHALK								
E196	RM	0	40	C	10YR4/2					non-calcareous		3%				HARD			Yes	II	3b	33	18	1	WE	3b
		40	70	C	10YR4/4	10YR5/6	Common			very slightly calcareous															
		70	90	C	2.5Y5/3	10YR5/6	Common	Yes	70					10%	CHALK										
		90	120	C																					
E197	RM	0	39	C	10YR4/2					slightly calcareous									Yes	III	3a	34	18	1	WE	3a
		39	50	C	10YR5/3	10YR5/6	Common	Yes	39	very calcareous															
		50	60	C	10YR5/3	10YR5/6	Many			very calcareous															
		60	120																						
E198	ZL	0	33	hCL	10YR5/3					non-calcareous	level	2%								I	2	18.5	8.6	2	WE/DR	2
		33	54	C	10YR5/4	7.5YR6/1;10YR6/8	Common			non-calcareous		1%														
		54	99	C	10YR6/4	7.5YR6/1;10YR6/8	Common			non-calcareous		1%														
		99	120	C	10YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous		1%		5%	CHALK										
E199	ZL	0	36	hCL	7.5YR4/4					non-calcareous	level	2%								I	2	22.5	-2.8	2	WE	2
		36	120	C	7.5YR5/6	7.5YR6/1;10YR6/8	Few			non-calcareous		2%														
E200	ZL	0	25	C	7.5YR4/4					non-calcareous	level	2%							Yes	II	3b	14.7	-10.4	2	WE	3b
		25	52	C	7.5YR4/4	7.5YR6/1;10YR6/8	Few	Yes	52	non-calcareous		2%													
		52	120	C	7.5YR4/4	7.5YR6/1;10YR6/8	Common			very calcareous		2%		5%	CHALK										
E201	ZL	0	32	C	7.5YR3/3					very slightly calcareous	level	2%							Yes	II	3b	17.4	-7.9	2	WE	3b
		32	67	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	67	slightly calcareous		2%		1%	CHALK										
		67	120	C	Gley 2 6/5B					very calcareous		2%		1%											

E202	ZL	0	31	C	7.5YR4/4					non-calcareous	level	2%			Yes	II	3b	18.4	-7.6	2	WE	3b
		31	55	C	7.5YR6/3	7.5YR6/1;10YR6/8	Common			non-calcareous												
		55	89	C	7.5YR6/1			Yes	55	non-calcareous												
		89	120	C	7.5YR6/2					non-calcareous												
E203	ZL	0	35	SCL	7.5YR3/3					non-calcareous	level				Yes	II	2	59.2	13.2	1	WE	2
		35	69	SCL	7.5YR6/3	7.5YR6/1;10YR6/8	Common			non-calcareous												
		69	88	fSL	7.5YR6/2			Yes	69-88	non-calcareous												
		88	120	LmS	7.5YR5/8	7.5YR6/1;10YR6/8	Common			non-calcareous												
E204	ZL	0	35	mCL	10YR4/3					non-calcareous	level					I	1	46.4	15.4	1		1*
		35	50	SCL	5YR4/3	7.5YR6/1; Mn	Common			non-calcareous		10%										
		50	120	SCL	10YR7/8	7.5YR6/1; Mn	Common			non-calcareous												
E205	RM	0	39	HCL	10YR4/3					non-calcareous	level				Yes	III	3b	38	13	1	WE	3b
		39	50	C	2.5Y5/3	10YR5/6	Common	Yes	39	slightly calcareous												
		50	90	C	2.5Y5/3	10YR5/6	Many			slightly calcareous												
		90	120	C																		
E206	RM	0	40	HCL	10YR4/3					non-calcareous					Yes	III	3b	38	23	1	WE	3b
		40	90	C	10YR5/3	10YR5/6	Common	Yes	40	non-calcareous												
		90	120	C																		
E207	RM	0	35	MCL	10YR3/3											I	1	91	37	1	Flood	3a
		35	40	MCL	10YR4/4																	
		40	90	FSZL	10YR4/4	10YR5/6	Many															
		90	120	FSZL																		
E208	RM	0	40	C	10YR4/3	10YR5/6				non-calcareous					Yes	III	3b	33	18	1	WE	3b
		40	90	C	10YR5/3	10YR5/6	Many	Yes	40	very calcareous			10%	CHALK								

		90	120																		
E209	RM	0	40	C	10YYR4/2					slightly calcareous	level					Yes	II	3a	33	18	1	WE	3a
		40	70	C	10YR4/4	10YR5/6	Common			very calcareous													
		70	90	C	2.5Y5/2	10YR5/6	Common	Yes	70	very calcareous				10%	CHALK								
		90	120	C																			
E210	RM	0	39	C	10YR4/2					slightly calcareous						Yes	II	3a	34	19	1	WE	3a
		39	70	C	10YR4/4					very calcareous													
		70	90	C	10YR5/3	10YR5/6	Common	Yes	70	very calcareous													
		90	120	C																			
E211	ZL	0	36	C	7.5YR4/4					very slightly calcareous	level	2%			1%	Yes	II	3a	18.3	4.2	2	WE	3a
		36	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few	Yes	68	very calcareous		2%			10%								
		70	120	C	7.5YR6/3					very calcareous		2%			5%								
E212	ZL	0	30	C	7.5YR4/4					non-calcareous	level	2%				Yes	II	3b	17.7	4	2	WE	3b
		30	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			non-calcareous													
		70	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	70	non-calcareous		1%											
E213	ZL	0	25	C	7.5YR3/3					non-calcareous	level	2%				Yes	II	3b	11.2	0.3	2	WE	3b
		25	69	C	7.5YR6/4	10YR6/8	Common	Yes	69	very calcareous		1%			10%	CHALK							
		69	120	C	7.5YR6/4					very calcareous		1%			10%								
E214	ZL	0	29	C	7.5YR4/4					non-calcareous	level	3%	2%	1%			Yes	II	3b	15.2	-0.4	2	WE	3b
		29	55	C	7.5YR6/4	7.5YR6/1;10YR6/8;Mn	Few			non-calcareous													
		55	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous					10%	CHALK							

		70	120	C	7.5YR4/3					very calcareous			10%								
E215	ZL	0	35	C	7.5YR4/4					very slightly calcareous	level	2%	2%	CHALK/LIMESTONE	I	2	12	-6.6	2	WE	2
		35	56	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very slightly calcareous		2%	1%								
		56	120	C	10YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		2%	10%								
E216	ZL	0	38	C	7.5YR4/4					non-calcareous	level	2%			II	3b	7	2.2	2	WE	3b
		38	68	C	7.5YR6/4	10YR6/8	Many			very slightly calcareous											
		68	120	C	7.5YR6/4			Yes	68	very slightly calcareous			40%	CHALK							
E217	ZL	0	36	hCL	7.5YR4/4					non-calcareous	level	3%			I	2	12.7	-4.6	2	WE/DR	2
		36	56	hCL	5YR4/4	Mn	Few			non-calcareous		5%									
		56	120	C	5YR4/4	Mn	Common			non-calcareous		5%									
E218	RM	0	30	MZCL	10YR4/2	10YR5/6	Common								II	2	76	30	1	WE	2*
		30	48	MZCL	10YR4/2	10YR5/6	Many														
		48	120	FSL	10YR5/2	10YR5/6	Many														
E219	RM	0	38	HCL	10YR4/2					non-calcareous	gently sloping				I	2	38	13	1	WE	2*
		38	43	C	10YR5/3					non-calcareous											
		43	90	C	2.5Y4/1					non-calcareous											
		90	120	C																	
E220	RM	0	40	C	10YR4/2					non-calcareous				Yes	II	3b	34	19	1	WE	3b
		40	70	C	10YR5/3	10YR5/6	Few			non-calcareous											
		70	90	C	10YR5/3	10YR5/6	Common	Yes	70	very calcareous											
		90	120	C																	
E221	RM	0	40	C	10YR4/2					slightly calcareous				Yes	II	3a	34	19	1	WE	3a

		40	55	C	10YR5/3	10YR5/6	Few			very calcareous													
		55	85	C	10YR5/3	10YR5/6	Common	Yes	55	very calcareous													
		85	120																				
E222	ZL	0	37	C	7.5YR4/3					non-calcareous	level	2%						Yes	II	3b	22.6	8.6	2	WE	3b
		37	75	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	60	non-calcareous													
		75	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous													
E223	ZL	0	32	C	7.5YR4/3					non-calcareous	level	2%						Yes	II	3b	20.1	6.4	2	WE	3b
		32	49	C	7.5YR6/4					very slightly calcareous		1%			1%	CHALK							
		49	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		2%			5%								
E224	ZL	0	25	C	7.5YR4/3					non-calcareous	level	3%	2%	1%				Yes	II	3b	12.9	3	2	WE	3b
		25	43	C	7.5YR6/4					non-calcareous		1%													
		43	65	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few	Yes	55	very calcareous		1%												
		65	120	C	7.5YR6/3	7.5YR6/1;10YR6/8	Common			very calcareous		1%			15%	CHALK								
E225	ZL	0	35	C	7.5YR4/3					non-calcareous	level	2%			10%			Yes	II	3b	18.3	4	2	WE	3b
		35	67	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	67	very calcareous		1%			10%	CHALK								
		67	120	C	7.5YR6/3					very calcareous		1%			10%									
E226	ZL	0	35	C	7.5YR4/3					non-calcareous	level	2%						Yes	III	3b	21.7	7.6	2	WE	3b
		35	55	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	40	non-calcareous		1%												
		55	120	C	7.5YR6/3					non-calcareous														
E227	ZL	0	36	mCL	7.5YR4/3					non-calcareous	gently sloping	5%			3%	SANDSTONE/LIMESTONE			I	1	-12.3	5.6	3a	DR	3a

		36	68	hCL	5YR4/4					non-calcareous		5%												
		68		Bedrock																				
E228	RM	0	40	C	10YR4/3					non-calcareous							Yes	III	3b	32	19	1	WE	3b
		40	80	C	10YR5/3	10YR5/6	Many	Yes	40	non-calcareous														
		80	100	SCL	10YR4/4					non-calcareous														
		100	120	SCL								10%			HARD									
E229	RM	0	36	C	10YR4/2					non-calcareous							Yes	III	3b	33	18	1	WE	3b
		36	40	C	10YR5/3	10YR5/6	Common	Yes	36	very calcareous														
		40	90	C	10YR5/3	10YR5/6	Common			very calcareous					10%	CHALK								
		90	120	C																				
E230	ZL	0	30	C	7.5YR4/3					very slightly calcareous	level	2%	1%				Yes	II	3a	19	2.4	2	WE	3a
		30	68	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		1%			5%	CHALK								
		68	120	C	7.5YR6/2					very calcareous		1%			5%									
E231	ZL	0	35	C	7.5YR4/3					non-calcareous	level	2%	1%					I	3a	20.4	6.5	2	WE	3a
		35	85	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	85	very calcareous		2%			5%	CHALK								
		85	120	C	7.5YR5/8					very calcareous		2%			5%									
E232	ZL	0	30	C	7.5YR4/3					non-calcareous	level	2%						I	3a	19.3	5.5	2	WE	3a
		30	65	C	7.5YR6/4	7.5YR6/1;10YR6/8;Mn	Common			non-calcareous		1%												
		65	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous		1%			5%	CHALK								
E233	ZL	0	38	C	7.5YR4/3					non-calcareous	level	2%					Yes	II	3b	22.4	8.5	2	WE	3b
		38	53	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few	Yes	60	non-calcareous														

		53	120	C	7.5YR6/3					very calcareous			5%	CHALK						
E234	ZL	0	33	C	7.5YR3/3					non-calcareous	level	1%			Yes	II	3b	20.5	6.6	2	WE	3b
		33	56	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous												
		56	80	C	7.5YR6/2			Yes	56	very calcareous			5%	CHALK								
		80	120	C	7.5YR6/2					very calcareous		30%	5%									
E235	ZL	0	37	mCL	7.5YR3/3	7.5YR6/1;10YR6/8	Common			non-calcareous	level	2%			Yes	II	2	23.7	8.7	2	WE/DR	2
		37	65	hCL	5YR4/3			Yes	65	non-calcareous		2%										
		65	120	hCL	5YR4/4					non-calcareous		2%										
E236	RM	0	36	C	10YR4/3					non-calcareous						II	3b	33	18	1	WE	3b
		36	50	C	10YR4/3					very calcareous												
		50	63	C	10YR5/3								10%	CHALK								
		63	120	C				Yes	63				10%	CHALK								
E237	RM	0	39	C	10YR4/2					non-calcareous	level				Yes	III	3b	34	18	1	WE	3b
		39	50	C	2.5Y4/2	10YR5/6	Common	Yes	39	very calcareous												
		50	90	C	2.5Y5/2	10YR5/6	Many			very calcareous												
		90	120	C									10%	CHALK								
E238	RM	0	38	C	2.5Y4/2					very slightly calcareous					Yes	III	3b	33	18	1	WE	3b
		38	50	C	2.5Y5/2	10YR5/6	Common	Yes	39	slightly calcareous												
		50	100	C	2.5Y5/2	10YR5/6	Many			very calcareous												
		100	120	C																		
E239	ZL	0	25	C	7.5YR4/3					very slightly calcareous	level	2%			Yes	II	3a	17	3.2	2	WE	3a

		25	45	C	7.5YR5/8				moderately calcareous		1%													
		45	63	C	7.5YR5/8	7.5YR6/1;10YR6/8	Common	Yes	63	very calcareous		1%			3%	CHALK								
		63	120	C	7.5YR6/2					very calcareous		2%			10%									
E240	ZL	0	32	C	7.5YR4/3					non-calcareous	level	3%	2%	1%				II	3a	18.5	4.6	2	WE	3a
		32	60	C	7.5YR6/4	Mn	Few			non-calcareous		2%												
		60	98	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	60	non-calcareous		8%				CHALK								
		98	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			very calcareous		2%			5%									
E241	ZL	0	28	C	7.5YR4/3					non-calcareous	level	2%						II	3a	18.5	4.2	2	WE	3a
		28	49	C	7.5YR6/4					non-calcareous		1%												
		49	68	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very calcareous		1%			10%	CHALK								
		68	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		1%			5%									
E242	ZL	0	35	C	7.5YR4/4					non-calcareous	level	2%					Yes	II	3b	21.2	7.2	2	WE	3b
		35	55	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common			non-calcareous		1%												
		55	69	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	69	very calcareous		1%			5%	CHALK								
		69	120	C	7.5YR6/3					very calcareous		1%			5%									
E243	ZL	0	37	mCL	7.5YR4/4					non-calcareous	level	1%						I	1	61.2	15.5	1		1*
		37	57	hCL	7.5YR7/8	7.5YR6/1	Common			non-calcareous														
		57	85	mSL	7.5YR6/4	7.5YR6/1	Few	Yes	85	non-calcareous														
		85	120	fSL	7.5YR6/1					non-calcareous														

E244	RM	0	40	C	10YR4/2					slightly calcareous							Yes	II	3a	33	17	1	WE	3a
		40	58	C	10YR4/3					very calcareous														
		58	90	C	10YR5/3	10YR5/6	Many	Yes	58	very calcareous														
		90	120	C																				
E245	RM	0	40	C	10YR4/3					slightly calcareous	level						Yes	II	3a	32	17	1	WE	3a
		40	50	C	10YR4/4					very calcareous														
		50	90	C	2.5Y5/1	10YR5/6	Many	Yes	50	very calcareous					10%	CHALK								
		90	120	C	10YR4/3																			
E246	RM	0	40	C	10YR5/3					very calcareous	level	3%		HARD			Yes	II	3a	33	17	1	WE	3a
		40	50	C	2.5Y5/3					very calcareous														
		50	90	C	2.5Y5/3	10YR5/6	Many	Yes	50	very calcareous														
		90	120	C																				
E247	ZL	0	33	C	7.5YR4/2					very slightly calcareous	level	2%					Yes	II	3a	20.5	6.6	2	WE	3a
		33	52	C	7.5YR5/6					very calcareous		1%			40%									
		52	68	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		2%			5%	CHALK								
		68	120	C	7.5YR6/2					very calcareous		2%			5%									
E248	ZL	0	35	C	7.5YR3/3					non-calcareous	level	2%						I	3a	22.3	6.9	2	WE	3a
		35	72	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%			3%	CHALK								
		72	120	C	7.5YR5/6					very calcareous		1%												
E249	ZL	0	36	C	7.5YR4/2					non-calcareous	level	3%	2%	1%			Yes	II	3b	21.2	7.2	2	WE	3b
		36	59	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	59	non-calcareous					5%	CHALK								

		59	120	C	7.5YR5/1					very calcareous													
E250	ZL	0	38	C	7.5YR5/3					non-calcareous	level	3%	2%	1%			Yes	II	3b	35	8.4	1	WE	3b
		38	68	C	7.5YR7/8	7.5YR6/1	Many			non-calcareous													
		68	99	C	7.5YR7/1			Yes	68	very calcareous													
		99	108	LfS	7.5YR7/1					very slightly calcareous													
		108	120	mSL	7.5YR2.5/1					non-calcareous													
E251	RM	0	40	C	10YR4/3			Yes	50	slightly calcareous		2%	1%		HARD		Yes	II	3a	33	17	1	WE	3a
		40	50	C	10YR4/3					very calcareous	level												
		50	90	C	2.5Y5/3	10YR5/6	Many			very calcareous													
		90	120	C																			
E252	RM	0	40	C	10YR4/3			Yes	50	slightly calcareous		2%	1%		HARD		Yes	II	3a	33	17	1	WE	3a
		40	50	C	10YR4/3					very calcareous	level												
		50	90	C	2.5Y5/3	10YR5/6	Many			very calcareous													
		90	120	C																			
E253	ZL	0	30	C	7.5YR4/2					non-calcareous	level	3%	2%	1%			Yes	II	3b	16.7	5.1	2	WE	3b
		30	46	C	7.5YR5/4	7.5YR6/1;10YR6/8	Common			non-calcareous													
		46	68	C	7.5YR6/3			Yes	68	very calcareous		1%			3%	CHALK							
		68	120	C	7.5YR6/3					very calcareous		1%			10%								
E254	ZL	0	35	C	10YR4/3					non-calcareous	level	3%	2%	1%			Yes	II	3b	20.5	6.4	2	WE	3b
		35	69	C	10YR5/6	7.5YR6/1;10YR6/8	Common	Yes	69	very calcareous		1%			5%	CHALK							
		69	120	C	10YR6/2					very calcareous		1%			5%								

E255	ZL	0	27	C	7.5YR4/3					very slightly calcareous	level	1%					Yes	II	3a	18.3	4.1	2	WE	3a
		27	63	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	63	very calcareous		1%			5%	CHALK							
		63	120	C	7.5YR6/2					very calcareous		1%			10%								
E256	ZL	0	33	C	7.5YR3/4					very slightly calcareous	level	5%	1%				Yes	II	3a	17.3	3.3	2	WE	3a
		33	55	C	7.5YR6/3	7.5YR6/1;10YR6/8	Common	Yes	45	very calcareous		1%			3%	CHALK							
		55	120	C	7.5YR6/6					very calcareous		2%			10%								
E257	ZL	0	35	C	7.5YR4/3					very calcareous	level	8%			2%	LIMESTONE	Yes	II	3a	18.1	4.9	2	WE	3a
		35	55	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	55	very calcareous		10%											
		55	120	C	7.5YR6/2					very calcareous		5%			2%	LIMESTONE							
E258	RM	0	45	C	2.5Y4/2					non-calcareous	level	7%	3%	1%	HARD		Yes	II	3a	33	17	1	WE	3a
		45	70	C	10YR5/3					non-calcareous														
		70	90	C	10YR5/3	10YR5/6	Common	Yes	70	slightly calcareous														
		90	120	C																				
E259	RM	0	40	C	7.5YR4/2					very slightly calcareous	level							I	3a	33	17	1	WE	3a
		40	90	C	10YR4/3					non-calcareous														
		90	120	C																				
E260	RM	0	39	C	10YR4/2					slightly calcareous							Yes	II	3a	33	17	1	WE	3a
		39	50	C	10YR5/3					very calcareous														
		50	80	C	2.5Y5/3	10YR5/6	Many	Yes	50	very calcareous					5%	CHALK							
		80	120	C																				

E261	ZL	0	35	C	10YR4/3				very slightly calcareous	level	3%	2%	1%	1%		Yes	II	3a	19.9	5.7	2	WE	3a
		35	55	C	10YR5/6	7.5YR6/1;10YR6/8	Common	Yes	55	very calcareous				3%	CHALK							
		55	120	C	10YR6/3					very calcareous				5%								
E262	ZL	0	28	C	7.5YR4/3					very slightly calcareous	level	2%	1%			Yes	II	3a	15.9	1.4	2	WE	3a
		28	70	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		2%		15%	CHALK							
		70	120	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	70	very calcareous		2%		15%								
E263	ZL	0	38	hCL	7.5YR3/4					very slightly calcareous	level	5%	2%	1%	1%	LIMESTONE		I	2	21.1	8	2	WE/DR	2
		38	80	C	7.5YR5/6	7.5YR6/1	Few			very calcareous		2%			5%	CHALK							
		80	120	hCL	10YR5/4	Mn	Few			very calcareous		5%			5%	CHALK							
E264	ZL	0	29	hZCL	7.5YR4/3					non-calcareous	level	1%						I	2	24.8	25.4	2	WE/DR	2
		29	95	hZCL	7.5YR6/4					non-calcareous													
		95	120	hZCL	5YR4/4					non-calcareous		5%											
E265	RM	0	35	C	2.5Y4/3					non-calcareous	level						Yes	III	3b	33	18	1	WE	3b
		35	90	C	10YR5/3	10YR5/6	Common	Yes	35	slightly calcareous													
		90	120	C																			
E266	RM	0	39	C	10YR4/2					slightly calcareous	level						Yes	III	3a	33	18	1	WE	3a
		39	55	C	10YR4/2	10YR5/6	Common	Yes	39	very calcareous													
		55	100	C	10YR5/3																		
		100	120	C											5%	CHALK							
E267	RM	0	39	C	10YR4/2					very calcareous		2%	1%	HARD			Yes	II	3a	33	17	1	WE	3a
		39	43	C	10YR4/3					very calcareous													

		43	80	C	2.5Y5/3	10YR5/6	Many	Yes	60	very calcareous													
		80	120	C											10%	CHALK							
E268	ZL	0	29	C	7.5YR4/4					very slightly calcareous	level	5%	3%	2%			Yes	II	3a	17	2.7	2	WE	3a
		29	70	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	70	very calcareous					5%	CHALK							
		70	120	C	7.5YR6/2					very calcareous					5%								
E269	ZL	0	28	C	7.5YR4/4					non-calcareous	level	3%	2%					I	3a	15.8	1.6	2	WE	3a
		28	75	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		2%			10%	CHALK							
		75	120	C	7.5YR5/8	7.5YR6/1;10YR6/8	Common			very calcareous		2%			15%								
E270	ZL	0	35	C	7.5YR4/4					slightly calcareous	level	5%			2%	LIMESTONE/CHALK		I	2	16.6	2.4	2	WE/DR	2
		35	85	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		2%			10%	CHALK							
		85	120	C	7.5YR5/8	7.5YR6/1;10YR6/8	Common			very calcareous		2%			10%	CHALK							
E271	RM	0	40	C	2.5Y4/2					non-calcareous	level	2%	1%	HARD			Yes	III	3b	32	17	1	WE	3b
		40	50	C	10YR5/3	10YR5/6	Common	Yes	40	non-calcareous													
		50	90	C	10YR5/3	10YR5/6	Many	Yes		slightly calcareous					5%	CHALK							
		90	120	C																			
E272	RM	0	43	C	2.5Y4/3					slightly calcareous	gently sloping						Yes	II	3a	33	17	1	WE	3a
		43	50	C	2.5Y4/2	10YR5/6	Common	Yes	43	very calcareous													
		50	90	C	10YR5/3	10YR5/6	Many			very calcareous					5%	CHALK							
		90	120	C																			
E273	RM	0	40	C	10YR4/2					very calcareous	gently sloping						Yes	III	3a	33	18	1	WE	3a
		40	60	C	2.5Y5/3	10YR5/6	Many	Yes	40	very calcareous													
		60	120	C																			

E274	ZL	0	35	C	7.5YR4/4				very slightly calcareous	level	3%	2%	1%			Yes	II	3a	19.6	5.6	2	WE	3a
		35	68	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	68	very calcareous		1%			3%	CHALK							
		68	120	C	7.5YR6/2					very calcareous		1%			5%								
E275	ZL	0	28	hCL	7.5YR4/4					non-calcareous	level	3%	2%	1%				I	2	18.2	2.2	2	WE	2
		28	43	hCL	7.5YR4/4					non-calcareous		1%											
		43	85	hCL	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous													
		85	120	C	7.5YR5/8	7.5YR6/1;10YR6/8	Common			very calcareous					5%	CHALK							
E276	ZL	0	32	C	7.5YR4/3					very slightly calcareous	level	5%			2%	LIMESTONE/CHALK		I	3a	16.7	2.4	2	WE	3a
		32	52	C	7.5YR4/4					very calcareous		1%			1%	CHALK							
		52	78	C	7.5YR5/6	7.5YR6/1;10YR6/8	Few			very calcareous		1%			10%	CHALK							
		78	120	C	7.5YR5/8	7.5YR6/1;10YR6/8	Common			very calcareous		1%			5%	CHALK							
E277	RM	0	30	C	2.5Y4/2					non-calcareous	level						Yes	III	3b	32	17	1	WE	3b
		30	50	C	10YR4/2	10YR5/6	Common	Yes	30	non-calcareous													
		50	70	C	2.5Y4/2	10YR5/6	Common			non-calcareous													
		70	90	C	2.5Y5/3	10YR5/6	Many			very slightly calcareous					5%	CHALK							
		90	120	C																			
E278	RM	0	40	C	10YR4/1					slightly calcareous	level		2%	HARD									
		40	70	C	10YR5/3	10YR5/6	Many	Yes	40	very calcareous							Yes	III	3a	33	18	1	WE	3a
		70	120	C																			
E279	RM	0	39	C	10YR4/3					slightly calcareous	level						Yes	III	3a	33	18	1	WE	3a

		39	80	C	10YR5/3	10YR5/6	Many	Yes	39	very calcareous					10%	CHALK						
		80	120	C																		
E280	ZL	0	29	C	7.5YR4/4					very slightly calcareous	level	3%	2%	1%	1%		Yes	II	3a	17.8	3.6	2	WE	3a
		29	60	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	60	very calcareous					3%	CHALK						
		60	120	C	7.5YR6/2					very calcareous					3%							
E281	ZL	0	32	C	7.5YR4/3					very slightly calcareous	level	2%	1%				Yes	II	3a	18.9	4.7	2	WE	3a
		32	70	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		1%			3%	CHALK						
		70	120	C	7.5YR6/2					very calcareous		1%			3%							
E282	ZL	0	29	C	7.5YR4/3					very slightly calcareous	level	3%	2%	1%	3%		Yes	II	3a	17.8	3.6	2	WE	3a
		29	69	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	69	very calcareous		1%			5%	CHALK						
		69	120	C	7.5YR6/2					very calcareous		1%			3%							

* E043, E074, E100, E122, E133, E134, E149, E155, E165, E166, E168, E176, E179, E185, E189, E204 and E243 - Isolated points of Grade 1, mapped as Grade 2. E121 - Isolated point of Grade 1, mapped as Grade 3a. E028, E052, E081, E083, E119, E145, E218, and E219 - Isolated points of Grade 2, mapped as Grade 3a. E054 and E193 - Isolated points of Grade 2, mapped as Grade 3b. E061, E110 and E157 - Isolated points of Grade 3a, mapped as Grade 3b. E180 - Isolated point of Grade 3a, mapped as Grade 2.

