wardell-armstrong.com

ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
INFRASTRUCTURE AND UTILITIES
LAND AND PROPERTY
MINING AND MINERAL PROCESSING
MINERAL ESTATES
WASTE RESOURCE MANAGEMENT

LOW CARBON

BEACON FEN PV DCO

SOILS AND AGRICULTURAL LAND CLASSIFICATION

DECEMBER 2023

wardell armstrong

Wardell Armstrong LLP
24 St. Vincent Place, Glasgow, G1 2EU, United Kingdom
Telephone: +44 (0)141 428 4499 www.wardell-armstrong.com

DATE ISSUED:	**December 2023**
JOB NUMBER:	**ST19595**
REPORT NUMBER:	**0021**
VERSION:	**V1.0**
STATUS:	**FINAL**

LOW CARBON

BEACON FEN PV DCO

SOILS AND AGRICULTURAL LAND CLASSIFICATION

DECEMBER 2023

PREPARED BY:

Duncan Rose	Associate Director - Soil Scientist	
Francesca Oakley	Soil Scientist	

REVIEWED BY:

Bill Crooks	Service Lead - Soils	

APPROVED BY:

Louise Dow	Regional Director	

CONTENTS

1 INTRODUCTION 1
1.1 Background 1
1.2 Site Description 1
1.3 Definitions 2
2 METHODOLOGY 4
2.1 Desk Study 4
2.2 Site Survey 5
3 DESK STUDY 6
3.1 Soils 6
3.2 Agricultural Land Classification 7
3.3 Aerial Imagery and Ordnance Survey Mapping 8
4 SITE SURVEY 9
4.1 Soils 9
4.2 Agricultural Land Classification 12
4.3 Direct Limitations 13
4.4 Interactive ALC Limitations 13
4.5 Overall Agricultural Land Classification 15
5 POLICY AND GUIDANCE 18
5.1 National Planning Policy 18
5.2 Local Planning Policy 21
5.3 Guidance 24
6 CONCLUSION 26

TABLES

Table 1: The Soil Associations based on the Soil Survey of England and Wales (1984). 6
Table 2: Interpolated agroclimatic data for the Site. 13
Table 3. Wetness Limitation Grade According to Soil Characteristics 14
Table 4: Summary of ALC within the Application Boundary. 16

PHOTOGRAPHS

Photograph 1: Overview of the site condition during the survey in August 2023. 2
Photograph 2. Beccles 3 711t – Beccles series - point - 154 9
Photograph 3. Ruskington 512c – Ruskington series Point 450 9
Photograph 4. Wallasea 2 813g – Wallasea series Point 449 9

APPENDICES

Appendix 1 Soil Profiles Descriptions and Agricultural Land Classification

Appendix 2 Laboratory Results

DRAWINGS

ST19595/166 Agricultural Land Classification Map

ST19595/168 Soil Associations

1 INTRODUCTION

1.1 Background

1.1.1 Wardell Armstrong LLP (WA) has been commissioned by Low Carbon to undertake an Agricultural Land Classification (ALC) survey on a 528.2 hectares (ha) parcel of land between Ewerby and South Kyme, postcode NG34 9PS (hereafter referred to as 'the Site').

1.1.2 This report includes the ALC results for the Application Boundary, shown in Plate 1.

Plate 1: Application boundary shown in red (Basemap © Google Maps).

1.2 Site Description

1.2.1 The Site is located within the administrative area of North Kesteven District Council. The Site is situated near the post code NG34 9PR and is accessed via Howell Fen Drove (located off Heckington Road). The Site is comprised primarily of agricultural field throughout with some small areas of forestry.

1.2.2 Surrounding area is comprised entirely of agricultural land and farmhouses.

1.2.3 At the time of the survey in August and September 2023, the weather was typically clear and warm.

Photograph 1: Overview of the site condition during the survey in August 2023.

1.3 Definitions

1.3.1 The ALC system was devised by the Ministry of Agriculture, Fisheries and Food (MAFF) (1988)[1] and is the standard method for determining the quality of agricultural land in England and Wales according to its versatility, productivity and workability, based upon inter-related parameters including climate, relief, soil characteristics and drainage; i.e. ALC assesses land quality based upon the type and level of agricultural production the land can potentially support.

1.3.2 The ALC places land into one of five grades: Grade 1 (excellent); Grade 2 (very good); Grade 3 (good to moderate) which is divided into Subgrades 3a (good) and 3b (moderate); Grade 4 (poor); and Grade 5 (very poor).

[1] MAFF (1988). The Agricultural Land Classification (ALC) of England and Wales: Revised Guidelines and Criteria for Grading the Quality of Agricultural Land. Available at: http://publications.naturalengland.org.uk/publication/6257050620264448 Accessed August 2023.

1.3.3 Best and most versatile (BMV) agricultural land is defined as land of excellent to good agricultural quality (ALC Grades 1, 2 and Subgrade 3a) and is afforded a degree of protection in the National Planning Policy Framework (NPPF), 2023[2].

1.3.4 Soil series are the lowest category in the soil classification system and are precisely defined based upon particle-size distribution, parent material (substrate) type, colour, and mineralogical characteristics. Soil associations are groupings of related soil series.

[2] UK Government (2023). National Planning Policy Framework. Available at: https://www.gov.uk/government/publications/national-planning-policy-framework--2. Accessed October 2023

2 METHODOLOGY

2.1 Desk Study

2.1.1 Information about the soils and agricultural land present on the Site was obtained from the following published sources:

- MAFF (1993). 1:250,000 'Provisional Agricultural Land Classification'[3].
- Met Office (1989) Climatological Data for Agricultural Land Classification (ALC): Grid point datasets of climatic variables at 5 km intervals for England and Wales[4].
- Soil Survey of England and Wales (1984) Soils and their Use in Eastern England, with accompanying 1: 250,000 map, Sheet 4.
- OS (2021) Terrain 5 Digital Terrain Modelling[5].
- Multi-Agency Geographical Information for the Countryside (MAGIC)[6].
- Google Maps including Streetview[7].
- Cranfield University (2015). Research to develop the evidence base on soil erosion and water use in agriculture[8].
- Cranfield University (2023) The Soils Guide. Available at LandIS - Land Information System - Soils guide Accessed July 2023.[9]
- Natural England (2017) Likelihood of Best and Most Versatile (BMV) Agricultural Land – Strategic scale map East Midlands region[10].
- Munsell (2010) Colour Charts[11].
- British Geological Survey Geology Viewer (BGS)[12].

[3] Provisional Agricultural Land Classification Maps and Data. Available at: https://data.gov.uk/dataset/952421ec-da63-4569-817d-4d6399df40a1/provisional-agricultural-land-classification-alc Accessed August 2023.
[4] Met Office (1989) Climatological Data for Agricultural Land Classification (ALC): Grid point datasets of climatic variables at 5 km intervals for England and Wales. Available at: https://data.gov.uk/dataset/8a334958-ff65-4f5c-9674-5a85e61ee269/climatological-data-for-agricultural-land-classification Accessed August 2023.
[5] OS Terrain 5. Available at: https://www.ordnancesurvey.co.uk/business-government/products/terrain-5 August July 2023.
[6] HM Government. Multi-Agency Geographical Information for the Countryside (MAGIC). Available at: www.magic.gov.uk
[7] Google Maps (©2021). Available at: https://www.google.co.uk/maps/ Accessed August 2023.
[8] Knox *et al*. (2015). 'Research to develop the evidence base on soil erosion and water use in agriculture: Final Technical Report. pp147' Available at https://www.theccc.org.uk/wp-content/uploads/2015/06/Cranfield-University-for-the-ASC.pdf Accessed August 2023.
[9] Cranfield University (2023) The Soils Guide. Available at LandIS - Land Information System - Soils guide Accessed August 2023.
[10] Natural England (2017) Likelihood of Best and Most Versatile (BMV) Agricultural Land - Strategic scale map East midlands region (ALC017) Available at: http://publications.naturalengland.org.uk/category/5208993007403008 Accessed August 2023.
[11] Munsell Colour (2010). Munsell Soil Colour Charts. Not available online.
[12] British Geological Survey UKRI (2023) British Geological Survey Geology Viewer. Available at: BGS Geology Viewer - British Geological Survey Accessed October 2023.

2.2 Site Survey

2.2.1 An ALC and soil survey was undertaken in three stages due to harvest schedules. The first stage of the survey took place between 14th and 18th August 2023. The second stage of the survey took place between 21st and 25th August 2023, and the third stage of the survey took place between 4th and 6th September 2023. The soil survey was undertaken by experienced soil surveyors using a combination of augered soil cores and soil profile pits.

2.2.2 Auger cores were taken using a 70 mm diameter hand-held Edelman auger, capable of sampling to a maximum depth of 120 cm. The soil profile pits were excavated, using a spade to a maximum depth of 80 cm, sufficient to evaluate the in-situ structure of the soil profile.

2.2.3 A total of 515 points (472 cores and 43 pits) were inspected (Drawing ST19595/166). The survey points were distributed across the Site, giving a survey density of one point per hectare in the areas of agricultural land[13]. The purpose of the survey was to provide details of soil profile characteristics and to inform the ALC assessment. The results of the Soil Survey are included in Appendix 1.

2.2.4 To confirm the soil texture across the Site, 127 soil samples (selected to represent areas of the site or where changes in soil characteristics were identified) were sent for analysis of particle size distribution and other determinants (organic matter, pH, phosphorus, potassium, and magnesium). The samples were analysed by NRM Laboratories, which is accredited by UKAS to the internationally recognised standard for competence; ISO/IEC 17025. The laboratory results are included in Appendix 2.

[13] Natural England (2012). Technical Information Note 049, 'Agricultural Land Classification: protecting the Best and Most Versatile agricultural land'. Available at http://publications.naturalengland.org.uk/publication/35012. Accessed October 2023

3 DESK STUDY

3.1 Soils

3.1.1 The scale of the Soil Survey of England and Wales (1984) mapping is such that it is not accurate to the field level and does not pick up small-scale local variations in soil type. However, it does provide a general indication of the soil types within the Site and the wider area.

3.1.2 The Soil Survey of England and Wales (1984) indicates that the Site belongs to the Wallasea 2 (813g), Beccles 3 (711t) and Ruskington (512c) soil associations. The Beccles 2 (711s) is mapped at the boundary of the Site and thus has also been included. A summary of the characteristics of these soil associations is provided in Table 1.

Table 1: The Soil Associations based on the Soil Survey of England and Wales (1984).

Soil Association	Wallasea 2 813g	Beccles 3 711t	Ruskington 512c	Beccles 2 711s
Soil Series	Wallasea, Newchurch, Blacktoft, Wisbech	Beccles, Ashley, Hanslope	Ruskington, Ickford, Newsleaford	Beccles Aldeby, Blackwood
Geology	Marine alluvium	Chalky till	Glaciofluvial sand and gravel	Chalky till and glaciofluvial drift
Soil characteristics	Deep stoneless clayey soils, calcareous in places. Some deep calcareous silty soils. Flat land often with low ridges giving a complex soil pattern. Groundwater controlled by ditches and pumps.	Slowly permeable seasonally waterlogged fine loamy over clayey soils, associated with similar clayey soils.	Deep permeable calcareous coarse and fine loamy and sandy soils affected by groundwater. Flat land.	Slowly permeable seasonally waterlogged fine and coarse loamy over clayey soils. Some deep sandy soils affected by groundwater.
Soil Water Regime (WC = Wetness Class)	Most of the land is pump-drained and the more permeable Blacktoft and Wisbech soils are well drained (WC I). Wallasea and Newchurch soils are less permeable but respond to	All the soils have slowly permeable subsoils which cause waterlogging for much of the winter (WC III and IV). Because of this they have a limited winter rainfall acceptance potential and most surplus	Most of the soils have been artificially drained so are now only occasionally waterlogged in winter (WC II) as they respond well to drainage. Locally, however, where there is	Beccles and Aldeby soils are seasonally waterlogged (WC III) because of their slowly permeable subsoils, but in Lincolnshire, where perimeter ditches are linked to pumped arterial systems, Blackwood soils

	underdrainage; drained soils are occasionally waterlogged (WC II) but undrained soils are waterlogged for long periods in winter (WC III or IV).	water is shed laterally as surface run-off.	hard ironpan or an undulating, slowly permeable clay substratum the soils lie wet for longer.	are only occasionally waterlogged (WC II). There are marked annual differences in the duration of waterlogging.
Erodibility	Minimal risk	Hanslope soils are restricted to convex eroded slopes mainly at the margins of delineations (calcareous till near surface).	Minimal risk	Minimal risk

3.2 Agricultural Land Classification

3.2.1 The Provisional 1:250,000 ALC mapping indicates that agricultural land within the Survey Area is ALC Grade 3 (good to moderate quality). However, as with the soils data, the scale of the mapping is not accurate at the field level, and this is reflected by the inability to pick up variations in ALC grade for areas less than approximately 80 ha. However, it does provide an indication of the predominant ALC grading in the wider area.

3.2.2 The Natural England BMV Likelihood mapping shows the site to be in an area of both High (>60% area BMV) likelihood BMV and Moderate (20-60% area BMV) likelihood.

3.2.3 There was an assessment of agricultural quality of land carried out on the Site in January 2023 by Land Research Associates Ltd. The survey identified two generalised ALC land gradings, 'mainly Subgrade 3a, some 2 and some 3b' and 'mainly Subgrade 3b' land. The scope of the surveys did not conform to the requirements of Natural England's 2021 '*Guide to Assessing Development Proposals on Agricultural Land*'[14]. It is also noted that samples for laboratory analysis were not taken, which does not conform to the Institute of Environmental Management & Assessment's (IEMA) 2022 guidance '*A New Perspective on Land & Soil in Environmental Impact Assessment*'[15],

[14] Natural England (2021) Guide to assessing development proposals on agricultural land. Available at: https://www.gov.uk/government/publications/agricultural-land-assess-proposals-for-development/guide-to-assessing-development-proposals-on-agricultural-land. Accessed October 2023.
[15] Institute of Environmental Management (2022) A New Perspective on Land and Soil in Environmental Impact Assessment. Available at: https://www.iema.net/articles/new-land-and-soils-guidance-for-eia?t=156574. Accessed October 2023

which states that "…*where sampled soils are of a clay loam and silty clay loam texture, additional laboratory testing is required to determine the soils' clay content for the accurate determinate of ALC*…".

3.2.3 A detailed Soils and Agriculture Land Classification (ALC) survey, including laboratory analysis of samples, is required therefore to ensure that the baseline information is sufficiently robust to inform the Soils and ALC Assessment, and to inform the Soil Management Plan (SMP) that is to be prepared as part of the application.

3.3 Aerial Imagery and Ordnance Survey Mapping

3.3.1 The Ordnance Survey mapping indicates that the Site has a gently undulating topography, with elevation from 5m to 15m AOD across the Site.

4 SITE SURVEY

4.1 Soils

The primary soil profiles observed across the Site were found to be consistent with the mapped soil associations, Beccles 3 711t (Photograph 2), Ruskington 512c (Photograph 3) and Wallasea 2 813g (Photograph 4). A summary of the typical soil profile observed on site is provided below, with detailed results provided in Appendix 1.

Photograph 2. **Beccles 3 711t – Beccles series - point - 154**

Photograph 3. **Ruskington 512c – Ruskington series Point 450**

Photograph 4. Wallasea 2 813g – Wallasea series Point 449

Beccles 3 (711t)

4.1.1 Soils with characteristics of Beccles 3 711t soil association formed a large proportion of the site (417 points). These soils typically consisted of heavy clay loam or clay topsoil (sandy clay loam and medium clay loam topsoils were also recorded in smaller quantities), ranging in colour from dark or very dark greyish brown (10YR 4/2 or 10YR 3/2) to dark or very dark grey (10YR 4/1 to 10YR 3/1). Points with sandy clay loam topsoil were generally located near points with the sandier Ruskington soil association characteristics. The topsoil ranged in depth from 20cm to 50cm and generally had medium or coarse sized sub angular blocky peds with moderate to strong development. Several points towards the south and centre of the site had calcareous topsoil.

4.1.2 Colour of the upper subsoil horizons ranged between grey (10YR 5/1 to 10YR 6/1), brown (10YR 5/3) or dark greyish brown (10YR 4/3). The upper subsoil was typically a clay texture (heavy clay loam and sandy clay loam textures were also recorded in the upper subsoil in smaller quantities), with a typical structure being angular blocky with firm to very firm consistency and medium to coarse sized peds with a moderate to weak development. Ochreous mottling and greyish/pale ped faces were found through a large proportion of these points indicating a gleyed horizon due to the slowly permeable nature of the subsoil horizons. The lower subsoil horizons were grey (10YR 5/1 to 10YR 6/1) to dark grey (10YR 4/1) or greyish brown (10YR 5/2) clay with coarse sized very firm weakly developed peds. These lower subsoils generally had strong ochreous mottling indicating a gleyed horizon. The lower subsoils were typically calcareous with chalk stones encountered at lower depths.

Ruskington (512c)

4.1.3 Soils with characteristics of Ruskington 512c (93 points) were found to the north/northeast of the site, but there were also bands of these soils found to the southwest and through the middle and south of the site. For these soils the topsoil typically consisted of very dark greyish brown (10YR 3/2) sandy loam or sandy clay loams ranging in depth from 26cm to 45cm. These generally had sub angular blocky, medium to fine sized friable or firm peds of moderate development. Upper subsoil depths ranged from 45 to 100 cm and are typically a yellowish brown (10YR 5/6) or brownish yellow (10YR 6/8) colour with a sandy loam or loamy sand texture and some ochreous mottling but generally no pale or greyish ped faces. The lower subsoils were typically yellowish brown (10YR 5/6) or light yellowish brown (10YR 6/4) colour with a

range of textures recorded including loamy sand, sand, clay, sandy loam and sandy clay loam with fine to medium sub angular blocky or granular peds of friable to very friable ped strength. The lower subsoils also had a higher stone content which in parts prevented the surveyor reaching the full profile depth. For several points a slowly permeable clay lower sub soil was found. This was generally gleyed clay with weakly developed, coarse angular blocky structure with very firm peds. Where these were present some gleying features were found in the upper subsoil horizons. Lower subsoil depths ranged between 60 cm to 115 cm.

4.1.4 Some points identified as Ruskington 512c soils have characteristics in line with the Ickford soil series. These are where the topsoil and upper subsoil were both typically a dark greyish brown (10YR 3/2) heavy clay loam or clay. Sandy loam, loamy sand and sandy clay loam textures were also recorded in the upper subsoil. The topsoil was recorded at a depth of between 10 and 60 cm. The heavy clay loam or clay upper subsoil generally was found over predominantly loamy sandy, sandy loam or sand lower subsoils. These were generally found to the very northeast of the site. The upper subsoil ranged in depth between 35 cm and 100 cm, and the lower subsoil horizons varied in depth between 55 cm and 120 cm.

4.1.5 Several points had characteristics that did not exactly match any soil series within the soil mapped associations for the site. These soils generally had Heavy Clay Loam/Sandy Clay Loam topsoil/upper subsoils over sandy loam or loamy sand with clay lower subsoils. These were generally located near the boundary of Ruskington 512c soils and have been grouped with these due to the present of sandy soils within the profile.

Wallasea 2 (813g)

4.1.6 Soils with characteristics of Wallasea 2 813g (5 points) were found towards the east of the site. These soils have a topsoil depth ranging from 30 to 45 cm and are very dark greyish brown (10 YR 3/2) to very dark grey (10YR 3/1) silty clay/clay with sub angular blocky, weakly to moderately developed, medium sized firm peds. The upper and lower subsoils were generally dark grey (10YR 4/1) silty clays, with strong to moderately developed, firm/very firm coarse sized peds. The subsoils were generally gleyed with ochreous mottling present and greyish matrix colours. The extent of these soils may cover surrounding points that were identified as having clay topsoil and subsoils. Upper subsoil depths ranged from 50 cm to 80 cm and lower subsoil depths ranged from 80 cm to 110 cm.

4.1.7 The location of survey points with the identified soil association characteristics is shown in Drawing ST19595/168.

Laboratory Results

4.1.8 A total of 127 Samples were taken from the topsoil and subsoil at 75 survey points across the site. These were analysed for pH, macro nutrient availability, soil organic matter and soil texture. Copies of the reports can be found in Appendix 2.

4.1.9 A total of 58 topsoils, 45 upper subsoils and 24 lower subsoils were analysed. The soil texture results largely matched the surveyed hand texture determinations and were used to confirm the soil textures of surrounding areas with similar characteristics. Where borderline results between textural classifications have been reported the soil texture result closest to the surveyed soil texture has been used.

4.2 Agricultural Land Classification

Agroclimatic Data

4.2.1 Agroclimatic data were taken from the nearest meteorological stations and interpolated to obtain site specific values (Table 2). This was then used to establish whether the agricultural land quality of the Site is limited by climate and, in conjunction with soil profile characteristics, wetness and droughtiness.

4.2.2 The climate on the Site poses no direct limitation on the ALC classification.

Table 2: Interpolated agroclimatic data for the Site.	
Average annual rainfall (mm)	560
Accumulated Temperature (^{0}C)	1431
Field Capacity Duration (FCD) (days)	106
Moisture Deficit Wheat (mm)	118.04
Moisture Deficit Potatoes (mm)	112.82

4.3 Direct Limitations

4.3.1 Topsoil stoniness limits two survey points to Grade 2, two survey points to Subgrade 3a and two survey points to Subgrade 3b. In these cases, topsoil stoniness is not the only limiting factor.

4.3.2 There is no limitation due to topsoil depth.

4.3.3 No other direct limitations including gradient, summer and winter flood risk and topsoil texture limited the ALC grade at the Site.