Site F

Climate Data:

Auger Bore No	National Grid Reference	ALT (m AOD)	AAR (mm)	AT0 (day °C)	FCD	MDMWHT (mm)	MDMPOT (mm)
F009	SP898571	102	621	1366	126	106	96
F038	SP894574	99	619	1369	125	106	97
F053	SP901576	86	613	1383	123	108	99
F061	SP897573	87	614	1383	125	108	99
F077	SP894579	94	616	1374	125	107	98
F105	SP898587	78	610	1392	123	109	101
F113	SP894588	69	607	1402	123	111	103
F120	SP882589	72	604	1399	123	111	103
F149	SP894592	68	607	1403	123	111	103
F183	SP888595	66	605	1406	123	111	104
F227	SP891559	56	602	1419	123	111	104
F241	SP893602	58	604	1414	122	112	105
F250	SP903602	81	612	1388	123	109	101

Auger Bore No	Surveyor Initials	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Gleyed Horizon	Depth to Gley	CaCo3%	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Hard Stone Type	Soft Stone Content % >2mm	Soft Stone Type	Slowly permeable layer (SPL) < 80cm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Limiting Factor	Final ALC Grade
F001	RM	0	40	C	2.5Y4/2					non calcareous		6%	4%	2%	HARD			Yes	III	3b	30	12	2	WE	3b
		40	68	C	2.5Y5/3	10YR5/6	Common	Yes	40	slightly calcareous						3%	CHALK								
		68	85	C	2.5Y5/3	10YR5/6	Common			very calcareous															
		85	120	C																					
F002	RM	0	40	C	2.5Y4/2					very slightly calcareous	level	5%	4		HARD			Yes	III	3b	30	15	2	WE	3b
		40	70	C	2.5Y5/3	10YR5/6	Many	Yes	40	very calcreous															
		70	120	C																					
F003	RM	0	40	C	2.5Y4/2					slightly calcareous		3%	2		HARD			Yes	III	3a	30	15	2	WE	3a
		40	75	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calccareous						5%	CHALK								
		75	120	C																					
F004	RM	0	40	C	10YR4/2					slightly calcareous								Yes	II	3a	30	15	2	WE	3a
		40	60	C	10YR4/6			Yes	60	very calccareous															
		60	120	C																					
F005	RM	0	40	C	10YR3/2					moderately calcareous		3%	2%		HARD			Yes	III	3a	30	15	2	WE	3a
		40	80	C	10YR5/3	10YR5/6	Many	Yes	40	very calcareous						3%	CHALK								
		80	120	C																					
F006	RM	0	39	C	2.5Y4/2					slightly calcareous		3%			HARD										
		39	75	C	2.5Y5/3	10YR5/6	Many	Yes	39	very calcareous						5%	CHALK	Yes	III	3a	30	15	2	WE	3a
		75	120	C																					
F007	RM	0	40	C	10YR4/2					slightly calcareous		6%	4%	2%	HARD										
		40	75	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calcareous								Yes	III	3a	29	14	2	WE	3a
		75	120	C													CHALK								

F008	RM	0	40	C	10YR4/2					very slightly calcareous		3%	2%		HARD								
		40	60	C	10YR5/3	10YR5/6	Many	Yes	40	very slightly calcareous						3%	CHALK	Yes	III	3b	30	15	2	WE	3b
		60	90	C	2.5Y5/3					very calcareous															
		90	120	C																					
F009	LH	0	28	C	10YR4/2					non-calcareous	level	6%	3%	3%	HARD			Yes	II	3b	15.6	2.1	2	WE	3b
		28	55	C	10YR4/2					slightly calcareous		2%													
		55	86	C	10YR5/4	10YR6/1;7.5YR4/6, Mn	Many	Yes	65	slightly calcareous		2%				2%	CHALK								
		86	120	C	10YR5/4	10YR6/1;7.5YR4/6	Very Many			very calcareous		1%				12%									
F010	LH	0	29	C	10YR4/2					moderately calcareous	gently sloping	4%	2%	2%	HARD				I	2	16.2	2.8	2	WE/DR	2
		29	44	C	10YR5/4					moderately calcareous		2%													
		44	120	C	10YR5/4	10YR5/8	Few			moderately calcareous		2%													
F011	LH	0	30	C	10YR4/2					non-calcareous		5%	3%	2%				Yes	II	3a	15.4	1.4	2	WE	3a
		30	120	C	10YR5/4	10YR5/6;10YR6/1, Mn	Very Many	Yes	54	very calcareous		2%				12%	CHALK								
F012	LH	0	31	C	10YR4/2					non-calcareous	level	5%	3%	1%				Yes	II	3a	16.6	2.4	2	WE	3a
		31	55	C	10YR5/4	10YR5/8, Mn	Few			moderately calcareous		2%				2%	CHALK								
		55	120	C	10YR5/4	10YR5/6;10YR6/1, Mn	Very Many	Yes	56	very calcareous		1%				10%	CHALK								
F013	RM	0	40	C	2.5Y4/2					non-calcareous	level	3%	2%		HARD			Yes	II	3a	30	15	2	WE	3a
		40	50	C	10YR5/3					slightly calcareous															

		50	80	C	2.5Y5/3	10YR5/6	Common	Yes	50	very calcareous					5%	CHALK									
		80	120																						
F014	RM	0	40	HCL	10YR4/2					non-calcareous		2%	1%				Yes	II	3a	36	21	1	WE	3a
		40	60	C	10YR5/2					non-calcareous															
		60	85	C	10YR5/2	10YR5/6	Many	Yes	60	non-calcareous															
		85	120	C																					
F015	RM	0	40	C	10YR4/2					non-calcareous	gently sloping	6%	4%	2%	HARD		Yes	II	3b	29	14	2	WE	3b
		40	60	C	10YR4/4					non-calcareous															
		60	120	C				Yes	60							10%	CHALK								
F016	RM	0	33	HZCL	10YR4/2			Yes	33	slightly calcareous	level	2%	1%		HARD		Yes	III	3a	31	16	1	WE	3a
		33	85	C	10YR5/3	10YR5/6	Many			very calcareous						6%	CHALK								
		85	120	C																					
F017	RM	0	40	HZCL	10YR4/2					slightly calcareous							Yes	III	3a	32	17	1	WE	3a
		40	60	C	10YR5/2	10YR5/6	Many	Yes	40	very calcareous	gently sloping	2%	1%		HARD										
		60	85	C	10YR5/3	10YR5/6	Many			very calcareous						2%	CHALK								
		85	120	C																					
F018	LH	0	36	C	10YR4/2					non calcareous	level	5%	3%	2%	HARD		Yes	II	3b	18.3	4.5	2	WE	3b
		36	48	C	10YR5/4	10YR5/6	Few			moderately calcareous		2%				2%	CHALK								
		48	85	C	Gley 1 5/10Y	10YR5/8;10YR6/1	Very Many	Yes	48	very calcareous		2%				8%									
F019	LH	0	29	C	10YR4/2					non-calcareous	level	5%	3%	1%	HARD		Yes	II	3a	16.1	2.1	2	WE	3a
		29	47	C	10YR5/4	Mn				moderately calcareous		2%				1%	CHALK								
		47	60	C	10YR5/4	10YR5/8;10YR6/1, Mn	Very Many	Yes	47	very calcareous		1%				8%	CHALK								

F020	LH	0	29	C	10YR4/2				moderately calcareous	gently sloping	6%	3%	3%		1%	CHALK	Yes	II	2	14.6	0.6	2	WE/DR	2
		29	52	C	10YR5/4	10YR5/8, Mn	Few		moderately calcareous		2%				2%	CHALK								
		52	100	C	10YR5/4	10YR5/6;10 YR6/1	Very Many	yes	52 very calcareous		2%				12%	CHALK								
F021	LH	0	31	hCL	10YR4/2				moderately calcareous	level	8%	4%	4%		2%	CHALK	Yes	II	2	13.8	-0.3	2	WE/DR	2
		31	55	C	10YR5/4	10YR5/8, Mn	Few		very calcareous		2%				1%	CHALK								
		55	105	C	10YR5/4	10YR5/6;10 YR6/1	Very Many	yes	55 very calcareous		2%				10%	CHALK								
F022	RM	0	36	C	2.5Y4/2				slightly calcareous		5%	3%	1%	HARD			Yes	III	3a	30	15	2	WE	3a
		36	65	C	10YR4/2	10YR5/6	Many	Yes	36 slightly calcareous															
		65	85	C	2.5Y5/1				very calcareous						6%	CHALK								
F023	RM	0	38	C	10YR4/2				slightly calcareous								Yes	II	3a	37	17	1	WE	3a
		38	50	C	10YR5/3				slightly calcareous															
		50	70	C	10YR5/3	10YR5/6	Common	Yes	50 very calcareous															
		70	85	C	10YR5/3				very calcareous						6%	CHALK								
		85	120																					
F024	LH	0	30	C	10YR4/2				non-calcareous	level	5%	3%	1%	HARD			Yes	II	3a	15.8	1.6	2	WE	3a
		30	48	C	10YR5/4	10YR5/6;10 YR6/2	Common		moderately calcareous		2%													
		48	70	C	10YR5/4	10YR5/6;10 YR6/2	Very Many	Yes	55 very calcareous		1%				6%	CHALK								
		70	92	C	10YR5/4	10YR5/6;10 YR6/2	Very Many		very calcareous		1%				8%									
		92	120	C	10YR5/4	10YR5/6;10 YR6/2	Very Many		very calcareous		1%				8%									

F025	LH	0	32	C	10YR4/2				non-calcareous	gently sloping	6%	4%	2%	HARD			Yes	II	3a	16	2.1	2	WE	3a
		32	45	C	10YR5/4	10YR5/6;10YR6/2	Common		moderately calcareous		2%													
		45	120	C	Gley 1 5/10Y	10YR5/6;10YR6/2	Very Many	Yes	very calcareous		2%				8%	CHALK								
F026	LH	0	30	C	10YR4/2				non-calcareous	level	5%	2%	3%	HARD			Yes	III	3b	16.7	3	2	WE	3b
		30	68	C	10YR5/4	10YR6/8;10YR6/1	Very Many	Yes	moderately calcareous		2%													
		68	90	C	Gley 1 5/10Y	10YR5/8;10YR6/1	Very Many		very calcareous		1%				8%	CHALK								
F027	LH	0	22	C	10YR4/2				non-calcareous	level	5%	3%	2%				Yes	II	3b	13.3	-0.3	2	WE	3b
		22	55	C	10YR5/4	10YR5/6;10YR6/2	Common		moderately calcareous		3%													
		55	120	C	Gley 1 5/10Y	10YR5/8	Very Many	Yes	very calcareous		2%				8%	CHALK								
F028	LH	0	28	C	10YR4/2				non-calcareous	gently sloping	2%	1%	1%	HARD				I	3a	-1	2.8	3a	WE/DR	3a
		28	65	C	10YR4/2				non-calcareous		2%													
		65	95	C	10YR5/4	7.5YR4/6, Mn	Few		slightly calcareous		3%													
		95	120	C	10YR5/4	10YR5/8;10YR6/2, Mn	Many	Yes	slightly calcareous		1%													
F029	LH	0	30	C	10YR4/2				non-calcareous	level	5%	3%	2%				Yes	II	3a	16.1	1.9	2	WE	3a
		30	55	C	10YR5/4	Mn			moderately calcareous		2%				2%	CHALK								
		55	120	C	Gley 1 5/10Y	10YR5/6;10YR6/1	Very Many	Yes	very calcareous		1%				10%	CHALK								
F030	LH	0	28	C	10YR4/2				moderately calcareous	level	6%	3%	3%	HARD	1%	CHALK	Yes	II	2	-14.7	0.4	3a	DR	3a
		28	38	C	10YR4/2				moderately calcareous		2%				1%	CHALK								

		38	78	C	10YR5/4	10YR5/6;10 YR6/1	Common			very calcareous		2%				6%	CHALK								
		78	120	C	Gley 1 5/10Y	10YR5/6;10 YR6/1	Very Many	Yes	70	very calcareous		1%				10%	CHALK								
F031	LH	0	35	hCL	10YR4/2					non-calcareous	level	5%	3%	2%					I	3a	5.5	3.4	2	WE	3a
		35	50	C	10YR4/3					non-calcareous		2%													
		50	72	mSCL	10YR4/3					non-calcareous		2%													
		72	100	C	10YR4/3	Mn				non-calcareous		2%													
		100	120	C	10YR5/4	10YR5/6;10 YR6/1	Many	Yes	100	very calcareous		1%				8%	CHALK								
F032	RM	0	40	C	10YR4/3					non-calcareous		5%	4%	2%	HARD			Yes	III	3b	30	15	1	WE	3b
		40	60	C	10YR5/3	10YR5/6	Common	Yes	40	very slightly calcareous															
		60	70	C	10YR5/3	10YR5/6	Common			very slightly calcareous															
F033	RM	0	33	C	10YR4/2					non-calcareous	gently sloping	3%	2%		HARD			Yes	II	3a	30	14	1	WE	3a
		33	50	C	10YR5/3					slightly calcareous															
		50	80	C	10YR5/3	10YR5/6		Yes	50	very calcareous		5%			HARD										
		80	90	C	10YR5/3											6%	CHALK								
		90	120	C																					
F034	RM	0	40	C	2.5Y4/2					slightly calcareous		5%	4%	1%	HARD			Yes	III	3a	30	16	2	WE	3a
		40	70	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calcareous						5%	CHALK								
F035	RM	0	40	C	10YR4/2					non-calcareous		3%	2%		HARD			Yes	II	3a	32	17	1	WE	3a
		40	60	C	10YR5/3					slightly calcareous															
		60	80	C	10YR5/3	10YR5/6	Common	Yes	60	slightly calcareous						5%	CHALK								
		80	120	C																					

F036	RM	0	40	C	10YR4/2					non-calcareous		1%			HARD			Yes	II	3a	31	15	1	WE	3a
		40	50	C	10YR4/4					non-calcareous														
		50	80	C	10YR5/2	10YR5/6	Many	Yes	50	non-calcareous														
		80	120	C																				
F037	LH	0	27	C	10YR4/2					non-calcareous	level	8%	4%	3%	HARD			Yes	II	3a	12.7	-1.6	2	WE	3a
		27	52	C	10YR5/4	10YR5/6;10YR6/2	Common			moderately calcareous		3%												
		52	120	C	Gley 1 5/10Y	10YR5/8	Very Many	Yes	55	very calcareous		2%				12%	CHALK							
F038	LH	0	31	C	10YR4/2					non-calcareous	level	6%	3%	2%	HARD			Yes	II	3a	16.6	2.7	2	WE	3a
		31	50	C	10YR5/4	10YR5/6;10YR6/2	Common			moderately calcareous		3%												
		50	120	C	Gley 1 5/10Y	10YR5/8	Very Many	Yes	52	very calcareous		1%				8%	CHALK							
F039	LH	0	32	C	10YR4/2					non-calcareous	level	5%	2%	3%				Yes	II	3b	9.7	2.9	2	WE	3b
		32	55	C	10YR5/4	10YR5/6;10YR6/2	Many	Yes	50	very calcareous		2%				2%	CHALK							
		55	120	C	Gley 1 5/10Y	10YR5/8	Very Many			very calcareous		2%				8%	CHALK							
F040	LH	0	34	C	10YR4/2					non-calcareous	level	7%	4%	3%	HARD			Yes	II	3a	16.3	2.5	2	WE	3b
		34	55	C	10YR5/4	10YR5/6;10YR6/2	Common	Yes	50	moderately calcareous		2%				2%	CHALK							
		55	120	C	Gley 1 5/10Y	10YR5/8	Very Many			very calcareous		2%				10%	CHALK							
F041	LH	0	25	C	10YR4/2					moderately calcareous	gently sloping	4%				1%	CHALK	Yes	II	2	14	-0.3	2	WE	2
		25	48	C	10YR5/4	10YR5/6	Common			moderately calcareous		2%				1%	CHALK							
		48	120	C	10YR5/5	10YR5/8;10YR6/1	Very Many	Yes	52	very calcareous		1%				6%	CHALK							

F042	LH	0	36	C	10YR4/2				moderately calcareous	gently sloping	3%	2%	1%		1%	CHALK		I	2	17.6	3.8	2	WE	2
		36	95	C	10YR4/3	10YR5/8;10 YR6/2	Common		moderately calcareous		2%				1%	CHALK								
		95	120	C	10YR5/4	10YR5/8;10 YR6/1	Very Many	Yes	very calcareous		2%				8%	CHALK								
F043	LH	0	30	hCL	10YR4/2				non-calcareous	level	5%	3%	2%					I	2	25.3	-2.5	2	WE	2
		30	60	mSCL	10YR4/3	Mn			non-calcareous		1%													
		60	120	LcS	10YR5/4				non-calcareous		1%													
F044	RM	0	38	C	10YR4/3				non-calcareous	level	3%	2%		HARD			Yes	III	3b	30	15	1	WE	3b
		38	40	C	10YR4/2				slightly calcareous															
		40	55	C	2.5Y5/3	10YR5/6	Many	Yes	very calcareous						6%	CHALK								
F045	RM	0	30	C	10YR4/2				non-calcareous	level	3%			HARD				I	3a	31	16	1	WE	3a
		30	70	C	10YR4/3				slightly calcareous															
F046	RM	0	38	C	10YR3/3				non-calcareous	gently sloping	2%	1%		HARD			Yes	II	3a	31	16	1	WE	3a
		38	50	C	10YR4/4				non-calcareous															
		50	60	C	10YR5/3				non-calcareous															
		60	90	C	10YR5/3	10YR5/6	Many	Yes	very slightly calcareous															
		90	120																					
F047	JP	0	32	C	10 YR 3/2				non-calcareous	gently sloping	16%	10%	5%	HARD				I	3a	0.4	-4.4	3a	WE/DR	3a
		32	70	C	10 YR 5/4				slightly calcareous		2%			HARD										
		70	120	IMP																				
F048		Not surveyed - inaccessible																						3a

F049	LH	0	34	C	10YR4/2				non-calcareous	level	5%	2%	3%	HARD			Yes	II	3a	10.3	2.8	2	WE	3a
		34	49	C	10YR5/4	10YR5/6;10YR6/2	Common		moderately calcareous		2%												
		49	120	C	Gley 1 5/10Y	10YR5/8	Very Many	Yes	very calcareous		1%				12%	CHALK							
F050	LH	0	32	C	10YR4/2				non-calcareous	level	4%	2%	2%	HARD			Yes	II	3a	8.2	3.6	2	WE	3a
		32	54	C	10YR5/4	10YR6/8;10YR6/2	Common		moderately calcareous		1%												
		54	70	C	10YR5/4	10YR6/8;10YR6/2	Many	Yes	very calcareous		1%				8%	CHALK							
		70	120	IMP																			
F051	LH	0	29	C	10YR4/2				moderately calcareous	level	5%	3%	1%		1%	CHALK	Yes	II	2	15.3	0.9	2	WE/DR	2
		29	52	C	10YR5/4	10YR5/6;10YR6/2	Common		moderately calcareous		2%				1%	CHALK							
		52	120	C	Gley 1 5/10Y	10YR5/8	Very Many	Yes	very calcareous		1%				10%	CHALK							
F052	LH	0	31	C	10YR4/2				moderately calcareous	level	4%	3%	1%	HARD			Yes	II	2	16.4	2.2	2	WE/DR	2
		31	52	C	10YR4/3				very calcareous		2%				1%	CHALK							
		52	80	C	10YR5/4	10YR5/8;10YR6/2	Common		very calcareous		2%				6%	CHALK							
		80	120	C	10YR5/5	10YR5/8;10YR6/1	Very Many	Yes	very calcareous		1%				8%	CHALK							
F053	LH	0	29	C	10YR4/2				non-calcareous	level	2%	1%	1%					I	3a	0.5	-6.3	3a	WE/DR	3a*
		29	50	C	10YR4/3	Mn			non-calcareous		3%												
		50	120	C							35%												
F054	RM	0	38	C	2.5Y4/2				non-calcareous	level	5%	3%	1%	HARD			Yes	III	3b	30	15	1	WE	3b
		38	85	C	2.5Y5/3	10YR5/6	Common	Yes	very calcareous						5%	CHALK							
		85	120	C																			

F055	RM	0	40	C	10YR4/4					non-calcareous	level	2%	2%		HARD			Yes	III	3b	30	14	1	WE	3b
		40	70	C	10YR5/3	10YR5/6	Common	Yes	40	non-calcareous															
		70	75	C	10YR5/3					very calcareous															
F056	RM	0	33	C	10YR4/3					non-calcareous								Yes	III	3b	30	14	1	WE	3b
		33	50	C	10YR5/3	10YR5/6	Common	Yes	33	non-calcareous															
		50	70	C	7.5YR4/3					non-calcareous															
F057	JP	0	28	C	10 YR 3/2					non-calcareous	gently sloping	17%	10%	5%	HARD				I	3a	8.3	-5.8	2	WE	3a
		28	75	C	10 YR 5/4					slightly calcareous		5%			HARD										
		75	110	C	10 YR 5/4	10YR5/8;10 YR6/1	Common			very calcareous		1%			HARD	15%	CHALK								
		110	120	IMP																					
F058	JP	0	30	C	10 YR 3/2					non-calcareous	level	11%	7%	2%	HARD				I	3a	15.5	-1.8	2	WE	3a
		30	55	C	10 YR 3/4					non-calcareous		5%			HARD										
		55	90	C	10 YR 5/6	10YR5/8;10 YR6/1	Many	Yes	90	moderately calcareous		1%			HARD	15%	CHALK								
		90	120	IMP																					
F059	JP	0	25	C	10 YR 3/2					non-calcareous	level	9%	3%	2%	HARD			Yes	II	3a	13.4	-0.8	2	WE	3a
		25	40	C	10 YR 3/4					moderately calcareous		2%			HARD										
		40	60	C	10 YR 5/6					moderately calcareous		1%			HARD										
		60	100	C	10 YR 5/6	10YR5/8;10 YR6/1	Very Many	Yes	70	moderately calcareous		1%			HARD	200%	CHALK								
		100	120	IMP																					
F060	LH	0	34	C	10YR4/2					non-calcareous	level	6%	3%	2%	HARD			Yes	II	3a	17.7	3.6	2	WE	3a

		34	52	C	10YR5/4	10YR5/6;10 YR6/2	Common			moderately calcareous		2%													
		52	120	C	Gley 1 5/10Y	10YR5/8	Very Many	Yes	52	very calcareous		1%				12%	CHALK								
F061	JP	0	30	hCL	10 YR 3/2					non-calcareous	gently sloping	17%	10%	5%	HARD				I	2	10.9	-2.5	2	WE/DR	2
		30	90	C	10 YR 5/4					non-calcareous		5%			HARD										
		90	100	C	10 YR 5/4	10YR5/8;10 YR6/1	Many	Yes	90	moderately calcareous		1%			HARD	10%	CHALK								
		100	120	IMP																					
F062	JP	0	29	hCL	10 YR 3/2					non-calcareous	level	12%	5%	2%	HARD			Yes	II	3a	13.7	-0.1	2	WE	3a
		29	65	C	10 YR 5/4	10 YR 5/8	Common			slightly calcareous		5%			HARD										
		65	120	C	10 YR 6/2	10YR5/8;10 YR6/1	Many	Yes	70	moderately calcareous		2%			HARD	2%	CHALK								
F063	JP	0	25	hCL	10 YR 3/2					non-calcareous	level	6%	3%	1%	HARD			Yes	I	2	15.8	1.2	2	WE/DR	2
		25	45	C	10 YR 5/6					moderately calcareous		5%			HARD										
		45	80	C	10 Yr 5/6	10 YR 6/8	Common			moderately calcareous		1%			HARD	15%	CHALK								
		80	100	C	10 YR 6/2	10YR6/8;10 YR6/1	Many	Yes	75	moderately calcareous		1%			HARD	20%	CHALK								
		100	120	IMP																					
F064	JP	0	28	hCL	10 YR 3/2					non-calcareous	level	4%	2%	1%	HARD			Yes	I	2	17.7	3	2	WE/DR	2
		28	35	C	10 YR 5/6					very slightly calcareous		2%			HARD										
		35	70	C	10 YR 5/6	10 YR 6/8	Commom			moderately calcareous		1%			HARD	15%	CHALK								
		70	100	C	10 YR 5/6	10YR6/8;10 YR6/1	Many	Yes	75	moderately calcareous		1%			HARD	20%	CHALK								
		100	120	IMP																					

F065	JP	0	27	hCL	10 YR 3/2				non-calcareous	level	6%	3%	1%	HARD			I	2	17.1	3.3	2	WE/DR	2
		27	80	C	10 YR 4/3	10 YR 5/8	Common		very calcareous		1%			HARD	5%	CHALK							
		80	100	C	10 YR 5/6	10YR5/8;10 YR6/1	Common		very calcareous		1%			HARD	20%	CHALK							
		100	120	IMP																			
F066	JP	0	27	hCL	10 YR 3/2				non-calcareous	level	17%	10%	5%	HARD			I	2	11.7	-1.8	2	WE/DR	2
		27	75	C	10 YR 5/4	10YR5/8;10 YR6/1	Common		non-calcareous		5%			HARD									
		75	90	C	10 YR 5/4	10YR5/8;10 YR6/1	Common		moderately calcareous		1%			HARD	10%	CHALK							
		90	120	IMP																			
F067	JP	0	28	hCL	10 YR 3/2				non-calcareous	level	8%	5%	1%	HARD			I	2	14.7	0.3	2	WE/DR	2
		28	55	C	10 YR 5/6	10 YR 6/8	Common		slightly calcareous		5%			HARD									
		55	70	C	10 YR 5/6	10YY6/8;10 YR6/1	Common		very calcareous		2%			HARD	15%	CHALK							
		70	120	IMP																			
F068	JP	0	25	hCL	10 YR 3/2				non-calcareous	level	4%	3%	1%	HARD			Yes	II	3a	16.3	2.1	2	WE	3a
		25	45	C	10 YR 4/3				non-calcareous		2%			HARD	10%	CHALK							
		45	75	C	10 YR 5/6	10 YR 5/8	Common		very calcareous		1%			HARD	15%	CHALK							
		75	85	C	10 YR 6/2	10YR5/7; 10YR6/1	Many	Yes	very calcareous	70													
		85	120	IMP																			
F069	LH	0	36	C	10YR4/2				non-calcareous	level	4%	2%	1%	HARD			Yes	II	3a	17.8	3.5	2	WE	3a
		36	60	C	10YR5/3	10YR5/6	Common		moderately calcareous		1%				3%	CHALK							
		60	120	C	10YR5/4	10YR5/6;10 YR6/1	Very Many	Yes	very calcareous	68	1%				8%	CHALK							
F070	LH	0	31	C	10YR4/2				non-calcareous	level	6%	3%	2%	HARD			Yes	III	3b	14.3	0	2	WE	3b*
		31	120	C	10YR5/4	10YR5/6;10 YR6/2	Very Many	Yes	very calcareous	38	2%				8%	CHALK							

F071	JP	0	27	hCL	10 YR 3/2				non-calcareous	level	6%	3%	1%	HARD			Yes	II	3a	16.1	1.3	2	WE	3a
		27	60	C	10 YR 5/6				moderately calcareous		1%			HARD	15%	CHALK								
		60	75	C	10 YR 5/6	10YR6/8;10 YR6/1	Many	Yes	60	moderately calcareous		1%			HARD	15%	CHALK								
		75	120	IMP																				
F072	LH	0	30	C	10YR4/2					non-calcareous	level	4%	2%	1%	HARD			Yes	II	3a	16.4	2.3	2	WE	3a
		30	62	C	10YR5/3					moderately calcareous		1%				2%	CHALK								
		62	120	C	10YR5/4	10YR5/6;10 YR6/1	Very Many	Yes	62	very calcareous		1%				8%	CHALK								
F073	LH	0	30	C	10YR4/2					non-calcareous	level	3%	2%	1%	HARD			Yes	II	3a	16.2	1.5	2	WE	3a
		30	50	C	10YR5/3					moderately calcareous		1%				3%	CHALK								
		50	90	C	10YR5/4	10YR5/6;10 YR6/1	Very Many	Yes	50	very calcareous		1%				10%	CHALK								
		90	120	IMP																				
F074	LH	0	37	C	10YR4/2					non-calcareous	level	4%	2%	1%	HARD			Yes	I	3a	18.7	4.5	2	WE	3a
		37	78	C	10YR5/3	7.5YR4/4;7.5YR6/1	Common			moderately calcareous		3%				1%	CHALK								
		78	90	C	10YR5/4	10YR5/6;10 YR6/1	Many	Yes	75	very calcareous		1%				8%	CHALK								
		90	120	IMP																				
F075	LH	0	34	hCL	10YR4/2					non-calcareous	level	7%	3%	3%	HARD				I	2	18	2.5	2	WE	2
		34	50	C	10YR5/3	7.5YR4/4;7.5YR6/1, Mn	Many			very calcareous		2%				6%	CHALK								
		50	120	IMP																				
F076	LH	0	32	hCL	10YR4/2					non-calcareous	level	5%	3%	2%	HARD				I	2	18.9	3.1	2	WE	2
		32	50	C	10YR5/3	10YR5/6;10 YR6/1	Few			very calcareous		1%				4%	CHALK								
		50	120	IMP																				

F077	LH	0	45	hCL	10YR4/2				non-calcareous	level	6%	3%	2%	HARD			Yes	II	3a	23.9	9.4	2	WE	3a
		45	120	C	10YR5/4	10YR5/6;10 YR6/1	Many	Yes	65	very calcareous		1%				8%	CHALK							
F078	LH	0	40	hCL	10YR4/2					non-calcareous	level	5%	2%	3%	HARD				I	2	19.2	5.1	2	WE/DR	2
		40	90	C	10YR5/3					moderately calcareous						4%	CHALK							
		90	120	C	10YR5/4	10YR5/6;10 YR6/1	Common	Yes	115	very calcareous						6%	CHALK							
F079	LH	0	45	C	10YR4/2					non-calcareous	level	4%	2%	1%	HARD			Yes	II	3a	21.5	7.6	2	WE	3a
		45	70	C	10YR5/3	10YR5/8	Few			moderately calcareous		2%													
		70	120	C	10YR5/4	10YR5/8;10 YR6/1	Very Many	Yes	70	very calcareous		1%				6%	CHALK							
F080	LH	0	33	hCL	10YR4/2					moderately calcareous	level	8%	4%	3%	HARD			Yes	II	2	17.5	3.1	2	WE/DR	2
		33	95	C	10YR5/4	10YR5/6;10 YR6/1	Very Many	Yes	55	very calcareous		1%				6%	CHALK							
		95	120	IMP																				
F081	LH	0	45	mCL	10YR4/2					slightly calcareous	gently sloping	5%	3%	2%	HARD			Yes	II	2	21	6.4	2	WE/DR	2
		45	90	C	10YR5/4	10YR5/6;10 YR6/1	Many	Yes	65	very calcareous						6%	CHALK							
		90	120	IMP																				
F082	ZL	0	30	hCL	7.5YR3/3					slightly calcareous	gently sloping	4%	2%	1%					I	2	17.2	2.8	2	WE/DR	2
		30	52	hCL	7.5YR3/4					slightly calcareous		1%													
		52	120	C	7.5YR6/4					very calcareous		1%				5%	CHALK							
F083	ZL	0	30	hCL	7.5YR3/3					non-calcareous	gently sloping	2%							I	2	45.9	15.9	1	WE	2
		30	55	hCL	7.5YR4/3					non-calcareous		1%													
		55	120	SCL	10YR7/8					very calcareous		2%													

F084	ZL	0	31	C	7.5YR4/3					very slightly calcareous	gently sloping	2%						Yes	II	2	16.9	2.4	2	WE/DR	2
		31	68	C	7.5YR6/3	10YR5/6;10 YR6/1	Common	Yes	68	very calcareous		1%				8%	CHALK							
		68	120	C	10YR6/4					very calcareous		1%				8%								
F085	ZL	0	30	hCL	7.5YR3/3	10YR5/6;10 YR6/1	Few			very calcareous	level	3%	2%	1%					I	2	23.4	4.2	2	WE/DR	2
		30	95	C	7.5YR6/4	10YR5/6;10 YR6/1	Common			very calcareous		1%				15%	CHALK							
		95	120	SCL	10YR7/8					very calcareous		1%				5%								
F086	JP	0	30	hCL	10 YR 3/3					non-calcareous	level	17%	10%	5%	HARD			Yes	II	3a	9.8	-3.4	2	WE	3a
		30	120	C	5Y 5/2	10YR5/8;10 YR6/1	Many	Yes	68	slightly calcareous		5%			HARD	3%	CHALK							
F087	LH	0	29	hCL	10YR4/2					non-calcareous	gently sloping	4%	2%	1%	HARD			Yes	I	2	17.3	3.1	2	WE/DR	2
		29	88	C	10YR4/4	10YR5/8	Few			very slightly calcareous		2%				5%	CHALK							
		88	120	C	10YR4/4	10YR5/6;10 YR6/2	Many	Yes	78	very calcareous		2%				3%								
F088	LH	0	28	hCL	10YR4/2					moderately calcareous	level	3%	2%	1%	HARD			Yes	II	2	18.3	3.9	2	WE/DR	2
		28	50	C	10YR4/4	10YR5/6	Few			moderately calcareous		2%				3%	CHALK							
		50	95	C	10YR5/4	10YR5/6;10 YR6/1	Very Many	Yes	70	very calcareous		1%				8%								
		95	120	IMP																				
F089	LH	0	32	hCL	10YR4/2					slightly calcareous	level	3%	2%	1%	HARD				I	2	20.4	6.3	2	WE/DR	2
		32	60	C	10YR5/4	10YR5/6;10 YR6/2	Few			moderately calcareous		1%				2%	CHALK							
		60	120	C	10YR5/4	10YR5/6;10 YR6/2	Many	Yes	88	moderately calcareous		1%				2%								

F090	ZL	0	25	C	7.5YR4/3					slightly calcareous	gently sloping	3%	2%	1%				Yes	II	2	14.5	0.5	2	WE/DR	2
		25	68	C	7.5YR5/6	10YR5/6;10 YR6/1	Common			slightly calcareous		1%													
		68	120	C	7.5YR5/7	Gley2 5B5/1		Yes	68	slightly calcareous		1%													
F091	LH	0	32	C	10YR4/1					moderately calcareous	level	2%	1%	<1%	HARD				I	2	17.1	3.3	2	Flood	3b
		32	120	C	10YR5/3					moderately calcareous		2%													
F092	JP	0	32	C	10 YR 3/3					non-calcareous	level	1%	1%	1%	HARD				I	3a	17.2	7.1	2	WE/DR	3a
		32	75	C	2.5 Y 5/3					moderately calcareous		3%			HARD	2%	CHALK								
		75	120	C	2.5 Y 5/3	10 YR 6/1	Common			very calcareous		15%			HARD	2%	CHALK								
F093	JP	0	35	hCL	10 YR 3/3					non-calcareous	level	20%	15%	5%	HARD			Yes	II	3a	9.8	-5.1	2	WE	3a
		35	60	hCL	10 YR 4/4	10YR5/8;10 YR6/1	Many	Yes	45	moderately calcareous		3%			HARD	3%	CHALK								
		60	120	C	2.5 Y 5/3	10YR5/8;10 YR6/1	Many			moderately calcareous		2%			HARD	5%	CHALK								
F094	JP	0	25	hCL	10 YR 3/3					slightly calcareous	level	15%	10%	3%	HARD			Yes	I	2	11.5	-2.8	2	WE/DR	2
		25	50	C	10 YR 4/4					slightly calcareous		2%			HARD										
		50	75	C	2.5 Y 5/3					moderately calcareous		1%			HARD	5%	CHALK								
		75	120	C	5Y 5/2	10YR5/8;10 YR6/1	Very Many	Yes	78	very calcareous		1%				8%	CHALK								
F095	ZL	0	36	C	7.5YR3/3					very calcareous	gently sloping	3%	2%	1%		2%	LIMESTONE		I	2	18	4	2	WE/DR	2
		36	82	C	7.5YR6/6	Mn	Few			very slightly calcareous		1%				1%	CHALK								

		82	120	C	7.5YR5/6	10YR5/6;10 YR6/1	Common			very calcareous		1%				2%	CHALK							
F096	ZL	0	37	C	7.5YR4/3					very calcareous	gently sloping	2%		1%		1%	LIMESTO NE	Yes	II	2	19.3	4.9	2	WE/DR	2
		37	52	C	7.5YR5/6	10YR6/1	Few			very calcareous		1%				2%	CHALK							
		52	69	C	7.5YR5/6	10YR5/6;10 YR6/1	Very Many	Yes	69	very calcareous		1%				10%	CHALK							
		69	120	C	7.5YR6/2					very calcareous		1%				3%	CHALK							
F097	LH	0	30	hCL	10YR4/2					moderately calcareous	level	3%	1%	2%	HARD	2%	LIMESTO NE	Yes	III	3a	18	4	2	Flood	3b
		30	85	C	10YR5/3	10YR6/1	Many	Yes	38	moderately calcareous		1%				1%									
		85	120	SC	10YR5/3	7.5YR4/6;1 0YR6/1	Many			moderately calcareous		1%				1%									
F098	LH	0	32	hCL	10YR4/2					moderately calcareous	level	5%	2%	3%	HARD	3%	LIMESTO NE		I	2	-44	-35.3	3b	DR	3b
		32	40	C	10YR5/3					very calcareous		6%				1%									
		40		Limestone																					
F099	JP	0	28	hCL	7.5 YR 3/1					slightly calcareous	level	1%	2%	3%	HARD	1%	LIMESTO NE		I	2	12.5	2.4	2	WE/DR	2*
		28	90	hCL	7.5 YR 4/6					moderately calcareous		2%				1%	LIMESTO NE								
		90	120	IMP																					
F100	LH	0	36	mCL	10YR3/2					non-calcareous	level	3%	2%	1%	HARD			Yes	II	2	21.6	7.8	2	WE/DR	2
		36	60	SC	10YR5/3					moderately calcareous		3%													
		60	95	C	Gley 1 5/10Y	10YR5/8;10 YR6/1	Many	Yes	60	moderately calcareous		1%													
		95	105	LcS	7.5YR4/6					moderately calcareous		1%													

		105	120	C	Gley 1 5/10Y	10YR5/8;10 YR6/1	Many			moderately calcareous		1%												
F101	LH	0	36	SCL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			I	1	32.6	9.8	2	DR	2
		36	85	SCL	10YR4/3					moderately calcareous		5%												
		85	120	IMP																				
F102	ZL	0	29	C	7.5YR3/4					very slightly calcareous	level	1%				3%	LIMESTONE	I	2	16.2	2.3	2	WE/DR	2
		29	80	C	7.5YR6/4					very slightly calcareous		1%												
		80	120	C	7.5YR6/4	10YR5/6;10 YR6/1	Few			very slightly calcareous		1%												
F103	ZL	0	35	C	7.5YR4/3					very slightly calcareous	level	3%	2%	1%				I	2	18.6	4.7	2	WE/DR	2
		35	75	C	7.5YR5/6					very slightly calcareous		1%												
		75	120	C	7.5YR5/8	10YR5/6;10 YR6/1	Common			very slightly calcareous		1%												
F104	ZL	0	29	C	7.5YR4/3					very calcareous	gently sloping	3%	2%	1%		2%	LIMESTONE	Yes	II	2	15.2	1.2	2	WE/DR	2
		29	66	C	7.5YR5/6	10YR5/6;10 YR6/1	Common	Yes	66	very calcareous		1%												
		66	120	C	7.5YR6/1					very calcareous		1%												
F105	ZL	0	35	C	7.5YR4/3					very calcareous	level	3%	2%	1%		2%	LIMESTONE		I	2	25.3	8.9	2	WE/DR	2
		35	72	C	7.5YR6/4	10YR5/6;10 YR6/1	Few			very calcareous		1%				8%	CHALK							
		72	89	C	7.5YR6/4	10YR5/6;10 YR6/1	Few	Yes	89	very calcareous		1%				5%	CHALK							
		89	120	C	7.5YR6/1					very calcareous		1%				5%	CHALK							
F106	LH	0	32	hCL	10YR4/2					very calcareous	level	4%	2%	2%	HARD	3%	LIMESTONE		I	2	17.4	3.9	2	Flood	3b

		32	120	C	10YR5/3	7.5YR4/6;1 7.5YR6/2	Common	Yes	95	very calcareous		2%				2%								
F107	LH	0	28	hCL	10YR4/2					moderately calcareous	level	3%	2%	1%	HARD	3%	LIMESTONE	Yes	II	2	13.4	2.5	2	WE/DR	2
		28	58	SC	10YR5/4	10YR5/6	Few			moderately calcareous		2%				2%								
		58	80	C	GLEY 1 5/10Y	10YR5/6	Very Many	Yes	58	moderately calcareous		3%				2%								
		80	120	IMP																				
F108	JP	0	27	hCL	7.5 YR 3/4					moderately calcareous	level	2%	1%	<1%	HARD	1%	LIMESTONE		I	2	8	3.5	2	WE/DR	2
		27	70	C	10 YR 4/6	10 YR 6/8	Common			moderately calcareous		1%			HARD	1%	LIMESTONE							
		70	120	IMP																				
F109	JP	0	28	hCL	10 YR 3/3					moderately calcareous	level	4%	2%	2%	HARD	2%	LIMESTONE		I	2	21.6	0.2	2	WE/DR	2
		28	70	hCL	10 YR 4/2					moderately calcareous		2%				2%	LIMESTONE							
		70	100	C	10 YR 4/6					moderately calcareous		1%				2%	LIMESTONE							
		100	120	mSL	10 YR 5/8					moderately calcareous						2%	LIMESTONE							
F110	LH	0	40	hCL	10YR4/3					very calcareous	level	6%	3%	2%	HARD	2%	LIMESTONE		I	2	-40.3	-31.4	3b	Depth	3b
		40		Limestone																				
F111	LH	0	20	hCL	10YR4/3					very calcareous	level	10%	5%	4%	HARD	6%	LIMESTONE		I	2	-61.1	-52.4	4	Depth	3b
		20		Limestone																				
F112	ZL	0	28	hCL	10YR3/3					very calcareous	level					20%	LIMESTONE		I	2	-64.8	-56	4	Depth	3b
		28		Limestone						non-calcareous		2%													
F113	ZL	0	18	C	7.5YR4/3					non-calcareous	level	0%							I	3a	12.6	-1	2	Flood	3b

		18	39	C	7.5YR5/3	10YR5/6;10 YR6/1	Common			non-calcareous		2%												
		39	70	C	7.5YR6/4	10YR5/6;10 YR6/1	Common			non-calcareous		2%												
		70	120	C	7.5YR6/4					non-calcareous														
F114	ZL	0	36	C	7.5YR3/3					non-calcareous	level	2%						Yes	II	3a	19.1	5.9	2	WE	3a
		36	70	C	10YR6/4	10YR5/6;10 YR6/1	Common	Yes	70	non-calcareous		1%												
		70	120	C	10YR6/1					very calcareous						3%	LIMESTONE							
F115	ZL	0	29	C	7.5YR5/4					very calcareous	level	2%	2%	1%		3%	LIMESTONE	Yes	II	2	15.2	0.6	2	WE/DR	2
		29	65	C	7.5YR5/6	10YR5/6;10 YR6/1	Common	Yes	65	very calcareous		1%				2%	CHALK							
		65	120	C	7.5YR5/1					very calcareous		1%				8%	CHALK							
F116	ZL	0	28	C	7.5YR4/3					very calcareous	level	3%	1%			2%	LIMESTONE	Yes	II	2	15.2	0.7	2	WE/DR	2
		28	55	C	7.5YR5/6					very calcareous		1%				1%	CHALK							
		55	68	C	7.5YR5/8	10YR5/6;10 YR6/1	Common	Yes	68	very calcareous		1%				15%	CHALK							
		68	120	C	7.5YR6/2					very calcareous		1%				10%	CHALK							
F117	ZL	0	29	C	7.5YR4/3					very calcareous						2%	LIMESTONE	Yes	II	2	17.7	3.5	2	WE/DR	2
		29	70	C	7.5YR5/6	10YR5/6;10 YR6/1	Few	Yes	70	very calcareous						1%	CHALK							
		70	120	C	7.5YR6/2					very calcareous						15%	CHALK							
F118	LH	0	32	C	10YR4/3					very calcareous	level	3%	2%	1%	HARD	2%	LIMESTONE	Yes	II	2	15.1	2.2	2	WE/DR	2
		32	65	C	10YR5/4	10YR5/8, Mn	Few			very calcareous		2%												
		65	86	C	10YR5/4	7.5YR4/6;7. 5YR6/2	Many	Yes	65	very calcareous		2%												
		86	90	SC	10YR5/6					very calcareous		4%				6%	CHALK							

		90	120	IMP																				
F119	LH	0	30	hCL	10YR4/3				very calcareous	gently sloping	6%	3%	2%	HARD	2%	LIMESTONE		I	2	-57.2	-48.1	2	Depth	3b
		30		Limestone																				
F120	LH	0	25	hCL	10YR4/2				very calcareous	level	8%	4%	3%	HARD	6%	LIMESTONE		I	2	-67.4	-57.6	4	Depth	3b
		25		Limestone																				
F121	LH	0	25	hCL	10YR4/2				very calcareous	level	5%	2%	2%	HARD	3%	LIMESTONE		I	2	-65.1	-55.7	4	Depth	3b
		25		Limestone																				
F122	ZL	0	32	hCL	10YR4/3				very calcareous	level					18%			I	2	-53.8	-44.9	4	Depth	3b
		32	35	hCL	10YR6/4				very calcareous						2%	LIMESTONE								
		35		Limestone																				
F123	ZL	0	29	C	7.5YR3/3				non-calcareous	level	2%							I	3a	14.9	2.5	2	WE	3a
		29	45	C	7.5YR4/3	7.5YR6/1	Common		non-calcareous		1%													
		45	68	C	7.5YR5/4	7.5YR6/1	Common		very calcareous		2%													
		68	120	C	7.5YR6/1				very calcareous		5%				2%	LIMESTONE								
F124	ZL	0	30	C	7.5YR3/3				non-calcareous	level	2%						Yes	II	3a	16.4	3.1	2	WE	3a
		30	67	C	10YR5/4	7.5YR6/1;10YR6/8	Common	Yes	non-calcareous		1%													
		67	120	C	10YR6/1				very calcareous		2%				2%	LIMESTONE								
F125	ZL	0	18	C	7.5YR3/3				non-calcareous	level	2%				1%			I	3a	11.5	-2.5	2	WE	3a
		18	35	C	7.5YR4/3				very slightly calcareous		1%				1%									
		35	105	C	10YR5/4	7.5YR6/1;10YR6/8	Common	Yes	slightly calcareous		1%				1%	LIMESTONE								
		105	120	C	10YR6/1				very calcareous		1%				1%									
F126	ZL	0	36	C	10YR4/3				very calcareous	level	3%	2%	1%		3%	LIMESTONE		I	2	17.3	3.9	2	WE/DR	2
		36	87	C	10YR5/6	7.5YR6/1;10YR6/8	Few		very calcareous		1%													

		87	120	C	10YR5/4	7.5YR6/1;10YR6/8	Common		very calcareous		1%												
F127	LH	0	20	hCL	10YR4/3				very calcareous	gently sloping	8%	4%	3%	HARD	4%	LIMESTONE		I	2	-74.7	-65.8	4	Depth	3b
		20		Limestone																				
F128	LH	0	20	hCL	10YR4/3				very calcareous	level	8%	4%	3%	HARD	6%	LIMESTONE		I	2	-75.3	-66.4	4	Depth	3b
		20		Limestone																				
F129	LH	0	30	hCL	10YR4/2				very calcareous	level	5%	3%	1%	HARD	4%	LIMESTONE		I	2	-45.5	-36.8	3b	Depth	3b
		30	40	C	10YR4/4				very calcareous		6%													
		40		Limestone																				
F130	ZL	0	38	hCL	7.5YR4/3				very calcareous	level					15%	LIMESTONE		I	2	-45.5	-36.6	3b	Depth	3b
		38	39	hCL	7.5YR5/4										3%									
		39		Limestone																				
F131	ZL	0	32	hZCL	7.5YR4/3				very calcareous	level	1%				5%			I	2	46.7	21.2	1	WE	2
		32	120	hZCL	7.5YR5/4	7.5YR6/1;10YR6/8	Few		very calcareous		1%				5%	LIMESTONE								
F132	ZL	0	29	hCL	7.5YR3/3				very calcareous	level	3%	2%	1%		10%	LIMESTONE		I	2	18.6	-0.2	2	WE/DR	2*
		29	60	C	10YR5/4				very calcareous		1%				5%	CHALK								
		60	120	SCL	7.5Y_2/9				very calcareous		5%													
F133	ZL	0	28	C	7.5YR4/3				non-calcareous	level	5%	3%	2%					I	3a	13.8	0.5	2	WE	3a
		28	56	C	10YR5/4	7.5YR6/1;10YR6/8	Few		non-calcareous		1%													
		56	85	C	10YR5/3	7.5YR6/1;10YR6/8	Common	Yes	85 non-calcareous		2%				2%	LIMESTONE								
		85	120	C	10YR6/2				very calcareous		3%				2%									
F134	ZL	0	31	C	7.5YR4/3				non-calcareous	level	3%	2%	1%		1%	LIMESTONE		I	3a	16.3	2.6	2	WE	3a
		31	66	C	10YR5/4				non-calcareous		2%													
		66	120	C	10YR6/2				very calcareous		2%				2%	CHALK								