4.4 Interactive ALC Limitations

Wetness

4.4.1 The soils with Beccles 3 711t and Wallasea 2 813g characteristics typically had slowly permeable clay subsoils and gleyed horizons within the profile. Based on the FCD of 106 days, points that have a slowly permeable layer (SPL) within 56cm and are gleyed within 40cm have a Wetness Class (WC) of III (WC II if the SPL is within 56 to 80cm). Where there is gleying between 40cm and 70cm and an SPL within 80cm the soils have WC II. Points with no SPL within 80cm and no gleying within 70cm have a WC I. Other points with no SPL but gleying within 70cm have WC I (WC II if gleying was within 40cm).

4.4.2 For soils with Ruskington 512c soil association characteristics and no Clay/Heavy Clay Loam subsoils there are typically no wetness limitations due to the sandy topsoil textures and no SPL or gleying present. Where Clay/ Heavy Clay loam subsoils were present, SPL and gleying features are present and the designation of wetness class follows the same process described in 4.4.1. However, the soils only become limited by wetness where there is a SPL <56cm and gleying within 40cm (if there is no SPL but gleying within 40cm, the coarse textured subsoils reduce the wetness class to I). In most other situations theses soils are limited by droughtiness.

4.4.3 The summaries for wetness limitations for each of the soil associations provided above are for typical profile characteristics, however variations in the determination of Wetness grade occurred where there were differences in topsoil textures. Table 3 lists the soil profile characteristic combinations that lead to an overall wetness limitation and the number of points across the site with these characteristics.

Table 3. Wetness Limitation Grade According to Soil Characteristics

Topsoil Textures	Depth to SPL	Depth to Gleying	Wetness Class (WC)	Limitation and Grade	No. Points
HCL C	<56cm	<40cm	III	Wetness 3b	260
HCL C	>56 <80cm	<40cm	II	Wetness 3a	9
Calcareous HCL Calcareous C	<80cm	<40cm	III	Wetness 3a	15
SCL MCL	>56 <80cm	<40cm	II	Wetness 2	3
SCL MCL	<56	<40cm	III	Wetness 3a	25
HCL C	<80	>40cm<70cm	II	Wetness 3a	55
Calcareous HCL Calcareous C	<80	>40cm<70cm	II	Wetness 2	3
C	No SPL	None <70cm	I	Wetness 3a	7
C HCL	No SPL	<40cm	II	Wetness 3a	52
HCL	No SPL	>40cm	I	Wetness 2	6
C	No SPL	>40<70	I	Wetness 3a	11
HCL C	SPL <60 but not to 100cm	None <70cm	II	Wetness 3a	17
HCL C	SPL >60 <80	None <70cm	II	Wetness 3a	1
SCL MCL	No SPL	<40cm	II	Wetness 2	3
SCL MCL	<80cm	>40<70cm	II	Wetness 2	6
SCL MCL	<80cm	None <70cm	I	Wetness 2	2

Droughtiness

4.4.4 The relatively low rainfall, FCD (106) and associated winter wheat and potato moisture deficit for the site brings in a potential minor droughtiness limitation for each of the soil types found depending on the subsoil texture and structure found.

4.4.5 Soils with Beccles 3 711t characteristics typically had a droughtiness limitation to Grade 2 due to the higher available water capacity of the heavy clay loam topsoils and clay subsoils. These clay to heavy clay textures, however, meant that in most cases the main limitation was wetness. A droughtiness limitation to Subgrade 3a occurs where there are weakly developed clay subsoils with coarse ped size and very firm ped strength reducing the structural condition to poor. The droughtiness limitation increases to 3b where poor structured subsoils also have significant stone contents (points 342 and 344). In these situations, droughtiness is the main limiting factor.

4.4.6 For the soils with Ruskington series characteristics (Sandy Loam topsoil), there is typically a droughtiness limitation to 3a due to the low available water capacity of the sandy loam/loamy sand/sand soils through the profile. Some soils had very stoney lower subsoils which reduced the available water capacity significantly, increasing the droughtiness limitation to Subgrade 3b. For Ruskington type soils where there is a Sand Clay Loam lower subsoil the available water capacity increases and the droughtiness limits these points to Grade 2. However, where there is poor structure within the lower Clay/Heavy Clay Loam lower subsoils there is reduced available water capacity and droughtiness limitation changes to Subgrade 3a.

4.4.7 For the soils with Ickford series characteristics (Clay /Heavy Clay Loam over sandy soils) the droughtiness limitation is to ALC Grade 2, but it changes to Subgrade 3a if there is a loamy sand or sand lower subsoil due to the reduced available water capacity.

4.4.8 Across the site 42 points had droughtiness as the main limitation – 5 soils with Beccles 3 711t characteristics and 35 with Ruskington 512c characteristics. A further 40 Points had droughtiness and Wetness as the main limitations.

4.5 Overall Agricultural Land Classification

4.5.1 Grade boundaries were drawn based on field observations and the calculations from the individual points to make mapping units (groups of ALC gradings) representative of field conditions. Soil limitations were the main factors determining ALC grade on this site, and map units were made of at least 2 survey points of the same grade. Isolated points of ALC grades were incorporated into the surrounding map units. The

ALC map comprises Grade 2, Subgrade 3a and Subgrade 3b agricultural land and non-agricultural land (Table 4 and Drawing ST19595/166).

Table 4: Summary of ALC within the Application Boundary.

ALC or other land category	Area (ha)	Percentage % within application boundary	Percentage % of Surveyed area (excluding land marked as 'other')
Grade 2 (very good)	14.61	2.8	2.9
Subgrade 3a (good)	235.51	44.6	46.0
Subgrade 3b (moderate)	261.43	49.5	51.1
Other	16.62	3.1	
Total	**528.17**	**100**	**100 (511.55 ha)**

4.5.2 The following sections provide summaries of the main ALC grades and limitations found across the site.

Grade 2

4.5.3 **Grade 2 – Wetness:** Points with minor limitations to the soil water regime. This occurs at points with medium to light textured topsoil, where the impermeable clay layers sit deeper in the profile providing a low degree of waterlogging or where there is minor evidence of waterlogging (gleyed horizons) higher in the profile with no slowly permeable layer present. These points also have deep soil profiles and good structured subsoils that provide no droughtiness limitation.

4.5.4 **Grade 2 – Droughtiness**: Due to the relatively low rainfall and FCD of the area and where the soils have adequate profile depths and well-structured subsoils that ensure adequate water holding capacity, the general grade for droughtiness is either 1 or 2. Areas of the site with medium to light textured (clay <27%) topsoil and no evidence of waterlogging or slowly permeable layers have an overall ALC Grade 2 limited by droughtiness.

Subgrade 3a

4.5.5 **Subgrade 3a – Wetness:** Areas of the site where there is a moderate limitation to the soil water regime (gleying not within 40cm, or slowly permeable clay layer deeper in the profile) or where more significant limitations to the soil water regime are present but there are medium textured topsoils improving the soil workability. This is mainly present in soils with Beccles 3 711t and Wallasea 2 813g characteristics however Ruskington 512c soils with Ickford soil series characteristics can also have this

limitation due to the heavy textured (clay > 26%) topsoils that have reduced workability.

4.5.6 **Subgrade 3a - Droughtiness:** Typically occurs within soils that have Ruskington 512c characteristics where there are slight limitations to soil workability or soil water regime but there are relatively shallow soil profiles reducing available water capacity. Also occurs where more significant limitations to soil water regime are present but there is sandy loam topsoil texture giving improved soil workability reducing the wetness limitation.

Subgrade 3b

4.5.7 **Subgrade 3b – Wetness:** This is the main limitation and grade across the site and is typically found within soils with Beccles 3 711t characteristics. The heavy textured topsoil provides poor workability with high susceptibility to damage. These soils also have significant limitations to the soil water regime with slowly permeable heavy clays located at shallow depths that will bring prolonged periods of waterlogging. The presence of extensively gleyed horizons indicates a high water table that requires effective field drainage to support arable production.

4.5.8 **Subgrade 3b – Droughtiness:** This has low occurrence across the site (15 points) and mainly occurs in soils with Ruskington 512c characteristics where there is a shallow soil profile, high stone content in the lower subsoil, or sand subsoil which all provide a low available water capacity.

5 POLICY AND GUIDANCE

5.1 National Planning Policy

National Planning Policy Framework (2023)[2]

5.1.1 Under Section 15 of the NPPF (2023): Conserving and enhancing the natural environment, Paragraph 174 states that 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;*

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*.

5.1.2 The footnote to Paragraph 175 also states that '*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*'.

5.1.3 The Planning Practice Guidance (PPG) which accompanies the NPPF is split into a number of guidance notes. Guidance on soils and agricultural land is found in the Planning Practice Guidance for the Natural Environment 2019 (PPGNE)[16] under the heading *Agricultural Land, Soil and Brownfield Land of Environmental Value*. This advises that the ALC be used to assess the quality of farmland to enable informed choices to be made about its future use within the planning system; and explains that

[16] Planning Practice Guidance for the Natural Environment 2019 (PPGNE) Available at: https://www.gov.uk/guidance/natural-environment. Accessed October 2023

the ALC places agricultural land into five Grades with Grade 3 subdivided into 3a and 3b. The BMV land is defined as Grades 1, 2 and 3a. The PPGNE states that *'Planning policies and decisions should take account of the economic and other benefits of the best and most versatile agricultural land'.*

5.1.4 The PPGNE goes on to state that 'In the circumstances set out in Schedule 4 paragraph (y) of the Development Management Procedure Order 2015[17], Natural England is a statutory consultee: '*a local planning authority must consult Natural England before granting planning permission for large-scale non-agricultural development on best and most versatile land that is not in accord with the development plan'* and refers to Natural England guidance to assessing development proposals on agricultural land, 2018.

5.1.5 Therefore, knowledge of the ALC grading of the Site, is necessary to be able to determine whether the requirements of planning policy are being met.

5.1.6 The PPGNE also recognises soil as an essential natural capital asset that provides important ecosystem services, for example as a growing medium for food, timber and other crops, as a store for carbon and water, as a reservoir of biodiversity and as a buffer against pollution. It also recommends Defra's Code of Practice for the Sustainable Use of Soils on Construction Sites[18] as a useful tool when setting planning conditions for development sites, as it provides advice on the use and protection of soil in construction projects, including the movement and management of soil resources.

Emerging Overarching National Policy Statement for Energy (EN-1) (Published November 2023)[19]

5.1.7 Paragraph 5.11.4 states that "Development of land will affect soil resources, including physical loss of and damage to soil resources, through land contamination and structural damage. Indirect impacts may also arise from changes in the local water regime, organic matter content, soil biodiversity and soil process."

[17] HM Government (2015). Statutory Instrument 2015 No. 595, The Town and Country Planning (Development Management Procedure) (England) Order 2015. Available at https://www.legislation.gov.uk/uksi/2015/595/contents/made. Accessed October 2023

[18] DEFRA (2009) Construction Code of Practice for the Sustainable Use of Soils on Construction Sites. Available at: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/69308/pb13298-code-of-practice-090910.pdf

[19] Department for Energy Security and Net Zero (2023) Overarching National Policy Statement for Energy (EN-1) Draft Update November 2023. Available at: EN-1 Overarching National Policy Statement for Energy (publishing.service.gov.uk)

5.1.8 Paragraph 5.11.13 states that applicants should seek to minimise impacts on soil health and protect and improve soil quality. Paragraph 5.11.14 outlines that the sustainable reuse of soils needs to be carefully considered in line with good practice guidance where large quantities of soil are surplus to requirements.

Emerging National Policy Statement for Renewable Energy Infrastructure (EN-3) (Published November 2023)[20]

5.1.9 Section 2.10 considers the development of Solar Photovoltaic Generation.

5.1.10 Paragraph 2.10.29 states that 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) and Paragraph 2.10.30 states that whilst the development of ground mounted solar arrays is not prohibited on Best and Most Versatile agricultural land, the impacts of such are expected to be considered.

5.1.11 Paragraph 2.10.31 states that at this scale it is likely that applicants' developments may use some agricultural land therefore applicants should explain their choice of site, noting the preference for development to be on suitable brownfield, industrial and low and medium grade agricultural land. Paragraph 2.10.32 discusses that 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, storage, hydrogen electrolysers) to maximise the efficiency of land use.

5.1.12 Paragraph 2.10.33 discusses the Agricultural Land Classification system and states that 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.

5.1.13 Additionally, Paragraph 2.10.34 states that applicants are encouraged to develop and implement a Soil Resources and Management Plan which could help to use and manage soils sustainably and minimise impacts on soil health and potential land contamination and that this should be in line with the ambition set out in the

[20] Department for Energy Security and Net Zero (2023) Overarching National Policy Statement for Renewable Energy Infrastructure (EN-3) November 2023. Available at: National Policy Statement for Renewable Energy Infrastructure (EN-3) (publishing.service.gov.uk)

Environmental Improvement Plan to bring 40% of England's agricultural soils into sustainable management by 2028 and increase this up to 60% by 2030.

5.1.14 Paragraph 2.10.81 states that where soil stripping occurs topsoil and subsoil should be stripped, stored, and replaced separately to minimise soil damage and to provide optimal conditions for site restoration.

5.1.15 Paragraph 2.10.127 refers to the DEFRA Construction code of practice for the sustainable use of soils on construction sites and discusses that mitigation measures should focus on minimising damage to soil that remains in place, and minimising damage to soil being excavated and stockpiled. It also states that mitigation measures should aim to preserve soil health and soil structure to minimise soil carbon loss and maintain water infiltration and soil biodiversity. Mitigation measures for agricultural soils include use of green cover, multispecies cover crops - especially during the winter - minimising compaction and adding soil organic matter.

5.1.16 Paragraph 2.10.145 states that the Secretary of State should take into account the economic and other benefits of the best and most versatile agricultural land and that the Secretary of State should ensure that the applicant has put forward appropriate mitigation measures to minimise impacts on soils or soil resources.

5.2 Local Planning Policy

Central Lincolnshire Local Plan (Adopted 2023)[21]

5.2.1 The Central Lincolnshire Local Plan was adopted in April 2023 and includes the following relevant policies:

- Policy S14: Renewable Energy
- Policy S17: Carbon Sinks
- Policy S67: Best and Most Versatile Agricultural Land
- Policy S68 Sustainable Urban Extensions

5.2.2 One of the objectives of the local plan is "to protect and enhance soil and land resources and quality in Central Lincolnshire".

[21] Central Lincolnshire Local Plan Team and North Kesteven District Council (2023) Central Lincolnshire Local Plan (Adopted 2023). Available at: https://www.n-kesteven.gov.uk/sites/default/files/2023-04/Local%20Plan%20for%20adoption%20Approved%20by%20Committee.pdf. Accessed September 2023

5.2.3 Policy S14 states that proposals for solar thermal or photovoltaics panels and associated infrastructure to be installed on existing property, will be under a presumption in favour of permission unless there is clear and demonstrable significant harm arising. Proposals for ground-based photovoltaics and associated infrastructure, including commercial large scale proposals, will be under a presumption in favour unless:

- There is clear and demonstrable significant harm arising; or
- The proposal is (following a site-specific soil assessment) to take place on Best and Most Versatile (BMV) agricultural land and does not meet the requirements of Policy S67; or
- The land is allocated for another purpose in this Local Plan or other statutory based document (such as a nature recovery strategy or a Local Transport Plan), and the proposal is not compatible with such other allocation.

5.2.4 Policy S14 also states that proposals for ground-based photovoltaics should be accompanied by evidence demonstrating how opportunities for delivering biodiversity net gain will be maximised in the scheme taking account of soil, natural features, existing habitats, and planting proposals accompanying the scheme to create new habitats linking into the nature recovery strategy.

5.2.5 Policy S17 states that existing carbon sinks, such as peat soils, must be protected, and where opportunities exist, they should be enhanced in order to continue to act as a carbon sink. Where development is proposed on land containing peat soils or other identified carbon sinks, the applicant must submit a proportionate evaluation of the impact of the proposal on either the peat soil's carbon content or any other form of identified carbon sink as relevant and in all cases an appropriate management plan must be submitted. There will be a presumption in favour of preservation of peat and other carbon sinks in-situ. Proposals that will result in unavoidable harm to, or loss of, peat soils or other identified carbon sinks will only be permitted if it is demonstrated that:

a) the site is allocated for development; or

b) there is not a less harmful viable option to development of that site. In any such case, the harm caused must be shown to have been reduced to the minimum possible and appropriate, satisfactory provision will be made for the evaluation, recording and interpretation of the peat soils or other form of carbon sink before commencement

of development. For peat soils that are to be removed, the soils must be temporarily stored and then used in a way that will limit carbon loss to the atmosphere. Proposals to enhance peat soils and protect its qualities will be supported.

5.2.6 Policy S67 states that proposals should protect the best and most versatile agricultural land so as to protect opportunities for food production and the continuance of the agricultural economy. With the exception of allocated sites, significant development resulting in the loss and the best and most versatile agricultural land will only be supported if:

a) The need for the proposed development has been clearly established and there is insufficient lower grade land available at that settlement (unless development of such lower grade land would be inconsistent with other sustainability considerations); and

b) The benefits and/or sustainability considerations outweigh the need to protect such land, when taking into account the economic and other benefits of the best and most versatile agricultural land; and

c) The impacts of the proposal upon ongoing agricultural operations have been minimised through the use of appropriate design solutions; and

d) Where feasible, once any development which is supported has ceased its useful life the land will be restored to its former use (this condition will be secured by planning condition where appropriate).

5.2.7 Additionally, Policy S67 states that where proposals are for sites of 1 hectare of larger, which would result in the loss of best and most versatile agricultural land, an agricultural land classification report should be submitted, setting out the justification for such a loss and how criterion b has been met.

5.2.8 Policy S68 states that each new urban extension proposal must, where applicable consider the Agricultural Land Classification of the site, and where higher quality agricultural land exists on one part of the site compared with another, then, if possible, utilise such land (or part of such land) for productive use, such as community orchards and allotments.

5.2.9 One of the objectives of the local plan is “to protect and enhance soil and land resources and quality in Central Lincolnshire”.

South East Lincolnshire Local Plan 2011-2036 (Adopted March 2019)[22]

5.2.10 The South East Lincolnshire Local Plan was adopted in March 2019 and includes the following relevant policies:

- Policy 3: Design of New Development
- Policy 31: Climate Change and Renewable and Low Carbon Energy

5.2.11 Policy 3 (Design of New Development) states that development proposals should demonstrate how issues where they are relevant to the proposal including "the use of locally sourced building materials, minimising the use of water and minimising land take, to protect best and most versatile soils" will be secured.

5.2.12 Policy 31 (Climate Change and Renewable and Low Carbon Energy) on renewable energy states that "with the exception of Wind Energy the development of renewable energy facilities, associated infrastructure and the integration of decentralised technologies on existing or proposed structures will be permitted provided, individually, or cumulatively, there would be no significant harm to agricultural land take".

5.3 Guidance

5.3.1 Natural England Technical Information Note 49 (TIN049)[13], promotes the use of ALC for assessing the quality of agricultural land, to ensure informed choices are made about its future use within the planning system. It advocates the use of soil survey to inform environmental assessment. TIN049 states that where development is proposed on agricultural or other potential crop producing land, if that proposed development is not for agricultural purposes and is not in accordance with the provisions of a development plan, and involves the direct or cumulative loss of more than 20 ha of BMV agricultural land, Natural England must be consulted in accordance with the Schedule 4, paragraph (y) of the Statutory Instrument 2015 No. 595[17].

5.3.2 Natural England's Guide to assessing development proposals on agricultural land[14] sets out the government policies and legislation which developers and local planning authorities (LPA) should refer to when considering development proposals that affect agricultural land and guidance on when Natural England should be consulted on

[22] South East Lincolnshire Joint Strategic Planning Committee (2019) South East Lincolnshire Local Plan 2011 – 2036. Available at: http://www.southeastlincslocalplan.org/wp-content/uploads/2019/02/Local-Plan-text-March-2019.pdf. Accessed October 2023

development proposals. It also provides a detailed explanation of the ALC, information on published ALC resources and explains circumstances in which new detailed surveys may be required. It also explains how ALC data should be used in the assessment of planning decisions. Importantly, the guidance states that the LPA should ensure that development proposals include plans to protect soils; that where insufficient data are available, new surveys should be undertaken to better inform the planning decision; and that these surveys should be carried out by soil scientists or experienced soil specialists. The guidance also summarises the required survey methodology (also presented in TIN049).

6 CONCLUSION

6.1.1 The soils within the Site can be characterised according to 3 main soil associations:

- Beccles 3 (711t) – Heavy textured Clay and Heavy Clay Loam topsoils over slowly permeable Clay/Heavy Clay loam subsoils
- Wallasea 2 (813g) – Heavy textured Silty Clay and Clay topsoils over slowly permeable Silty Clay subsoils
- Ruskington (512c) – Sandy loam/Sandy Clay Loam topsoils (Some Clay/Heavy Clay Loam topsoils in parts – Ickford soils) over sandy Loam, loamy sand/sand subsoils (occurrences of slowly permeable clay lower subsoils in parts).

6.1.2 The main limitation at the Site was Wetness with 58% of the points having Wetness Class (WC) III. The majority of these were identified as either having Beccles 3 711t or Wallasea 2 813g soil associations characteristics which have heavy textured topsoil and heavy textured slowly permeable subsoils. These soils were either classed as Subgrade 3b or 3a (where there were medium textured or calcareous topsoil). Approximately 30% of the surveyed points are WC II and are typically present at points within transition areas between soil types where there are more permeable, better structured subsoils or within soils identified with Ruskington 512c soil association characteristics. These soils were typically Subgrade 3a with occurrences of Grade 2 where there were medium textured/calcareous topsoils. Only 12% of the land had WC I and was typically found where there were well-structured lighter textured subsoils with good drainage. The majority of these had droughtiness as the main limitation due to the reduced available water content of the lighter textured subsoils and the relatively low rainfall for the area.

6.1.3 The Provisional ALC mapping identifies the agricultural land within the Site as Grade 3 (good to moderate quality); with Natural England's BMV Likelihood mapping designating a predicted High Likelihood (> 60 % area BMV) of BMV presence across the whole site. Post 1988 data, collected by the Land Research Associates indicates that the site is predominantly Subgrade 3b with smaller areas of Subgrade 3a and Grade 2.

6.1.4 The ALC survey of the Site showed that it is predominantly Subgrade 3b (moderate quality agricultural land), has a marginally lesser area of Subgrade 3a (good quality) agricultural land and has a small proportion of Grade 2 (very good quality) agricultural land non-agricultural land.

APPENDICES

APPENDIX 1: SOIL PROFILE DESCRIPTIONS AND AGRICULTURAL LAND CLASSIFICATION

APPENDIX 1 Soil Survey Record and ALC

Legend for non-self-explanatory terms:

Horizons - number of different horizons identified within the profile
Type - type of sample, auger core or soil profile pit dug using a spade
Depth - depth to the bottom of the (horizon number) horizon in cm
Texture - C - clay, ZC - silty clay, SC - sandy clay, CL - clay loam, SCL - sandy clay loam, ZCL - silty clay loam, SL - sandy loam, LS - loamy sand, S - sand;
CL and ZCL textures are subdivided into medium (M) and heavy (H) classes according to clay content, as follows: M medium (less than 27 % clay), H heavy (27-35 % clay); F, M and C refer to fine, medium and coarse, respectively, and are subdivisions of S, LS, SL, and SZL textures; O - organic, P - peat or peaty, HP - humified (highly decomposed peat), FP - fibrous peat, SFP - semi-fibrous peat; MZ - marine light silts
Matrix (main) colour - dominant colour of the soil; **Hue** - Munsell colour hue; **Value** - Munsell colour value; **Chroma** - Munsell colour chroma
Mottling - spots and blotches of different colour than the dominant matrix colour
Ped faces - surfaces of the primary soil fragments into which the soil naturally breaks up upon excavating
FeMn - ferri-manganifeours concertions
Biopores - 'yes' if >0.5 % biopores greater than 0.5 mm diameter present (by area)
Stones > 2 cm up to % - maximum percentage of 2 - 6 cm diameter stones
Stones > 6 cm up to % - maximum percentage of > 6 cm diameter stones
Type - H - All hard rocks or stones (those which cannot be scratched with a finger nail); SS - Soft, medium or coarse grained sandstones; SIM - Soft 'weathered' igneous or metamorphic rocks or stones; SL - Soft oolitic or dolomitic limestones; SFS - Soft fine-grained sandstones; SAZ - Soft, argillaceous or silty rocks or stones; CH - Chalk or chalk stones; GRH - Gravel[1] with non-porous (hard) stones; GRS - Gravel[1] with porous stones (mainly soft stone types listed);1 - Gravel with at least 70% rounded stones by volume
Structure type - SG - single grain; GR - granular; SAB - subangular blocky; AB - angular blocky; PR - prismatic; PL - platy; MAS - massive
Dev - Development, how well the structure is developed; W - weak; M - moderate; S - strong
Consistence - Soil consistence (strength); L - loose; VFR - very friable; FR - friable; FIR - firm; VFIR - very firm; EXFIR - extremely firm; EXHD - extremely hard
Gley - depth to gleying
SPL - depth to slowly permeable layer
Wetness Class - classification of the soil according to the depth and duration of waterlogging in the soil profile, the higher the class, the longer and at the shallower depth the soil is wet

Pattern Limitations – Where there are isolated points of ALC Grades on the ALC map, these have been incorporated into surrounding map units. This is indicated in the ALC Map Variation Column.

*Isolated point of Grade 2 – appears as Subgrade 3a on the ALC map

** Isolated point of Subgrade 3a – appears as Subgrade 3b on the ALC map

*** Isolated point of Subgrade 3b – appears as Subgrade 3a on the ALC map

Overall ALC - this part of the table combines results of the classification for each of the limitations

Soil profile descriptions													Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																								
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
1	Core	0	NO	1 2 3 4 5	34 80	SCL C	10YR 10YR	4 5	4 4	0 2	0 7.5YR	0 6	0 8	NO YES	n/a 10YR	n/a 5	n/a 2	0 0	YES NO	0 10	0 5	n/a H	SAB AB	M M	M C	FIR FIR	NO NO	NO YES	NO YES	Stopped on stone	3	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
2	Core	0	NO	1 2 3 4 5	29 68 91	HCL C C	10YR 10YR 10YR	4 4 4	3 4 6	0 10 10	0 10YR 10YR	0 6 6	0 8 8	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 3 3	0 2 2	YES NO NO	5 5 5	0 0 0	H H H	SAB AB AB	M M M	M C M	VFIR VFIR VFIR	NO NO NO	NO YES YES	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
3	Core	0	NO	1 2 3 4 5	29 70	HCL C	10YR 10YR	4 5	3 4	0 15	0 10YR	0 5	0 8	NO YES	n/a 10YR	n/a 5	n/a 3	0 10	YES NO	5 5	0 0	H H	SAB AB	M M	C C	VFIR VFIR	NO YES	NO YES	NO YES	Stopped on stones at 70cm	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
4	Core	0	NO	1 2 3 4 5	30 51 75	HCL C C	10YR 10YR 10YR	4 5 5	3 4 6	0 2 10	0 10YR 10YR	0 5 6	0 6 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 2 10	YES NO NO	0 5 5	0 0 0	n/a H CH	SAB SAB AB	S M M	M C M	FIR VFIR VFIR	NO NO YES	NO YES NO	NO NO NO	Stopped on stones at 75cm	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
5	Pit	0	NO	1 2 3 4 5	38 70	HCL C	10YR 10YR	3 4	2 4	0 10	0 7.5YR	0 5	0 8	NO YES	n/a 10YR	n/a 5	n/a 3	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	S S	M M	VFIR EXFIR	NO YES	NO YES	NO NO	-	2	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
6	Core	0	NO	1 2 3 4 5	29 80 110	C C SCL	10YR 7.5YR 10YR	4 5 5	2 1 4	0 40 40	0 7.5YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	0 0 5	0 0 0	n/a n/a H	SAB AB SAB	M M M	M M M	FIR FIR FIR	NO NO NO	NO YES NO	NO NO NO	-	2	1	1	3a	2	**3a**	Wetness		
7	Pit	0	NO	1 2 3 4 5	35 50	SCL SCL	10YR 10YR	3 4	3 4	0 2	0 7.5YR	0 5	0 8	NO YES	n/a 10YR	n/a 5	n/a 3	0 10	YES NO	10 5	5 0	H H	SAB AB	S W	M C	VFIR EXFIR	NO NO	NO YES	NO YES	-	3	2	2	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
8	Core	0	NO	1 2 3 4 5	30 50 90	HCL MCL SCL	10YR 10YR 10YR	4 5 6	3 3 3	0 2 2	0 10YR 10YR	0 5 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	0 0 0	0 0 10	n/a n/a H	SAB SAB SAB	M M M	F C M	FR FIR FR	NO NO NO	NO YES YES	NO NO NO	-	2	1	1	3a	2	**3a**	Wetness		
9	Core	0	NO	1 2 3 4 5	29 50 80	HCL C C	10YR 10YR 10YR	4 6 6	4 3 3	0 10 20	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 15	YES YES NO	0 0 0	0 0 10	n/a n/a H	SAB SAB AB	M M W	M M C	FIR FIR FIR	NO NO NO	NO YES YES	NO NO YES	Stopped on stone	3	1	1	3b	3a	**3b**	Wetness		
10	Core	0	NO	1 2 3 4 5	28 43 80	HCL HCL C	10YR 10YR 10YR	4 6 6	3 3 3	0 2 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 2	YES NO NO	0 0 0	0 0 10	n/a n/a H	SAB SAB AB	M M M	M C C	FIR FIR VFIR	NO NO NO	NO YES YES	NO NO YES	Stopped on stone	3	1	1	3b	3a	**3b**	Wetness		
11	Core	0	NO	1 2 3 4 5	34 100	HCL C	10YR 10YR	3 6	3 3	0 40	0 10YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	2 0	YES NO	0 0	0 0	n/a n/a	SAB AB	M M	M C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	2	**3b**	Wetness		
12	Pit	0	NO	1 2 3 4 5	35 45 85	MSL LMS CS	10YR 10YR 10YR	3 5 6	2 4 4	0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES YES NO	15 15 35	5 10 15	H H H	SAB SAB GR	M W M	M F F	FR VFR FR	NO YES YES	NO NO NO	NO NO NO	Chalk stones in both subsoils	1	1	3a	1	3b	**3b**	Droughti-ness		
13	Core	0	NO	1 2 3 4 5	35 50 110	HCL C C	10YR 10YR 10YR	4 4 5	3 6 1	0 10 40	0 7.5YR 10YR	0 5 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 0 0	YES NO NO	10 0 0	5 0 0	H n/a n/a	SAB AB AB	M M M	M C M	FR FIR VFIR	YES YES YES	NO YES YES	YES YES NO	-	3	1	2	3a	2	**3a**	Wetness		
14	Core	0	NO	1 2 3 4 5	30 55 80	HCL MCL C	10YR 10YR 10YR	3 4 5	2 4 1	0 0 40	0 0 7.5YR	0 0 5	0 0 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 20	YES NO NO	0 0 5	0 0 0	n/a n/a H	SAB SAB AB	S S S	M M C	VFIR VFIR EXFIR	NO NO YES	NO NO YES	NO NO YES	Evidence of sand at depth	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
15	Core	0	NO	1 2 3 4 5	29 81	HCL C	10YR 10YR	4 6	4 4	0 40	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 10	0 0	n/a H	SAB AB	M M	M M	FIR FIR	NO YES	NO YES	NO NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
16	Core	0	NO	1 2 3 4 5	31 60 90	HCL HCL C	10YR 10YR 10YR	4 6 6	3 3 2	0 15 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M M W	M M C	FIR FIR FIR	NO NO NO	NO YES YES	NO NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	

Soil profile descriptions														Soil profile descriptions continued																							ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																							
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
17	Core	0	NO	1 2 3 4 5	26 70	C SCL	10YR 10YR	4 6	3 4	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a H	SAB AB	M M	M C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
18	Core	0	NO	1 2 3 4 5	35 75	C C	10YR 10YR	4 5	3 2	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H CH	SAB AB	M S	M C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
19	Core	0	NO	1 2 3 4 5	26 65	C C	10YR 10YR	4 5	3 4	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 10	YES NO	0 10	0 0	n/a H	SAB AB	M S	M C	FIR VFIR	NO YES	NO NO	NO YES	H2 very stony.	2	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
20	Core	0	NO	1 2 3 4 5	20 55 80 120	HCL HCL C C	10YR 10YR 10YR 10YR	4 4 5 4	2 1 1 1	0 10 40 20	0 10YR 10YR 10YR	0 6 6 7	0 8 8 8	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	0 2 10 2	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB SAB SAB PR	M W W W	M M M C	FIR FIR VFIR VFIR	NO NO YES YES	NO YES YES NO	NO NO NO NO	Chalk only from 80 cm	2	1	1	3a	2	**3a**	Wetness		
21	Core	0	NO	1 2 3 4 5	30 55 75 110	SCL SCL MSL C	10YR 10YR 10YR 10YR	4 5 5 4	2 4 6 1	0 0 0 20	0 0 0 10YR	0 0 0 6	0 0 0 8	NO NO NO YES	n/a n/a n/a 10YR	n/a n/a n/a 5	n/a n/a n/a 2	0 0 0 0	YES NO YES NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB SAB GR AB	S S S W	F F F C	FR FR FR VFIR	NO NO NO YES	NO NO NO YES	NO NO NO YES	-	2	1	1	2	2	**2**	Wetness Droughti-ness		
22	Core	0	NO	1 2 3 4 5	40 70 120	HCL C C	10YR 10YR 10YR	3 5 4	3 1 1	0 20 20	0 10YR 10YR	0 6 6	0 8 6	NO NO YES	n/a n/a 10YR	n/a n/a 4	n/a n/a 6	0 2 2	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB SAB AB	M M W	M M C	FIR FIR FIR	YES NO NO	NO YES YES	NO NO YES	-	2	1	1	2	1	**2**	Wetness		
23	Core	0	NO	1 2 3 4 5	35 60 110	HCL C C	10YR 10YR 10YR	4 4 6	2 6 1	0 0 40	0 0 10YR	0 0 6	0 0 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB AB	M M M	M M C	FIR FIR FIR	YES YES YES	NO NO YES	NO NO YES	Deep mottled sub2. Less pronounced h3	2	1	1	2	1	**2**	Wetness		
24	Core	0	NO	1 2 3 4 5	35 50 120	HCL SCL C	10YR 10YR 5Y	4 5 5	2 6 1	0 0 40	0 0 10YR	0 0 6	0 0 8	NO NO YES	n/a n/a 10YR	n/a n/a 5	n/a n/a 4	0 0 0	YES YES NO	5 5 0	0 0 0	H H n/a	SAB SAB AB	M S M	M M C	FIR FR VFIR	NO YES YES	NO NO YES	NO NO YES	-	2	1	1	3a	2	**3a**	Wetness		
25	Core	0	NO	1 2 3 4 5	30 55 74	SCL MSL MSZL	10YR 10YR 10YR	4 4 4	2 4 1	0 2 15	0 7.5YR 10YR	0 5 4	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES YES YES	15 5 0	10 5 0	H H n/a	SAB SAB AB	M M S	M M M	FIR FIR EXFIR	NO NO YES	NO NO YES	NO NO NO	-	1	1	3a	1	3a	**3a**	Topsoil stoniness Droughti-ness		
26	Core	0	NO	1 2 3 4 5	26 60 81	SCL C SC	7.5YR 10YR 10YR	4 6 6	3 3 3	0 15 20	0 7.5YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	0 0 10	0 0 0	n/a n/a H	SAB SAB AB	S S W	F F C	FR FR VFIR	NO NO NO	NO YES YES	NO NO YES	stopped on hard clay	2	1	1	2	2	**2**	Wetness Droughti-ness		
27	Core	0	NO	1 2 3 4 5	28 50 65 81	SCL HCL HCL MSL	10YR 10YR 10YR 10YR	3 7 6 7	4 4 2 3	0 20 40 40	0 7.5YR 7.5YR 10YR	0 6 6 7	0 8 8 8	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	0 0 2 2	YES NO NO NO	0 0 0 10	0 0 0 0	n/a n/a n/a H	SAB SAB AB GR	S M M M	F M C F	FR FIR FIR FR	NO NO YES YES	NO YES YES NO	NO NO YES NO	-	3	1	1	3a	2	**3a**	Wetness		
28	Core	0	NO	1 2 3 4 5	40 85	HCL MCL	10YR 10YR	4 5	2 3	0 40	0 10YR	0 5	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	2 0	YES NO	0 0	0 0	n/a n/a	SAB AB	M M	M M	FIR FIR	NO YES	NO YES	NO NO	-	1	1	1	2	3a	**3a**	Droughti-ness		
29	Core	0	NO	1 2 3 4 5	35 45 70 90	C C C C	10YR 10YR 10YR 10YR	4 6 5 4	2 1 1 1	0 40 20 20	0 10YR 10YR 5YR	0 6 5 4	0 6 6 4	NO NO YES YES	n/a n/a 5YR 5YR	n/a n/a 5 5	n/a n/a 4 6	2 2 0 0	YES NO NO NO	0 0 5 5	0 0 0 0	n/a n/a CH CH	SAB SAB AB AB	W W S M	M M C M	FIR FIR VFIR FR	NO NO YES YES	NO YES YES NO	NO NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
30	Core	0	NO	1 2 3 4 5	25 55 80	C C C	10YR 10YR 10YR	5 5 5	2 1 1	0 20 20	0 5YR 7.5YR	0 5 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	0 5 5	0 0 0	n/a H CH	SAB AB AB	S M M	M C C	FIR VFIR VFIR	NO YES YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
31	Core	0	NO	1 2 3 4 5	25 62 81 98	C C C C	10YR 10YR 10YR 10YR	4 5 6 5	3 3 1 1	0 10 15 10	0 10YR 10YR 10YR	0 5 6 6	0 6 8 6	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	0 2 20 0	YES NO NO NO	0 5 5 5	0 0 0 0	n/a H CH CH	SAB SAB AB AB	M W W M	M C C M	VFIR VFIR VFIR VFIR	NO NO YES YES	NO YES YES YES	NO YES YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
32	Core	0	NO	1 2 3 4 5	28 45 100	MCL MCL SCL	10YR 10YR 10YR	4 5 6	4 3 2	0 15 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 10 0	YES NO NO	0 10 0	0 0 0	n/a H n/a	SAB AB AB	M M M	M C C	FIR FIR FIR	NO NO NO	NO YES YES	NO YES YES	-	3	1	1	3a	2	**3a**	Wetness		

Soil profile descriptions														Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																									
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations								
33	Core	0	NO	1	30	MSL	7.5YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	10	5	H	GR	S	F	FR	NO	NO	NO	Stopped on stone sany laom	1	1	2	1	2	**2**	Topsoil stoniness Droughti-ness								
				2	53	SCL	10YR	3	6	10	7.5YR	6	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	F	FR	NO	NO	NO																	
				3	90	SCL	10YR	4	4	15	10YR	6	6	NO	n/a	n/a	n/a	10	NO	10	5	H	GR	M	F	FR	NO	NO	NO																	
				4																																											
				5																																											
34	Core	0	NO	1	35	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	S	M	FIR	YES	NO	NO	Chalk from 75cm	1	1	1	2	1	**2**	Wetness								
				2	55	MCL	10YR	5	6	0	0	0	0	NO	n/a	n/a	n/a	10	NO	0	0	n/a	SAB	M	M	FIR	NO	NO	NO																	
				3	75	FSL	10YR	6	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	S	F	FR	NO	NO	NO																	
				4	110	C	10YR	5	1	20	10YR	6	8	YES	10YR	4	6	2	NO	0	0	n/a	AB	M	M	FIR	NO	YES	NO																	
				5																																											
35	Core	0	NO	1	40	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	Refusal on stone	2	1	1	3a	2	**3a**	Wetness								
				2	55	HCL	10YR	5	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FIR	NO	NO	NO																	
				3	85	C	10YR	5	2	15	10YR	6	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	FIR	YES	YES	YES																	
				4	95	C	10YR	5	1	20	10YR	6	8	NO	n/a	n/a	n/a	2	NO	5	0	H	AB	M	C	VFIR	YES	YES	NO																	
				5																																											
36	Core	0	NO	1	28	HCL	10YR	3	4	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	AB	M	M	FIR	NO	NO	NO	Calcareous lower sub	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				2	48	C	10YR	4	6	0	0	0	0	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	M	C	VFIR	YES	NO	NO																	
				3	90	C	10YR	5	4	10	7.5R	4	6	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	M	C	VFIR	YES	NO	YES																	
				4																																											
				5																																											
37	Core	0	NO	1	25	HCL	10Y	3	3	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	YES	NO	NO	No obvious mottling in upper sub. chalk in lower sub	3	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				2	52	C	10YR	5	4	2	7.5YR	4	6	YES	10YR	6	3	0	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	YES																	
				3	80	C	10YR	5	6	2	7.5YR	4	6	YES	10YR	5	1	2	NO	5	0	H	AB	M	C	VFIR	YES	YES	YES																	
				4																																											
				5																																											
38	Pit	0	NO	1	30	SCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FIR	NO	NO	NO	Stones restricting at depth	2	1	1	2	3b	**2**	Wetness Droughtiness	Soil profile deeper than recorded - not limited by droughtiness only								
				2	45	MCL	10YR	4	3	0	0	0	0	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	NO	YES																	
				3	60	C	10YR	5	1	20	10YR	5	8	NO	n/a	n/a	n/a	15	NO	0	0	n/a	AB	S	C	FIR	NO	YES	YES																	
				4																																											
				5																																											
39	Pit	0	NO	1	35	SCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	5	H	SAB	M	M	FIR	NO	NO	NO	Some chalk stones in h2	3	1	2	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				2	60	SC	10YR	4	4	2	10YR	5	6	YES	10YR	6	3	0	NO	10	5	H	AB	M	C	FIR	YES	YES	YES																	
				3	80	C	10YR	5	4	10	10YR	5	6	YES	10YR	5	1	0	NO	15	5	CH	AB	M	C	VFIR	YES	YES	YES																	
				4																																											
				5																																											
40	Core	0	NO	1	36	HCL	10YR	4	3	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness								
				2	75	C	10YR	6	3	40	10YR	6	8	NO	n/a	n/a	n/a	15	NO	0	0	n/a	AB	W	C	VFIR	NO	YES	YES																	
				3	95	LMS	10YR	6	4	40	10YR	6	8	NO	n/a	n/a	n/a	15	NO	0	0	n/a	GR	W	F	FR	NO	YES	NO																	
				4																																											
				5																																											
				1	35	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	10	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO																	
				2	55	C	10YR	5	3	40	10YR	5	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	W	M	FIR	NO	NO	NO																	
41	Core	0	NO	3	75	C	10YR	6	1	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	CH	PR	M	C	FIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness								
				4	95	C	2.5Y	5	1	20	10YR	6	6	NO	n/a	n/a	n/a	0	NO	10	0	CH	AB	M	M	VFIR	YES	YES	NO																	
				5																																											
				1	35	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO																	
				2	55	C	10YR	5	1	20	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	FIR	NO	YES	NO																	
42	Core	0	NO	3	75	C	10YR	6	1	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	CH	PR	M	C	FIR	YES	YES	YES	Refusal on stone	3	1	1	3b	3a	**3b**	Wetness								
				4	95	C	2.5Y	5	1	20	10YR	6	6	NO	n/a	n/a	n/a	0	NO	10	0	CH	AB	M	M	VFIR	YES	YES	NO																	
				5																																											
				1	35	C	10YR	5	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO																	
				2	60	C	10YR	5	2	0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	W	M	FIR	NO	NO	NO																	
43	Core	0	NO	3	85	C	10YR	5	1	40	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	H	PR	W	M	FIR	YES	YES	YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				4	100	C	10YR	6	1	20	10YR	6	8	NO	n/a	n/a	n/a	0	NO	10	0	CH	AB	M	M	VFIR	YES	YES	NO																	
				5																																											
				1	35	C	10YR	5	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO																	
				2	60	C	10YR	5	1	20	10YR	5	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	W	M	FIR	NO	YES	NO																	
44	Core	0	NO	3	80	C	10YR	5	1	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	CH	PR	W	M	FIR	YES	YES	YES	-	2	1	1	3a	3a	**3a**	Wetness Droughti-ness								
				4	100	C	5Y	5	1	40	10YR	7	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	F	VFIR	YES	NO	NO																	
				5																																											
				1	22	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	5	CH	SAB	S	M	FIR	YES	NO	NO																	
				2	69	C	10YR	4	3	2	10YR	5	6	YES	10YR	6	3	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES																	
45	Core	0	NO	3	82	C	10YR	4	4	10	10YR	5	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	M	VFIR	YES	NO	NO	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				4																																											
				5																																											
				1	35	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO																	
				2	85	SCL	10YR	5	6	10	10YR	6	8	YES	10YR	6	4	2	NO	0	0	n/a	SAB	M	M	FR	NO	YES	NO																	
46	Core	0	NO	3	110	C	10YR	5	1	40	10YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	CH	AB	M	C	FIR	YES	YES	NO	-	2	1	1	3a	1	**3a**	Wetness								
				4																																											
				5																																											
				1	35	SCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	5	H	SAB	S	M	FR	NO	NO	NO																	
				2	65	HCL	10YR	5	4	10	10YR	5	8	NO	n/a	n/a	n/a	2	YES	5	0	H	AB	M	M	FIR	NO	NO	NO																	
47	Pit	0	NO	3	100	C	10YR	5	1	40	10YR	5	6	NO	n/a	n/a	n/a	0	NO	5	0	CH	AB	M	C	FIR	YES	YES	YES	Some chalk stones in h2	2	1	2	2	3a	**3a**	Droughti-ness								
				4																																											
				5																																											
				1	35	SCL	7.5YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO																	
				2	65	HCL	7.5YR	5	1	2	7.5YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	C	FIR	NO	YES	NO																	
48	Core	0	NO	3	100	C	10YR	6	2	15	10YR	6	8	NO	n/a	n/a	n/a	10	NO	0	0	n/a	AB	W	C	VFIR	NO	YES	YES	-	2	1	1	2	3a	**3a**	Droughti-ness								
				4																																											
				5																																											