F135	ZL	0	30	C	7.5YR3/3				non-calcareous	level	2%					Yes	II	3a	17.5	3.6	2	WE	3a
		30	65	C	10YR5/6	7.5YR6/1;10YR6/8	Common	Yes	65	very slightly calcareous		1%											
		65	120	C	10YR6/2					very calcareous		1%				2%	CHALK						
F136	ZL	0	19	hCL	7.5YR3/2					slightly calcareous	level	2%						I	2	-13.1	-7.2	3a	DR	3a
		19	30	hCL	7.5YR3/4					slightly calcareous		2%											
		30	55	C	7.5YR5/4	10YR6/8	Common			very slightly calcareous		2%											
		55	120	C								35%											
F137	LH	0	30	hCL	10YR4/3					very calcareous	level	5%	2%	2%	HARD	3%	LIMESTONE		I	2	16.7	3	2	Flood	3b
		30	85	C	10YR5/4	7.5YR4/6;7.5YR6/2	Few			very calcareous		2%											
		85	120	C	10YR5/4	7.5YR4/6;7.5YR6/2	Very Many	Yes	85	very calcareous		2%											
F138	LH	0	20	hCL	10YR4/2					very calcareous	level	8%	4%	3%	HARD	6%	LIMESTONE		I	2	-76.5	-67.6	4	Depth	3b
		20		Limestone																					
F139	ZL	0	23	mCL	7.5YR3/3					non-calcareous	level	2%						I	1	19.2	2	2	DR	2
		23	55	C	7.5YR6/4					non-calcareous		2%											
		55	75	C	7.5YR6/4	7.5YR6/	Common			non-calcareous		1%											
		75	120	C	5YR5/4	7.5YR6/1;10YR6/8	Common			non-calcareous		2%											
F140	ZL	0	25	hCL	7.5YR3/3					non-calcareous	level	1%				2%		I	2	15.7	3.4	2	WE/DR	2
		25	70	C	7.5YR6/4					very slightly calcareous		1%				1%	LIMESTONE							
		70	120	C	7.5YR6/4					very calcareous		2%				5%								
F141	ZL	0	25	hCL	7.5YR4/3					very calcareous						25%	LIMESTONE	I	2	-70.6	-61.7	4	Depth	3b
		25		Limestone																					

		0	120																			
F142	ZL	0	30	hCL	7.5YR3/3					very calcareous	gently sloping		10%			I	2	-46.8	-37.9	3b	Depth	3b
		30	38	hCL	7.5YR6/4					very calcareous			2%	LIMESTONE								
		38		Limestone						very calcareous												
F143	ZL	0	31	C	7.5YR3/3					very calcareous	level		5%		Yes	II	2	14.6	0.8	2	WE/DR	2
		31	69	C	7.5YR6/4	7.5YR6/1	Common	Yes	69	very calcareous			5%	LIMESTONE								
		69	120	C	7.5YR6/2					very calcareous			5%									
F144	ZL	0	29	mCL	7.5YR3/3					very calcareous	level	2%	2%			I	1	16.9	3.2	2	Flood	3b
		29	40	hCL	7.5YR6/4					very calcareous		1%	2%	LIMESTONE								
		40	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	105	very calcareous		1%	2%									
F145		Not surveyed as limited by flood risk																			Flood	3b
F146	ZL	0	25	hCL	7.5YR4/3					very calcareous	level				20%	LIMESTONE		I	2	-69.1	-60.2	4	Depth	3b
		25		Limestone																		
F147	ZL	0	30	hCL	7.5YR4/3					very calcareous	level				15%			I	2	-34.1	-23.1	3b	Depth	3b
		30	55	hCL	7.5YR4/4										10%	LIMESTONE						
		55		Limestone																		
F148	ZL	0	31	hCL	7.5YR3/3					non-calcareous	level	2%			2%	LIMESTONE		I	2	16.5	5.7	2	WE/DR	2*
		31	68	C	7.5YR6/4					non-calcareous		1%										
		68	120	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very slightly calcareous		10%										
F149	ZL	0	34	C	7.5YR3/3					non-calcareous	level	3%	2%	1%	1%	LIMESTONE	Yes	II	3a	17.6	4.1	2	WE	3a
		34	65	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	65	non-calcareous		1%										

		65	120	C	7.5YR6/2					very calcareous		2%												
F150	ZL	0	36	C	7.5YR3/3					non-calcareous	level	2%						Yes	II	3a	19.2	5.4	2	WE	3a
		36	62	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	62	non-calcareous		2%												
		62	120	C	7.5YR6/2					very calcareous		2%			1%	CHALK								
F151	ZL	0	18	hCL	7.5YR3/3					non-calcareous	level	2%			1%	LIMESTONE		I	2	2	-3.7	3a	Flood	3b
		18	35	hCL	7.5YR6/4					non-calcareous		1%												
		35	75	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few			very slightly calcareous		5%												
		75	120	hCL	5YR5/3	7.5YR6/1;10YR6/8	Few			very slightly calcareous		1%			1%	LIMESTONE								
F152	ZL	0	22	hCL	7.5YR4/3					non-calcareous	gently sloping	2%			2%			I	2	-5.2	-7.2	3a	DR	3a*
		22	60	C	7.5YR6/4					very slightly calcareous		8%			2%	LIMESTONE								
		60	120	C	7.5YR6/4					slightly calcareous		40%			5%									
F153	ZL	0	26	hCL	7.5YR4/3					non-calcareous	gently sloping	2%						I	2	15.7	2.9	2	WE/DR	2
		26	45	C	7.5YR6/4					very slightly calcareous		1%												
		45	88	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	88	very slightly calcareous		5%			1%	LIMESTONE								
		88	120	C	7.5YR6/3					very calcareous		5%			2%									
F154	ZL	0	23	hCL	7.5YR4/3					very calcareous	level				50%	LIMESTONE		I	2	-82.2	-73.5	4	Depth	3b
		23		Limestone																				
F155	LH	0	30	hCL	10YR4/3					very calcareous	level	3%	2%	1%	HARD	2%	LIMESTONE	I	2	-55.7	-46.9	4	Depth	3b
		30		Limestone																				

F156	LH	0	28	mCL	10YR3/2					non-calcareous	gently sloping	5%	3%	2%	HARD			Yes	I	1	16.1	2.1	2	DR	2
		28	72	C	10YR4/4	7.5YR4/6;7.5YR5/1	Common	Yes	75	very calcareous		5%													
		72	120	C	10YR4/4					very calcareous		2%													
F157	ZL	0	22	mCL	7.5YR3/3					non-calcareous	level	2%				2%	LIMESTONE		I	1	15.2	0	2	Flood	3b
		22	45	hCL	7.5YR6/4					non-calcareous		1%													
		45	95	C	7.5YR6/4	10YR6/8	Few			very slightly calcareous		1%				1%	LIMESTONE								
		92	120	SCL	7.5YR6/4	10YR6/8	Few			very calcareous		1%				2%									
F158	ZL	0	28	hCL	7.5YR4/3					very calcareous	level	2%				20%	LIMESTONE		I	2	-62.9	-54.2	4	Depth	3b
		28		Limestone																					
F159	ZL	0	28	hCL	7.5YR4/3					very calcareous	level					25%	LIMESTONE		I	2	-66.5	-57.6	4	Depth	3b
		28		Limestone																					
F160	ZL	0	27	C	7.5YR4/3					non-calcareous	level	5%	2%	1%				Yes	II	3a	23.6	-0.8	2	WE	3a
		27	68	C	7.5YR6/4	7.5YR6/1;10YR6/8; Mn	Common			slightly calcareous		1%				1%									
		68	95	C	7.5YR6/3			Yes	68	slightly calcareous		1%				1%	LIMESTONE								
		95	120	C	7.5YR6/2					slightly calcareous															
F161	LH	0	35	hCL	10YR4/2					very calcareous	level	4%	2%	1%	HARD	1%	LIMESTONE		I	2	-25	-13.3	3b	DR	3b
		35	55	C	10YR4/3					very calcareous		3%													
		55		Limestone																					
F162	LH	0	28	hCL	10YR4/3					very calcareous	level	3%	2%	1%	HARD	2%	LIMESTONE		I	2	-55.7	-46.9	4	Depth	3b
		28		Limestone																					
F163	ZL	0	30	hCL	7.5YR3/3					very calcareous	level					10%			I	2	-28.1	-14.6	3b	DR	3b
		30	45	hCL	7.5YR6/4					very calcareous						10%	LIMESTONE								

		45	60	hCL	7.5Y_2/9					very calcareous						10%									
		60		Limestone																					
F164	LH	0	25	hCL	10YR4/3					very calcareous	level	2%	1%	1%	HARD	2%	LIMESTONE		I	2	-65.8	-56.9	4	Depth	3b
		25		Limestone																					
F165	LH	0	30	C	10YR4/3					very calcareous	level	5%	2%	2%	HARD	3%	LIMESTONE		I	2	-41.8	-33.1	3b	Depth	3b
		30	45	C	10YR4/4					very calcareous		5%				2%									
		45		Limestone																					
F166	ZL	0	30	hCL	7.5YR3/3					very calcareous	level	1%				2%	LIMESTONE		I	2	46.1	13.8	1	WE	2
		30	52	hCL	7.5YR4/3					very calcareous		2%				2%									
		52	78	SCL	10YR6/4					very calcareous		5%				2%	LIMESTONE								
		78	120	mSL	10YR7/6					very calcareous		5%				2%									
F167	ZL	0	29	hCL	7.5YR4/3					very calcareous	level	1%				2%	LIMESTONE	Yes	II	2	17.2	3.3	2	WE/DR	2
		29	65	SCL	10YR5/4	10YR6/8	Common	Yes	65	very calcareous						2%	CHALK								
		65	120	C	10YR6/1					very calcareous						2%	CHALK								
F168	ZL	0	28	hCL	7.5YR4/3					very calcareous	level					25%	LIMESTONE		I	2	-62.4	-53.7	4	Depth	3b
		28	31	SCL	5YR4/3					very calcareous															
		31		Limestone																					
F169	ZL	0	28	hCL	7.5YR4/3					very calcareous	level					20%	LIMESTONE		I	2	-64.8	-56	4	Depth	3b
		28		Limestone																					
F170	ZL	0	29	C	7.5YR4/3					very slightly calcareous	level	2%				2%	LIMESTONE	Yes	II	2	19.9	4.8	2	WE/DR	2
		29	65	SC	5YR5/4	7.5YR6/1;10YR6/8	Common	Yes	65	very slightly calcareous		2%													
		65	120	C	7.5YR6/1					very calcareous		2%													

F171	LH	0	31	hCL	10YR3/2				very calcareous	level	3%	2%	1%	HARD	1%	LIMESTONE		I	2	48.2	21.5	1	WE	2*
		31	85	mZCL	10YR4/3	7.5YR4/6;7.5YR6/2	Common		very calcareous		1%													
		85	120	mZCL	Black				very calcareous		1%													
F172	LH	0	28	hCL	10YR4/3				very calcareous	level	3%	2%	1%	HARD	2%	LIMESTONE		I	2	-51.1	-42.4	4	Depth	3b
		28	35	hCL	10YR5/4				very calcareous		2%				1%									
		35		Limestone																				
F173	LH	0	28	hCL	10YR4/3				very calcareous	level	2%	1%	<1%	HARD	2%	LIMESTONE		I	2	-55	-46.1	4	Depth	3b
		28		Limestone																				
F174	LH	0	30	hCL	10YR4/3				very calcareous	level	5%	2%	2%	HARD	3%	LIMESTONE		I	2	-32.7	-23.8	3b	DR	3b
		30	50	C	10YR4/4				very calcareous		6%				2%									
		50		Limestone																				
F175	LH	0	28	hCL	10YR4/3				very calcareous	level	2%	1%	<1%	HARD	2%	LIMESTONE		I	2	-55.4	-46.6	4	Depth	3b
		28		Limestone																				
F176	ZL	0	29	hCL	7.5YR3/3				very slightly calcareous	level	1%				1%			I	2	20.9	5.2	2	Flood	3b
		29	102	C	7.5YR5/8	7.5YR6/1;10YR6/8; Mn	Common		very slightly calcareous		1%				1%	LIMESTONE								
		102	120	SCL	10YR5/8	7.5YR6/1;10YR6/8; Mn	Common		very slightly calcareous		1%				1%									
F177	ZL	0	27	hCL	7.5YR4/3				very calcareous	gently sloping	2%				2%	LIMESTONE	Yes	I	2	17.6	3.7	2	WE/DR	2
		27	76	SCL	10YR7/8			Yes	76	very calcareous		1%				5%	CHALK								
		76	120	SCL						very calcareous		2%				2%	CHALK								
F178	ZL	0	31	hCL	7.5YR4/3					very calcareous	level	3%	2%	1%				Yes	II	2	20.2	5.2	2	WE/DR	2
		31	56	C	7.5YR6/4			Yes	56	very calcareous						15%	CHALK								

		56	120	C	Gley2 5B5/1					very calcareous						5%	CHALK							
F179	LH	0	30	hCL	10YR4/2					very calcareous	level	2%	1%	1%	HARD	2%	LIMESTONE	Yes	II	2	16.5	2.4	2	WE/DR	2*
		30	65	C	10YR5/4					very calcareous		3%				4%									
		65	88	C	Gley 1 5/10Y	10YR5/6	Many	Yes	65	very calcareous		3%				4%									
		88	120	ZC	Gley 1 5/10Y	10YR5/8	Many			very calcareous		1%				1%									
F180	ZL	0	22	mCL						non-calcareous	level	1%						Yes	II	2	15.4	1.5	2	Flood	3b
		22	35	hCL						non-calcareous		1%													
		35	69	C		7.5YR6/1;10YR6/8; Mn	Common			non-calcareous		1%													
		69	120	C				Yes	69	non-calcareous		1%													
F181	LH	0	32	hCL	10YR4/2					very calcareous	level	3%	2%	1%	HARD	1%	LIMESTONE		I	2	-44.8	-35.9	3b	Depth	3b
		32	40	hCL	10YR4/3					very calcareous		3%				3%									
		40		Limestone																					
F182	ZL	0	36	hCL	7.5YR3/3					very calcareous	level					20%	LIMESTONE		I	2	-54.6	-45.9	4	Depth	3b
		36		Limestone																					
F183	LH	0	25	hCL	10YR4/3					very calcareous	level	5%	3%	2%	HARD	3%	LIMESTONE		I	2	-65.5	-56.7	4	Depth	3b
		25		Limestone																					
F184	LH	0	35	hCL	10YR4/3					very calcareous	level	4%	2%	1%	HARD	3%	LIMESTONE		I	2	-41.7	-32.8	3b	Depth	3b
		35	40	C	10YR4/4					very calcareous		6%				2%									
		40		Limestone																					
F185	ZL	0	29	hCL	7.5YR3/2					non-calcareous	level	1%							I	2	46.7	18.2	1	WE	2
		29	77	hCL	7.5YR6/4					very slightly calcareous		1%				1%	LIMESTONE								
		77	120	SCL	10YR5/8					very slightly calcareous		1%				1%									

F186	LH	0	32	hCL	10YR4/3					very calcareous	level	2%	1%	<1%	HARD	1%	LIMESTONE		I	2	16	3.2	2	Flood	3b
		32	120	C	10YR4/4	7.5YR4/6;7.5YR6/1, Mn	Few			very calcareous		6%				2%	LIMESTONE								
F187	LH	0	32	hCL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD			Yes	III	3b	23.6	6.7	2	WE	3b
		32	80	C	Gley 1 5/10Y	10YR5/6	Many	Yes	32	non-calcareous		1%													
		80	120	IMP																					
F188	LH	0	32	hCL	10YR4/2					non-calcareous	level	1%	1%	<1%	HARD	1%	LIMESTONE	Yes	II	3a	20.8	7	2	WE	3a
		32	65	C	10YR5/4	10YR5/6;10YR6/1	Common			slightly calcareous		1%				1%									
		65	120	C	10YR5/4	7.5YR4/6;7.5YR6/1	Many	Yes	65	slightly calcareous		1%				1%									
F189	LH	0	33	hCL	10YR4/2					very calcareous	level	3%	1%	1%	HARD	2%	LIMESTONE		I	2	-36.7	-28	3b	Depth	3b
		33	45	hCL	10YR4/3					very calcareous		3%													
		45		Limestone																					
F190	LH	0	25	C	10YR4/3					very calcareous	level	3%	2%	1%	HARD	2%	LIMESTONE		I	2	-60.4	-51.6	4	Depth	3b
		25	29	C	10YR5/4					very calcareous		2%				1%									
		29		Limestone																					
F191	ZL	0	31	hCL	7.5YR3/3					very calcareous	level					5%	LIMESTONE		I	2	23	3.4	2	WE/DR	2
		31	52	C	7.5YR6/4					very calcareous						10%									
		52	88	C	7.5YR6/4	10YR6/1	Few			very calcareous		1%				5%									
		88	120	C	7.5YR6/5			Yes	88	very calcareous		1%													
F192	LH	0	29	hCL	10YR3/2					very calcareous	level	4%	2%	1%	HARD	2%	LIMESTONE	Yes	II	2	16.7	3.1	2	WE/DR	2
		29	50	C	10YR5/6					very calcareous		3%													
		50	85	C	10YR5/4	10YR6/1	Many	Yes	65	very calcareous		5%													

		85	120	C	Gley 1 4/N				moderately calcareous		1%														
F193	LH	0	32	hCL	10YR4/2				non-calcareous	level	2%	1%	<1%	HARD			I	2	42.6	13.6	1	WE	2
		32	80	mSCL	10YR5/6	Mn			moderately calcareous		2%														
		80	120	mSCL	10YR5/8	Mn			moderately calcareous		6%			gravel											
F194	LH	0	33	hCL	10YR4/2				moderately calcareous	level	2%	1%	1%	HARD	2%	LIMESTONE		I	2	19.6	6.4	2	Flood	3b
		33	120	C	10YR5/4	7.5YR4/6;7.5YR6/2, Mn	Common	Yes	88	very calcareous		2%			1%										
F195	LH	0	28	mCL	10YR4/2				non-calcareous	level	3%			HARD				I	1	25.6	13.5	2	DR	2*
		28	65	mSCL	10YR4/2	Mn			non-calcareous		6%														
		65	85	cSL	10YR4/2	Mn			non-calcareous		6%														
		85	90	cS	10YR5/6	Mn			non-calcareous		8%														
		90	120	IMP																					
F196	LH	0	29	C	10YR4/2				non-calcareous	level	3%	2%	1%	HARD				I	3a	3.7	-1.5	3a	WE/DR	3a
		29	60	C	10YR5/4				non-calcareous		3%														
		60	80	C	10YR5/4				non-calcareous		12%														
		80	120	IMP																					
F197	ZL	0	25	mCL	7.5YR3/3				non-calcareous	level							Yes	II	2	18	4.9	2	Flood	3b
		25	48	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few	Yes	48	very slightly calcareous															
		48	120	C	7.5YR6/1	Mn				slightly calcareous															
F198	LH	0	26	hCL	10YR4/3				very calcareous	level	4%	3%	1%	HARD	2%	LIMESTONE	Yes	III	3a	28.2	2.6	2	WE	3a*

		26	80	C	Gley 1 5/10Y			Yes	26	very calcareous		1%				1%								
		80	95	cSL	10YR5/6					very calcareous		1%				1%								
		95	120	C	Gley 1 5/10Y	10YR5/6	Very Many			very calcareous		1%				1%								
F199	LH	0	30	hCL	10YR4/3					very calcareous	level	4%	3%	2%	HARD	2%	LIMESTONE		I	2	-47.9	-39	3b	Depth	3b
		30	35	hCL	10YR5/4					very calcareous		1%				1%								
		35		Limestone																				
F200	ZL	0	25	C	7.5YR3/3					slightly calcareous	gently sloping					3%		Yes	II	2	14.2	0.8	2	WE/DR	2
		25	67	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	67	slightly calcareous						1%	LIMESTONE							
		67	120	C	7.5YR6/1					very calcareous						5%								
F201	ZL	0	29	mCL	7.5YR3/3					non-calcareous		1%				2%	LIMESTONE	Yes	II	2	20.6	5	2	WE/DR	2
		29	66	SCL	10YR5/4	7.5YR6/1;10YR6/8	Common	Yes	66	non-calcareous		2%												
		66	120	C	7.5YR6/2					very slightly calcareous		1%												
F202	ZL	0	28	hCL	7.5YR3/2					non-calcareous		1%				1%	LIMESTONE	Yes	I	2	1.6	-7.2	3a	DR	3a*
		28	78	SCL	7.5YR5/6			Yes	78	non-calcareous		25%				5%	LIMESTONE								
		78	120	C	7.5YR6/1					very slightly calcareous														
F203	LH	0	28	C	10YR4/2					very calcareous	level	2%	1%	<1%	HARD	2%	LIMESTONE	Yes	I	2	12.9	-0.2	2	WE/DR	2*
		28	80	C	10YR5/4					very calcareous		4%				3%								
		80	120	C	Gley 1 5/10Y	10YR5/6	Many	Yes	80	very calcareous		1%				1%								
F204	LH	0	22	C	10YR4/2					moderately calcareous		2%	1%	<1%					I	2	-45.5	-36.8	3b	Depth	3b

		22	40	C	10YR4/3	Mn				non-calcareous	level	2%		HARD						
		40		Limestone																
F205	ZL	0	32	C	7.5YR3/3					non-calcareous	level	1%				I	3a	18.6	4.4	2	Flood	3b
		32	80	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			slightly calcareous		2%										
		80	120	C	7.5YR6/4					slightly calcareous		0%										
F206	ZL	0	28	hCL	7.5YR3/3					non-calcareous	level	2%			Yes	II	3a	18.7	5.1	2	Flood	3b
		28	68	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	68	non-calcareous		2%										
		68	120	C	7.5YR6/1					very calcareous		2%										
F207	ZL	0	38	mCL	7.5YR3/3					non-calcareous	level	1%			Yes	II	2	24.6	10.3	2	Flood	3b
		38	58	hCL	7.5YR5/6			Yes	58	non-calcareous		1%										
		58	120	C	7.5YR6/1					non-calcareous	level	0%										
F208	ZL	0	29	mCL	7.5YR3/3					non-calcareous		2%				I	1	25.5	10.7	2	Flood	3b
		29	71	hCL	10YR6/8					non-calcareous		2%										
		71	86	mSL	10YR7/8					non-calcareous		2%										
		86	120	LmS	10YR6/3					non-calcareous		20%										
F209	ZL	0	30	hCL	7.5YR4/3					non-calcareous	level	5%				I	2	23.3	6.4	2	Flood	3b
		30	45	hCL	7.5YR5/6					non-calcareous		1%										
		45	60	SCL	10YR7/6					non-calcareous		15%										
		60	120	SCL								35%										
F210	LH	0	33	mCL	10YR4/3					very calcareous	level	2%		HARD		I	1	7.5	2.3	2	Flood	3b
		33	70	hCL	10YR5/6	Mn				very calcareous		4%										
		70	120	hCL								35%										

F211	LH	0	45	mCL	10YR4/3					non-calcareous	level	2%	1%	<1%	HARD			I	1	12.2	4.9	2	Flood	3b
		45	55	hCL	10YR4/4	Mn				non-calcareous		2%												
		55	120	hCL								35%												
F212	LH	0	80	cSL	10YR3/2					very calcareous	level	1%			HARD	1%	LIMESTONE	I	1	29.1	38.8	2	DR	2
		80	105	cS	7.55/6					moderately calcareous		2%				2%								
		105	120	cSL	Gley 1 5/10Y			Yes	105	very calcareous		10%				2%								
F213	MAGIC	0	30	C	2.5Y4/2					non-calcareous	level	2%			HARD									3a
		30	60	C	2.5Y5/3	10YR6/8	Common			very slightly calcareous		2%												
		60	120	C	2.5Y5/3	10YR6/6	Common			moderately calcareous		2%												
F214	ZL	0	29	C	7.5YR4/3					very calcareous	level	2%				2%	CHALK	Yes	II	2	15	0.5	2	WE/DR	2
		29	50	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	50	very calcareous		2%				15%								
		50	120	C	7.5YR6/2					very calcareous		2%				15%								
F215	ZL	0	28	hCL	7.5YR3/3					non-calcareous	level	1%						I	2	18.6	5.2	2	Flood	3b
		28	95	C	7.5YR6/4	7.5YR6/1;10YR6/8; Mn	Common			non-calcareous		1%												
		95	120	hCL	7.5YR6/4					non-calcareous		5%												
F216	ZL	0	29	hCL	7.5YR4/3					non-calcareous	level	2%						I	2	25.3	4.7	2	Flood	3b
		29	52	C	7.5YR5/6					non-calcareous		2%												
		52	120	SCL	10YR7/8	7.5YR6/1;10YR6/8	Common			non-calcareous		5%												
F217	ZL	0	29	mCL	7.5YR3/3					non-calcareous	level							I	1	41.8	7.5	2	Flood	3b

		29	50	SCL	10YR5/8					non-calcareous		2%								
		50	85	SCL	10YR6/8	10YR6/8	Few			non-calcareous		5%								
		85	120	mSL	10YR6/8					non-calcareous		5%								
F218	ZL	0	25	mCL	7.5YR3/4					non-calcareous	level	2%				I	1	12	-1.4	2	Flood	3b
		25	45	mCL	7.5YR4/3					non-calcareous		1%								
		45	76	hCL	7.5YR6/4	7.5YR6/1;10YR6/8	Few			non-calcareous		2%								
		76	87	SCL	10YR5/4	10YR6/8; Mn	Few			non-calcareous		15%								
		87	120	C	10YR6/2			Yes	87	non-calcareous		2%								
F219	ZL	0	30	hCL	7.5YR4/3					non-calcareous	level	10%	4%	2%		I	2	13.7	-4	2	Flood	3b
		30	45	SCL	7.5YR5/6					non-calcareous		10%								
F220	ZL	0	35	hCL	7.5YR4/3					very calcareous	level	5%				Yes	III	3a	21.4	7.2	2	Flood	3b
		35	68	C	7.5YR5/3	7.5YR6/1;10YR6/8		Yes	38-68	very calcareous												
		68	120	SCL	10YR7/6					non-calcareous		15%								
F221	LH	0	28	hCL	10YR4/2					non-calcareous	level	2%	1%	<1%	HARD		I	2	7.8	4.7	2	WE/DR	2
		28	65	C	10YR4/3					non-calcareous		2%										
		65	70	C	Black					non-calcareous		8%										
		70	120	C								35%										
F222	MAGIC	0	30	C	2.5Y4/2					non-calcareous	level	2%			HARD							3a
		30	60	C	2.5Y5/3	10YR6/8	Common			very slightly calcareous		2%										