Soil profile descriptions							Soil profile descriptions continued																									ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																	
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
49	Core	0	NO	1 2 3 4 5	30 58 80	HCL C C	10YR 10YR 10YR	3 5 5	4 4 6	0 10 10	0 10YR 10YR	0 5 5	0 8 8	NO YES YES	n/a 10YR 10YR	n/a 6 6	n/a 2 2	0 2 2	YES NO NO	0 5 0	0 0 5	n/a CH H	SAB AB AB	M M M	M C M	FIR VFIR VFIR	YES NO YES	NO YES YES	NO YES NO	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
50	Pit	0	NO	1 2 3 4 5	35 50 80	HCL C C	10YR 10YR 10YR	3 5 6	4 4 1	0 20 40	0 10YR 7.5YR	0 5 6	0 8 8	NO YES NO	n/a 10YR n/a	n/a 6 n/a	n/a 2 n/a	0 0 2	YES YES NO	10 5 10	5 0 5	H CH H	SAB AB AB	S S M	C C C	FIR VFIR VFIR	YES YES YES	NO YES YES	NO NO YES	-	3	1	2	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
51	Core	0	NO	1 2 3 4 5	15 35 60 80	HCL C C FSL	10YR 10YR 10YR 7.5YR	4 4 5 5	3 3 6 6	0 2 2 0	0 10YR 10YR 0	0 5 5 0	0 6 8 0	NO NO YES NO	n/a n/a 10YR n/a	n/a n/a 6 n/a	n/a n/a 3 n/a	0 2 2 0	YES NO NO NO	0 0 5 0	0 0 0 0	n/a n/a H n/a	SAB SAB AB SAB	M W W S	M C C F	FIR VFIR VFIR VFR	NO NO YES YES	NO NO YES NO	NO YES YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
52	Core	0	NO	1 2 3 4 5	25 44 80	HCL C C	10YR 10YR 10YR	4 5 6	3 3 3	0 10 15	0 10YR 10YR	0 5 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 6 n/a	n/a 3 n/a	0 2 2	YES NO NO	0 5 5	0 0 0	n/a H CH	SAB AB AB	M W M	M C C	FIR VFIR VFIR	NO YES NO	NO YES YES	NO YES YES	Chalk in h3	3	1	1	3b	3a	**3b**	Wetness		
53	Core	0	NO	1 2 3 4 5	35 65	HCL SCL	10YR 10YR	3 4	1 4	0 2	0 7.5YR	0 5	0 8	NO YES	n/a 10YR	n/a 6	n/a 3	15 15	YES NO	0 0	0 0	n/a n/a	SAB AB	S M	M M	VFIR FIR	NO NO	NO YES	NO NO	Stones restricting at depth	2	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
54	Core	0	NO	1 2 3 4 5	35 70	HCL HCL	10YR 10YR	4 4	3 3	0 10	0 10YR	0 5	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 35	0 10	n/a H	SAB AB	M W	M C	FIR FIR	NO NO	NO NO	NO YES	-	2	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
55	Core	0	YES	1 2 3 4 5	32 57 100	SCL C SC	10YR 10YR 10YR	3 5 5	3 3 3	0 15 40	0 10YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 0	0 0 15	n/a n/a H	SAB AB AB	S M M	F C M	FIR FIR FIR	NO YES YES	NO YES YES	NO YES NO	-	3	1	1	3a	2	**3a**	Wetness		
56	Core	0	NO	1 2 3 4 5	30 60 81	SCL SCL SC	10YR 10YR 10YR	4 5 5	3 3 3	0 20 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	5 10 35	0 0 5	H H H	AB AB AB	S M S	F C F	FR FIR FR	NO NO YES	NO YES YES	NO YES NO	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
57	Core	0	NO	1 2 3 4 5	34 75 90	C C MS	10YR 10YR 10YR	3 4 6	4 2 3	0 20 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	AB AB SG	W M M	F C F	VFIR FIR FR	NO YES YES	NO YES YES	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
58	Core	0	NO	1 2 3 4 5	32 65 100	C C C	10YR 10YR 10YR	5 5 5	3 1 1	0 40 40	0 10YR 10YR	0 6 6	0 8 8	YES NO NO	10YR n/a n/a	5 n/a n/a	2 n/a n/a	0 2 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M W W	C M C	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
59	Core	0	NO	1 2 3 4 5	30 65 100	C C C	10YR 10YR 2.5Y	5 5 4	2 1 1	0 40 20	0 10YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 10	0 0 5	n/a n/a CH	SAB SAB AB	W M S	M M C	FIR FIR FIR	NO NO YES	NO YES YES	NO NO YES	-	2	1	1	3a	2	**3a**	Wetness		
60	Pit	0	NO	1 2 3 4 5	30 50 74	HCL C C	10YR 10YR 10YR	4 4 6	2 1 1	0 2 40	0 10YR 10YR	0 5 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 15 0	0 5 0	n/a H n/a	SAB AB AB	S S M	C C C	FIR FIR VFIR	NO YES YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
61	Core	0	NO	1 2 3 4 5	28 75	C C	10YR 10YR	4 5	2 1	0 20	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a CH	SAB AB	S M	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
62	Core	0	NO	1 2 3 4 5	30 50 90	C C C	10YR 10YR 10YR	4 4 6	2 1 1	0 2 40	0 10YR 10YR	0 5 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB AB AB	S S M	C C C	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
63	Core	0	NO	1 2 3 4 5	29 58 82	HCL C C	10YR 10YR 5YR	4 4 4	2 4 2	0 2 2	0 10YR 10YR	0 5 5	0 6 6	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 2 2	YES NO NO	5 0 5	0 0 0	CH n/a H	SAB AB AB	M W W	M C VC	VFIR VFIR VFIR	NO NO NO	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
64	Core	0	NO	1 2 3 4 5	30 60 90	C C C	10YR 10YR 10YR	3 5 5	4 6 3	0 2 20	0 7.5YR 7.5YR	0 5 4	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB SAB AB	M M M	M M C	FIR FIR VFIR	NO NO YES	NO NO YES	NO NO YES	-	2	1	1	3a	2	**3a**	Wetness		

Soil profile descriptions											Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																				
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
65	Core	0	NO	1 2 3 4 5	24 48 80	SCL HCL C	10YR 10YR 10YR	4 4 5	3 4 4	0 0 10	0 0 10YR	0 0 6	0 0 6	NO NO YES	n/a n/a 10YR	n/a n/a 5	n/a n/a 2	0 0 2	YES NO NO	0 5 5	0 0 0	n/a H CH	SAB SAB AB	M M M	F M C	FR FIR VFIR	NO NO YES	NO NO YES	NO NO YES	Chalk h3	2	1	1	2	3a	**2**	Wetness Droughtiness	Soil profile deeper than recorded - not limited by droughtiness	*
66	Core	0	NO	1 2 3 4 5	34 80	HCL C	10YR 10YR	4 5	3 6	0 10	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	M M	M C	FIR VFIR	NO YES	NO NO	NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
67	Core	0	NO	1 2 3 4 5	22 36 59 80	HCL HCL C C	10YR 10YR 10YR 10YR	4 4 5 5	3 3 6 6	0 0 10 2	0 0 10YR 10YR	0 0 6 6	0 0 8 8	NO NO YES NO	n/a n/a 10YR n/a	n/a n/a 6 n/a	n/a n/a 3 n/a	0 0 2 2	YES NO NO NO	0 0 0 5	0 0 0 0	n/a n/a n/a CH	SAB SAB AB AB	M W W M	M C C M	FIR VFIR VFIR VFIR	NO NO YES YES	NO NO YES NO	NO NO YES NO	Chalk in h4	3	1	1	3b	3a	**3b**	Wetness		
68	Core	0	NO	1 2 3 4 5	30 50 80	HCL C C	10YR 10YR 10YR	3 5 6	4 3 1	0 40 40	0 7.5YR 7.5YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES YES NO	5 5 5	0 0 0	H SFS H	SAB AB AB	S S M	C VC C	FIR EXFIR VFIR	NO YES YES	NO YES YES	NO NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
69	Core	0	NO	1 2 3 4 5	35 55 80	HCL C C	10YR 10YR 10YR	3 5 6	4 3 1	0 40 40	0 7.5YR 10YR	0 5 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES YES NO	10 5 5	5 0 0	H SFS H	SAB AB AB	S S M	C VC C	FIR EXFIR VFIR	NO YES YES	NO YES YES	NO NO YES	-	3	1	2	3b	3a	**3b**	Wetness		
70	Core	0	NO	1 2 3 4 5	30 70	HCL C	10YR 10YR	3 7	4 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 10	0 0	H H	SAB AB	S S	C VC	FIR EXFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
71	Core	0	NO	1 2 3 4 5	30 55 80	HCL C C	10YR 10YR 10YR	3 4 6	1 4 1	0 2 40	0 7.5YR 10YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	S S S	M C C	VFIR VFIR VFIR	NO NO YES	NO NO YES	NO YES YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
72	Pit	0	NO	1 2 3 4 5	28 60 75	MCL MSL SCL	10YR 10YR 10YR	4 4 4	2 3 6	0 0 10	0 0 7.5YR	0 0 5	0 0 8	NO NO YES	n/a n/a 10YR	n/a n/a 5	n/a n/a 3	0 0 0	YES NO NO	5 10 0	5 0 0	H H n/a	SAB SAB SAB	M M M	M M F	FIR FIR FIR	NO NO NO	NO NO YES	NO NO NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
73	Core	0	NO	1 2 3 4 5	35 65 90	HCL MCL SCL	10YR 10YR 10YR	4 6 6	2 4 4	0 15 2	0 10YR 10YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 2 0	YES NO NO	0 5 15	0 0 5	n/a CH CH	SAB SAB SAB	M M M	M M M	FIR FIR VFIR	NO YES YES	NO YES YES	NO NO NO	-	2	1	1	3a	2	**3a**	Wetness		
74	Core	0	NO	1 2 3 4 5	30 55 75 100	HCL C MSL SCL	10YR 10YR 10YR 10YR	4 5 5 6	2 3 6 4	0 15 0 2	0 10YR 0 10YR	0 5 0 6	0 6 0 8	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	0 0 0 0	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB SAB GR GR	M M S S	M M M M	FIR FIR FR FIR	NO NO NO YES	NO YES NO YES	NO NO NO NO	-	2	1	1	3a	1	**3a**	Wetness		
75	Core	0	NO	1 2 3 4 5	30 55 80	HCL C C	10YR 10YR 10YR	4 5 4	2 3 1	0 20 40	0 10YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 10	YES NO NO	10 10 10	5 5 5	H H H	SAB AB SAB	M M M	M M M	FIR FIR VFIR	NO NO NO	NO YES YES	NO NO NO	-	2	1	2	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
76	Core	0	NO	1 2 3 4 5	40 60 100	HCL C C	10YR 10YR 10YR	4 4 5	2 4 2	0 10 40	0 10YR 10YR	0 5 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 2 0	YES NO NO	0 5 5	0 0 0	n/a H CH	SAB AB AB	S M M	C C M	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES NO	More chalk stones lower in h3	2	1	1	3a	2	**3a**	Wetness		
77	Core	0	NO	1 2 3 4 5	30 50 90	C C C	10YR 10YR 10YR	4 4 5	2 4 1	0 10 40	0 10YR 10YR	0 5 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 0 0	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB SAB AB	S M M	M M C	FIR FIR VFIR	NO NO YES	NO YES YES	NO NO YES	More chalk stones from 80cm	3	1	1	3b	2	**3b**	Wetness		
78	Core	0	NO	1 2 3 4 5	35 70 100	C C C	10YR 10YR 10YR	4 5 5	3 4 1	0 20 40	0 10YR 10YR	0 6 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 0 0	YES NO NO	0 0 5	0 0 0	n/a n/a CH	AB AB AB	M M M	C C C	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
79	Core	0	NO	1 2 3 4 5	30 90	C C	10YR 10YR	4 5	2 1	0 20	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a CH	SAB AB	S M	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		

Soil profile descriptions							Soil profile descriptions continued																									ALC for areas represented by individual survey points									
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																		
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
81	Core	0	NO	1 2 3 4 5	31 68	HCL C	10YR 10YR	4 4	2 4	0 10	0 10YR	0 5	0 6	NO YES	n/a 10YR	n/a 5	n/a 2	0 2	YES NO	0 5	0 0	n/a H	SAB AB	M W	M C	FIR VFIR	NO YES	NO YES	NO YES	Also chalk stone in h2, stopped on stones	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
82	Core	0	NO	1 2 3 4 5	31 65 110	HCL HCL C	10YR 10YR 10YR	4 5 6	4 6 4	0 10 15	0 10YR 10YR	0 6 6	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 10 2	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB SAB AB	S M M	F C C	FIR FIR FIR	NO NO YES	NO YES YES	NO NO YES	-	2	1	1	3a	2	**3a**	Wetness		
83	Core	0	NO	1 2 3 4 5	30 55 70	HCL HCL C	10YR 10YR 10YR	4 5 6	4 6 4	0 2 0	0 7.5YR 0	0 6 0	0 6 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB AB	M M M	M M C	FIR FIR FIR	NO NO NO	NO NO NO	NO NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
84	Core	0	NO	1 2 3 4 5	28 53 95	HCL C C	7.5YR 10YR 10YR	4 5 6	3 2 6	0 15 40	0 7.5YR 7.5YR	0 5 5	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	5 0 5	0 0 0	H n/a SL	SAB AB AB	M M M	M C C	FIR FIR FIR	NO NO YES	NO YES NO	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
85	Core	0	NO	1 2 3 4 5	28 65 100	HCL HCL C	10YR 10YR 10YR	4 5 6	4 3 4	0 15 20	0 10YR 7.5YR	0 6 6	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 2 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M M W	M C C	FIR VFR FIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	2	**3b**	Wetness		
86	Core	0	NO	1 2 3 4 5	25 40 70	HCL C C	10YR 10YR 10YR	3 5 7	4 3 1	0 40 40	0 7.5YR 10YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES YES NO	5 5 10	0 0 0	H SFS H	SAB AB AB	S S S	C VC VC	FIR EXFIR EXFIR	NO YES YES	NO YES YES	NO NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
87	Core	0	NO	1 2 3 4 5	30 40 75	HCL C C	10YR 10YR 10YR	3 5 7	4 3 1	0 40 40	0 7.5YR 10YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES YES NO	5 5 10	0 0 0	H SFS H	SAB AB AB	S S S	C VC VC	FIR EXFIR EXFIR	NO YES YES	NO YES YES	NO NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
88	Pit	0	NO	1 2 3 4 5	30 40 80	SCL C C	10YR 10YR 10YR	3 4 6	2 4 1	0 0 40	0 0 10YR	0 0 5	0 0 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES YES NO	10 5 5	0 0 0	H H H	SAB AB AB	M S S	C M C	FIR VFIR VFIR	NO NO NO	NO NO YES	NO NO YES	-	2	1	2	2	3a	**2**	Wetness Droughtiness	Soil profile deeper than recorded - not limited by droughtiness only	
89	Core	0	NO	1 2 3 4 5	40 75 90 105	SCL SCL C FS	10YR 10YR 10YR 10YR	4 6 5 6	2 6 1 4	0 0 20 0	0 0 10YR 0	0 0 6 0	0 0 8 0	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	0 0 2 0	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB SAB AB GR	M M M S	M M C F	FIR FIR FIR FR	NO YES YES YES	NO NO YES NO	NO NO YES NO	-	2	1	1	2	1	**2**	Wetness		
90	Core	0	NO	1 2 3 4 5	30 70	SCL C	10YR 10YR	4 5	1 3	0 20	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a H	SAB AB	S M	C C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
91	Core	0	NO	1 2 3 4 5	35 65 100	SCL HCL SCL	10YR 10YR 10YR	4 5 5	2 6 6	0 2 0	0 10YR 0	0 6 0	0 8 0	NO YES NO	n/a 10YR n/a	n/a 6 n/a	n/a 4 n/a	0 0 0	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB SAB GR	M M S	M M F	FIR FIR FR	NO YES NO	NO NO NO	NO NO NO	-	2	1	1	2	1	**2**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
92	Core	0	NO	1 2 3 4 5	35 100	SCL MCL	10YR 10YR	4 6	2 3	2 40	10YR 10YR	6 6	6 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 10	0 0	n/a CH	SAB SAB	M S	M M	FIR FR	NO YES	YES YES	NO NO	-	2	1	1	2	1	**2**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
93	Core	0	NO	1 2 3 4 5	34 75 100	SCL C MCL	10YR 10YR 10YR	3 5 5	3 2 3	0 40 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	0 10 0	0 0 10	n/a H H	AB AB AB	M M S	M C F	FIR FIR FIR	NO YES YES	NO YES YES	NO YES NO	-	3	1	1	3a	2	**3a**	Wetness		
94	Core	0	NO	1 2 3 4 5	35 65 85	C C C	10YR 10YR 10YR	4 5 4	2 3 2	10 20 40	10YR 10YR 10YR	5 5 5	4 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 2 0	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB SAB AB	M W S	M M C	FIR FIR VFIR	NO NO YES	NO YES YES	NO NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
95	Core	0	NO	1 2 3 4 5	35 55 100	C C SCL	10YR 10YR 10YR	4 4 5	2 4 6	0 20 0	0 10YR 0	0 5 0	0 8 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB SAB	M M M	M C M	FIR VFIR FIR	NO NO NO	NO NO NO	NO YES NO	-	2	1	1	3a	2	**3a**	Wetness		
96	Core	0	NO	1 2 3 4 5	35 62 80	HCL C SC	10YR 10YR 10YR	3 4 5	2 2 6	0 10 0	0 10YR 0	0 5 0	0 6 0	NO NO YES	n/a n/a 10YR	n/a n/a 5	n/a n/a 1	0 2 0	YES NO NO	0 5 0	0 0 0	n/a H n/a	SAB AB SAB	M W M	M C F	VFIR VFIR VFIR	NO NO NO	NO YES NO	NO YES NO	H3 had sand granules mixed in with firm clay pieces and some chalk	3	1	1	3b	3a	**3b**	Wetness		