		60	120	C	2.5Y5/3	10YR6/6	Common		moderately calcareous		2%										
F223	MAGIC	0	32	mSL	7.5YR4/3				non-calcareous	level	2%										3a
		32	69	LmS	7.5YR5/4				non-calcareous		3%										
		69	95	LmS	7.5YR5/6				non-calcareous		1%										
		95	120	mS	7.5YR5/6				non-calcareous		1%										
F224	ZL	0	20	hCL	10YR3/2				very slightly calcareous	level	2%					I	2	6.6	-7.2	2	WE/DR	2
		20	65	SCL	10YR4/3				very calcareous		15%										
		65	120	C	10YR5/2	7.5YR6/1;10YR6/8	Very Many		very calcareous		10%										
F225	ZL	0	32	C	10YR3/2				slightly calcareous	level	3%	2%	1%			I	2	16.3	2	2	WE/DR	2
		32	120	C	10YR5/3	7.5YR6/1	Common		very calcareous		2%				10%	CHALK						
F226	ZL	0	36	C	10YR3/2				slightly calcareous	level	3%	2%	1%		1%	LIMESTONE	I	2	28	3.2	2	WE/DR	2
		36	120	C	10YR5/3	7.5YR6/1;10YR6/8	Common		very calcareous		2%				10%	CHALK						
F227	ZL	0	29	C	7.5YR4/3				non-calcareous	level							I	3a	16	2.9	2	Flood	3b
		29	55	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few		non-calcareous													
		55	85	C	7.5YR5/8	7.5YR6/1;10YR6/8; Mn	Common		non-calcareous		5%											
		85	120	hCL	7.5YR6/4	7.5YR6/1;10YR6/8; Mn	Common		non-calcareous		5%											
F228	ZL	0	28	C	7.5YR4/3				non-calcareous	level							I	3a	14.9	2.4	2	Flood	3b
		28	50	C	7.5YR6/4	7.5YR6/1;10YR6/8	Few		non-calcareous													
		50	85	C	7.5YR5/8	7.5YR6/1;10YR6/8; Mn	Common		non-calcareous		5%											

| | | |

F234	ZL	0	35	C	7.5YR4/3					very slightly calcareous	level	2%					Yes	II	2	17.6	2.7	2	WE/DR	2
		35	70	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	70	very calcareous		2%		20%	CHALK								
		70	120	C	7.5YR6/2					very calcareous		2%		5%									
F235	ZL	Not surveyed as surveyed post - 1988 ALC																					2
F236	ZL	0	29	C	7.5YR4/3					non-calcareous	level	1%						I	3a	13.5	2.7	2	Flood	3b
		29	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		1%												
		65	83	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		5%												
		83	120	SCL	10YR7/8					non-calcareous		25%												
F237	ZL	0	27	C	7.5YR4/3					non-calcareous	level	2%						I	3a	7.1	9.8	2	Flood	3b
		27	60	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		1%												
		60	98	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		5%												
		98	120	SCL	10YR7/8					non-calcareous		5%												
F238	ZL	0	31	C	7.5YR3/3					non-calcareous	level	2%						I	3a	10.3	1.3	2	Flood	3b
		31	53	C	7.5YR4/3	7.5YR6/1;10YR6/8	Common			non-calcareous		2%												
		53	75	hCL	10YR5/4	7.5YR6/1;10YR6/8	Common			non-calcareous		5%												
		75	120	SCL	10YR5/6					non-calcareous		25%												
F239	ZL	0	31	hCL	7.5YR4/3					non-calcareous	level	2%						I	2	5.2	-1.4	2	Flood	3b
		31	50	C	7.5YR6/4	7.5YR6/1;10YR6/8	Many			non-calcareous		2%												
		50	120	C						non-calcareous		35%												
F240	ZL	0	38	hCL	7.5YR4/3					very calcareous	level	3%	2%	1%	5%	LIMESTONE	Yes	II	2	10.7	2.5	2	WE/DR	2

		38	65	C	7.5YR6/4	Mn	Common	Yes	65	very calcareous		8%			2%										
		65	90	C	7.5YR6/2					very calcareous		2%			5%										
		90	120	C								35%													
F241	MAGIC	0	32	mSL	7.5YR4/3					non-calcareous	level	2%													2
		32	69	LmS	7.5YR5/4					non-calcareous		3%													
		69	95	LmS	7.5YR5/6					non-calcareous		1%													
		95	120	mS	7.5YR5/6					non-calcareous		1%													
F242	ZL	0	35	hCL	7.5YR3/3					non-calcareous	gently sloping	2%						I	2	8.6	1	2	WE/DR	2	
		35	50	hCL	7.5 YR 5/6	7.5YR6/1;10YR6/8	Few			non-calcareous		5%													
		50	120	C	7.5 YR 5/8					non-calcareous		30%													
F243	ZL	0	35	C	7.5 YR 4/3					non-calcareous		5%	3%	2%				I	3a	-1.5	-8.1	3a	WE/DR	3a*	
		35	50	C	5 YR 5/4					non-calcareous		5%													
		50	120	C								35%													
F244	ZL	0	35	C	7.5YR3/3					very slightly calcareous	level	4%	2%	1%			Yes	II	2	17.4	2.9	2	WE/DR	2	
		35	59	C	7.5 YR 5/6	7.5YR6/1;10YR6/8	Common	Yes	59	very slightly calcareous		1%			5%	CHALK									
		59	120	C	7.5 YR 6/2					very calcareous		1%			10%										
F245	ZL	Not surveyed as limited by flood risk.																					Flood	3b	
F246	JP	0	35	hCL	7.5 YR 4/2					non-calcareous	level	1%	5%	1%	HARD			I	2	21.8	5.3	2	WE/DR	2	
		35	50	hCL	10 YR 5/6	10 YR 6/8	Common			non-calcareous		2%			HARD										
		50	120	hCL								35%													
F247	MAGIC	0	30	C	2.5Y4/2					non-calcareous	level	2%			HARD									3a	

		30	60	C	2.5Y5/3	10YR6/8	Common			very slightly calcareous		2%												
		60	120	C	2.5Y5/3	10YR6/6	Common			moderately calcareous		2%												
F248	ZL	0	38	hCL	7.5YR4/3					non-calcareous	level	2%							I	2	48.6	17.9	1	WE	2
		38	50	hCL	7.5 YR 5/6					non-calcareous		1%												
		50	88	SCL	7.5 YR 5/8					non-calcareous		1%												
		88	120	SCL	7.5 YR 5/8	7.5YR6/1;10YR6/8	Common			non-calcareous		1%												
F249	ZL	0	37	hCL	7.5YR3/4					very slightly calcareous	level	3%	2%	1%		1%	LIMESTONE	Yes	II	2	21.9	7.6	2	WE/DR	2
		37	59	C	7.5YR6/4	7.5YR6/1;10YR6/8	Common	Yes	59	very calcareous		1%				8%	CHALK							
		59	120	C	7.5YR6/1					very calcareous		2%				15%								
F250	ZL	0	35	C	7.5YR3/4					very calcareous	level	2%				1%	LIMESTONE	Yes	II	2	17.6	2.6	2	WE/DR	2
		35	70	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	70	very calcareous		1%				15%	CHALK							
		70	120	C	7.5YR6/1					very calcareous		1%				8%								
F251	ZL	0	37	C	7.5YR4/2					very calcareous	level	3%	2%	1%				Yes	II	2	18.1	3.6	2	WE/DR	2
		37	65	C	7.5YR5/4	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		2%				15%	CHALK							
		65	120	C	7.5YR7/1					very calcareous		2%				10%								
F252	JP	0	35	hCL	10 YR 4/2					non-calcareous	level	2%	2%	1%	HARD				I	2	13.6	-1	2	WE/DR	2
		35	50	hCL	2.5 Y 5/4					non-calcareous		30%			HARD										
		50	120	hCL								40%													
F253	JP	0	35	hCL	7.5 YR 4/2					non-calcareous	level	1%	4%	1%	HARD			Yes	II	3a	17	2.1	2	WE	3a*

		35	60	hCL	7.5 YR 4/2					non-calcareous		5%			HARD									
		60	120	C	2.5 Y 5/4	10YR5/8;10 YR6/1	Common	Yes	65	non-calcareous		2%			HARD									
F254	JP	0	30	hCL	7.5 YR 4/2					non-calcareous	level	1%	5%	<1%	HARD			Yes	II	3a	16.9	2.1	2	WE	3a
		30	75	hCL	2.5 Y 5/4					slightly calcareous		1%			HARD	15%	CHALK							
		75	95	C	5Y 5/2	10YR6/8;10 YR6/1	Common	Yes	70	moderately calcareous		2%			HARD	2%	CHALK							
		95	120	C	gley 2 4/5PB	10 YR 6/8	Common			moderately calcareous		1%			HARD	5%	CHALK							
F255	ZL	0	37	C	7.5 YR 3/4					very calcareous	level	2%	1%	1%				Yes	II	2	12.9	5.4	2	WE/DR	2
		37	55	C	7.5 YR 5/4	7.5YR6/1;1 0YR6/8	Common	Yes	67	very calcareous		2%												
		55	67	C	7.5 YR 6/4					very calcareous		2%				10%	CHALK							
		67	120	C	7.5 YR 6/2					very calcareous		1%				2%								
F256	ZL	0	37	C	7.5 YR 3/4					very calcareous	level	4%	2%	1%				Yes	II	2	17.9	4	2	WE/DR	2
		37	58	C	7.5 YR 5/4	7.5YR6/1	Few	Yes	67	very calcareous		2%				10%	CHALK							
		58	120	C	7.5 YR 6/1					very calcareous		2%				2%								
F257	ZL	0	35	C	7.5 YR 4/2					very calcareous	level	3%	1%	1%		2%	LIMESTO NE/CHAL	Yes	II	2	17.6	3.4	2	WE/DR	2
		35	69	C	7.5 YR 5/4	7.5YR6/1; Mn	Few	Yes	69	very calcareous		1%				2%	CHALK							
		69	120	C	7.5 YR 6/2					very calcareous		1%				10%	CHALK							
F258	ZL	0	35	C	7.5 YR 3/3					very calcareous	level	3%	1%	1%		1%		Yes	II	2	17.6	2.9	2	WE/DR	2
		35	65	C	7.5 YR 5/6	7.5YR6/1;1 0YR6/8	Common	Yes	65	very calcareous		1%				15%	CHALK							
		65	120	C	7.5 YR 6/2					very calcareous		1%				15%								
F259	JP	0	36	SCL	7.5 YR 4/2					non-calcareous	level	2%	3%	<1%	HARD				I	1	16.3	10.9	2	DR	2

		36	65	SCL	10 YR 4/2			non-calcareous		2%			HARD										
		65	70	mSL	10 YR 5/8			moderately calcareous		5%			HARD										
		70	120	LmS	10 YR 5/8			moderately calcareous		50%			HARD	2%	CHALK								
F260	JP	0	34	SCL	7.5 YR 4/2			non-calcareous	level	5%	2%	1%	HARD			I	1	-4.5	-16.5	3a	DR	3a	
		34	80	SCL	10 YR 4/2			non-calcareous		50%			HARD										
		80	120	IMP																			
F261	MAGIC	0	30	hCL	10YR4/3			non-calcareous	level	2%			HARD									3b	
		30	50	hCL	10YR4/4			non-calcareous		2%													
		50	90	C	10YR5/3	10YR5/8	Common	slightly calcareous		1%													
		90	120	C	5YR4/1	10YR5/6	Common	very calcareous		1%													
F262	ZL	0	26	C	7.5 YR 3/3			very slightly calcareous	level	4%	2%	1%				I	2	22	8.5	2	WE/DR	2	
		26	62	C	10 YR5/4	10YR6/1	Few	very slightly calcareous		1%				1%	LIMESTONE								
		62	87	C	11 YR5/3	10YR6/1	Few	very slightly calcareous		5%				1%	CHALK								
		87	120	SCL	12 YR6/6	10YR6/1;10 YR6/8	Few	very slightly calcareous		1%													
F263	JP	0	35	SCL	7.5 YR 4/2			non-calcareous	level	1%	4%	1%	HARD			I	1	10	9.7	2	DR	2	
		35	70	SCL	10 YR 5/8			non-calcareous		2%			HARD										
		70	120	LmS	10 YR 5/8			non-calcareous		40%			HARD										
F264	JP	0	35	SCL	7.5 YR 4/2			non-calcareous	level	1%	5%	1%	HARD			I	1	24.2	9.3	2	DR	2	

		35	50	SCL	10 YR 4/2			non-calcareous		1%	HARD			
		50	80	SCL	10 YR 5/8			non-calcareous		2%	HARD			
		80	120	LcS	10 YR 4/6			non-calcareous		1%	HARD			
F265	MAGIC	0	30	hCL	10YR4/3			non-calcareous	level	2%	HARD			3b
		30	50	hCL	10YR4/4			non-calcareous		2%				
		50	90	C	10YR5/3	10YR5/8	Common	slightly calcareous		1%				
		90	120	C	5YR4/1	10YR5/6	Common	very calcareous		1%				
F266	MAGIC	0	30	hCL	10YR4/3			non-calcareous	level	2%	HARD			3b
		30	50	hCL	10YR4/4			non-calcareous		2%				
		50	90	C	10YR5/3	10YR5/8	Common	slightly calcareous		1%				
		90	120	C	5YR4/1	10YR5/6	Common	very calcareous		1%				

* F132, F179, F195 and F203 - Isolated points of Grade 2, mapped as Grade 3a. F099, F148 and F171 - Isolated points of Grade 2, mapped as Grade 3b. F053, F152, F243 and F253 - Isolated points of Grade 3a, mapped as Grade 2. F198 and F202 - Isolated points of Grade 3a, mapped as Grade 3b. F070 - Isolated point of Grade 3b, mapped as Grade 3a.

Site G

Climate Data:

Auger Bore No	National Grid Reference	ALT (m AOD)	AAR (mm)	AT0 (day °C)	FCD	MDMWHT (mm)	MDMPOT (mm)
G011	SP909543	78	611	1394	124	108	100
G031	SP904546	81	615	1390	125	107	99
G051	SP901549	83	616	1388	125	107	98
G076	SP906552	85	617	1386	125	107	98
G080	SP910552	88	617	1382	125	107	97
G112	SP901556	101	625	1368	126	105	95
G127	SP906556	98	623	1371	126	105	96
G149	SP907559	103	624	1365	126	105	95

Auger Bore No	Surveyor Initials	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Gleyed Horizon	Depth to Gley	CaCo3%	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Hard Stone Type	Soft Stone Content % >2mm	Soft Stone Type	Slowly permeable layer (SPL) < 80cm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Limiting Factor	Final ALC Grade
G-001	RM	0	38	C	10YR4/3					very calcareous		2%			HARD			Yes	III	3a	20.9	7.8	2	WE	3a
		38	40	C	10YR4/3			Yes	40	very calcareous						2	CHALK								
		40	90	C	10YR5/3	10YR5/6	Many			very calcareous															
		90	120	C																					
G-002	RM	0	40	C	10YR4/2					slightly calcareous		2%			HARD			Yes	II	2	20.9	7.8	2	WE	2
		40	50	C	10YR4/3			Yes	50	slightly calcreous															
		50	85	C	10YR5/3	10YR5/6	Common									3	CHALK								
		85	120	C																					
G-003	RM	0	38	C	10YR4/2					very calccareous		3%	2		HARD			Yes	II	2	20.9	7.8	2	WE	2
		38	60	C	10YR5/3			Yes	60	very calccareous						2	CHALK								
		60	90	C	10YR5/3	10YR5/6	Common			very calccareous															
		90	120	C																					
G-004	RM	0	38	C	10YR4/2					very calcareous		3%	2%		HARD			Yes	II	2	20.9	7.8	2	WE	2
		38	50	C	10YR5/3					very calcareous															
		50	80	C	10Y5/3	10YR5/6	Common	Yes	50																
		80	120	C																					
G-005	RM	0	38	HCL	10YR3/3					moderately calcareous		3%	2%		HARD			Yes	II	2	20.9	7.8	2	WE	2
		38	50	C	7.5YR4/3					very calcareous						3%	CHALK								
		50	80	C	7.5YR5/3	10YR5/6	Common	Yes	50	very calcareous															
		80	120	C																					
G-006	RM	0	39	HZCL	10YR3/4					very slightly calcareous		3%			HARD			Yes	II	2	25.9	12.8	2	WE	2
		39	70	HZCL	10YR5/4			Yes	70	non-calcareous															

		70	90	C	2.5Y5/3	10YR5/6	Common																
		90	120	C																			
G-007	RM	0	40	C	10YR4/2					very slightly calcareous	2%		HARD			Yes	II	3a	20.9	7.8	2	WE	3a
		40	45	C	10YR4/2			Yes	58	very slightly calcareous													
		45	58	C	10YR5/4	10YR5/6	Common			slightly calcareous													
		58	90	C	10YR5/3	10YR5/6	Many								CHALK								
		90	120	C																			
G-008	RM	0	40	C	10YR4/2					slightly calcareous	3%	2%	HARD										
		40	45	C	10YR4/2					slightly calcareous				2%	CHALK	Yes	II	2	20.9	7.8	2	WE	2
		45	65	C	10YR5/3					slightly calcareous													
		65	70	C	10YR5/3	10YR5/6	Common	Yes	65	slightly calcareous													
		70	90	HZCL	10YR6/1					non-calcareous													
		90	120	HZCL																			
G-009	RM	0	33	C	10YR3/3					slightly calcareous						Yes	II	2	20.9	7.8	2	WE	2
		33	50	C	10YR5/2					slightly calcareous													
		50	90	C	10YR5/3	10YR5/6	Common	Yes	50	very calcareous				2%	CHALK								
		90	120	C																			
G-010	RM	0	35	C	10YR4/2					very calcareous	2%		HARD			Yes	II	2	20.9	7.8	2	WE	2
		35	50	C	10YR4/3					very calcareous													
		50	80	C	2.5Y5/3	10YR5/6	Many	Yes	50	very calcareous				2%	CHALK								
		80	120	C																			
G-011	RM	0	38	C	10YR4/2					slightly calcareous						Yes	III	3a	20.9	7.8	2	WE	3a
		38	40	C	10YR4/3					very calcareous													

		40	80	C	2.5Y6/4	10YR5/6	Common	Yes	40	very calcareous					2%	CHALK								
		80	120	C																				
G-012	RM	0	39	HCL	10YR4/3					very slightly calcareous		2%		HARD				I	2	20.9	7.8	2	WE	2
		39	70	SCL	10YR4/4																			
		70	120	SCL																				
G-013	RM	0	38	C	10YR3/3					slightly calcareous	level	3%	2%	HARD				I	2	20.9	7.8	2	WE	2
		38	60	C	7.5YR4/4					slightly calcareous														
		60	120	C																				
G-014	RM	0	35	C	10YR3/3					non-calcareous		5%	3%	HARD			Yes	III	3b	20.9	7.8	2	WE	3b
		35	90	C	2.5Y5/1	10YR5/6	Many			non-calcareous														
		90	120	C	10YR5/2			Yes	35	non-calcareous														
G-015	RM	0	38	C	10YR4/3					non-calcareous		2%		HARD			Yes	III	3b	20.9	7.8	2	WE	3b
		38	70	C	10YR5/3	10YR5/6	Many	Yes	38	non-calcareous														
		70	100	SCL	10YR5/3																			
		100	120	SCL																				
G-016	RM	0	40	C	10YR4/2					non-calcareous							Yes	III	3b	20.9	7.8	2	WE	3b
		40	70	C	2.5Y4/2	10YR5/6	Common	Yes	40	non-calcareous		2%	1%	HARD										
		70	90	SCL	2.5Y5/4	10YR5/6	Very Many			slightly calcareous					1%	CHALK								
		90	120	SCL																				
G-017	RM	0	40	C	10YR4/3					non-calcareous		2%	1%	HARD			Yes	III	3b	20.9	7.8	2	WE	3a
		40	80	C	10YR5/3	10YR5/6	Common	Yes	40	very calcareous														
		80	120	C											2%	CHALK								
G-018	RM	0	40	C	10YR4/2					non-calcareous		2%	1%	HARD			Yes	II	3a	20.9	7.8	2	WE	3a
		40	60	C	10YR5/4					non-calcareous														

		60	90	C	2.5Y5/2	10YR5/6	Common	Yes	60	non-calcareous			2%	CHALK								
		90	120	C																		
G-019	RM	0	40	HCL	7.5YR4/3			Yes	60	very slightly calcareous	2%	HARD			Yes	II	2	20.9	7.8	2	WE	2
		40	60	C	7.5YR5/4					very calcareous												
		60	120	C									1%	CHALK								
G-020	RM	0	30	HCL	10YR4/3					slightly calcareous	2%	HARD				I	2	25.9	12.8	2	WE	2
		30	90	HCL	7.5YR4/3					non-calcareous												
		90	120	C																		
G-021	RM	0	40	C	10YR4/2					non-calcareous	2%	HARD			Yes	III	3b	20.9	7.8	2	WE	3b
		40	60	C	10YR5/3	10YR5/6	Common	Yes	40	non-calcareous			1%	CHALK								
		60	120	C																		
G-022	RM	0	35	C	10YR3/3					very slightly calcareous	3%	HARD			Yes	II	3a	20.9	7.8	2	WE	3a
		35	60	C	10YR5/3	10YR5/6	Few			non-calcareous												
		60	90	C	10YR5/3	10YR5/6	Common	Yes	60													
		90	120																			
G-023	RM	0	35	C	2.5Y4/2					slightly calcareous	2%	HARD			Yes	III	3a	20.9	7.8	2	WE	3a
		35	40	C	2.5Y4/3					slightly calcareous			2%	CHALK								
		40	90	C	2.5Y5/3	10YR5/6	Common	Yes	50	very calcareous												
		90	120	C																		
G-024	RM	0	38	C	10YR4/2					non-calcareous	2%	HARD			Yes	II	3a	20.9	7.8	2	WE	3a
		38	70	C	2.5Y4/3					moderately calcareous			2%	CHALK								
		70	90	C	2.5Y5/3	10YR5/6	Many	Yes	70	moderately calcareous												

		90	120	C						slightly calcareous													
G-025	RM	0	30	C	10YR4/2					non-calcareous	2%			HARD			Yes	II	3a	20.9	7.8	2	WE	3a
		30	40	C	10YR4/3					slightly calcareous					2%	CHALK							
		40	70	C	2.5Y5/3					slightly calcareous													
		70	90	C	10YR5/2	10YR5/6	Many	Yes		very calcareous													
		90	120	C																			
G-026	RM	0	40	C	10YR4/1					very calcareous	3%	1%	1%	HARD			Yes	III	3a	20.9	7.8	2	WE	3a
		40	70	C	10YR5/3	10YR5/6	Many	Yes	40	non-calcareous					2%	CHALK							
		70	90	C	2.5Y5/3					slightly calcareous													
		90	120	C																			
G-027	RM	0	39	C	10YR4/2					very calcareous	3%			HARD				I	2	20.9	7.8	2	WE	2
		39	50	C	10YR4/4					very calcareous													
		50	90	C	10YR4/4					very calcareous					2%	CHALK							
		90	120	C																			
G-028	RM	0	43	C	10YR4/3					moderately calcareous	5%	2%	1%	HARD			Yes	II	2	20.9	7.8	2	WE	2
		43	120	C				Yes	43						2%	CHALK							
G-029	RM	0	38	C	10YR4/2					non-calcareous	2%			HARD			Yes	III	3b	20.9	7.8	2	WE	3b
		38	40	C	2.5Y5/3										2%	CHALK							
		40	90	C	2.5Y5/3	10YR5/6	Common	Yes	40														
		90	120	C																			
G-030	RM	0	39	C	10YR4/2					very calcareous	2%			HARD			Yes	II	2	20.9	7.8	2	WE	2
		39	45	C	2.5Y4/3					very calcareous													
		45	80	C	2.5Y5/3	10YR5/6	Many	Yes	45	very calcareous					1%	CHALK							
		80	120																				

G-031	RM	0	38	C	2.5Y4/2					very calcareous	2%		HARD			Yes	II	2	20.9	7.8	2	WE	2
		38	50	C	2.5Y5/4					very calcareous													
		50	90	C	2.5Y5/3	10YR5/6	Many	Yes	50					1%	CHALK								
		90	120																				
G-032	RM	0	40	C	10YR4/2					slightly calcareous	2%		HARD			Yes	II	2	20.9	7.8	2	WE	2
		40	60	C	10YR4/3			Yes	60	non-calcareous													
		60	90	C	10YR5/3	10YR5/6	Common			very calcareous				1%	CHALK								
		90	120																				
G-033	RM	0	38	C	10YR4/1					slightly calcareous	2%		HARD			Yes	III	3a	20.9	7.8	2	WE	3a
		38	40	C	2.5Y5/2					slightly calcareous				1%	CHALK								
		40	60	C	2.5Y5/2	10YR5/6	Common	Yes	40	slightly calcareous													
		60	120	C																			
G-034	RM	0	30	C	2.5Y4/2					slightly calcareous				8%	CHALK	Yes	III	3a	29	14	2	WE	3a
		30	40	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calcareous													
		40	120	C																			
G-035	RM	0	40	C	10YR4/2					slightly calcareous	3%	2%	HARD			Yes	III	3a	20.9	7.8	2	WE	3a
		40	80	C	2.5Y4/1	10YR5/6	Common	Yes	40	slightly calcareous				8%	CHALK								
		80	120	C						slightly calcareous													
G-036	RM	0	38	C	10YR4/3					moderately calcareous	3%		HARD			Yes	II	2	21.0	7.8	2	WE	2
		38	50	C	10YR5/3					moderately calcareous													
		50	80	C	10YR5/3	10YR5/6	Common	Yes	50	very calcareous				2%	CHALK								
		80	120	C																			

G-037	RM	0	39	C	10YR4/3					very calcareous	3%		HARD			Yes	II	2	21.0	7.8	2	WE	2
		39	50	C	2.5Y5/3					very calcareous				2%	CHALK								
		50	80	C	2.5Y5/3	10YR5/6	Common	Yes	50														
		80	120																				
G-038	RM	0	38	C	10YR3/2					moderately calcareous	3%		HARD			Yes	II	2	21.0	7.8	2	WE	2
		38	50	C	7.5YR4/3					moderately calcareous				2%	CHALK								
		50	80	C	10YR5/3	10YR5/6	Many	Yes	50	very calcareous													
		80	120																				
G-039	RM	0	40	C	10YR5/2					moderately calcareous	2%	2%	HARD			Yes	II	2	21.0	7.8	2	WE	2
		40	60	C	10YR4/3					moderately calcareous													
		60	90	C	10YR5/3	10YR5/6	Many	Yes	60	moderately calcareous				2%	CHALK								
		90	120	C																			
G-040	RM	0	40	C	10YR4/2					slightly calcareous	2%	2%	HARD			Yes	II	2	21.0	7.8	2	WE	2
		40	48	C	7.5YR3/3					slightly calcareous													
		48	80	C	10YR5/3	10YR5/6	Common	Yes	48	slightly calcareous				2%	CHALK								
		80	120	C																			
G-041	RM	0	40	C	10YR4/2					slightly calcareous	2%	2%	HARD				I	2	21.0	7.8	2	WE	2
		40	48	C	10YR4/2					slightly calcareous													
		48	70	C	10YR4/4					slightly calcareous				2%	CHALK								
		70	120	C																			
G-042	RM	0	30	C	10YR4/2					very slightly calcareous	3%	2%	HARD			Yes	III	3b	21.0	7.8	2	WE	3b*

		30	40	C	10YR3/1					very slightly calcareous													
		40	70	C	10YR5/3	10YR5/6	Many	Yes	40	non-calcareous													
		70	90	C	2.5Y5/2	10YR5/6	Many																
		90	120																				
G-043	RM	0	38	C	10YR4/2					very calcareous		3%	2%		HARD			Yes	II	2	21.0	7.8	2	WE	2
		38	50	C	10YR5/4	10YR5/6	Few			very calcareous						3%	CHALK							
		50	80	C	2.5Y5/3	10YR5/6	Common	Yes	50	very calcareous													
		80	120																				
G-044	RM	0	38	C	10YR4/2					very calcareous		3%			HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		38	40	C	2.5Y5/2					very calcareous															
		40	85	C	2.5Y5/2	10YR5/6	Many	Yes	40	very calcareous						2%	CHALK							
		85	120																				
G-045	RM	0	38	C	10YR4/2					very calcareous	level	3%			HARD	2%	CHALK	Yes	II	2	21.0	7.8	2	WE	2
		38	50	C	10YR5/3					very calcareous															
		50	90	C	10YR5/3	10YR5/6	Common	Yes	50																
		90	120																				
G-046	RM	0	40	C	10YR3/3					very calcareous		3%			HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		40	80	C	10YR5/3	10YR5/6	Common	Yes	40	very calcareous						2%	CHALK							
		80	120	C	10YR5/3																				
		0	40	C	10YR4/2					moderately calcareous		2%			HARD				I	2	21.0	7.8	2	WE	2
G-047	RM	40	43	C	10YR4/2					moderately calcareous															
		43	80	C	10YR4/3					moderately calcareous						2%	CHALK							
		80	120	C																					

G-048	ZL	0	35	C	7.5YR3/3					non-calcareous	level	3%						Yes	II	3a	18.1	-0.9	2	WE	3a
		35	65	C	7.5YR6/3	7.5YR6/1	Common			very calcareous		2%				5%									
		65	120	C	7.5YR6/1			Yes	65	very calcareous		2%				5%									
G-049	ZL	0	31	hCL	7.5YR3/3					very slightly calcareous		6%	3%	1%					I	2	21.0	7.8	2	WE	2
		31	71	hCL	5YR4/3					slightly calcareous		1%													
		71	120	C	7.5YR6/1	10YR6/1; 10YR6/8	Common			very calcareous		1%				20%									
G-050	RM	0	40	C	10YR4/3					very calcareous		2%			HARD			Yes	III	3a	21.0	7.8	2	WE	2
		40	80	C	10YR5/3	10YR5/6	Common	Yes	40	very calcareous						2%	CHALK								
		80	120	C																					
G-051	RM	0	40	C	2.5Y4/3					very calcareous		2%			HARD				I	2	21.0	7.8	2	WE	2
		40	85	C	10YR5/4					very calcareous						2%	CHALK								
		85	120	C																					
G-052	RM	0	38	C	10YR4/3					very calcareous		2%			HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		38	40	C	2.5Y5/3	10YR5/6	Few			very calcareous															
		40	70	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calcareous						2%	CHALK								
		70	120	C																					
G-053	RM	0	38	C	10YR4/2					very calcareous		2%			HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		38	70	C	2.5Y5/3	10YR5/6	Common	Yes	38	very calcareous						2%	CHALK								
		70	120	C																					
G-054	ZL	0	29	C	7.5YR3/3					very slightly calcareous	level	2%				1%		Yes	II	2	16.1	2.7	2	DR	2
		29	69	C	7.5YR5/6	10YR6/1; 10YR6/8	Common			very calcareous		1%				10%									

		69	120	C	7.5YR6/1			Yes	69	very calcareous		1%			10%									
G-055	ZL	0	38	hCL	7.5YR4/3					very slightly calcareous		5%	2%	1%			I	1	14.4	6.4	2	DR	2	
		38	60	C	7.5YR5/6					very calcareous		5%			15%									
		60	120	C	7.5YR6/3	10YR6/1; 10YR6/8	Common			very calcareous		20%			15%									
G-056	ZL	0	39	hCL	7.5YR3/3					slightly calcareous		6%	2%	1%			I	2	18.4	4.3	2	DR	2	
		39	71	hCL	5YR4/3					slightly calcareous		1%												
		71	120	C	7.5YR6/3	10YR6/1; 10YR6/8	Common			very calcareous		1%			20%	CHALK								
G-057	ZL	0	35	hCL	7.5YR4/3					very slightly calcareous	level	2%			1%	LIMESTONE		I	2	18.9	8.2	2	DR	2
		35	47	hCL	10YR5/4					very slightly calcareous		1%												
		47	60	C	5YR4/4					very calcareous		2%												
		60	120	C	7.5YR5/6	10YR6/8	Few			very calcareous		1%			20%									
G-058	ZL	0	30	hCL	7.5YR3/3					very slightly calcareous	level	2%			2%	LIMESTONE		I	2	10.8	5.2	2	DR	2
		30	45	hCL	7.5YR5/6					very slightly calcareous		1%												
		45	85	C	7.5YR4/3	10YR6/8	Few			very slightly calcareous		1%												
		85	120	SCL	5YR4/4					very calcareous		30%												
G-059	RM	0	40	C	1OYR4/4					very calcareous					2%	CHALK	Yes	III	3a	21.0	7.8	2	WE	3a
		40	120	C				Yes	40															
G-060	RM	0	40	C	10YR4/2					very calcareous		2%			HARD		Yes	III	3a	21.0	7.8	2	WE	3a

		40	80	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calcareous				10%	CHALK								
		80	120	C																			
G-061	RM	0	30	C	10YR4/2					very calcareous		2%		HARD		Yes	III	3a	21.0	7.8	2	WE	3a
		30	40	C	10YR4/4					very calcareous													
		40	80	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calcareous				2%	CHALK								
		80	120	C																			
G-062	RM	0	38	C	10YR3/3					very calcareous		2%		HARD		Yes	II	2	21.0	7.8	2	WE	2
		38	45	C	10YR4/3					very calcareous													
		45	85	C	10YR5/3	10YR5/6	Many	Yes	45	very calcareous				2%	CHALK								
		85	120	C																			
G-063	ZL	0	28	hCL	7.5YR3/3					very slightly calcareous	level	2%					I	2	22.3	1.2	2	DR	2
		28	55	hCL	7.5YR5/4					very calcareous		1%		10%	CHALK								
		55	120	SCL	7.5YR6/6	10YR6/1	Common			very calcareous		1%		20%									
G-064	ZL	0	29	hCL	7.5YR3/3					very slightly calcareous	gently sloping	2%	1%	1%	LIMESTONE		I	2	18.5	4	2	DR	2
		29	55	hCL	5YR4/3					very slightly calcareous		1%											
		55	120	C	7.5YR5/6	10YR6/1; 10YR6/8	Common			very calcareous		1%		10%									
G-065	ZL	0	35	C	7.5YR3/3					very slightly calcareous	gently sloping	2%		1%	LIMESTONE	Yes	II	3a	15.4	0.7	2	WE	3a
		37	64	C	7.5YR5/6	7.5YR6/1	Many			very calcareous		1%		30%	CHALK								
		64	120	C	7.5YR6/1			Yes	64	very calcareous		1%		15%	CHALK								
G-066	ZL	0	38	C	7.5YR3/3					very slightly calcareous	level	3%		1%	LIMESTONE		I	2	18.4	4.3	2	DR	2

		38	75	C	7.5YR5/6					very calcareous		2%			8%	CHALK								
		75	120	C	7.5YR5/6	10YR6/1; 10YR6/8	Common			very calcareous		2%			10%	CHALK								
G-067	ZL	0	38	SCL	7.5YR4/4					non-calcareous	level	5%						I	1	38.1	11.2	1		1*
		38	78	SCL	7.5YR6/6					non-calcareous		3%												
		78	120	SCL	7.5YR6/8					non-calcareous		8%												
G-068	ZL	0	31	C	10YR3/3					very calcareous	gently sloping	5%	2%	1%	2%		Yes	II	2	14.1	0.1	2	DR	2
		31	50	C	10YR6/6					very calcareous		1%			30%									
		50	75	C	10YR6/4	10YR6/1	Common	Yes	65	very calcareous		1%			20%	CHALK								
		75	120	C	10YR6/4	10YR6/1	Many			very calcareous		1%			15%									
G-069	ZL	0	29	C	7.5YR3/3					very calcareous	level	2%			2%	LIMESTONE	Yes	II	3a	15.7	2.2	2	WE	3a
		29	52	C	10YR5/4	10YR6/1; 10YR6/8	Few			very calcareous		1%			1%									
		52	90	C	10YR6/2	10YR6/1; 10YR6/8	Common	Yes	60	very calcareous		2%			15%									
		90	102	C	10YR8/6	10YR6/1; 10YR6/8	Common			very calcareous		2%			15%									
		102	120	C	10YR6/1			Yes	102	very calcareous		2%			15%									
G-070	RM	0	40	C	7.5YR4/3					slightly calcareous								I	2	21.0	7.8	2	WE	2
		40	85	C	7.5YR4/4					slightly calcareous					2%	CHALK								
		85	120	C																				
G-071	RM	0	38	C	2.5Y4/2					very calcareous		2%		HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		38	40	C	2.5Y5/3					very calcareous														
		40	70	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calcareous					2%	CHALK								
		70	120	C																				

G-072	RM	0	30	C	10YR3/3					slightly calcareous		2%		HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		30	40	C	10YR4/2					slightly calcareous														
		40	75	C	2.5Y5/2	10YR5/6	Common	Yes	40	slightly calcareous														
		75	90	C	2.5Y5/2	10YR5/6	many			very calcareous					2%	CHALK								
		90	120	C																				
G-073	RM	0	40	C	10YR4/1					moderately calcareous		2%		HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		40	50	C	10YR5/3	10YR5/6	Common	Yes	40	very calcareous					2%	CHALK								
		50	85	C	2.5Y5/3	10YR5/6	Many																	
		85	120	C																				
G-074	ZL	0	35	C	7.5YR3/3					very slightly calcareous	gently sloping	3%			1%	LIMESTONE	Yes	II	3a	17.3	3.3	2	WE	3a
		35	66	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		1%			20%									
		66	120	C	7.5YR6/1			Yes	66	very calcareous		1%			20%									
G-075	ZL	0	28	C	7.5YR3/3					very calcareous	gently sloping	3%			1%	LIMESTONE	Yes	II	3a	13.3	0.1	2	WE	3a
		28	66	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		3%			15%									
		66	120	C	7.5YR6/1			Yes	66	very calcareous		3%			15%									
G-076	ZL	0	29	C	7.5YR3/2					very slightly calcareous	gently sloping	3%					Yes	II	3a	15.8	2.4	2	WE	3a
		29	52	C	7.5YR4/4	10YR6/1; 10YR6/8	Few			very slightly calcareous		2%												
		52	68	C	7.5YR5/6			Yes	68	very calcareous		2%			15%									
		68	120	C	7.5YR6/1					very calcareous		2%			10%									
G-077	ZL	0	27	mCL	7.5YR3/3					non-calcareous	gently sloping	5%						I	1	16	-0.4	2	WE	2

		27	49	mCL	7.5YR5/8				non-calcareous		1%											
		49	60	C	7.5YR5/6				very calcareous		1%				10%							
		60	120	C	7.5YR5/6				very calcareous		20%				10%							
G-078	ZL	0	29	mCL	7.5YR3/2				non-calcareous	level	2%						I	1	23.1	3	2	DR	2
		29	70	hCL	7.5YR4/4	10YR7/8; 10YR2/1	Few		non-calcareous		1%											
		70	120	SCL	10YR8/6	10YR7/8	Few		very calcareous		10%				2%							
G-079	ZL	0	32	hCL	7.5YR4/3				very slightly calcareous	level	5%	2%	1%				I	1	26.6	4.7	2	DR	2
		32	76	hCL	7.5YR4/6				very slightly calcareous		1%											
		76	120	C	7.5YR5/6				very calcareous		1%				10%							
G-080	ZL	0	35	C	7.5YR3/3				very calcareous	gently sloping	5%	2%	1%		2%	CHALK/LIMESTONE		I	3a	9.2	-1.8	2	WE	3a
		35	50	C	7.5YR6/4	10YR6/1	Few		very calcareous		2%				20%	CHALK							
		50	120	C	7.5YR6/4				very calcareous		15%				20%	CHALK							
G-081	ZL	0	33	C	10YR3/3				very calcareous	level	3%	2%	1%		3%		Yes	II	3a	16.9	2.9	2	WE	3a
		0	55	C	10YR6/6	10YR6/1	Common		very calcareous		1%				8%								
		33	69	C	10YR6/4	10YR6/1; 10YR6/8	Common		very calcareous		1%				20%	CHALK							
		69	120	C	10YR6/2			Yes	69	very calcareous		1%			10%								
G-082	RM	0	40	C	10YR4/2					slightly calcareous		2%		HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		40	70	C	2.5Y5/3	10YR5/6	Common	Yes	40	slightly calcareous					2%	CHALK							
		70	85	C	2.5Y5/2	10YR5/6	Many			very calcareous													
		85	120	C																			

G-083	RM	0	40	C	10YR4/2					very calcareous		2%			HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		40	90	C	2.5Y5/3	10YR5/6	Many	Yes	40	very calcareous						2%	CHALK							
		90	120	C																				
G-084	RM	0	40	C	10YR3/2					slightly calcareous		2%			HARD			Yes	II	2	21.0	7.8	2	WE	2
		40	55	C	10YR5/4					very calcareous														
		55	85	C	2.5Y5/3	10YR5/6	Many	Yes	55	very calcareous						2%	CHALK							
		85	120																					
G-085	ZL	0	32	C	7.5YR4/2					very slightly calcareous	gently sloping	4%				1%		Yes	I	2	15	2.2	2	WE	2
		32	68	C	7.5YR4/4	7.5YR6/1	Common			very calcareous		1%				5%								
		68	120	C	10YR5/6	7.5YR6/1	Common	Yes	75	very calcareous		2%				5%	CHALK							
G-086	ZL	0	33	hCL	7.5YR4/3					non-calcareous	level	5%	2%	1%					I	2	16.6	3.8	2	WE	2
		33	55	C	7.5YR5/6	10YR6/1; 10YR6/8	Common			non-calcareous		2%												
		55	70	C	7.5YR5/6	10YR6/8	Many			very calcareous		1%				15%	CHALK							
		70	120	C	7.5YR6/1			Yes	75	very calcareous		1%				15%								
G-087	ZL	0	28	mCL	7.5YR3/2					non-calcareous	level	2%							I	1	42	18.5	1		1*
		28	66	hCL	7.5YR4/4	10YR7/8; 10YR2/1	Few			non-calcareous		1%												
		66	120	SCL	10YR8/6	10YR7/8	Few			very calcareous		10%				2%								
G-088	ZL	0	32	C	7.5YR3/2					very calcareous	gently sloping	3%	2%	1%		1%		Yes	II	2	15	1.2	2	WE	2
		32	65	C	7.5YR5/6	7.5YR6/1;10YR7/8	Common			very calcareous		2%				15%	CHALK							
		65	120	C	7.5YR6/2			Yes	65	very calcareous		1%				15%								

G-089	ZL	0	31	hCL	7.5YR2.5/2				very calcareous	level	1%						I	2	14.8	4.1	2	WE	2
		31	39	C	7.5YR5/6	7.5YR6/1;10YR7/8	Common		very calcareous		0%				2%								
		39	120	C	7.5YR5/6				very calcareous		1%				15%								
G-090	ZL	0	29	hCL	7.5YR3/2				very calcareous		3%	2%	1%				I	2	18.4	3	2	WE	2
		29	85	hCL	7.5YR5/6				very calcareous		1%												
		85	120	C	7.5YR6/4	7.5YR6/1;10YR7/8	Common		very calcareous		1%				30%								
G-091	ZL	0	29	C	7.5YR3/2				very calcareous	gently sloping	2%				2%		Yes	II	3a	15	0.7	2	WE	3a
		29	50	C	7.5YR5/6	7.5YR6/1;10YR7/8	Common	Yes	60	very calcareous		1%			25%	CHALK							
		50	120	C	7.5YR5/6	7.5YR6/1;10YR7/8	Common			very calcareous		1%			25%								
G-092	RM	0	35	C	10YR3/2				non-calcareous		2%			HARD			Yes	III	3b	32	17	1	WE	3b
		35	40	C	10YR5/3				non-calcareous														
		40	70	C	2.5Y5/3	10YR5/6	Common	Yes	40	slightly calcareous					2%	CHALK							
		70	120	C																			
G-093	RM	0	38	C	10YR3/3					moderately calcareous	2%			HARD			Yes	III	3a	32	17	1	WE	3a
		38	40	C	10YR5/3					moderately calcareous													
		40	70	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calcareous					2%	CHALK							
		70	120	C																			
G-094	RM	0	38	C	10YR3/2					slightly calcareous	2%			HARD			Yes	II	2	21.0	7.8	2	WE	2*
		38	48	C	10YR4/3					slightly calcareous													
		48	70	C	2.5Y5/3	10YR5/6	Common	Yes	48	slightly calcareous					2%	CHALK							
		70	120	C																			

G-095	RM	0	38	C	10YR4/2					very calcareous		2%			HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		38	50	C	2.5Y5/3	10YR5/6	Many	Yes	38	very calcareous						2%	CHALK							
		50	120	C																				
G-096	RM	0	38	C	10YR3/2					moderately calcareous		2%			HARD			Yes	II	2	21.0	7.8	2	WE	2
		38	50	C	10YR5/3					moderately calcareous															
		50	65	C	10YR5/3	10YR5/6	Common	Yes	50	moderately calcareous						2%	CHALK							
		65	90	C	10YR5/3	10YR5/6	Many																	
		90	120	C																				
G-097	ZL	0	30	hCL	7.5YR4/3					very slightly calcareous	level	5%							I	2	22.7	5.9	2	WE	2
		30	86	C	7.5YR5/6	10YR7/8; 10YR2/1	Few			very slightly calcareous		1%				1%									
		86	120	SCL	7.5YR7/6					very slightly calcareous		20%													
G-098	ZL	0	31	C	7.5YR3/3					very calcareous	level	2%				1%	LIMESTONE	Yes	II	3a	10	3.3	2	WE	3a
		31	69	C	7.5YR5/6	7.5YR6/1;10YR7/8	Common			very calcareous		1%				15%	CHALK								
		69	120	C	10YR6/2			Yes	69	very calcareous		1%				15%	CHALK								
G-099	ZL	0	38	C	7.5YR4/3					very calcareous	level	3%	2%	1%		1%		Yes	II	3a	19.7	6.2	2	WE	3a
		38	78	C	7.5YR5/6	7.5YR6/1;10YR7/8	Common			very calcareous		1%				10%									
		78	120	C	10YR6/2			Yes	70	very calcareous		2%				10%	CHALK								
G-100	ZL	0	28	C	7.5YR3/3					very slightly calcareous	gently sloping	3%				1%		Yes	II	3a	7.4	0.9	2	WE	3a
		28	36	C	7.5YR5/6					very calcareous		1%				10%									

		36	70	C	7.5YR6/3	7.5YR6/1;10YR7/8	Common			very calcareous		1%			20%								
		70	120	C	7.5YR6/1			Yes	70	very calcareous		1%			20%								
G-101	ZL	0	25	C	7.5YR4/3					very calcareous	level	2%			1%			I	2	17.1	2.7	2	WE	2
		25	56	C	10YR5/4	10YR7/8	Common			very calcareous		1%			2%	CHALK							
		56	120	C	10YR6/2	7.5YR6/1;10YR7/8	Common			very calcareous		1%			10%								
G-102	RM	0	38	C	10YR4/2					non-calcareous		2%		HARD			Yes	III	3b	21.0	7.8	2	WE	3b
		38	40	C	10YR4/3					non-calcareous													
		40	85	C	2.5Y5/3	10YR5/6	Common	Yes	40	very calcareous					2%	CHALK							
		85	120																				
G-103	RM	0	35	C	10YR4/2					slightly calcareous		2%		HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		35	80	C	10YR5/3	10YR5/6	Many	Yes	35	very calcareous					2%	CHALK							
		80	120																				
G-104	RM	0	38	HZCL	10YR4/2					slightly calcareous		2%		HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		38	50	C	10YR4/2	10YR5/6	Common	Yes	38	non-calcareous													
		50	120	C																			
G-105	RM	0	38	C	10YR4/2					moderately calcareous		2%		HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		38	90	C	10YR5/3	10YR5/6	Common	Yes	38	non-calcareous					2%	CHALK							
		90	120	C																			
G-106	ZL	0	28	hCL	7.5YR3/3					non-calcareous	level	2%						I	2	19.2	5.6	2	WE	2
		28	90	C	10YR5/6	7.5YR6/1;10YR7/8	Common			non-calcareous		1%												
		90	120	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			slightly calcareous		5%												
G-107	ZL	0	35	C	7.5YR4/3					non-calcareous	level	2%					Yes	II	3a	20.2	5.8	2	WE	3a

		0	59	C	10YR5/6					very calcareous		1%			2%									
		35	68	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%			10%									
		68	120	C	10YR6/2			Yes	68	very calcareous		1%			5%									
G-108	ZL	0	34	C	7.5YR3/3					very calcareous	gently sloping	5%			2%		Yes	II	3a	17.7	3.3	2	WE	3a
		34	67	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%			15%									
		67	120	C	10YR6/2			Yes	67	very calcareous		2%			15%									
G-109	ZL	0	37	hCL	7.5YR3/4					very slightly calcareous	level	2%						I	2	24.3	9.8	2	WE	2
		37	90	C	7.5YR5/6	10YR6/8	Common			non-calcareous		1%												
		90	120	hCL	7.5YR5/6					non-calcareous		2%												
G-110	ZL	0	28	C	7.5YR 4/3					very calcareous	gently sloping	6%	4%	2%	2%		Yes	II	3a	15.7	1.4	2	WE	3a
		28	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		1%			10%									
		65	120	C	10YR6/2			Yes	65	very calcareous		1%			10%									
G-111	ZL	0	33	C	7.5YR3/4					very calcareous	gently sloping	5%	2%	1%	2%		Yes	II	3a	17.3	3	2	WE	3a
		33	67	C	7.5YR6/3	7.5YR6/2	Common			very calcareous		1%			15%									
		67	120	hCL	10YR5/4	7.5YR6/2	Common	Yes	67	very calcareous		1%			5%									
G-112	RM	0	38	C	10YR4/3					non-calcareous		2%				HARD		Yes	III	3b	21.0	7.8	2	WE	3b
		38	40	C	2.5Y5/3	10YR5/6	Common			non-calcareous														
		40	85	C	2.5Y5/3	10YR5/6	Many	Yes	38						2%	CHALK								
		85	120	C																				
G-113	RM	0	35	C	10YR4/2					non-calcareous		2%				HARD		Yes	III	3b	21.0	7.8	2	WE	3b
		35	40	C	10YR5/3	10YR5/6	Common	Yes	40															
		40	70	C	2.5Y5/2	10YR5/6	Common																	

		70	120	C																			
G-114	RM	0	38	C	10YR4/2					non-calcareous		2%			HARD			Yes	III	3b	21.0	7.8	2	WE	3b
		38	80	C	2.5Y5/3	10YR5/6	Common	Yes	38	very calcareous				2%	CHALK									
		80	120	C																				
G-115	RM	0	35	C	10YR3/2					very calcareous		2%			HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		35	80	C	2.5Y5/3	10YR5/6	Many	Yes	35	very calcareous				2%	CHALK									
		80	120	C																				
G-116	ZL	0	37	C	7.5YR4/2					non-calcareous	level	1%							I	3a	22.5	8.4	2	WE	3a
		37	79	C	7.5YR5/4	10YR6/6	Common	No		non-calcareous		2%													
		79	120	C	7.5YR5/6	10YR2/1	Common			very slightly calcareous		0%													
G-117	ZL	0	33	C	7.5YR3/2					very calcareous	gently sloping	2%			2%			Yes	II	3a	19.3	4.6	2	WE	3a
		33	65	C	7.5YR5/8	7.5YR6/1	Common			very calcareous		1%			15%	CHALK									
		65	120	C	7.5YR6/2			Yes	65	very calcareous		1%			10%										
G-118	ZL	0	28	C	7.5YR 3/4					very calcareous	gently sloping	2%			1%			Yes	II	3a	17.1	2.2	2	WE	3a
		28	65	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		1%			20%	CHALK									
		65	120	C	10YR6/2			Yes	65	very calcareous		1%			15%										
G-119	ZL	0	35	hCL	7.5YR4/2					non-calcareous	level	3%	2%	1%					I	2	19	4.6	2	WE	2
		35	78	C	7.5YR5/6	10YR6/6	Few			non-calcareous		1%													
		78	120	SCL	7.5YR6/6	7.5YR2.5/1	Few			non-calcareous		3%													
G-120	ZL	0	29	C	7.5YR 4/3					very calcareous	gently sloping	3%	2%	1%	1%				I	3a	17	2.1	2	WE	3a
		29	70	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		1%			20%										