Soil profile descriptions							Soil profile descriptions continued																											ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																				
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
97	Core	0	NO	1 2 3 4 5	38 80	HCL C	10YR 10YR	3 5	2 4	0 15	0 10YR	0 5	0 6	NO YES	n/a 10YR	n/a 6	n/a 3	0 2	YES NO	0 5	0 0	n/a H	SAB AB	M M	M C	FIR VFIR	NO YES	NO YES	NO YES	Chalk present at 80	3	1	1	3b	3a	**3b**	Wetness		
98	Core	0	NO	1 2 3 4 5	38 80	HCL C	10YR 10YR	3 6	2 1	0 40	0 10YR	0 5	0 8	NO YES	n/a 10YR	n/a 3	n/a 2	0 2	YES NO	0 5	0 0	n/a H	SAB AB	M M	C C	VFIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
99	Pit	0	NO	1 2 3 4 5	32 50 80	HCL HCL C	10YR 10YR 2.5YR	3 4 5	2 3 1	0 20 40	0 10YR 10YR	0 5 5	0 8 8	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 2 2	0 0 0	YES NO NO	5 5 5	0 0 0	H CH CH	SAB AB AB	M W W	M C C	FIR FIR VFIR	YES YES YES	NO YES YES	NO YES YES	Chalk stones in all subsoil horizons	3	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
100	Core	0	NO	1 2 3 4 5	30 65 86	HCL C C	10YR 10YR 7.5YR	4 3 4	2 4 2	0 10 2	0 7.5YR 10YR	0 5 6	0 8 6	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 2 n/a	0 0 2	YES NO NO	5 5 0	0 0 0	H CH n/a	SAB AB PR	W W W	C C M	VFIR VFIR VFIR	NO YES YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
101	Core	0	NO	1 2 3 4 5	25 45 65	HCL C C	10YR 10YR 10YR	3 5 6	3 3 1	0 40 40	0 7.5YR 7.5YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES YES NO	0 5 5	0 0 0	n/a SFS H	SAB AB AB	S S M	C VC C	FIR EXFIR VFIR	NO YES YES	NO YES YES	NO NO YES	Same as pt. 124	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
102	Pit	0	NO	1 2 3 4 5	29 42 57	C HCL C	10YR 10YR 10YR	3 5 6	2 1 1	0 40 40	0 10YR 7.5YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	5 0 5	5 0 0	H n/a H	SAB AB AB	M S M	C C C	FIR VFIR VFIR	NO YES YES	NO YES YES	NO YES YES	-	3	2	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
103	Core	0	NO	1 2 3 4 5	20 65	HCL C	10YR 10YR	3 7	4 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES YES	5 10	0 0	H H	SAB AB	S S	C VC	FIR EXFIR	NO YES	NO YES	NO NO	-	2	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
104	Core	0	NO	1 2 3 4 5	30 60 70	HCL C C	10YR 10YR 10YR	3 5 5	4 4 1	0 2 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 2 15	YES NO NO	5 0 5	0 0 0	H n/a CH	SAB AB AB	S S M	C C C	FIR FIR VFIR	NO NO YES	NO NO YES	NO YES YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
105	Core	0	NO	1 2 3 4 5	40 60 105	HCL MZCL C	10YR 10YR 10YR	3 5 5	2 2 2	0 20 40	0 10YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	0 5 5	0 0 0	n/a H H	SAB AB SAB	M M M	M C M	FIR VFIR FIR	NO YES YES	NO YES YES	NO YES NO	-	2	1	1	3a	1	**3a**	Wetness		
106	Core	0	NO	1 2 3 4 5	35 60 85	HCL HCL C	10YR 10YR 10YR	4 5 4	2 1 1	0 2 10	0 10YR 7.5YR	0 6 6	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES YES YES	0 0 0	0 0 0	n/a n/a n/a	SAB SAB SAB	M S W	M M M	FIR FR EXFIR	NO YES YES	NO YES YES	NO NO NO	-	2	1	1	3a	2	**3a**	Wetness		
107	Core	0	NO	1 2 3 4 5	30 60 110	HCL SCL C	10YR 10YR 10YR	4 4 5	2 2 1	0 2 40	0 10YR 10YR	0 5 6	0 6 4	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB AB	M M S	M M M	FIR FIR FIR	NO YES YES	NO YES NO	NO NO NO	-	2	1	1	3a	2	**3a**	Wetness		
108	Core	0	NO	1 2 3 4 5	35 65	HCL SCL	10YR 10YR	4 4	2 3	0 40	0 10YR	0 5	0 8	NO YES	n/a 10YR	n/a 6	n/a 3	0 0	YES NO	5 5	0 0	H H	SAB SAB	S W	C M	FIR FR	NO YES	NO YES	NO NO	Stopped at stones.	2	1	1	3a	3a	**3a**	Wetness Droughti-ness		
109	Core	0	NO	1 2 3 4 5	30 65 75	HCL C C	10YR 10YR 10YR	4 5 5	1 3 1	0 20 20	0 10YR 10YR	0 5 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	0 5 5	0 0 0	n/a H H	SAB AB AB	S M M	C C C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
110	Core	0	NO	1 2 3 4 5	35 75 110	C C C	10YR 10YR 10YR	4 5 4	2 1 1	0 20 20	0 10YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	5 5 10	0 0 5	H CH CH	SAB AB AB	M M M	M C C	FIR VFIR VFIR	NO YES NO	NO YES YES	NO YES YES	-	3	1	1	3b	2	**3b**	Wetness		
111	Pit	0	NO	1 2 3 4 5	25 60 80	C C C	10YR 10YR 10YR	4 4 5	2 1 1	2 40 40	5YR 5YR 10YR	5 4 5	6 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	10 2 2	YES NO NO	5 5 10	0 0 5	H H H	SAB AB AB	S M S	VC C C	FIR VFIR VFIR	NO NO YES	YES YES YES	NO YES YES	Stopped on stone	3	1	1	3b	3a	**3b**	Wetness		
112	Core	0	YES	1 2 3 4 5	35 80 110	C C C	10Y 10YR 10YR	4 4 4	2 2 1	0 20 20	0 10YR 10YR	0 6 6	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB PR	M W M	M C C	FIR FIR VFIR	NO NO NO	NO YES YES	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		

Soil profile descriptions							Soil profile descriptions continued																									ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																	
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
113	Pit	0	NO	1	30	C	10YR	4	2	2	10YR	5	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	YES	NO									
				2	65	C	10YR	4	4	20	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	FIR	NO	NO	YES									
				3	100	C	5YR	4	1	15	5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES	Auger used for 80 to 100, same strcture and colour as from pit	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
114	Core	0	NO	1	28	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	C	VFIR	NO	NO	NO									
				2	53	C	10YR	4	2	2	10YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	W	C	VFIR	NO	YES	YES									
				3	80	C	10YR	5	1	10	5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	M	VFIR	NO	YES	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
115	Core	0	NO	1	30	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	C	VFIR	NO	NO	NO									
				2	55	C	10YR	4	4	20	10YR	4	6	YES	10YR	5	2	2	NO	0	0	n/a	SAB	M	C	VFIR	NO	YES	NO									
				3	75	SCL	10YR	4	6	10	10YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	F	FR	NO	NO	NO	Chalk stones also in h4	2	1	1	3a	2	**3a**	Wetness		
				4	95	C	10YR	6	1	20	10YR	5	8	NO	n/a	n/a	n/a	0	NO	10	0	H	AB	M	M	VFIR	YES	YES	NO									
				5																																		
116	Core	0	NO	1	35	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				2	55	C	10YR	4	4	20	10YR	5	8	YES	10YR	5	1	0	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO									
				3	100	LMS	10YR	4	6	10	10YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	W	F	FR	YES	NO	NO	Small chalk stones within h3	2	1	1	3a	2	**3a**	Wetness		
				4																																		
				5																																		
117	Core	0	NO	1	35	C	10YR	4	3	2	10YR	5	6	YES	10YR	6	1	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO									
				2	80	C	10YR	5	2	15	10YR	5	6	YES	10YR	6	1	0	NO	5	0	H	AB	W	C	VFIR	NO	YES	YES									
				3																									Red stones in h1	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																		
				5																																		
118	Core	0	NO	1	28	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FIR	NO	NO	NO									
				2	48	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	M	C	VFIR	NO	NO	NO									
				3	85	C	10YR	5	4	40	10YR	5	8	YES	10YR	5	1	2	NO	5	0	H	AB	W	C	VFIR	NO	YES	YES	Some h2 and h1 colour in h3	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																		
				5																																		
119	Core	0	NO	1	25	HCL	10YR	3	3	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	F	FIR	NO	NO	NO									
				2	50	HCL	10YR	3	4	2	10YR	5	3	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				3	90	C	10YR	6	1	40	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	M	VFIR	NO	YES	YES	-	2	1	1	3a	2	**3a**	Wetness		
				4																																		
				5																																		
120	Core	0	NO	1	32	HCL	10YR	3	3	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	VFIR	YES	NO	NO									
				2	80	C	10YR	5	4	20	10YR	5	8	YES	10YR	6	2	2	NO	0	0	n/a	AB	W	C	VFIR	YES	YES	YES									
				3																									Chalk h4	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																		
				5																																		
				1	35	C	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	S	C	FIR	NO	NO	NO									
				2	55	C	10YR	5	3	20	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	n/a	SAB	W	C	FIR	NO	YES	YES									
121	Core	0	NO	3	65	SCL	10YR	5	4	0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	W	M	FR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				4	85	C	10YR	6	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	M	C	VFIR	YES	YES	YES									
				5																																		
				1	32	HCL	10YR	3	3	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	C	FIR	NO	NO	NO									
				2	50	C	10YR	5	3	40	7.5YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	SFS	AB	S	VC	EXFIR	YES	YES	YES									
122	Core	0	NO	3	75	C	10YR	6	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
				1	30	HCL	10YR	3	4	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	C	FIR	NO	NO	NO									
				2	60	C	10YR	5	3	40	7.5YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	SFS	AB	S	VC	EXFIR	NO	YES	YES									
123	Core	0	NO	3	80	C	10YR	6	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
				1	35	HCL	10YR	3	3	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	C	FIR	NO	NO	NO									
				2	70	C	10YR	5	3	40	7.5YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	SFS	AB	S	VC	EXFIR	YES	YES	YES									
124	Core	0	NO	3	90	C	10YR	6	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	M	C	VFIR	YES	YES	YES	Gley features in h2	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
				1	35	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				2	60	MZCL	10YR	5	2	20	10YR	6	6	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	M	M	VFIR	YES	YES	NO									
125	Core	0	NO	3	85	C	10YR	5	2	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	M	M	FIR	YES	YES	NO	-	2	1	1	3a	2	**3a**	Wetness		
				4																																		
				5																																		
				1	35	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	H	SAB	S	M	FIR	NO	NO	NO									
				2	65	HCL	10YR	4	4	20	2.5YR	4	8	YES	10YR	5	3	0	YES	0	0	n/a	SAB	S	M	VFIR	NO	YES	NO									
126	Core	0	NO	3	90	C	10YR	5	1	20	10YR	5	8	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	YES	YES	NO	-	2	1	1	3a	1	**3a**	Wetness		
				4																																		
				5																																		
				1	25	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO									
				2	45	SCL	10YR	6	1	20	7.5YR	6	8	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	YES	NO									
127	Core	0	NO	3	70	C	10YR	6	1	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
				1	30	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO									
				2	85	C	10YR	6	1	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES									
128	Core	0	NO	3																									-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		

Soil profile descriptions														Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																									
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
129	Core	0	NO	1 2 3 4 5	30 65	SCL C	10YR 10YR	3 6	1 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a CH	SAB AB	S S	M C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
130	Pit	0	NO	1 2 3 4 5	25 60	SCL SCL	10YR 10YR	4 4	1 2	0 2	0 10YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES YES	10 15	5 5	H H	SAB AB	M S	F M	FIR FIR	NO NO	NO YES	NO NO	H2 has crumbly structure and sand.	2	1	2	2	3b	**3b**	Droughti-ness		
131	Core	0	NO	1 2 3 4 5	30 50	HCL SCL	10YR 10YR	4 5	2 4	0 20	0 7.5YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES YES	0 5	0 0	n/a CH	SAB AB	S M	C M	FIR FIR	NO YES	NO NO	NO NO	-	1	2	1	2	3b	**3b**	Droughti-ness		
132	Core	0	NO	1 2 3 4 5	27 60	HCL C	10YR 10YR	4 5	2 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES YES	0 5	0 0	n/a CH	SAB AB	S W	C M	FIR VFIR	NO YES	NO YES	NO NO	-	2	1	1	3a	3b	**3b**	Droughti-ness		
133	Core	0	NO	1 2 3 4 5	30 90	HCL C	10YR 10YR	4 6	2 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 5	0 0	n/a CH	SAB AB	S M	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
134	Core	0	NO	1 2 3 4 5	30 45 100	HCL C C	10YR 10YR 10YR	4 4 5	2 4 2	0 20 40	0 10YR 10YR	0 5 5	0 6 6	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 3 1	0 2 2	YES NO NO	0 5 10	0 0 0	n/a H CH	SAB AB AB	M M M	M C C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
135	Core	0	NO	1 2 3 4 5	35 60 110	HCL C C	10YR 10YR 10YR	4 4 5	2 4 2	2 20 40	10YR 10YR 10YR	3 5 5	6 6 6	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 2 1	2 2 2	YES NO NO	5 0 5	0 0 0	H n/a CH	SAB AB AB	M M M	M C C	FIR VFIR VFIR	NO NO YES	YES YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
136	Core	0	NO	1 2 3 4 5	25 46 80	HCL C C	10YR 10YR 10YR	3 3 4	2 2 4	0 2 10	0 10YR 10YR	0 5 5	0 4 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES NO NO	0 5 0	0 0 0	n/a H n/a	SAB AB AB	M W M	C C C	FIR VFIR VFIR	NO NO NO	NO NO NO	NO NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
137	Core	0	NO	1 2 3 4 5	30 45 80	HCL C C	10YR 10YR 10YR	3 3 6	2 2 2	0 0 40	0 0 10YR	0 0 6	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 5 0	0 0 0	n/a H n/a	SAB AB AB	M M M	C C C	FIR VFIR VFIR	NO NO YES	NO NO YES	NO NO YES	Chalk h3	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
138	Core	0	NO	1 2 3 4 5	29 57 80	HCL C C	10YR 10YR 10YR	3 3 6	2 3 1	0 2 40	0 10YR 10YR	0 5 5	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES NO NO	0 5 5	0 0 0	n/a H CH	SAB AB AB	S M M	M C C	FIR VFIR VFIR	NO NO YES	NO NO YES	NO YES YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
139	Core	0	NO	1 2 3 4 5	35 78	HCL C	10YR 10YR	3 4	2 3	0 10	0 10YR	0 5	0 6	NO YES	n/a 10YR	n/a 5	n/a 3	0 2	YES NO	5 5	0 0	H H	SAB AB	S M	M C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
140	Pit	0	NO	1 2 3 4 5	32 45 100	HCL C C	10YR 10YR 10YR	3 4 5	2 4 1	0 20 40	0 10YR 10YR	0 5 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 2 n/a	0 10 0	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB SAB AB	M M S	M M C	FIR FIR VFIR	NO NO YES	NO YES YES	NO NO YES	Auger core from 70 to 100, chalk stones present in layer from 70. See separate image of core	3	1	1	3b	2	**3b**	Wetness		
141	Core	0	NO	1 2 3 4 5	22 35 50 90	MCL HCL C C	10YR 10YR 10YR 10YR	3 3 4 6	2 2 2 1	0 0 2 40	0 0 10YR 10YR	0 0 5 5	0 0 6 8	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	0 0 0 2	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB SAB AB AB	S S W W	F M C C	FR FIR VFIR VFIR	NO NO NO NO	NO NO YES YES	NO NO YES YES	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
142	Core	0	NO	1 2 3 4 5	32 50 100	HCL HCL C	10YR 10YR 10YR	3 3 6	2 3 2	0 2 20	0 7.5YR 10YR	0 6 6	0 6 6	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 2 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB AB	M M W	M M C	FIR FIR VFIR	NO NO NO	NO YES YES	NO NO YES	-	3	1	1	3b	2	**3b**	Wetness		
143	Core	0	NO	1 2 3 4 5	30 65 95 120	HCL C C C	10YR 10YR 2.5YR 5Y	3 5 4 5	2 1 1 1	0 20 10 10	0 10YR 10YR 2.5YR	0 5 5 4	0 8 1 6	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	0 0 0 0	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB AB AB PL	M S M S	M C M C	FIR VFIR VFIR VFIR	NO YES YES YES	NO YES YES YES	NO YES NO NO	Cracking clays, horizontal layering at h4, vertical cracking structures h2	3	1	1	3b	2	**3b**	Wetness		
144	Core	0	NO	1 2 3 4 5	35 65 120	HCL C C	10YR 5YR 5YR	3 5 5	2 3 3	0 2 2	0 10YR 10YR	0 5 5	0 8 8	NO NO YES	n/a n/a 10YR	n/a n/a 5	n/a n/a 1	0 0 0	YES NO NO	5 0 0	0 5 0	H H n/a	SAB AB AB	M M M	M C C	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES YES	Layer of yellow sandy clay at 35 to 40cm	3	1	1	3b	2	**3b**	Wetness		

Soil profile descriptions										Soil profile descriptions continued																								ALC for areas represented by individual survey points									
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																					
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
145	Core	0	YES	1 2 3 4 5	30 70 85	C C SCL	10YR 10YR 10YR	4 6 6	1 1 4	0 40 40	0 7.5YR 7.5YR	0 5 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 10 0	YES NO NO	5 0 5	0 0 0	H n/a CH	SAB AB GR	S S W	C C M	FIR VFIR FR	YES YES YES	NO YES YES	NO YES NO	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
146	Core	0	NO	1 2 3 4 5	40 55 90	HCL C C	10YR 10YR 10YR	3 5 5	3 2 2	0 20 40	0 10YR 10YR	0 6 6	0 8 8	NO YES NO	n/a 10YR n/a	n/a 3 n/a	n/a 3 n/a	2 0 0	YES NO NO	5 0 5	0 0 0	H n/a H	SAB AB SAB	M W M	M M M	FIR FIR FIR	NO YES YES	NO YES YES	NO YES NO	-	2	1	1	3a	2	**3a**	Wetness		
147	Core	0	NO	1 2 3 4 5	30 60 80	HCL C C	10YR 10YR 10YR	3 4 5	2 1 1	0 40 20	0 5YR 10YR	0 4 3	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES YES NO	5 5 0	0 0 0	H H n/a	SAB AB SAB	S S M	C C C	FIR VFIR VFIR	NO YES YES	NO YES YES	NO NO NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
148	Core	0	NO	1 2 3 4 5	30 80	HCL C	10YR 10YR	3 6	1 1	10 40	7.5YR 10YR	5 5	8 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H CH	SAB AB	S M	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
149	Core	0	NO	1 2 3 4 5	25 60	HCL C	10YR 10YR	3 6	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H CH	SAB AB	S M	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
150	Core	0	NO	1 2 3 4 5	35 65	C C	10YR 10YR	3 6	1 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a CH	SAB AB	S S	M C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
151	Core	0	NO	1 2 3 4 5	35 70	C SCL	10YR 10YR	3 6	1 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 10	0 0	n/a H	SAB GR	S W	M M	FIR FR	NO YES	NO YES	NO NO	Chalk in H2 and H1 same as pt. 172	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
152	Core	0	NO	1 2 3 4 5	25 45 70	HCL C C	10YR 10YR 10YR	4 5 5	2 4 1	0 20 40	0 10YR 10YR	0 6 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 2 n/a	0 2 2	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB AB AB	S S W	C C M	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3b	**3b**	Wetness Droughti-ness		
153	Core	0	NO	1 2 3 4 5	30 50 95	HCL C C	10YR 10YR 10YR	4 4 4	2 4 4	0 20 40	0 10YR 10YR	0 4 5	0 6 6	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 3 1	0 0 2	YES NO NO	5 5 10	0 0 0	H CH CH	SAB AB AB	M M M	M C C	FIR VFIR EXFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
154	Core	0	NO	1 2 3 4 5	35 55 95	HCL C C	10YR 10YR 10YR	4 4 4	2 4 4	0 20 40	0 10YR 10YR	0 5 5	0 6 6	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 3 1	0 0 2	YES NO NO	5 5 10	0 0 0	H H CH	AB AB AB	M M M	C C C	FIR VFIR VFIR	NO YES YES	NO YES YES	NO YES YES	Some chalk stones in h2	3	1	1	3b	3a	**3b**	Wetness		
155	Core	0	NO	1 2 3 4 5	30 50 100	HCL C C	10YR 10YR 10YR	4 4 5	2 4 2	0 15 40	0 10YR 10YR	0 5 5	0 6 6	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 2 1	0 2 2	YES NO NO	5 0 5	0 0 0	H n/a CH	SAB AB AB	M M M	M C C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
156	Core	0	NO	1 2 3 4 5	33 70 100	HCL C C	10YR 10YR 10YR	4 4 5	2 3 1	2 20 40	10YR 10YR 10YR	4 5 5	6 6 6	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 2 n/a	0 2 2	YES NO NO	5 5 5	0 0 0	H H CH	SAB AB AB	M M M	M C C	FIR FIR VFIR	NO NO YES	YES YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
157	Pit	0	NO	1 2 3 4 5	28 50 75	HCL SCL C	10YR 10YR 10YR	4 5 5	1 3 1	0 40 40	0 7.5YR 7.5YR	0 5 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES YES NO	10 35 35	5 15 15	H H H	SAB AB AB	S S M	C VC C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO NO YES	-	3	1	2	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
158	Core	0	NO	1 2 3 4 5	30 60	HCL SCL	10YR 10YR	4 4	1 3	0 40	0 7.5YR	0 5	0 8	NO YES	n/a 10YR	n/a 5	n/a 1	0 2	YES YES	0 5	0 0	n/a H	SAB AB	M S	M C	FIR FIR	NO NO	NO YES	NO NO	-	2	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
159	Core	0	NO	1 2 3 4 5	30 50 80	HCL C C	10YR 10YR 10YR	3 3 4	2 2 1	0 2 20	0 10YR 10YR	0 5 6	0 6 6	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 3 1	0 2 2	YES NO NO	0 0 5	0 0 0	n/a n/a H	SAB AB AB	M M M	M C C	FIR VFIR VFIR	NO NO NO	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
160	Core	0	NO	1 2 3 4 5	30 110	HCL C	10YR 10YR	3 5	2 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 0	0 0	H n/a	SAB AB	M M	M C	FIR VFIR	NO YES	NO YES	NO YES	Some chalk stones in lower h2. Some large stones on surface, not greater thsn 5% of area	3	1	1	3b	2	**3b**	Wetness		