		70	105	SCL	10YR5/4	10YR6/8	Common			very calcareous	1%				5%	CHALK								
		105	120	C	10YR6/2			Yes	105	very calcareous	1%				5%									
G-121	ZL	0	29	C	7.5YR 3/4					very slightly calcareous	3%	2%	1%		1%		Yes	II	3a	17.4	2.7	2		3a
		29	67	C	7.5YR 5/6	7.5YR6/1;10YR6/8	Common			very calcareous	1%				15%	CHALK								
		67	120	C	7.5YR6/1			Yes	67	very calcareous	1%				10%									
G-122	RM	0	38	C	10YR4/2					non-calcareous	2%			HARD			Yes	III	3b	21.0	7.8	2	WE	3b
		38	85	C	2.5Y5/2	10YR5/6	Many	Yes	38	moderately calcareous					2%	CHALK								
		85	90	C	10YR5/1																			
		90	120	C																				
G-123	RM	0	35	C	10YR4/2					slightly calcareous	2%			HARD			Yes	III	3a	21.0	7.8	2	WE	3a
		35	40	C	10YR5/3			Yes	40	slightly calcareous														
		40	68	C	10YR5/3	10YR5/6	Many																	
		68	80	C	2.5Y5/2										2%	CHALK								
		80	120	C																				
G-124	RM	0	40	C	10YR3/2					moderately calcareous		10%	8%	4%	HARD		Yes	III	3a	27	12	2	WE	3a
		40	120	C																				
G-125	RM	0	35	C	10YR3/2			Yes	35	non-calcareous		2			HARD		Yes	III	3b	21.0	7.8	2	WE	3b
		35	60	C	2.5Y5/3	10YR5/6	Common			moderately calcareous					2%	CHALK								
		60	120	C																				
G-126	ZL	0	30	hCL	7.5YR 3/4					non-calcareous	gently sloping	2%					Yes	II	3a	18.7	5.1	2	WE	3a
		30	69	hCL	7.5YR 6/6	7.5YR6/1;10YR6/8	Common			non-calcareous		2%												
		69	79	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		2%												

		69	120	C	10YR6/2			Yes	69	very calcareous		2%												
G-127	ZL	0	30	C	7.5YR4/2					very calcareous		2%			2%		Yes	II	3a	18.3	3.9	2	WE	3a
		30	65	C	7.5YR5/6					very calcareous		1%			10%	CHALK								
		65	120	C	10YR6/2			Yes	65	very calcareous		1%			15%									
G-128	ZL	0	32	C	7.5YR 3/4					non-calcareous	gently sloping	8%	2%	3%			Yes	II	3b	16.6	2.1	2	WE	3b
		32	53	C	7.5YR5/6					very slightly calcareous		3%												
		53	75	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		1%			10%									
		53	120	C	10YR6/2			Yes	53	very calcareous		5%			15%									
G-129	ZL	0	32	C	7.5YR 3/4					very calcareous	gently sloping	3%	2%	1%	1%		Yes	II	3a	19.4	5.5	2	WE	3a
		32	68	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous					5%									
		68	120	C	10YR6/2			Yes	68	very calcareous		1%			15%	CHALK								
G-130	ZL	0	28	C	7.5YR 3/4					very calcareous	level	5%	1%	2%			Yes	II	3a	16.7	2.4	2	WE	3a
		28	67	C	7.5YR5/6	7.5YR6/1	Common			very calcareous		1%			8%	CHALK								
		67	120	C	10YR6/2			Yes	67	very calcareous		1%			8%									
G-131	ZL	0	26	C	7.5YR3/2					non-calcareous		4%	3%	2%			Yes	II	3b	13	2.8	2	WE	3b
		26	43	C	7.5YR5/6					very calcareous					1%									
		43	66	C	7.5YR5/6	7.5YR6/1;2.5YR5/6	Common			very calcareous		1%			20%	CHALK								
		66	120	C	10YR6/2			Yes	66	very calcareous		1%			15%									
G-132	RM	0	38	C	10YR3/2					non-calcareous		2%				HARD	Yes	III	3b	21.0	7.8	2	WE	3b
		38	55	C	2.5Y5/3	10YR5/6	Common	Yes	38															

		55	80	C	2.5Y5/3	10YR5/6	Common						2%	CHALK									
		80	120	C																			
G-133	RM	0	38	HCL	10YR4/3					non-calcareous		2%		HARD			Yes	II	3a	21.0	7.8	2	WE	3a
		38	45	SCL	10YR4/4																		
		45	90	C	10YR5/2	10YR5/6	Common	Yes	45					2%	CHALK									
		90	120	C																			
G-134	RM	0	30	HCL	7.5YR2.5/3			Yes	45	non-calcareous		2%		HARD			Yes	II	3a	29	16	2	WE	3a
		30	45	HCL	10YR4/4																		
		45	120	C								10%		HARD									
G-135	RM	0	35	C	10YR4/2					moderately calcareous		2%		HARD			Yes	II	2	21.0	7.8	2	WE	2*
		35	50	C	2.5Y5/2					slightly calcareous													
		50	60	C	10YR4/2					moderately calcareous													
		60	70	C	2.5Y5/3	10YR5/6	Many	Yes	60					2%	CHALK									
		70	120	C																			
G-136	ZL	0	29	C	7.5YR4/3					slightly calcareous	gently sloping	2%					Yes	II	3a	17.3	4.1	2	WE	3a
		29	56	C	7.5YR4/2		Common			very calcareous		2%			15%	CHALK							
		56	120	C	10YR5/2	7.5YR6/1		Yes	56	very calcareous		2%			10%								
G-137	ZL	0	26	C	7.5YR4/3					non-calcareous		1%					Yes	II	3a	17.5	4.9	2	WE	3a
		26	50	C	7.5YR5/6	7.5YR6/1;10YR6/8	Few			non-calcareous		2%											
		50	120	C	7.5YR5/8		Common	Yes	50	non-calcareous		2%											
G-138	ZL	0	29	C	7.5YR3/3					slightly calcareous	level	5%	1%	1%			Yes	II	3a	17.1	3.8	2	WE	3a
		0	66	C	7.5YR5/6					very calcareous		1%			8%								
		66	120	C	10YR6/2			Yes	66	very calcareous		1%			5%								
G-139	ZL	0	29	C	7.5YR3/3					non-calcareous	level	3%	2%	1%				I	3a	15.2	3.9	2	WE	3a*

		0	46	C	7.5YR5/6					non-calcareous		1%												
		29	85	C	7.5YR5/6	7.5YR6/1;10YR6/8	Few			very calcareous		2%			10%									
		85	120	C	10YR6/4	7.5YR6/1	Common			very calcareous		2%			15%									
G-140	ZL	0	29	C	7.5YR3/3					non-calcareous	level	5%	1%	1%			Yes	II	3b	17.1	3.8	2	WE	3b
		29	66	C	7.5YR5/6					very calcareous		1%			8%									
		66	120	C	10YR6/2			Yes	66	very calcareous		1%			5%									
G-141	ZL	0	30	C	7.5YR3/3					non-calcareous	level	5%	2%	1%			Yes	II	3a	14	3.6	2	WE	3b
		0	45	C	7.5YR5/6					very slightly calcareous		1%												
		30	65	C	7.5YR6/4	7.5YR6/1	Many			very calcareous		2%			10%									
		65	120	C	7.5YR6/2			Yes	65	very calcareous		2%			10%									
G-142	ZL	0	28	C	7.5YR3/3					non-calcareous	level	3%	2%	1%			Yes	II	3b	17.9	4.7	2	WE	3b
		28	55	C	7.5YR5/6	7.5YR6/1	Many	Yes	55	very calcareous		1%			3%									
		55	120	C	7.5YR6/2					very calcareous		1%			8%									
G-143	RM	0	30	C	10YR4/2					non-calcareous		7%	5%				Yes	III	3b	29	14	2	WE	3b
		30	40	C																				
		40	120	C																				
G-144	RM	0	40	C	10YR4/2					non-calcareous		2%				HARD			Yes	III	3b	33	17	1	WE	3b
		40	50	C	2.5Y5/3	10YR5/6	Common	Yes	40															
		50	80	C	2.5Y5/2	10YR5/6	Many								2%	CHALK								
		80	120	C																				
G-145	RM	0	33	C	10YR4/2					non-calcareous		2%				HARD			Yes	III	3b	32	17	1	WE	3b
		33	55	C	2.5Y5/3	10YR5/6	Many	Yes	33	very calcareous					2%	CHALK								
		55	120	C																				

G-146	RM	0	33	C	10YR5/3					non-calcareous		2%			HARD			Yes	III	3b	32	17	1	WE	3b
		33	45	C	10YR5/3	10YR5/6	Many	Yes	33	very calcareous						2%	CHALK							
		45	120	C																				
G-147	ZL	0	25	C	7.5YR4/3					non-calcareous	gently sloping	2%							I	3a	17.2	4.7	2	WE	3a
		25	88	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			non-calcareous		1%												
		88	120	C	10YR5/4	7.5YR6/1;10YR6/8	Common			very calcareous		2%				5%	CHALK							
G-148	ZL	0	27	C	7.5YR3/3					very slightly calcareous	level	5%						Yes	II	3a	14.7	1.5	2	WE	3a
		27	70	C	7.5YR6/3	10YR6/1	Common			very calcareous		5%				10%								
		70	120	C	10YR6/2	10YR6/1		Yes	70	very calcareous	level	2%				10%	CHALK							
G-149	ZL	0	35	C	7.5YR3/3					non-calcareous	level	5%	3%	2%		1%		Yes	II	3b	19.1	5.2	2	WE	3b
		35	53	C	7.5YR6/4	7.5YR6/1		Yes	53	very calcareous		1%				5%								
		53	70	C	7.5YR6/1					very calcareous		1%				5%	CHALK							
		70	85	SCL	10YR 8/6	7.5YR6/1	Common			very calcareous		1%				20%								
		85	120	C	7.5YR6/1			Yes		very calcareous		1%				10%								
G-150	ZL	0	29	C	7.5YR3/3					non-calcareous	level	5%	1%	2%				Yes	II	3b	16.5	6.2	2	WE	3b
		29	45	C	7.5YR5/6	10YR6/8	Few			non-calcareous		1%												
		45	65	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	65	very calcareous		1%				5%								
		65	120	C	7.5YR6/2					very calcareous		1%				10%								
G-151	ZL	0	30	C	7.5YR3/3					non-calcareous	level	5%	1%	2%				Yes	II	3b	14.9	4.6	2	WE	3b
		30	45	C	7.5YR5/6	10YR6/8	Few			non-calcareous		1%												

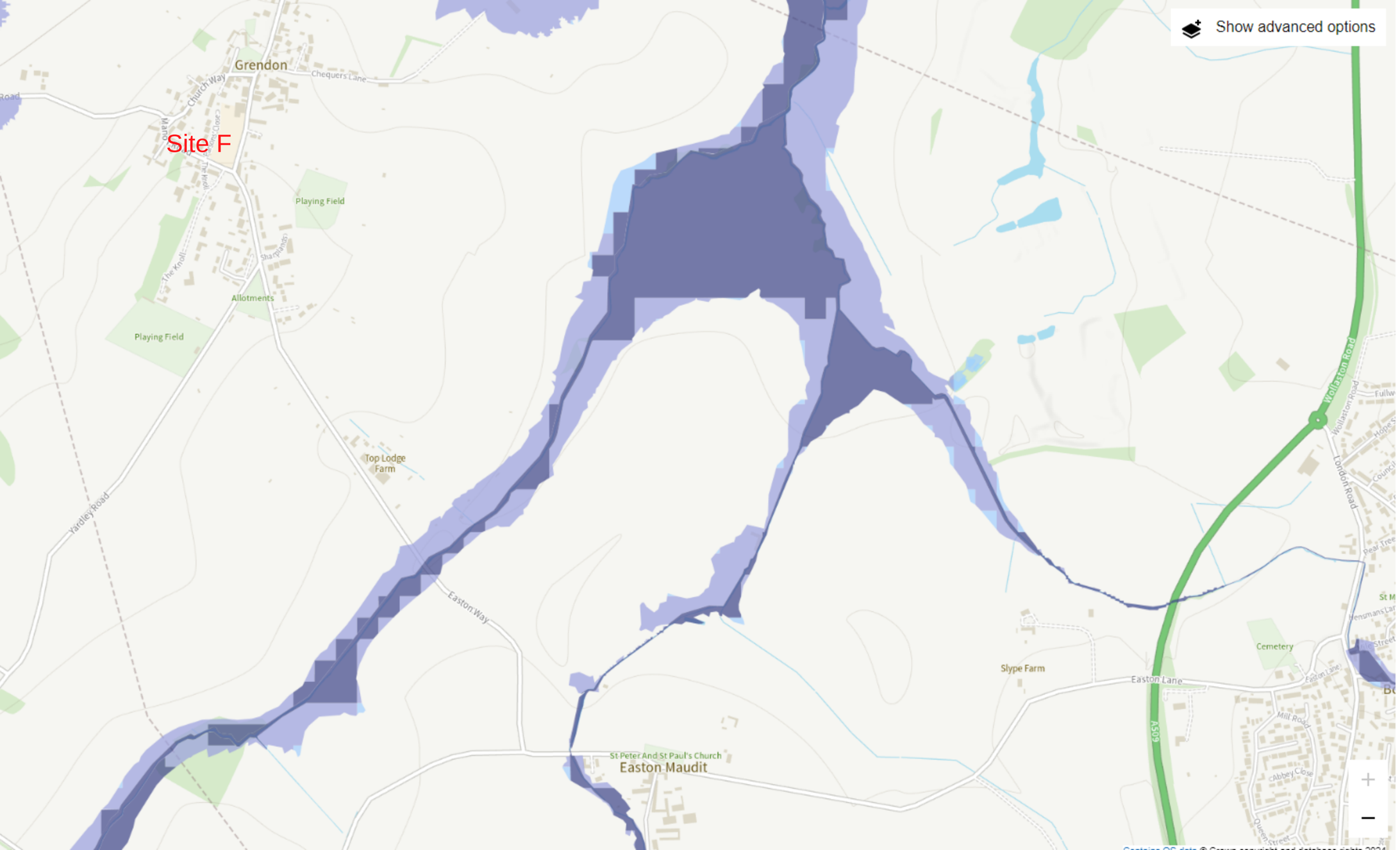
		45	63	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common	Yes	63	very calcareous		1%			5%	CHALK								
		63	120	C	7.5YR6/2					very calcareous		1%			10%									
G-152	ZL	0	28	C	7.5YR3/3					very calcareous	level	3%	2%	1%			Yes	II	3a	15.9	5.3	2	WE	3a
		28	66	C	7.5YR5/6	7.5YR6/1;10YR6/8	Commom			very calcareous		1%			10%									
		66	120	C	7.5YR6/2			Yes	66	very calcareous		1%			10%	CHALK								
G-153	ZL	0	36	C	7.5YR3/3					very calcareous	level	3%	2%	1%	1%		Yes	II	3a	20.4	7	2	WE	3a
		36	55	C	7.5YR5/6	7.5YR6/1;10YR6/8	Many	Yes	55	very calcareous		1%			10%	CHALK								
		55	120	C	7.5YR6/2					very calcareous		1%			10%									
G-154	RM	0	40	C	10YR4/3					non-calcareous		2%				HARD	2%	CHALK	Yes	III	3b	21.0	7.8	2	WE	3b
		40	80	C	10YR5/3	10YR5/6	Many	Yes	40	slightly calcareous														
G-155	ZL	0	26	C	7.5YR3/3					non-calcareous	level	5%					Yes	II	3b	15.1	1.9	2	WE	3b
		26	70	C	7.5YR6/4	7.5YR6/1;10YR6/8				very calcareous		2%			10%									
		70	120	C	10YR6/2			Yes	70	very calcareous		2%			5%									
G-156	ZL	0	28	C	7.5YR4/3					non-calcareous	level	3%	1%	1%			Yes	II	3b	15.4	5.2	2	WE	3b
		28	46	C	7.5YR5/6	7.5YR6/1;10YR6/8	Few			very slightly calcareous		1%			1%									
		46	68	C	7.5YR5/6	7.5YR6/1;10YR6/8	Commom			very calcareous		1%			5%	CHALK								
		68	120	C	10YR6/2			Yes	68	very calcareous		2%			5%									
G-157	ZL	0	30	C	7.5YR3/4					non-calcareous	level	3%	1%				Yes	II	3b	17.7	5.6	2	WE	3b
		30	49	C	7.5YR5/6					non-calcareous		1%												

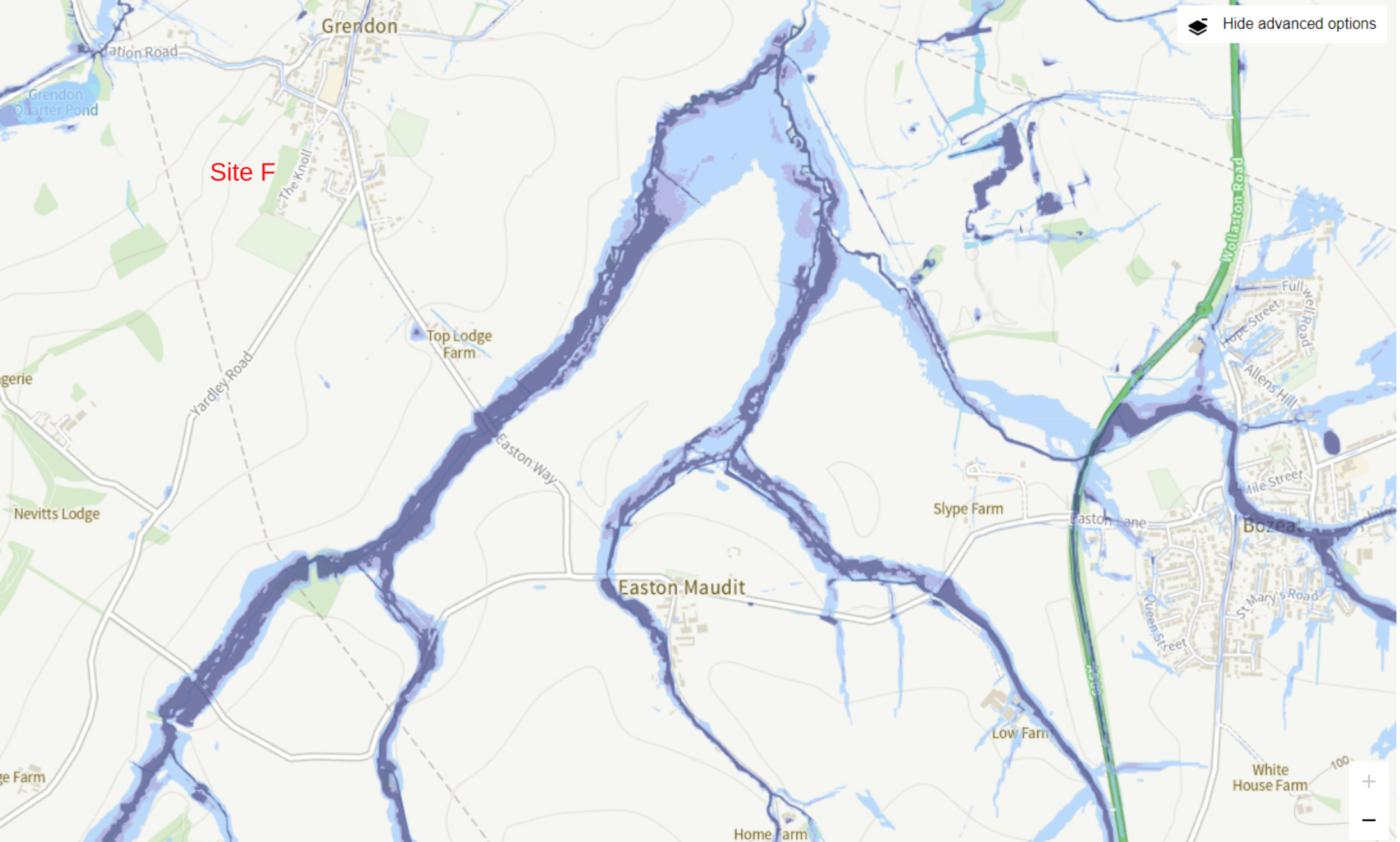
		49	65	C	7.5YR5/6	7.5YR6/1	Common			very slightly calcareous		1%				3%							
		65	120	C	10YR6/2			Yes	65	very slightly calcareous		2%	1%			10%	CHALK						
G-158	ZL	0	28	C	7.5YR3/4					non-calcareous		2%						Yes	II	3b	16.9	5.1	2	WE	3b
		28	48	C	7.5YR5/6	10YR6/8	Few			very slightly calcareous		1%												
		48	59	C	7.5YR5/6	7.5YR6/1;10YR6/8	Common			very calcareous		2%				2%							
		59	120	C	10YR6/2			Yes	59	very calcareous		2%				10%							
G-159	ZL	0	35	C	7.5YR3/4					non-calcareous		3%	1%	1%				Yes	II	3b	20.1	7.3	2	WE	3b
		35	63	C	7.5YR5/6	7.5YR6/1	Common			very slightly calcareous		2%											
		63	120	C	10YR6/2			Yes	63	very calcareous		2%				10%							
G-160	ZL	0	27	C	7.5YR3/4					very slightly calcareous		5%	4%	1%		1%			I	3a	16.4	2.6	2	WE	3a
		27	48	C	7.5YR5/6	7.5YR6/1;10YR6/8	Commom			very slightly calcareous		1%				5%							
		48	66	C	7.5YR5/6	7.5YR6/1;10YR6/8	Many			very calcareous		1%				10%	CHALK						
		66	96	C	10YR5/6	7.5YR6/1;10YR6/8	Few			very calcareous		1%				30%							
		96	120	C	7.5YR6/2			Yes	96	very calcareous		1%				10%							
G-161	ZL	0	28	C	7.5YR3/4					non-calcareous	level	5%	4%	3%		1%		Yes	II	3b	14.6	0.2	2	WE	3b
		28	46	C	7.5YR5/6					very calcareous		1%				1%							
		46	67	C	7.5YR5/6	10YR6/8	Few			very calcareous		1%				3%	CHALK						
		67	120	C	7.5YR6-1			Yes	67	very calcareous		1%				10%							

G-162	RM	0	38	C	10YR3/2					very slightly calcareous		2%			HARD	2%	CHALK	Yes	III	3b	32	17	2	WE	3b
		38	60	C	10YR5/3	10YR5/6	Common	Yes	38	slightly calcareous															
		60	120	C																					
G-163	ZL	0	28	C	7.5YR3/4					non-calcareous	level	3%	2%	1%				Yes	II	3b	14.7	2.2	2	WE	3b
		28	45	C	7.5YR5/6	10YR6/6				very slightly calcareous		1%													
		45	68	C	7.5YR5/6					very calcareous		2%				5%	CHALK								
		68	120	C	10YR6/2			Yes	68	very calcareous		2%				10%									
G-164	ZL	0	27	C	7.5YR3/4					non-calcareous	level							Yes	II	3b	17.3	4.4	2	WE	3b
		27	68	C	10YR6/3	7.5YR6/1;10YR6/8	Common			very calcareous															
		68	120	C	10YR6/2			Yes	68	very calcareous															
G-165	ZL	0	36	C	7.5YR3/4					non-calcareous	level	5%	2%	1%				Yes	II	3b	19.4	6.6	2	WE	3b
		36	69	C	7.5YR5/6	7.5YR6/1	Common			very slightly calcareous		1%				5%	CHALK								
		69	120	C	10YR6/2			Yes	69	very calcareous		2%				5%									

* G067 and G087 - Isolated points of Grade 1, mapped as Grade 2. G094 - Isolated point of Grade 2, mapped as Grade 3a. G135 - Isolated point of Grade 2, mapped as Grade 3b. G139 - Isolated point of Grade 3a, mapped as Grade 3b. G042 - Isolated point of Grade 3b, mapped as Grade 2.

Appendix C Long Term Flood Risk Service Maps


Show advanced options
Site F
Grendon
Chequers Lane
Church Way
Playing Field
Allotments
Playing Field
Top Lodge Farm
Yardley Road
Easton Way
St Peter And St Paul's Church
Easton Maudit
Slype Farm
Easton Lane
A509
Wollaston Road
London Road
Cemetery
Mill Road
Abbey Close
Queens Street
Pear Tree
Hensmans Lane
Key
Rivers and the sea
Extent
High risk
More than 3.3% chance each year
Medium risk
Between 1% and 3.3% chance each year
Low risk
Between 0.1% and 1% chance each year
Very low risk
Less than 0.1% chance each year
Map details
Show flooding
Selected address
Pause to updates of flood risk data
We have paused updates to information about flood risk from rivers and the sea and surface water while we get ready for new data.



Key

Surface water

- (●) Extent
  - High risk: More than 3.3% chance each year
  - Medium risk: Between 1% and 3.3% chance each year
  - Low risk: Between 0.1% and 1% chance each year
- ( ) Depth
- ( ) Velocity

Rivers and the sea

- ( ) Extent

Reservoirs

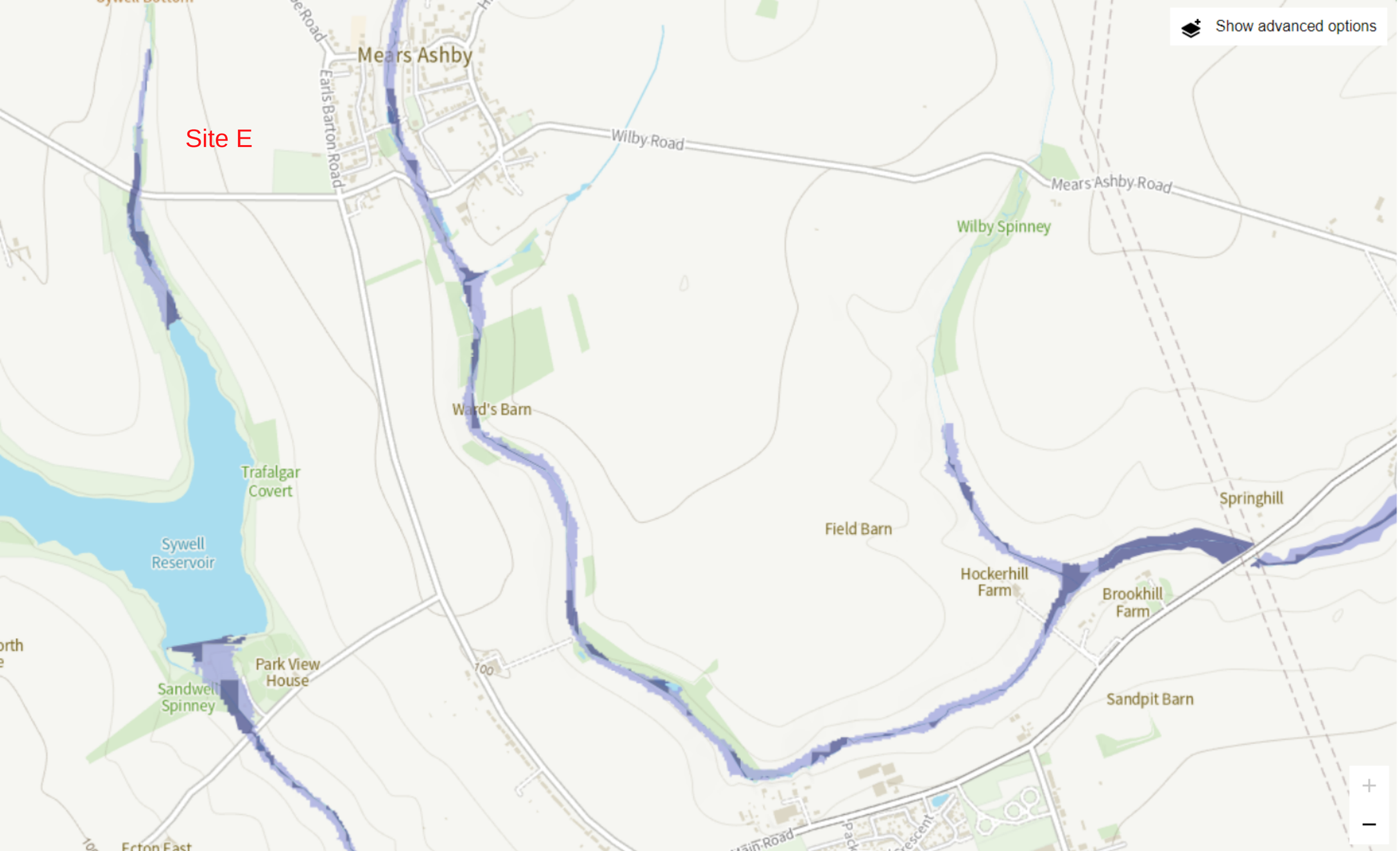
- ( ) Extent

Map details

- [x] Show flooding
- [ ] Selected address
- 15m boundary

Pause to updates of flood risk data

We have paused updates to information about flood risk from rivers and the sea and surface water while



Key

Rivers and the sea

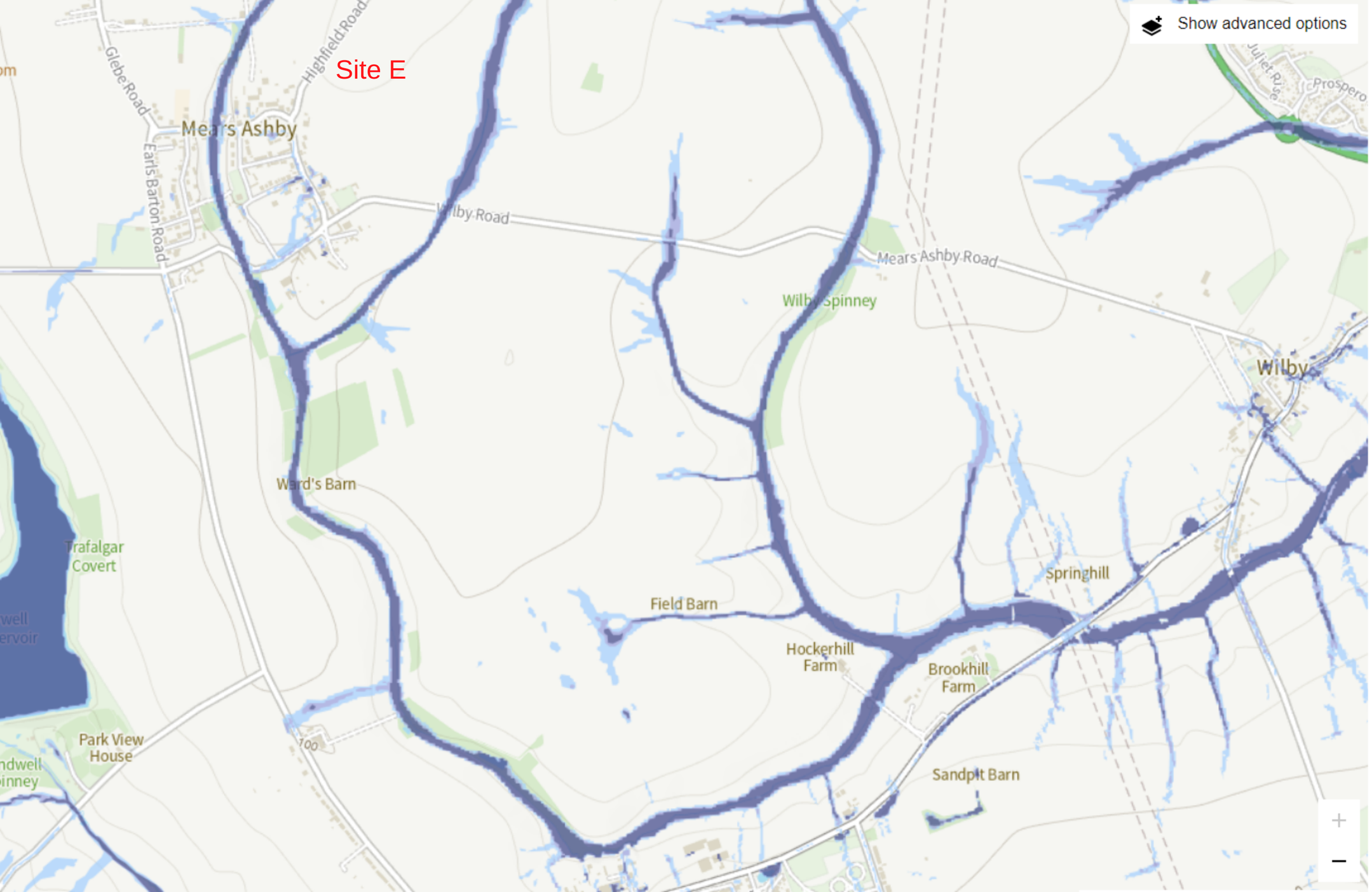
- Extent
- High risk
  More than 3.3% chance each year
- Medium risk
  Between 1% and 3.3% chance each year
- Low risk
  Between 0.1% and 1% chance each year
- Very low risk
  Less than 0.1% chance each year

Map details

- [x] Show flooding
- [ ] Selected address

Pause to updates of flood risk data

We have paused updates to information about flood risk from rivers and the sea and surface water while we get ready for new data.



Key

Surface water

- (●) Extent
- High risk
  More than 3.3% chance each year
- Medium risk
  Between 1% and 3.3% chance each year
- Low risk
  Between 0.1% and 1% chance each year
- ( ) Depth

Map details

- [x] Show flooding
- [ ] Selected address
- 15m boundary

Pause to updates of flood risk data

We have paused updates to information about flood risk from rivers and the sea and surface water while we get ready for new data.



Key

Surface water

- Extent
- High risk
  More than 3.3% chance each year
- Medium risk
  Between 1% and 3.3% chance each year
- Low risk
  Between 0.1% and 1% chance each year
- Depth

Map details

- [x] Show flooding
- [ ] Selected address
- 15m boundary

Pause to updates of flood risk data

We have paused updates to information about flood risk from rivers and the sea and surface water while we get ready for new data.

Appendix D Soil Pit Description

Soil Pit A01	
	Very slightly stony, slightly calcareous brown clay (10YR4/3) over slightly stony, very calcareous yellowish brown (10YR5/4) and greyish (Gley 1 5/10Y) clays; Weakly developed medium to course angular (or subangular) blocky subsoil structure; >0.5 % biopores greater than 0.5 mm diameter present; Slowly permeable subsoil; Gleying from 55cm.

Soil Pit A02	
	Stoneless acidic brown (7.5YR4/4) sandy clay loam over stoneless acidic strong brown (7.5YR4/6; 7.5YR5/6) sandy loams and stoneless acidic greyish heavy silty clay loam; Moderate developed subangular subsoil structure; Gleyed from 76cm from heavy silty clay loam; No slowly permeable layer observed within 80cm.

Soil Pit A.2 01	
	Very slightly stony, very slightly calcareous brown (7.5YR4/4) clay over very slightly stony, moderately calcareous light brown (7.5YR6/4) clay; Weakly developed, course to very coarse angular (or subangular) blocky subsoil structure; >0.5 % biopores greater than 0.5 mm diameter present; Slowly permeable subsoil; Gleying from 65cm.
Soil Pit B01	
	Very slightly stony, decalcified brown(10YR4/4) clay over slightly stony, moderately to very calcareous strong brown (7.5YR5/6) and greyish (7.YR6/1) clays; Weakly developed, coarse to very coarse angular or subangular blocky subsoil structure; >0.5 % biopores greater than 0.5 mm diameter present; Slowly permeable subsoil; Gleying from 60cm.

	Very slightly stony, very calcareous brown clay (7.5YR4/4) over very slightly stony, moderately calcareous light brown (7.5YR6/4) and greyish (7.YR6/1) clays; Weakly developed medium to coarse angular blocky subsoil structure; >0.5 % biopores greater than 0.5 mm diameter present; Slowly permeable subsoil; Gleying starting from 65cm.
Soil Pit E01	
	Very slightly stony, acidic brown clay (7.5YR4/4) over very slightly stony, moderately calcareous strong brown (7.5YR5/6) and greyish (7.YR6/1) clays; Weakly developed coarse to very coarse angular blocky subsoil structure; >0.5 % biopores greater than 0.5 mm diameter present; Slowly permeable subsoil; Gleying starting from 68cm.

Soil Pit E02

	Moderately stony, acidic brown (7.5YR4/3) and yellowish red (5YR5/6) sandy clay loams over ironstone bedrock at 40cm; Moderately developed fine to medium granular or subangular subsoil structure.
Soil Pit F01	
	Very slightly stony, very calcareous brown (10YR5/3; 10YR5/2; 10YR6/1) heavy clay loam over moderately stony calcareous greyish (10YR6/1) sandy clay loam; Heavy clay loam gleyed from 40cm; Strong developed medium to coarse subangular subsoil structure; No slowly permeable layer observed; gley caused by ground water table.
Soil Pit F02	

	Slightly stony, very calcareous brown clay (7.5YR4/3) over slightly stony, very calcareous strong brown (7.5YR4/6) and greyish (7.YR6/1) clays; Weakly developed medium to coarse angular blocky subsoil structure; >0.5 % biopores greater than 0.5 mm diameter present; Slowly permeable subsoil; Gleying starting from 59cm.
Soil Pit G01	
	Very slightly stony, very calcareous dark brown clay (7.5YR3/3) over slightly to moderately stony, very calcareous strong brown (7.5YR5/6) and greyish (7.YR6/1) clays to 75cm depth; light brownish grey (10YR6/2) sandy clay loam below 75cm; Weakly developed coarse angular blocky subsoil structure (42-75cm) >0.5 % biopores greater than 0.5 mm diameter present; Slowly permeable subsoil; Gleying from 42cm.
Soil Pit G02	

	Gleying observed at 50cm from drainage trench.
Soil Pit G03	
	Slightly stony, very calcareous brown (7.5YR4/3) clay over slightly stony, very calcareous strong brown (7.5YR4/6) and greyish (7.YR6/1) clays; Weakly developed, coarse to very coarse angular blocky subsoil structure; >0.5 % biopores greater than 0.5 mm diameter present; Slowly permeable subsoil; Gleying from 50cm.
Soil Pit G04	

	Slightly stony, very calcareous brown (7.5YR4/3) clay over slightly stony, very calcareous strong brown (7.5YR4/6) and greyish (7.YR6/1) clays; Weakly developed, coarse to very coarse angular blocky subsoil structure; >0.5 % biopores greater than 0.5 mm diameter present; Slowly permeable subsoil; Gleying starting from 60cm.

Appendix E Soil Laboratory Analysis

ANALYTICAL REPORT

Report Number	**38420-24**	**B106**	**ARCADIS HUMAN RESOURCES**
Date Received	**04-JUN-2024**		**LTD**
Date Reported	**28-JUN-2024**		**80 FENCHURCH STREET**
Project	**30164109**		**LONDON**
Reference	**ZHIGANG LIU**		**EC3M 4BY**
Order Number	**UK2306450**		

Laboratory Reference		**SOIL700462**	**SOIL700463**	**SOIL700464**	**SOIL700465**	**SOIL700466**	**SOIL700467**	**SOIL700468**	**SOIL700469**	**SOIL700470**	**SOIL700471**
Sample Reference		**E195 TOPSOIL**	**C036 TOPSOIL**	**C037 TOPSOIL**	**A039 SUBSOIL**	**E116 TOPSOIL**	**D030 TOPSOIL**	**A005 TOPSOIL**	**A005 SUBSOIL**	**E254 TOPSOIL**	**E202 TOPSOIL**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
Coarse Sand 2.00-0.63mm	% w/w	2	2	4	0	2	3	2	3	1	1
Medium Sand 0.63-0.212mm	% w/w	6	6	7	1	16	9	16	13	5	5
Fine Sand 0.212-0.063mm	% w/w	19	12	16	63	52	17	46	47	14	27
Silt 0.063-0.002mm	% w/w	32	36	32	13	20	31	17	20	36	26
Clay <0.002mm	% w/w	41	44	41	23	10	40	19	17	44	41
Textural Class **		C	C	C	SCL	fSL	C	SCL	fSL	C	C

Notes

Analysis Notes

The sample submitted was of adequate size to complete all analysis requested.
The results as reported relate only to the item(s) submitted for testing.
The results are presented on a dry matter basis unless otherwise stipulated.

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

** Please see the attached document for the definition of textural classes.

Reported by [redacted]

Natural Resource Management, a trading division of Cawood Scientific Ltd.
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www.cawood.co.uk

ANALYTICAL REPORT

Report Number	**38421-24**	**B106**	**ARCADIS HUMAN RESOURCES**
Date Received	**04-JUN-2024**		**LTD**
Date Reported	**01-JUL-2024**		**80 FENCHURCH STREET**
Project	**30164109**		**LONDON**
Reference	**ZHIGANG LIU**		**EC3M 4BY**
Order Number	**UK2306450**		

Laboratory Reference		**SOIL700472**	**SOIL700473**	**SOIL700474**	**SOIL700475**	**SOIL700476**					
Sample Reference		**E089 TOPSOIL**	**E177 TOPSOIL**	**E177 UPPER SUBSOIL**	**A046 TOPSOIL**	**E179 UPPER SUBSOIL**					
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**					
Coarse Sand 2.00-0.63mm	% w/w	12	1	2	3	1					
Medium Sand 0.63-0.212mm	% w/w	35	11	9	9	2					
Fine Sand 0.212-0.063mm	% w/w	26	45	45	16	10					
Silt 0.063-0.002mm	% w/w	11	21	22	27	64					
Clay <0.002mm	% w/w	16	22	22	45	23					
Textural Class **		mSL	SCL	SCL	C	MZCL					

Notes

Analysis Notes

The sample submitted was of adequate size to complete all analysis requested.
The results as reported relate only to the item(s) submitted for testing.
The results are presented on a dry matter basis unless otherwise stipulated.

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Appendix F Green Hill BESS Agricultural Land Classification Report

Green Hill Solar Farm
EN010170

Green Hill BESS Agricultural Land Classification Report

Prepared by: Soil Consultancy Ltd.

Date: (November 2023)

Document Reference: APP/GH6.3.20.1

APFP Regulation 5(2)(a)

Contents

1 BESS Agricultural Land Classification Report 4
1.1 Introduction 4
1.2 Agricultural Land Classification Methodology 5
1.3 Agricultural Land Classification Assessment 6
1.4 Agricultural Land Classification of Land at Grendon BESS. 8
References 9

1 BESS Agricultural Land Classification Report

1.1 Introduction

1.1.1 This report has been prepared for Green Hill Solar Farm based on the November 2023 assessment carried out by Daniel Baird; Soil Consultancy Ltd. It provides an assessment of the agricultural quality and versatility of agricultural land within the proposed development site adjoining the Grendon National Grid Substation.

1.1.2 The proposed development is a Battery Energy Storage System (BESS) to support the adjoining substation. The BESS is a temporary development with a consent period of 60 years. Following this consent period the BESS site would be decommissioned and the land returned to its current agricultural function.

1.1.3 Green Hill BESS totals approximately 43.3 hectares in area, with the location and extent shown on the **Figure 20.2.4**. It comprises two separate fields in arable crop rotations. These are BESS1 to the south and east of the substation and BESS2 to the west.

1.1.4 Levels have been changed on surrounding land; parts of the Substation site being raised up on made ground and large mineral open cast areas to the north. There is some evidence of disturbance on the eastern area of the site with building rubble fragments found in the topsoil at locations close to the substation.

1.1.5 This appraisal of agricultural land quality is consistent with the direction given by the National Planning Policy Framework (NPPF) (Ministry of Housing Communities and Local Government) (Ref 1.1). Paragraph 174 states:

"Planning policies and decisions should contribute to and enhance the natural and local environment by:

a) protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan);

b) recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland;

c) maintaining the character of the undeveloped coast, while improving public access to it where appropriate;

d) minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures;

e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local

environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and

f) remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate."

1.1.6 The glossary of the NPPF gives the following definition.

"Best and most versatile agricultural land: Land in grades 1, 2 and 3a of the Agricultural Land Classification."

1.1.7 Accordingly, a field assessment of the site was undertaken in November 2023 using the Ministry of Agriculture Fisheries and Food (MAFF) revised guidelines and criteria for Agricultural Land Classification (ALC) published October 1988 (Ref 1.2).

1.1.8 Use of the ALC methodology is also supported by Natural England Technical Advice Note 049 (TIN049) December 2012 (Ref 1.3). A detailed ALC survey normally has an approximate one sample point per hectare density, with points placed at 100m intersections of the Ordnance Survey grid.

1.1.9 For BESS3, survey density was reduced to a reconnaissance level of approximately one sample point per four hectares. This was done because of the elevated flood risk apparent for this whole field and the limited fall available to install effective field drains. Field walking showed that the non-calcareous and heavy textured topsoil found at the sample points was present across the field, giving confidence that the soil wetness and workability limitation is uniform for the whole field. BESS3 has since been excluded from the Scheme Order Limits and is therefore not considered in this report.

1.1.10 All the land within the site falls within North Northamptonshire. Local planning policy is currently provided by the Joint Core Strategy , adopted July 2016 (Ref 1.4) Policy 26: Renewable and Low Carbon Energy, references best and most versatile agricultural land. The pertinent section of the policy states:

"Proposals for sensitively located renewable and low carbon energy generation will be supported where it can be demonstrated that the proposal meets all of the following criteria:
i) Proposals for Solar Photovoltaic farms avoid the best and most versatile agricultural land."

1.1.11 No other policies in this joint core strategy document reference best and most versatile agricultural land.

1.2 Agricultural Land Classification Methodology

1.2.1 The MAFF ALC system of grading land quality for use in land use planning purposes divides farmland into five grades, with the degree of limitation imposed upon land use by the inherent physical characteristics of climate, site and soils. Grade 1 land is of an excellent quality, whilst Grade 5 land has very severe limitations for agricultural use. The ALC system is designed to be independent of land management so that there

is no incentive for poor management of land to facilitate development consent. Best and most versatile agricultural land that through sustained arable cropping has become exhausted, with diminished organic matter degrading the structural stability of the topsoil, is not downgraded in the ALC system.

1.2.2 The MAFF revised guidelines and criteria for ALC of October 1988 require that the following factors be investigated:

- Climate: Average Annual Rainfall (AAR) and Accumulated Temperature above 0°C between January and June (AT0);
- Site: Gradient, Micro Relief and Flooding;
- Soils: Texture, Structure, Depth, Stoniness, and Chemical Toxicity; and
- Interactive Factors: Soil Wetness, Soil Droughtiness and Liability to Erosion.

1.3 Agricultural Land Classification Assessment

Climate

1.3.1 Climatological data for ALC are provided for 5km intersections of the National Grid by the Meteorological Office, in collaboration with the National Soil Resources Institute. The data from these points can be interpolated providing climate data for specific sites, with data for this site given below:

Table 1: Grendon BESS

Reference Point	SP 867612
Altitude (m)	50
Average Annual Rainfall AAR (mm)	583
Accumulated Temperature AT0 (day degrees)	1424
Moisture Deficit for wheat (mm)	115
Moisture Deficit for potatoes (mm)	109
Field Capacity Duration (days)	121

1.3.2 The main parameters used in the assessment of an overall climatic limitation are AAR as a measure of overall wetness, and AT0 as a measure of the warmth of the site in the growing season. This site has a warm growing season giving high Moisture Deficits for a lowland England location.

1.3.3 There is no overall climate limitation on ALC grade for this site.

The Site

1.3.4 The two areas of the site are predominantly level and low lying arable land at approximately 50m elevation. The neighbouring substation includes areas of made ground to reduce flood risk for this site. There is

some evidence of limited disturbance on the adjoining land in the eastern parcel.

1.3.5 The Environment Agency Flood Map (Ref 1.5) shows the land to be predominantly Flood Zone 3, the highest flood risk category of their three-tier flood risk system. Area BESS2 is mapped as entirely Flood Zone 3 and for BESS1 a Flood Zone 3 corridor follows the watercourse to the north east boundary. Field survey showed a very low fall to the watercourses in this area, limiting the potential to install effective agricultural field drains.

Soils and Parent Materials

1.3.6 The British Geological Survey Geology of Britain Viewer (Ref 1.6) shows Green Hill BESS to be underlain by the Whitby Mudstone Formation. This is shown as being overlain by alluvium along the eastern boundary of BESS1 (following the watercourse) with Ecton Member sand and gravel or glaciofluvial deposits. Along the eastern edge of the substation (BESS1) a narrow strip is mapped with no superficial deposit over the Whitby Mudstone.

1.3.7 Soil profiles are deep with a heavy texture and a subsoil that impedes drainage, consistent with alluvium and mudstone as parent materials. No light textured material was found in the areas mapped with the Ecton Member and Glaciofluvial superficial deposits.

1.3.8 Details of the soil profiles found at the sample points are attached at the end of this report. Also attached is an analytical report for a representative topsoil sample. There are no limitations on ALC Grade imposed by presence of large stones in topsoil, very light textured topsoil or very shallow soils.

Interactive Factors

1.3.9 Agricultural land within the site is limited to ALC Grades 3a and 3b by the interactive limitation of soil wetness.

1.3.10 The deep and seasonally waterlogged (Wetness Class III) soil profile retains excess water in the topsoil for an extended period following rainfall. With its high clay content the topsoil is vulnerable to degradation when wet if cultivated or carrying livestock. This limits opportunities to cultivate or turn out livestock in autumn and spring. The land is limited to ALC Grade 3b by soil wetness and workability, with the limitation reduced for parts of BESS1 where the presence of naturally occurring calcium carbonate mitigates the clayey soil's vulnerability to structural damage.

1.3.11 ALC grading assumes a good standard of management, assessing a soil wetness and workability limitation with appropriate field drainage installed even if this is not present at the time of survey. However for the land to the west and north of the site the limited fall to surface water limits options for effective field drainage. The soil wetness and workability limitation for this land is therefore exacerbated but not sufficiently to place the land in ALC Grade 4.

1.4 Agricultural Land Classification of Land at Grendon BESS.

1.4.1 ALC survey of the site found agricultural land in ALC Grades 3a and 3b.

Table 2 – ALC Grade Distribution

ALC Grade	Area (ha)	%
3a	9.5	54.9.%
3b	7.8	45.1%
Total	**24.8**	**100.0**
Total BMV	**9.5**	**54.9%**

1.4.2 Agricultural land is limited to ALC Grades 3a and 3b. Soils have impeded drainage leaving the clayey topsoil wet for an extended period following rainfall and vulnerable to structural degradation from cultivation or livestock hooves. Grade 3a land to the east has a reduced soil wetness limitation owing to the presence of naturally occurring calcium carbonate that reduces the topsoil vulnerability to structural degradation.

1.4.3 At BESS2, the limited fall available to surface water courses constrains options for effective field drainage, exacerbating the soil wetness and workability limitation but not sufficiently to heighten the limitation to Grade 4.

References

Ref 1.1 National Planning Policy Framework. Department for Communities and Local Government, September 2023https://www.gov.uk/government/publications/national-planning-policy-framework--2

Ref 1.2 Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land. Ministry of Agriculture Fisheries and Food, October 1988. http://archive.defra.gov.uk/foodfarm/landmanage/land-use/documents/alc-guidelines-1988.pdf

Ref 1.3 Agricultural Land Classification: protecting the best and most versatile agricultural land (TIN049). Natural England, December 2012. http://publications.naturalengland.org.uk/publication/35012?category=44002

Ref 1.4 North Northamptonshire Council Local Plan, adopted July 2016 https://www.northnorthants.gov.uk/planning-strategies-and-plans/north-northamptonshire-local-plan

Ref 1.5 Environment Agency Flood Map https://flood-map-for-planning.service.gov.uk/

Ref 1.6 British Geological Survey Geology of Britain viewer. [redacted]/