Soil profile descriptions														Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																									
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations								
161	Core	0	NO	1 2 3 4 5	32 95	C C	7.5YR 7.5YR	3 6	2 1	0 40	0 7.5YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 10	0 5	n/a H	AB AB	M W	M C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness								
162	Core	0	NO	1 2 3 4 5	30 45 80	C SCL C	10YR 10YR 10YR	3 5 4	1 4 1	0 20 40	0 7.5YR 7.5YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 10	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB SAB AB	S M M	M M C	FIR FR VFIR	NO NO YES	NO NO YES	NO NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
163	Core	0	NO	1 2 3 4 5	40 82	HCL C	7.5YR 7.5YR	4 5	2 1	0 40	0 7.5YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	10 10	5 5	H H	AB AB	M W	C C	FIR FIR	NO NO	NO YES	NO YES	-	2	1	2	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
164	Core	0	NO	1 2 3 4 5	38 51 82	HCL C C	10YR 10YR 10YR	3 4 5	2 2 2	0 10 20	0 7.5YR 7.5YR	0 4 5	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	5 5 5	0 0 0	H H CH	SAB SAB AB	M M W	M M M	FIR VFIR VFIR	NO YES YES	NO YES YES	NO NO YES	Red stones in h2	3	1	1	3b	3a	**3b**	Wetness								
165	Core	0	NO	1 2 3 4 5	30 50 100	HCL HCL C	10YR 7.5YR 10YR	3 5 5	1 3 2	0 2 40	0 7.5YR 10YR	0 4 4	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M W W	M M C	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness								
166	Pit	0	NO	1 2 3 4 5	30 40 65	C C C	10YR 10YR 5YR	3 4 5	2 2 1	0 20 10	0 10YR 10YR	0 5 5	0 6 8	NO NO YES	n/a n/a 10YR	n/a n/a 5	n/a n/a 1	0 20 0	YES NO NO	10 0 5	5 0 0	H n/a CH	SAB AB AB	M M M	M M C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO NO YES	-	3	1	2	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
167	Core	0	NO	1 2 3 4 5	31 60 100	C C MCL	10YR 10YR 10YR	3 7 6	4 3 1	0 40 40	0 7.5YR 7.5YR	0 6 6	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M W S	M M F	FIR VFIR FR	NO NO YES	NO YES YES	NO YES NO	-	3	1	1	3b	2	**3b**	Wetness								
168	Core	0	NO	1 2 3 4 5	35 50 110	HCL SCL LMS	10YR 10YR 10YR	3 6 5	2 4 8	0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB GR	M M S	M M F	FIR FIR FR	NO NO NO	NO NO NO	NO NO NO	Silty in ss2	1	1	1	2	2	**2**	Wetness Droughti-ness								
169	Core	0	NO	1 2 3 4 5	30 49 120	HCL C C	10YR 10YR 10YR	3 4 5	3 2 4	0 10 10	0 7.5YR 10YR	0 5 4	0 4 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB AB SAB	M W M	C C C	VFIR VFIR VFIR	NO NO YES	NO NO NO	NO NO NO	-	1	1	1	2	2	**2**	Wetness Droughti-ness								
170	Core	0	NO	1 2 3 4 5	30 80	HCL C	10YR 10YR	4 6	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H CH	SAB AB	S M	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness								
171	Core	0	NO	1 2 3 4 5	30 70	C C	10YR 10YR	3 6	1 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a CH	SAB AB	S S	M C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness								
172	Core	0	NO	1 2 3 4 5	30 70	C C	10YR 10YR	3 6	1 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a CH	SAB AB	S S	M C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness								
173	Pit	0	NO	1 2 3 4 5	30 50 65	HCL C C	10YR 10YR 10YR	3 4 6	2 2 1	0 20 0	0 10YR 0	0 4 0	0 6 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	15 15 0	10 10 0	H H n/a	SAB AB AB	S S S	M C M	FIR VFIR VFIR	NO YES NO	NO YES NO	NO YES NO	-	3	1	3a	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
174	Core	0	NO	1 2 3 4 5	35 60 100	HCL C C	10YR 10YR 10YR	4 4 4	2 4 1	0 20 40	0 10YR 10YR	0 5 5	0 6 6	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 1 1	0 2 2	YES NO NO	5 5 5	0 0 0	H CH CH	SAB AB AB	M M M	M C C	FIR VFIR EXFIR	NO YES YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness								
175	Core	0	NO	1 2 3 4 5	35 60 100	HCL C C	10YR 7.5YR 10YR	4 4 5	2 3 1	0 10 40	0 7.5YR 10YR	0 4 5	0 6 6	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 2 n/a	0 2 0	YES NO NO	5 0 5	0 0 0	H n/a CH	SAB AB AB	M M M	M C C	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness								
176	Core	0	NO	1 2 3 4 5	35 55 100	HCL C C	10YR 10YR 10YR	4 4 4	2 3 3	0 15 20	0 10YR 10YR	0 4 4	0 6 6	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 2 1	0 2 2	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB AB AB	M M M	M C C	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness								

Soil profile descriptions														Soil profile descriptions continued																							ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																							
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
177	Core	0	NO	1 2 3 4 5	20 50 70	MCL C C	10YR 10YR 10YR	4 5 5	1 3 3	0 15 40	0 7.5YR 7.5YR	0 5 5	0 8 6	NO YES YES	n/a 10YR 10YR	n/a 5 5	n/a 2 1	0 0 2	YES NO NO	0 5 5	0 0 0	n/a H CH	SAB AB AB	M S M	M C M	FIR VFIR VFIR	NO YES YES	NO YES YES	NO YES NO	-	3	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
178	Core	0	NO	1 2 3 4 5	25 45 70	MCL C C	10YR 10YR 10YR	4 5 5	1 3 3	0 10 40	0 7.5YR 7.5YR	0 6 6	0 8 8	NO NO YES	n/a n/a N	n/a n/a 5	n/a n/a 0	0 2 0	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB AB AB	S M M	M C M	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
179	Core	0	NO	1 2 3 4 5	25 55 80	HCL C C	10YR 10YR N	4 4 4	1 3 0	0 20 40	0 7.5YR 7.5YR	0 5 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	S S M	M C C	FIR FIR VFIR	NO YES YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
180	Core	0	NO	1 2 3 4 5	22 55 80	HCL C C	10YR 10YR 10YR	3 3 4	2 2 2	0 2 10	0 10YR 10YR	0 3 4	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M M M	M C C	FIR VFIR VFIR	NO NO NO	NO NO YES	NO YES YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
181	Core	0	NO	1 2 3 4 5	28 54 80	HCL C C	10YR 10YR 10YR	3 3 4	2 2 3	0 2 20	0 7.5YR 10YR	0 4 5	0 4 6	NO NO YES	n/a n/a 10YR	n/a n/a 5	n/a n/a 1	0 2 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M M M	M C C	FIR VFIR VFIR	NO NO NO	NO NO YES	NO YES YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
182	Core	0	NO	1 2 3 4 5	25 80	HCL C	10YR 10YR	3 5	2 2	0 10	0 10YR	0 5	0 6	NO YES	n/a 10YR	n/a 5	n/a 1	10 2	YES NO	0 5	0 0	n/a H	SAB AB	M W	C VC	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
183	Core	0	NO	1 2 3 4 5	25 55 90	C C C	10YR 10YR 10YR	3 4 4	1 1 1	0 20 40	0 7.5YR 7.5YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB AB AB	S S M	M C M	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
184	Core	0	NO	1 2 3 4 5	32 90	C C	10YR 7.5YR	3 5	2 2	0 20	0 7.5YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	15 10	10 5	H H	SAB AB	W W	C C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	3a	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
185	Core	0	NO	1 2 3 4 5	38 85	C C	10YR 10YR	4 6	1 2	0 40	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	2 10	YES NO	0 0	0 0	n/a n/a	AB AB	M W	C C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
186	Core	0	NO	1 2 3 4 5	35 65 100	HCL C C	10YR 10YR 10YR	3 4 5	3 6 1	0 20 40	0 10YR 10YR	0 5 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 15 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB AB	M M M	M M C	FIR FIR VFIR	NO NO NO	NO YES YES	NO NO YES	-	2	1	1	3a	2	**3a**	Wetness		
187	Core	0	NO	1 2 3 4 5	33 85	C C	10YR 10YR	3 5	2 3	0 20	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	10 0	5 0	H n/a	SAB AB	M W	M C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	2	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
188	Core	0	NO	1 2 3 4 5	30 70	HCL C	10YR 10YR	3 5	2 1	0 20	0 7.5YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	S S	M M	FIR VFIR	NO YES	NO YES	NO NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
189	Pit	0	NO	1 2 3 4 5	30 70	HCL C	10YR 10YR	3 5	2 1	0 20	0 7.5YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	S S	M M	FIR VFIR	NO YES	NO YES	NO NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
190	Core	0	NO	1 2 3 4 5	35 75 95	C C HCL	10YR 10YR 10YR	4 4 5	1 1 1	0 2 2	0 10YR 10YR	0 4 5	0 4 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES NO NO	10 5 0	0 0 0	CH H n/a	SAB SAB SAB	W W M	M M M	FIR FIR VFIR	NO YES YES	NO NO YES	NO NO NO	-	1	1	2	3a	2	**3a**	Wetness		
191	Core	0	NO	1 2 3 4 5	30 50 95	C C C	10YR 10YR 10YR	4 5 6	1 1 1	0 40 20	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	0 0 10	0 0 0	n/a n/a CH	SAB SAB AB	M M W	M M M	FIR FIR VFIR	NO NO YES	NO YES YES	NO NO YES	-	3	1	1	3b	2	**3b**	Wetness		
192	Core	0	NO	1 2 3 4 5	40 50 80	C C C	10YR 10YR 10YR	4 5 6	1 1 1	0 40 20	0 10YR 10YR	0 6 4	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	5 10 5	0 5 0	H H H	SAB SAB AB	M M M	M M C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	

Soil profile descriptions														Soil profile descriptions continued																							ALC for areas represented by individual survey points									
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																									
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations									
193	Core	0	NO	1	30	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	C	FIR	NO	NO	NO																	
				2	55	SCL	10YR	5	1	10	7.5YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	M	FIR	NO	YES	NO																	
				3	75	C	10YR	6	1	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	CH	AB	W	M	FIR	YES	YES	YES	Gleying in h2.	3	1	1	3b	3a	**3b**	Wetness									
				4																																									
				5																																									
194	Core	0	NO	1	30	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO																	
				2	70	C	10YR	5	1	40	7.5YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	SFS	AB	M	C	VFIR	NO	YES	YES																	
				3																										Same as pt. 217	3	1	1	3b	3a	**3b**	Wetness									
				4																																									
				5																																									
195	Core	0	NO	1	32	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	10	YES	10	5	H	AB	M	M	FIR	NO	NO	NO																	
				2	81	C	10YR	4	2	15	10YR	6	6	NO	n/a	n/a	n/a	20	NO	15	10	H	AB	M	C	FIR	NO	YES	YES																	
				3																										-	3	1	2	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				4																																									
				5																																									
196	Pit	0	NO	1	32	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	10	5	H	SAB	M	M	FIR	NO	NO	NO																	
				2	57	HCL	10YR	3	2	2	10YR	5	6	YES	10YR	5	3	2	YES	10	5	H	SAB	M	M	FIR	NO	YES	NO																	
				3	75	C	10YR	5	1	40	10YR	6	6	NO	n/a	n/a	n/a	2	NO	10	0	CH	AB	M	C	VFIR	YES	YES	YES	-	2	1	2	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				4																																								
				5																																									
197	Core	0	NO	1	30	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	15	10	H	SAB	M	M	FIR	NO	NO	NO																	
				2	55	C	10YR	5	3	10	10YR	5	6	YES	10YR	6	2	2	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES																	
				3	81	MCL	10YR	6	4	40	10YR	6	8	NO	n/a	n/a	n/a	40	NO	10	5	H	GR	M	F	FIR	YES	YES	NO	-	3	1	3a	3b	3a	**3b**	Wetness									
				4																																									
				5																																									
198	Core	0	NO	1	35	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	0	M	FIR	NO	NO	NO																	
				2	60	C	10YR	4	3	2	10YR	5	6	YES	10YR	5	3	2	NO	0	0	n/a	AB	M	C	FIR	YES	YES	YES																	
				3	100	C	10YR	4	3	20	10YR	5	6	YES	10YR	5	1	2	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness									
				4																																									
				5																																									
199	Core	0	NO	1	20	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FIR	NO	NO	NO																	
				2	50	C	10YR	5	3	2	7.5YR	5	8	NO	n/a	n/a	n/a	2	YES	0	0	n/a	AB	S	C	FIR	NO	YES	NO																	
				3	80	C	10YR	4	1	20	7.5YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	S	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness									
				4																																									
				5																																									
200	Core	0	NO	1	30	MCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO																	
				2	55	HCL	10YR	5	3	20	10YR	5	8	YES	10YR	5	1	0	NO	0	0	n/a	AB	S	C	FIR	YES	YES	YES																	
				3	75	SCL	10YR	5	4	40	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	CH	AB	M	M	FR	YES	NO	NO	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				4																																								
				5																																									
				1	30	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	C	VFIR	NO	NO	NO																	
				2	50	C	10YR	4	2	2	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	YES																	
201	Core	0	NO	3	80	C	10YR	5	2	40	7.5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness									
				4																																									
				5																																									
				1	38	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	C	VFIR	NO	NO	NO																	
				2	80	C	10YR	4	3	10	10YR	5	6	NO	n/a	n/a	n/a	2	NO	5	0	H	AB	M	C	VFIR	NO	NO	YES																	
202	Core	0	NO	3																										-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				4																																									
				5																																									
				1	35	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	VFIR	NO	NO	NO																	
				2	45	C	10YR	4	2	10	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	W	C	FIR	NO	YES	YES																	
203	Core	0	NO	3	55	C	10YR	5	2	20	10YR	6	6	NO	n/a	n/a	n/a	0	NO	5	0	CH	AB	M	C	FIR	YES	YES	YES	Chalk from 55cm	3	1	1	3b	2	**3b**	Wetness									
				4	100	C	10YR	6	1	2	10YR	5	6	NO	n/a	n/a	n/a	0	NO	10	0	CH	SAB	S	M	FR	YES	NO	NO																	
				5																																									
				1	30	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	AB	M	M	FIR	NO	NO	NO																	
				2	45	C	10YR	4	2	40	10YR	5	8	YES	10YR	5	1	2	NO	5	0	H	AB	M	C	FIR	NO	YES	YES																	
204	Core	0	NO	3	90	C	10YR	5	2	20	10YR	5	6	NO	n/a	n/a	n/a	0	NO	10	0	CH	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness									
				4																																									
				5																																									
				1	38	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	C	VFIR	NO	NO	NO																	
				2	65	SC	10YR	5	2	20	10YR	5	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	YES																	
205	Core	0	NO	3																										Hit stones at 65cm	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				4																																									
				5																																									
				1	30	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	C	FIR	NO	NO	NO																	
				2	60	C	10YR	6	1	40	10YR	5	6	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	M	C	VFIR	NO	YES	YES																	
206	Core	0	NO	3	80	C	7.5YR	4	2	10	10YR	5	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness									
				4																																									
				5																																									
				1	50	C	7.5YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	10	5	H	SAB	M	M	FIR	NO	NO	NO																	
				2	85	C	7.5YR	5	1	0	0	0	0	NO	n/a	n/a	n/a	20	NO	0	0	n/a	AB	W	C	FIR	NO	NO	YES																	
207	Core	0	NO	3																										-	2	1	2	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
				4																																									
				5																																									
				1	35	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	AB	W	M	FIR	NO	NO	NO																	
				2	81	C	10YR	6	2	40	10YR	6	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES																	
208	Core	0	NO	3																										-	3	1	1	3b	3a	**3b**	Wetness									
				4																																									
				5																																									

Soil profile descriptions														Soil profile descriptions continued																							ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																							
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
209	Core	0	NO	1 2 3 4 5	50 81	C HCL	7.5YR 7.5YR	3 5	2 1	0 40	0 7.5YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 20	YES NO	10 0	0 15	H H	SAB AB	M W	M M	FIR FIR	NO NO	NO YES	NO YES	stopped on stone near main drain	2	1	2	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
210	Core	0	NO	1 2 3 4 5	34 62 90	C C SCL	7.5YR 7.5YR 7.5YR	3 3 5	2 1 2	0 20 40	0 7.5YR 7.5YR	0 5 6	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	15 10 0	YES NO NO	10 10 15	5 5 10	H H H	SAB AB AB	M W S	M C F	FIR FIR FIR	NO NO NO	NO YES YES	NO YES NO	-	3	1	2	3b	3a	**3b**	Wetness		
211	Core	0	NO	1 2 3 4 5	30 50 80	HCL HCL C	10YR 10YR 5YR	3 3 4	2 2 2	0 15 20	0 7.5YR 7.5YR	0 4 4	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	S S S	M C C	FIR VFIR EXFIR	NO NO YES	NO NO YES	NO YES YES	Sandy deposits in h2 and h3	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
212	Pit	0	NO	1 2 3 4 5	40 60	C C	10YR 10YR	2 4	2 1	0 40	0 10YR	0 4	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 0	5 0	H n/a	SAB AB	S S	M C	FIR VFIR	NO NO	NO YES	NO YES	-	2	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
213	Core	0	NO	1 2 3 4 5	50 80 100	HCL HCL HCL	10YR 10YR 5YR	4 4 4	1 2 1	0 20 15	0 10YR 5YR	0 5 4	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 2 0	YES NO NO	5 5 5	0 0 0	H H CH	SAB SAB AB	M M M	M M C	FIR FIR VFIR	YES NO YES	NO YES YES	NO NO NO	-	1	1	1	2	2	**2**	Wetness Droughti-ness		*
214	Core	0	NO	1 2 3 4 5	35 55 80	C FSL C	10YR 10YR 10YR	4 6 6	1 6 1	0 0 20	0 0 10YR	0 0 6	0 0 6	NO NO YES	n/a n/a 10YR	n/a n/a 4	n/a n/a 3	2 0 0	YES NO NO	0 5 5	0 0 0	n/a H H	SAB GR AB	W S M	M F M	FIR FR VFIR	NO NO YES	NO NO YES	NO NO NO	-	1	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
215	Core	0	NO	1 2 3 4 5	45 90 105	C C MS	10YR 10YR 7.5YR	4 5 6	1 1 6	0 40 0	0 10YR 0	0 6 0	0 6 0	NO YES NO	n/a 10YR n/a	n/a 4 n/a	n/a 3 n/a	0 2 0	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB SAB GR	M M S	M M F	FIR FIR FR	NO YES NO	NO YES NO	NO NO NO	-	2	1	1	3a	1	**3a**	Wetness		
216	Core	0	NO	1 2 3 4 5	30 70	HCL C	10YR 10YR	3 5	1 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 5	0 0	n/a CH	SAB AB	S M	M C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
217	Core	0	NO	1 2 3 4 5	30 80	HCL C	10YR 10YR	3 5	1 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 5	0 0	n/a CH	SAB AB	S M	M C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
218	Core	0	NO	1 2 3 4 5	30 60 70	HCL C MSL	10YR 10YR 10YR	3 5 5	1 1 2	0 40 10	0 7.5YR 7.5YR	0 6 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES NO NO	0 5 5	0 0 0	n/a CH CH	SAB AB GR	S M W	M C M	FIR VFIR FR	NO YES YES	NO YES YES	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
219	Core	1	NO	1 2 3 4 5	30 60 81	C C C	10YR 10YR 10YR	4 5 6	3 3 2	0 40 40	0 10YR 10YR	0 6 6	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 2 0	YES NO NO	15 0 10	10 0 5	H n/a H	SAB AB AB	W W W	C C M	FIR FIR FIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	3a	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
220	Core	0	NO	1 2 3 4 5	38 60 95	HCL C C	10YR 10YR 10YR	3 6 6	2 4 1	0 40 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	10 10 10	5 5 5	H H H	AB AB AB	M W W	M C C	FR FIR FIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	2	3b	3a	**3b**	Wetness		
221	Core	0	NO	1 2 3 4 5	35 56 90	HCL C C	7.5YR 10YR 5YR	4 5 5	1 4 3	0 20 20	0 10YR 7.5YR	0 6 6	0 8 8	NO NO YES	n/a n/a 5YR	n/a n/a 6	n/a n/a 1	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M M M	M C C	FIR FIR FIR	NO NO YES	NO NO YES	NO YES YES	-	2	1	1	3a	3a	**3a**	Wetness Droughti-ness		
222	Core	0	NO	1 2 3 4 5	30 70 90	C C C	10YR 10YR 10YR	4 5 5	2 2 1	0 20 20	0 10YR 10YR	0 6 6	0 6 6	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 0 0	YES NO NO	10 10 10	5 5 5	H H H	SAB AB AB	M M M	M C M	FIR FIR FIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	2	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
223	Core	0	NO	1 2 3 4 5	30 55 85	C C C	10YR 10YR 5YR	3 5 5	2 2 1	20 20 15	10YR 10YR 10YR	5 5 6	4 6 6	NO NO YES	n/a n/a 5YR	n/a n/a 5	n/a n/a 4	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB AB	M M W	M M M	FIR FIR VFIR	NO YES YES	NO YES YES	NO NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
224	Core	0	NO	1 2 3 4 5	30 85 110	HCL C C	10YR 10YR 5YR	3 5 4	1 3 1	0 20 20	0 10YR 5YR	0 6 4	0 8 4	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB AB AB	M M W	M C C	FIR VFIR VFIR	NO NO NO	NO YES NO	NO YES NO	-	3	1	1	3b	2	**3b**	Wetness		

Soil profile descriptions										Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																				
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
225	Core	0	NO	1 2 3 4 5	30 85 115	HCL C C	10YR 10YR 10YR	4 6 5	2 3 1	0 10 15	0 10YR 10YR	0 6 6	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 10 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M M W	M C C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	1	3b	2	**3b**	Wetness		
226	Core	0	NO	1 2 3 4 5	29 55 80	HCL C C	10YR 10YR 10YR	3 3 4	2 2 3	0 2 15	0 10YR 10YR	0 5 5	0 4 6	NO NO YES	n/a n/a 10YR	n/a n/a 5	n/a n/a 1	0 0 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M M W	M C C	FIR VFIR VFIR	NO NO NO	NO NO YES	NO NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
227	Pit	0	NO	1 2 3 4 5	35 45 110	HCL HCL C	10YR 10YR 10YR	4 4 5	2 3 1	0 15 40	0 10YR 10YR	0 5 5	0 6 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 3 n/a	0 0 2	YES NO NO	5 0 5	0 0 0	H n/a CH	SAB SAB AB	M M M	M M C	FIR FIR VFIR	NO NO YES	NO YES YES	NO NO YES	Auger core from 80 to 110cm	3	1	1	3b	2	**3b**	Wetness		
228	Core	0	NO	1 2 3 4 5	35 65 97 110	HCL C SCL C	10YR 10YR 10YR 5YR	4 5 6 4	2 1 1 1	0 20 40 20	0 10YR 10YR 5YR	0 6 5 4	0 6 6 3	NO YES NO NO	n/a 5YR n/a n/a	n/a 4 n/a n/a	n/a 6 n/a n/a	0 0 0 0	YES NO NO NO	0 5 0 0	0 0 0 0	n/a H n/a n/a	SAB SAB SAB AB	M W W W	M C M C	FIR FIR FR VFIR	YES YES YES YES	NO YES YES NO	NO YES NO NO	-	3	1	1	3a	2	**3a**	Wetness		
229	Pit	0	NO	1 2 3 4 5	35 45 70 120	SCL C C C	10YR 5YR 10YR 5YR	3 4 3 4	2 2 2 2	0 20 40 15	0 10YR 10YR 10YR	0 5 5 5	0 6 6 6	NO YES YES YES	n/a 5YR 10YR 5YR	n/a 5 5 5	n/a 1 1 1	0 2 10 2	YES NO NO NO	10 5 5 5	5 0 0 0	H H H CH	AB AB AB AB	M M M M	C C C C	FIR FIR FIR VFIR	NO NO NO YES	NO YES YES NO	NO YES YES YES	Some chalk stones in h3.	3	1	2	3a	3a	**3a**	Wetness Droughti-ness		
230	Core	0	NO	1 2 3 4 5	32 50 65	SCL SC C	10YR 10YR 10YR	4 6 6	2 6 4	0 10 40	0 10YR 10YR	0 6 6	0 8 8	NO YES YES	n/a 10YR 10YR	n/a 6 7	n/a 1 1	0 0 0	YES NO NO	10 0 15	5 0 10	H n/a H	SAB SAB AB	M S M	M F C	FIR FR FIR	NO NO NO	NO YES YES	NO NO YES	stopped on stone	3	1	2	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
231	Core	0	NO	1 2 3 4 5	30 60 81	SCL C HCL	10YR 10YR 5YR	4 5 5	2 2 6	0 20 20	0 7.5YR 5YR	0 6 6	0 6 8	NO YES YES	n/a 7.5YR 5YR	n/a 6 6	n/a 2 1	0 0 2	YES NO NO	10 10 10	5 5 5	H H H	SAB AB AB	S M M	F C C	FIR FIR FIR	NO NO YES	NO YES YES	NO YES YES	stopped on hard clay	3	1	2	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
232	Core	0	NO	1 2 3 4 5	30 72	C C	10YR 7.5YR	3 5	2 2	0 10	0 7.5YR	0 4	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a H	SAB AB	M W	C C	VFIR VFIR	NO YES	NO YES	NO YES	Hit stones at 72cm	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
233	Core	0	NO	1 2 3 4 5	30 60	HCL SCL	10YR 10YR	3 4	2 6	0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 0	0 0	H n/a	SAB SAB	M M	M F	FIR FR	NO NO	NO NO	NO NO	-	1	1	1	2	3a	**2**	Wetness Droughtiness	Soil profile deeper than recorded - not limited by droughtiness only	*
234	Core	0	NO	1 2 3 4 5	38 85	C C	10YR 10YR	3 6	2 1	0 40	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 0	0 0	n/a n/a	AB AB	M W	M C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
235	Core	0	NO	1 2 3 4 5	31 60 85	HCL MCL C	10YR 10YR 10YR	4 6 5	1 2 1	0 40 100	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 40 20	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	AB AB AB	M W W	M M C	FIR FIR FIR	NO NO NO	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
236	Core	0	NO	1 2 3 4 5	38 68 85	HCL C C	10YR 10YR 10YR	3 3 4	2 2 1	0 10 2	0 10YR 10YR	0 4 5	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 20	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M W M	M C C	VFIR VFIR VFIR	NO NO NO	NO NO YES	NO YES YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
237	Core	0	NO	1 2 3 4 5	45 75 90	HCL SCL SC	10YR 10YR 10YR	4 6 6	1 3 1	0 2 20	0 10YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 5 5	0 0 0	n/a H H	SAB GR AB	M S M	M F C	FIR FR VFIR	NO NO YES	NO YES YES	NO NO YES	-	2	1	1	3a	2	**3a**	Wetness		
238	Core	0	NO	1 2 3 4 5	45 65 85	C C C	10YR 10YR 10YR	4 6 6	1 1 1	0 10 10	0 10YR 10YR	0 6 6	0 6 6	NO YES NO	n/a 10YR n/a	n/a 4 n/a	n/a 3 n/a	2 0 0	YES NO NO	5 10 5	0 0 0	H H H	SAB AB AB	W M M	M C C	FIR VFIR FR	YES YES YES	NO YES YES	NO YES YES	-	2	1	1	2	3a	**3a**	Droughti-ness		
239	Core	0	NO	1 2 3 4 5	35 70	HCL C	10YR 10YR	3 6	2 1	0 40	0 10YR	0 4	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	S S	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
240	Core	0	NO	1 2 3 4 5	35 60	HCL C	10YR 10YR	3 6	2 1	0 40	0 10YR	0 4	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	S S	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	

Soil profile descriptions													Soil profile descriptions continued																						ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																				
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
241	Core	0	NO	1 2 3 4 5	30 68	HCL C	10YR 10YR	3 5	1 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 5	0 0	n/a CH	SAB AB	S M	M C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
242	Core	0	NO	1 2 3 4 5	30 65	HCL C	10YR 10YR	3 5	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H CH	SAB AB	S M	M C	FIR VFIR	NO YES	NO YES	NO YES	Did 2 points. Stopped at 30cm at 1 point.	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
243	Core	0	NO	1 2 3 4 5	45 75	HCL C	10YR 10YR	3 5	1 1	0 40	0 7.5YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S M	M C	FIR VFIR	NO YES	NO YES	NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
244	Core	0	NO	1 2 3 4 5	28 80 90	HCL C C	10YR 7.5YR 7.5YR	4 5 6	2 3 1	0 10 40	0 7.5YR 7.5YR	0 6 6	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	10 20 15	YES NO NO	10 15 15	5 10 10	H H H	SAB AB AB	M W W	M M C	FIR FIR FIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	2	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
245	Core	1	NO	1 2 3 4 5	30 80	HCL C	10YR 10YR	3 4	1 3	0 2	0 10YR	0 6	0 8	NO YES	n/a 10YR	n/a 5	n/a 2	0 0	YES NO	10 15	5 10	H H	SAB AB	M W	M C	FR FIR	NO YES	NO YES	NO YES	stopped on stones	3	1	2	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
246	Core	0	YES	1 2 3 4 5	32 90	C C	10YR 10YR	4 7	3 4	0 40	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	M W	M C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
247	Core	0	NO	1 2 3 4 5	30 90	C C	10YR 10YR	4 6	2 2	0 40	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 10	YES NO	0 0	0 0	n/a n/a	AB AB	W W	C M	VFIR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
248	Core	0	NO	1 2 3 4 5	27 81	C C	7.5YR 10YR	4 5	2 1	2 20	7.5YR 10YR	6 6	8 8	NO NO	n/a n/a	n/a n/a	n/a n/a	2 15	YES NO	0 0	0 0	n/a n/a	AB AB	W W	C C	FIR FIR	NO NO	YES YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				1	30	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	VFIR	NO	NO	NO										
249	Core	0	NO	2 3 4 5	60 110	C C	10YR 10YR	5 5	2 1	10 15	10YR 10YR	5 5	6 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	NO NO	0 5	0 0	n/a CH	AB MAS	M W	C C	FIR VFIR	YES YES	YES YES	YES YES	-	3	1	1	3b	2	**3b**	Wetness		
250	Core	0	NO	1 2 3 4 5	25 80 105	C C C	10YR 10YR 7.5YR	4 4 4	2 2 1	2 20 15	10YR 10YR 7.5YR	5 5 6	4 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 2 0	YES NO NO	0 0 15	0 0 5	n/a n/a CH	SAB AB AB	W M W	M C C	FIR EXFIR VFIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
251	Core	0	NO	1 2 3 4 5	30 40 100	C C C	10YR 10YR 10YR	3 4 5	2 2 1	0 15 0	0 10YR 0	0 5 0	0 8 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M M M	M M C	FIR FIR VFIR	NO NO YES	NO YES NO	NO NO YES	Chalk stones from 80	3	1	1	3b	3a	**3b**	Wetness		
252	Core	0	NO	1 2 3 4 5	30 40 100	C C C	10YR 10YR 10YR	3 4 5	2 2 1	0 2 20	0 10YR 10YR	0 4 5	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB AB AB	M M M	C C C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES YES	Small chalk stones	3	1	1	3b	3a	**3b**	Wetness		
253	Core	0	NO	1 2 3 4 5	35 57 80	HCL HCL MCL	10YR 10YR 10YR	4 5 7	2 1 3	0 40 20	0 10YR 10YR	0 6 6	0 6 6	NO YES NO	n/a 7.5YR n/a	n/a 5 n/a	n/a 8 n/a	0 0 0	YES NO NO	10 0 0	0 0 0	H n/a n/a	SAB AB SAB	M M M	M M M	FIR FIR FR	NO YES YES	NO YES YES	NO NO NO	-	2	1	2	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
254	Core	0	NO	1 2 3 4 5	30 45 95	C C C	10YR 10YR 10YR	4 6 6	2 2 1	0 20 15	0 10YR 10YR	0 6 6	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	10 5 5	5 0 0	H CH CH	SAB SAB SAB	M M M	M M M	FIR FIR FR	NO YES YES	NO YES YES	NO NO NO	-	2	1	2	3a	1	**3a**	Wetness		
255	Core	0	NO	1 2 3 4 5	35 65 100	HCL MSZL C	10YR 5YR 5YR	4 4 5	2 4 2	0 15 20	0 5YR 5YR	0 6 4	0 8 4	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	10 0 0	5 0 0	H n/a n/a	SAB AB PR	M W W	M C C	FIR VFIR VFIR	NO NO YES	NO NO NO	NO NO YES	-	2	1	2	3a	2	**3a**	Wetness		
256	Core	0	NO	1 2 3 4 5	30 68 81	SCL CSL HCL	7.5YR 7.5YR 10YR	4 6 6	2 8 2	0 0 20	0 0 10YR	0 0 6	0 0 8	NO YES NO	n/a 10YR n/a	n/a 6 n/a	n/a 3 n/a	0 0 0	YES YES NO	10 10 10	5 5 5	H H H	SAB SAB SAB	S S M	F F M	FR FR FR	NO NO YES	NO NO YES	NO NO NO	-	1	1	2	1	2	**2**	Topsoil stoniness Droughti-ness		*

Soil profile descriptions							Soil profile descriptions continued																									ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																	
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
257	Core	0	NO	1	38	SCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO									
				2	60	C	10YR	5	1	20	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	C	VFIR	YES	YES	YES									
				3	80	LFS	10YR	5	6	2	10YR	6	1	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	W	M	FR	NO	NO	NO	-	3	1	1	3a	2	**3a**	Wetness		
				4	112	C	5YR	3	3	15	5YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FIR	YES	NO	NO									
				5																																		
258	Core	0	NO	1	33	SCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO									
				2	50	SCL	10YR	4	4	15	10YR	5	8	YES	10YR	5	1	0	NO	5	0	H	AB	W	M	FIR	YES	YES	YES									
				3	85	MS	10YR	5	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	10	0	H	SAB	W	M	VFR	YES	NO	NO	-	3	1	1	3a	3a	**3a**	Wetness Droughti-ness		
				4	100	C	5YR	3	2	0	0	0	0	YES	5YR	5	1	0	NO	0	0	n/a	AB	W	C	VFIR	YES	NO	NO									
				5																																		
259	Core	0	NO	1	26	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				2	68	C	7.5YR	5	2	20	10YR	5	6	YES	10YR	6	1	2	NO	5	0	H	AB	M	C	VFIR	NO	YES	YES									
				3	80	C	10YR	6	1	20	10YR	5	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	M	M	VFIR	YES	YES	NO	Chalk h3	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
260	Core	0	NO	1	25	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				2	80	C	5YR	4	2	2	7.5YR	5	4	NO	n/a	n/a	n/a	2	NO	5	0	H	AB	M	C	VFIR	YES	YES	YES									
				3																									Some chalk at 80	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
261	Pit	0	NO	1	35	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	15	5	H	SAB	S	C	FIR	NO	NO	NO									
				2	100	C	10YR	4	2	20	7.5YR	5	8	NO	n/a	n/a	n/a	15	NO	5	0	H	AB	S	C	VFIR	YES	YES	YES									
				3																									Calcareous deposits at max depth	3	1	3a	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
262	Core	0	NO	1	35	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	AB	M	M	FIR	NO	NO	NO									
				2	70	C	10YR	4	1	20	10YR	5	6	YES	10YR	5	2	15	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES									
				3	85	HCL	10YR	5	1	40	5YR	6	6	NO	n/a	n/a	n/a	15	NO	0	0	n/a	SAB	W	M	FIR	NO	YES	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
263	Core	0	NO	1	35	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	C	FIR	NO	NO	NO									
				2	65	C	10YR	5	1	20	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES									
				3	90	HCL	10YR	6	2	40	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
264	Core	0	NO	1	40	C	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				2	85	C	10YR	4	2	15	5YR	5	6	YES	10YR	5	1	0	NO	0	0	n/a	AB	W	M	FIR	NO	YES	YES									
				3	105	C	10YR	3	1	10	5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	C	FIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				4	110	SCL	10YR	5	4	0	0	0	0	NO	n/a	n/a	n/a	0	NO	10	0	H	SAB	S	M	FR	NO	NO	NO									
				5																																		
265	Core	0	NO	1	35	C	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO									
				2	85	C	10YR	5	1	40	7.5YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	C	FIR	NO	YES	YES									
				3	105	C	10YR	5	1	20	7.5YR	6	8	YES	7.5YR	5	3	0	NO	0	0	n/a	AB	M	M	FIR	NO	YES	NO	-	3	1	1	3b	2	**3b**	Wetness		
				4	120	O-C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	S	M	FR	NO	NO	NO									
				5																																		
266	Pit	0	NO	1	30	HZCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	C	FIR	NO	NO	NO									
				2	65	HZCL	10YR	3	1	20	10YR	3	6	YES	10YR	5	2	0	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES									
				3																									-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																		
				5																																		
267	Core	0	NO	1	40	C	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				2	70	C	10YR	4	1	20	10YR	6	6	YES	10YR	4	6	0	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO									
				3	105	C	10YR	6	1	20	10YR	6	6	YES	10YR	5	4	2	NO	0	0	n/a	AB	W	M	EXFIR	YES	YES	YES	-	2	1	1	3a	2	**3a**	Wetness		
				4																																		
				5																																		
268	Core	0	NO	1	40	C	10YR	4	1	2	10YR	4	4	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO									
				2	80	C	10YR	4	1	15	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO									
				3	110	SCL	10YR	6	3	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	M	M	FIR	NO	YES	NO	Refusal on stone	1	1	1	3a	1	**3a**	Wetness		
				4																																		
				5																																		
269	Core	0	NO	1	45	HCL	10YR	2	2	2	10YR	5	8	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	C	FIR	NO	NO	NO									
				2	80	C	10YR	5	1	20	7.5YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	H	AB	S	C	VFIR	YES	YES	YES									
				3																									-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																		
				5																																		
270	Pit	0	NO	1	35	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	5	H	SAB	S	M	FIR	NO	NO	NO									
				2	50	SCL	10YR	2	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	5	H	SAB	M	M	FIR	NO	NO	NO									
				3	65	C	10YR	6	1	15	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	5	H	AB	S	C	VFIR	YES	YES	YES	-	2	1	2	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																		
				5																																		
271	Core	0	NO	1	33	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	C	FIR	NO	NO	NO									
				2	75	C	10YR	5	3	10	10YR	5	6	YES	10YR	4	2	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES									
				3																									-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
272	Core	0	NO	1	30	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	C	VFIR	NO	NO	NO									
				2	65	C	2.5Y	5	3	2	10YR	6	6	YES	10YR	5	2	0	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES									
				3	90	C	10YR	6	1	20	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		

Soil profile descriptions														Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																									
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations								
273	Core	0	NO	1 2 3 4 5	32 80	C C	10YR 2.5Y	4 5	2 4	0 15	0 10YR	0 6	0 6	NO YES	n/a 10YR	n/a 5	n/a 2	0 2	YES NO	5 5	0 0	H H	SAB AB	M W	C C	VFIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
274	Core	0	NO	1 2 3 4 5	38 80	C C	10YR 2.5Y	4 5	2 3	0 2	0 10YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a H	SAB AB	M M	C C	VFIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness								
275	Core	0	NO	1 2 3 4 5	32 85	HCL C	10YR 2.5Y	4 5	3 3	0 10	0 10YR	0 5	0 6	NO YES	n/a 10YR	n/a 5	n/a 1	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	M M	C C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness								
276	Pit	0	NO	1 2 3 4 5	25 55 100	HCL C C	10YR 10YR 10YR	4 4 5	2 1 1	0 100 40	0 10YR 7.5YR	0 6 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 2 2	YES YES NO	5 5 0	5 0 0	H H n/a	SAB SAB AB	S S S	C C C	FR VFIR EXFIR	NO NO YES	NO YES YES	NO NO YES	-	3	1	1	3b	3a	**3b**	Wetness								
277	Core	0	NO	1 2 3 4 5	30 50 100	C C C	10YR 10YR 10YR	3 4 5	2 2 1	0 10 40	0 10YR 10YR	0 5 5	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB AB	M M M	M M C	FIR FIR VFIR	NO NO YES	NO YES YES	NO NO YES	Some small chalk stones at 80 to 100	3	1	1	3b	2	**3b**	Wetness								
278	Core	0	NO	1 2 3 4 5	30 50 100	HCL C C	10YR 10YR 10YR	3 3 5	3 3 1	0 15 40	0 10YR 10YR	0 5 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 2 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB AB	M M M	M M C	FIR FIR VFIR	NO NO NO	NO YES YES	NO NO YES	Some small chalk stones at 80 to 100	3	1	1	3b	2	**3b**	Wetness								
279	Core	0	NO	1 2 3 4 5	30 70	C C	10YR 10YR	4 6	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	H CH	SAB AB	S S	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
280	Core	0	NO	1 2 3 4 5	30 70	C C	10YR 10YR	4 6	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	H CH	SAB AB	S S	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
281	Core	0	NO	1 2 3 4 5	28 70	C C	10YR 10YR	4 6	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	H CH	SAB AB	S S	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
282	Core	0	NO	1 2 3 4 5	36 55 70	HCL MCL SCL	10YR 10YR 10YR	4 4 5	2 2 1	0 15 40	0 10YR 10YR	0 5 6	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	15 5 10	5 0 0	H H H	SAB SAB GR	M M S	M M F	FIR FIR FR	NO YES YES	NO YES YES	NO NO NO	Sandy from 35cm, increases with depth	2	1	3a	3a	3a	**3a**	Topsoil stoniness Wetness Droughti-ness								
283	Core	0	NO	1 2 3 4 5	37 60 90	HCL HCL MCL	10YR 10YR 10YR	4 4 6	3 2 2	0 40 40	0 10YR 10YR	0 6 6	0 6 8	NO YES NO	n/a 10YR n/a	n/a 6 n/a	n/a 2 n/a	0 0 0	YES NO NO	0 0 10	0 0 5	n/a n/a H	SAB AB SAB	M M M	M C M	FIR FIR FIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	1	3b	2	**3b**	Wetness								
284	Core	0	NO	1 2 3 4 5	35 60 85	HCL C C	10YR 10YR 10YR	3 6 6	2 1 1	0 40 10	0 10YR 10YR	0 6 6	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 15	0 5 10	n/a H H	SAB SAB SAB	M M S	M M M	FIR FIR FR	NO YES YES	NO YES YES	NO NO NO	-	2	1	1	3a	2	**3a**	Wetness								
285	Core	0	NO	1 2 3 4 5	35 45 90	HCL HCL SC	10YR 10YR 10YR	3 4 5	2 3 2	0 40 20	0 10YR 10YR	0 5 5	0 6 6	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 2 n/a	0 2 0	YES NO NO	5 5 5	0 0 0	H CH CH	SAB AB AB	M M M	M C C	FIR FIR VFIR	NO YES YES	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness								
286	Core	0	NO	1 2 3 4 5	30 45 100	HCL C C	10YR 10YR 5YR	3 4 4	2 2 2	0 20 20	0 10YR 10YR	0 4 5	0 6 6	NO YES YES	n/a 10YR 5YR	n/a 5 5	n/a 2 2	0 2 2	YES NO NO	5 0 5	0 0 0	H n/a H	SAB AB AB	M M M	M M C	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES YES	Some chalk stones within h3	3	1	1	3b	3a	**3b**	Wetness								
287	Core	0	NO	1 2 3 4 5	30 45 80	HCL HCL C	10YR 10YR 10YR	3 4 5	2 3 1	10 40 20	10YR 10YR 10YR	4 5 5	6 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 2 n/a	0 2 0	YES NO NO	5 5 10	0 0 0	H CH CH	SAB SAB AB	M M M	M M C	FIR FIR VFIR	YES YES NO	NO YES YES	NO YES YES	Some small chalk stone in h1	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness								
288	Core	0	NO	1 2 3 4 5	26 45 85 90	HCL C LFS SC	10YR 10YR 10YR 10YR	3 3 5 6	2 2 8 1	0 2 0 2	0 10YR 0 7.5YR	0 4 0 5	0 6 0 6	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	0 2 0 0	YES NO NO NO	5 5 0 0	0 0 0 0	H H n/a n/a	SAB AB GR AB	M M M M	M C F M	FIR VFIR VFR VFIR	NO NO NO YES	NO NO NO YES	NO YES NO NO	Chalk and sand in h4 clay	2	1	1	3a	2	**3a**	Wetness								

Soil profile descriptions							Soil profile descriptions continued																												ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																				
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
289	Core	0	NO	1	28	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	85	C	7.5YR	5	1	40	10YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				3																																			
				4																																				
				5																																				
290	Core	0	NO	1	30	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	AB	S	M	FIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				2	58	C	7.5YR	4	1	40	7.5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	M	VFIR	NO	YES	NO										
				3	80	C	5YR	3	1	10	5YR	5	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	M	M	FIR	YES	NO	NO										
				4																																			
				5																																			
291	Core	0	NO	1	35	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				2	80	SCL	10YR	4	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FIR	YES	YES	NO										
				3																																			
				4																																			
				5																																			
292	Core	0	NO	1	40	C	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				2	60	C	10YR	3	1	40	10YR	4	4	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				3	75	C	10YR	5	1	40	10YR	6	6	YES	10YR	5	3	0	NO	0	0	n/a	SAB	M	M	FR	NO	YES	NO										
				4	100	C	5YR	3	2	20	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	PL	M	M	FIR	YES	NO	YES										
				5																																			
293	Core	0	NO	1	45	C	10YR	4	1	2	10YR	4	4	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO	-	1	1	1	3a	1	**3a**	Wetness		
				2	70	C	10YR	4	1	20	10YR	5	4	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				3	105	C	10YR	3	2	20	10YR	3	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FR	NO	NO	NO										
				4	115	SC	10YR	5	1	10	10YR	5	4	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				5																																			
294	Core	0	NO	1	40	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				2	65	C	10YR	4	1	20	10YR	4	6	YES	10YR	5	2	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				3	120	C	10YR	3	1	15	10YR	6	8	YES	10YR	4	4	20	NO	0	0	n/a	AB	M	M	FIR	NO	NO	NO	Rust powder in h3	2	1	1	3a	2	**3a**	Wetness		
				4																																			
				5																																			
295	Core	0	NO	1	30	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				2	90	HCL	10YR	3	2	40	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	FIR	NO	NO	YES										
				3	115	C	10YR	4	1	20	5YR	4	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	M	VFIR	NO	YES	NO	-	2	1	1	3a	2	**3a**	Wetness		
				4																																			
				5																																			
296	Core	0	NO	1	36	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	C	VFIR	NO	NO	NO										
				2	80	C	2.5Y	5	4	15	10YR	5	6	YES	10YR	6	1	2	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				3																																			
				4																																			
				5																																			
297	Core	0	NO	1	30	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	C	FIR	NO	NO	NO										
				2	80	C	10YR	5	2	40	10YR	5	8	YES	10YR	6	1	2	NO	5	0	CH	AB	S	C	VFIR	NO	YES	YES										
				3																																			
				4																																			
				5																																			
298	Core	0	NO	1	30	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	C	FIR	NO	NO	NO										
				2	50	C	10YR	5	4	20	10YR	6	6	YES	10YR	6	1	2	NO	0	0	n/a	AB	S	C	FIR	NO	YES	YES										
				3	80	C	10YR	6	1	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	S	C	VFIR	NO	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																			
				5																																			
299	Core	0	NO	1	25	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	5	H	SAB	S	C	FR	NO	NO	NO										
				2	55	C	10YR	4	1	100	10YR	6	8	YES	10YR	6	1	2	NO	5	0	H	SAB	S	C	VFIR	NO	YES	NO										
				3	100	C	10YR	5	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	S	C	EXFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																			
				5																																			
300	Core	0	NO	1	38	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	M	FIR	NO	NO	NO										
				2	90	C	10YR	6	1	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	VC	VFIR	NO	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				3																																			
				4																																			
				5																																			
301	Core	0	NO	1	35	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	5	H	AB	M	M	VFIR	NO	NO	NO										
				2	90	C	10YR	6	2	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	15	10	H	AB	W	C	VFIR	NO	YES	YES	-	3	1	2	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				3																																			
				4																																			
				5																																			
302	Core	0	NO	1	35	C	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	C	FIR	NO	NO	NO										
				2	80	C	10YR	6	1	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	S	C	VFIR	NO	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				3																																			
				4																																			
				5																																			
303	Pit	0	NO	1	35	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	10	5	H	SAB	S	C	FIR	NO	NO	NO										
				2	85	C	10YR	6	1	40	10YR	5	8	NO	n/a	n/a	n/a	0	NO	10	5	H	AB	S	C	VFIR	YES	YES	YES	-	3	1	2	3b	3a	**3b**	Wetness		
				3																																			
				4																																			
				5																																			
304	Core	0	NO	1	27	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				2	64	C	10YR	6	3	20	10YR	6	8	YES	10YR	5	1	0	NO	0	0	n/a	AB	W	C	FIR	YES	YES	YES										
				3	90	C	5YR	4	3	0	0	0	0	YES	5YR	6	1	0	NO	0	0	n/a	SAB	M	M	FIR	YES	NO	NO	-	3	1	1	3b	2	**3b**	Wetness		
				4																																			
				5																																			

Soil profile descriptions							Soil profile descriptions continued																									ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																	
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
305	Core	0	NO	1	30	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	63	C	10YR	6	6	20	10YR	6	8	YES	10YR	6	2	0	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES										
				3	95	C	10YR	6	2	20	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	FIR	YES	YES	NO										
				4																																			
				5																																			
306	Core	0	NO	1	30	HCL	7.5YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	2	**3b**	Wetness		
				2	63	C	10YR	6	3	20	10YR	6	8	YES	10GY	6	1	0	NO	0	0	n/a	AB	M	C	FIR	YES	YES	YES										
				3	95	HCL	10YR	6	2	10	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	FR	YES	YES	NO										
				4																																			
				5																																			
307	Pit	0	NO	1	30	SCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	15	10	H	AB	S	VC	FIR	NO	NO	NO	-	3	1	3a	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	50	SCL	10YR	3	1	20	7.5YR	5	6	YES	10YR	5	1	2	NO	15	10	H	AB	M	C	FIR	NO	YES	YES										
				3	60	SC	10YR	5	4	40	7.5YR	6	8	YES	10YR	6	1	0	YES	10	5	H	AB	M	M	FIR	YES	YES	NO										
				4																																			
				5																																			
308	Core	0	NO	1	35	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	70	C	10YR	6	3	20	10YR	5	6	YES	10YR	6	1	0	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES										
				3																																			
				4																																			
				5																																			
310	Core	0	NO	1	30	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	AB	S	C	VFIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	57	C	10YR	5	1	15	7.5YR	4	6	NO	n/a	n/a	n/a	10	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	YES										
				3	80	C	7.5YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	YES	NO	YES										
				4																																			
				5																																			
311	Core	0	NO	1	28	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	S	M	VFIR	NO	NO	NO	-	1	1	1	2	3a	**3a**	Droughti-ness		
				2	45	SC	10YR	5	1	10	7.5YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	S	M	FIR	NO	YES	NO										
				3	80	MS	10YR	5	8	0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	H	SG	M	F	FR	NO	NO	NO										
				4																																			
				5																																			
312	Pit	0	NO	1	38	C	5YR	4	1	2	5YR	5	8	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	W	C	FIR	NO	YES	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	70	C	5YR	5	1	40	5YR	5	8	NO	n/a	n/a	n/a	10	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES										
				3	85	C	5YR	6	1	40	5YR	6	8	NO	n/a	n/a	n/a	10	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES										
				4																																			
				5																																			
313	Core	0	NO	1	25	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	10	YES	0	0	n/a	AB	S	M	FIR	NO	NO	NO	Sandy deposits/ calcium carbonate at max depth	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	80	C	10YR	4	1	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	S	M	VFIR	YES	YES	NO										
				3																																			
				4																																			
				5																																			
314	Core	0	NO	1	38	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	H	SAB	S	M	VFIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				2	53	C	10YR	6	1	20	7.5YR	5	8	NO	n/a	n/a	n/a	15	YES	0	0	n/a	AB	M	M	FIR	YES	YES	NO										
				3	80	C	10YR	4	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO										
				4																																			
				5																																			
315	Core	0	NO	1	40	C	10YR	4	1	2	10YR	4	4	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	H4 organic clay	2	1	1	2	2	**3a**	Wetness	No organic soils within 30cm	
				2	85	C	10YR	4	1	20	10YR	4	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES										
				3	105	C	10YR	5	1	20	10YR	6	8	YES	10YR	4	4	0	NO	0	0	n/a	AB	S	M	FIR	NO	YES	NO										
				4	120	O-C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	S	M	FR	NO	NO	NO										
				5																																			
316	Core	0	NO	1	40	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				2	105	C	10YR	3	1	15	5YR	4	6	YES	10YR	5	2	2	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES										
				3	120	C	10YR	4	1	10	10YR	4	3	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	S	M	FR	NO	NO	NO										
				4																																			
				5																																			
317	Core	0	NO	1	40	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	10	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	FeMn as deep as 80 cm. Mottle colour intense at depth	2	1	1	3a	2	**3a**	Wetness		
				2	120	C	10YR	4	2	40	10YR	5	8	YES	5YR	5	8	10	NO	0	0	n/a	AB	S	C	FIR	NO	YES	YES										
				3																																			
				4																																			
				5																																			
318	Core	0	NO	1	35	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	H	SAB	S	C	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	75	C	10YR	5	2	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	S	C	VFIR	NO	YES	YES										
				3																																			
				4																																			
				5																																			
319	Core	0	NO	1	30	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	H	SAB	S	C	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	80	C	10YR	5	2	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	S	C	VFIR	YES	YES	YES										
				3																																			
				4																																			
				5																																			
320	Core	0	NO	1	20	C	10YR	3	2	2	7.5YR	5	8	NO	n/a	n/a	n/a	2	YES	0	0	n/a	AB	S	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	60	C	10YR	6	1	40	5YR	5	8	NO	n/a	n/a	n/a	20	NO	0	0	n/a	AB	S	C	FIR	NO	YES	YES										
				3	90	C	10YR	4	1	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	H	AB	S	M	VFIR	YES	YES	NO										
				4																																			
				5																																			

Soil profile descriptions														Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																								
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
321	Core	0	NO	1 2 3 4 5	20 70 95	HCL C C	10YR 10YR 10YR	4 5 5	2 1 1	0 20 40	0 10YR 10YR	0 6 8	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	10 10 10	5 5 5	H H H	SAB AB AB	M M W	M C C	FIR FIR FIR	NO NO NO	NO YES NO	NO YES YES	-	3	1	2	3b	3a	**3b**	Wetness		
322	Core	0	NO	1 2 3 4 5	27 90	C C	10YR 10YR	3 6	2 3	0 20	0 10YR	0 6	0 8	NO YES	n/a 10YR	n/a 5	n/a 1	0 0	YES NO	10 10	5 5	H H	SAB AB	W W	M C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	2	3b	3b	**3b**	Wetness Droughti-ness		
323	Pit	0	NO	1 2 3 4 5	35 85	C C	10YR 10YR	3 6	2 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	2 0	YES NO	10 10	5 5	H H	SAB AB	S S	C C	FIR VFIR	NO YES	NO YES	NO YES	Calcareous deposits at ~70cm	3	1	2	3b	3a	**3b**	Wetness		
324	Core	0	NO	1 2 3 4 5	27 81 90	HCL C C	10YR 10YR 10YR	3 6 5	2 2 1	0 20 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	10 15 10	5 10 5	H H H	SAB AB AB	M W W	M M M	FIR FIR VFIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	2	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
325	Core	0	NO	1 2 3 4 5	28 80	HCL HCL	10YR 10YR	4 5	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	2 2	YES NO	5 5	0 0	H H	SAB AB	S S	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
326	Core	0	NO	1 2 3 4 5	38 80	C C	10YR 10YR	4 6	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 0	0 0	H n/a	SAB AB	S S	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
327	Core	0	NO	1 2 3 4 5	30 60 90	HCL C C	10YR 10YR 7.5YR	4 6 6	1 1 4	0 20 20	0 10YR 7.5YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M W W	M C M	FIR FIR FIR	NO NO NO	NO YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
328	Core	0	NO	1 2 3 4 5	35 90	HCL C	10YR 10YR	4 6	3 1	0 40	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	2 0	YES NO	0 0	0 0	n/a n/a	SAB AB	M W	M C	FR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
329	Core	0	NO	1 2 3 4 5	27 55 95	HCL C HCL	7.5YR 7.5YR 7.5YR	3 5 6	2 3 1	0 40 0	0 7.5YR 0	0 6 0	0 6 0	NO YES NO	n/a 7.5YR n/a	n/a 5 n/a	n/a 3 n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB SAB	S M W	M C F	FIR FIR FR	NO NO YES	NO YES NO	NO YES NO	-	3	1	1	3b	2	**3b**	Wetness		
330	Core	0	NO	1 2 3 4 5	30 50 75	HCL HCL C	10YR 10YR 10YR	4 4 4	1 1 3	0 2 40	0 7.5YR 10YR	0 6 5	0 8 6	NO NO YES	n/a n/a 10YR	n/a n/a 6	n/a n/a 1	0 2 0	YES NO NO	5 0 5	0 0 0	H n/a CH	SAB AB AB	M M M	M C C	FIR FIR VFIR	YES NO YES	NO YES YES	NO YES YES	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
331	Core	0	NO	1 2 3 4 5	30 50 72 85	HCL HCL HCL C	10YR 10YR 10YR 10YR	4 4 3 6	2 2 1 3	0 10 2 40	0 5YR 7.5YR 7.5YR	0 5 5 6	0 8 8 8	NO YES NO NO	n/a N n/a n/a	n/a 6 n/a n/a	n/a 0 n/a n/a	0 2 10 0	YES NO NO NO	0 5 0 0	0 0 0 0	n/a n/a n/a n/a	SAB AB AB AB	M S S M	M C M C	FIR FIR FIR VFIR	YES YES NO NO	NO YES NO NO	NO YES NO NO	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
332	Core	0	NO	1 2 3 4 5	30 55 80	C C C	10YR 10YR 10YR	3 6 6	2 1 1	0 40 20	0 10YR 10YR	0 5 5	0 8 4	NO YES NO	n/a 10YR n/a	n/a 3 n/a	n/a 2 n/a	0 0 2	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB AB AB	M M M	C C C	FIR VFIR VFIR	NO NO YES	NO YES NO	NO YES YES	Chalk h3	3	1	1	3b	3a	**3b**	Wetness		
333	Core	0	NO	1 2 3 4 5	21 48 80	HCL C C	10YR 10YR 10YR	3 3 5	2 2 3	0 2 40	0 10YR 10YR	0 5 5	0 6 8	NO YES YES	n/a 10YR 10YR	n/a 5 6	n/a 2 1	0 0 2	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB AB AB	M M M	M C C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES YES	Chalk h3	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
334	Core	0	NO	1 2 3 4 5	30 58 75	C C C	10YR 10YR 10YR	3 3 5	2 3 3	0 20 10	0 7.5YR 10YR	0 4 5	0 6 6	NO YES YES	n/a 10YR 10YR	n/a 5 6	n/a 2 1	0 2 2	YES NO NO	0 0 5	0 0 0	n/a n/a CH	SAB AB AB	M M M	C C M	VFIR VFIR VFIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
335	Core	0	NO	1 2 3 4 5	31 65 85	C C C	10YR 10YR 10YR	3 6 6	2 1 1	0 40 40	0 7.5YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	10 2 2	YES NO NO	0 0 5	0 0 0	n/a n/a SL	SAB AB AB	W W M	M C M	FIR VFIR FIR	NO YES YES	NO YES YES	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
336	Core	0	NO	1 2 3 4 5	30 70	HCL C	10YR 10YR	3 3	2 1	0 10	0 7.5YR	0 5	0 8	NO YES	n/a 10YR	n/a 5	n/a 2	0 2	YES NO	0 0	0 0	n/a n/a	AB AB	S S	M M	VFIR VFIR	NO NO	NO YES	NO NO	-	2	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	

Soil profile descriptions														Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																									
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
337	Core	0	NO	1 2 3 4 5	25 80	HCL C	10YR 10YR	3 5	2 1	0 40	0 7.5YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	2 2	YES YES	0 0	0 0	n/a n/a	AB AB	S M	M M	FIR FIR	NO NO	NO YES	NO NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
338	Core	0	NO	1 2 3 4 5	36 62 90	C O-C C	10YR 10YR 5YR	4 4 5	2 3 1	2 40 40	10YR 10YR 5YR	6 5 5	8 6 8	NO YES NO	n/a 10YR n/a	n/a 4 n/a	n/a 2 n/a	2 10 10	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	AB AB AB	W W W	C C C	FIR FIR FIR	NO NO NO	YES YES YES	NO NO YES	-	2	1	1	3a	2	**3a**	Wetness		
339	Core	0	NO	1 2 3 4 5	35 70	HCL C	10YR 10YR	4 5	1 1	0 40	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H H	SAB AB	S S	C C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
340	Core	0	NO	1 2 3 4 5	30 70 100	C C C	10YR 10YR 10YR	4 4 5	2 3 1	2 20 40	10YR 10YR 10YR	5 5 5	6 6 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	2 2 2	YES NO NO	5 5 0	0 0 5	H H CH	AB AB AB	M M M	M C VC	FIR FIR VFIR	NO NO YES	YES YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
341	Pit	0	NO	1 2 3 4 5	35 100	C C	10YR 10YR	4 5	2 1	2 40	10YR 10YR	5 5	6 8	NO NO	n/a n/a	n/a n/a	n/a n/a	2 2	YES NO	10 5	0 0	H H	AB AB	S M	C VC	FIR VFIR	NO YES	YES YES	NO YES	Some chalk stones at 80 to 100. 80 to 100 taken with auger. Separate image	3	1	2	3b	3a	**3b**	Wetness		
342	Core	0	NO	1 2 3 4 5	20 45 90	HCL C C	10YR 10YR 10YR	4 6 5	2 1 1	0 20 40	0 10YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	10 10 10	5 5 5	H H H	SAB AB AB	M W W	M C C	FIR FIR FIR	NO NO NO	NO YES YES	NO YES YES	-	3	1	2	3b	3b	**3b**	Wetness Droughti-ness		
343	Core	0	NO	1 2 3 4 5	35 60 115	C C C	10YR 10YR 2.5Y	3 4 5	2 1 1	0 20 15	0 10YR 7.5YR	0 6 6	0 6 8	NO YES NO	n/a 10YR n/a	n/a 4 n/a	n/a 3 n/a	0 2 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB MAS	W W W	M C VC	FIR FIR EXFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	2	**3b**	Wetness		
344	Core	0	NO	1 2 3 4 5	25 82 95	C C C	10YR 10YR 10YR	3 6 5	2 3 1	0 20 40	0 10YR 10YR	0 6 6	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 0 0	YES NO NO	10 10 15	5 5 10	H H H	SAB AB AB	M M W	M C C	FIR FIR FIR	NO NO NO	NO YES YES	NO YES NO	-	3	1	2	3b	3b	**3b**	Wetness Droughti-ness		
345	Core	0	NO	1 2 3 4 5	30 75 85	C C C	10YR 10YR 10YR	3 6 5	2 2 2	0 40 40	0 10YR 10YR	0 6 6	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 15 10	YES NO NO	0 10 15	0 5 10	n/a H H	SAB AB AB	M W W	M C VC	FIR VFIR FIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
346	Core	0	NO	1 2 3 4 5	33 55 82	HCL C C	10YR 10YR 10YR	3 5 6	2 2 1	0 10 20	0 10YR 10YR	0 5 6	0 6 6	NO NO YES	n/a n/a 10YR	n/a n/a 4	n/a n/a 2	0 2 2	YES NO NO	0 5 0	0 0 0	n/a H n/a	SAB AB AB	M M M	M C C	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES YES	Chalk h3	3	1	1	3b	3a	**3b**	Wetness		
347	Core	0	NO	1 2 3 4 5	36 80	C C	10YR 10YR	3 5	2 2	0 20	0 10YR	0 5	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 0	5 0	H n/a	AB AB	M M	C C	VFIR VFIR	NO YES	NO YES	NO YES	Chalk at bottom of h2	3	1	1	3b	3a	**3b**	Wetness		
348	Core	0	NO	1 2 3 4 5	35 65 80	C C C	10YR 10YR 10YR	3 3 5	2 2 2	0 10 40	0 7.5YR 7.5YR	0 5 5	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES NO NO	5 5 0	0 0 0	H H n/a	AB AB AB	M M M	C C C	VFIR VFIR VFIR	NO NO NO	NO NO YES	NO YES YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	**
349	Pit	0	NO	1 2 3 4 5	25 90	C C	10YR 10YR	3 5	2 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	2 2	YES NO	10 0	0 0	H n/a	SAB AB	S S	VC C	FIR VFIR	NO NO	NO YES	NO YES	Calcareous horizon at ~70cm	3	1	2	3b	3a	**3b**	Wetness		
350	Core	0	NO	1 2 3 4 5	30 75	HCL C	10YR 10YR	4 5	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	H H	SAB AB	S M	M C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
351	Core	0	NO	1 2 3 4 5	25 80	HCL C	10YR 10YR	3 6	2 2	0 40	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	15 15	10 10	H H	SAB AB	M W	M C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	3a	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
352	Core	0	NO	1 2 3 4 5	30 60 82 91	HCL C LFS SC	10YR 10YR 10YR 10YR	3 3 5 6	2 2 6 1	0 10 0 15	0 10YR 0 7.5YR	0 5 0 5	0 6 0 4	NO YES NO NO	n/a 10YR n/a n/a	n/a 5 n/a n/a	n/a 2 n/a n/a	0 0 0 0	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB AB GR AB	M M M M	M C F M	FIR VFIR VFR VFIR	NO NO NO YES	NO YES NO NO	NO YES NO NO	Some greyish mottles at bottom of h2	3	1	1	3b	2	**3b**	Wetness		

Soil profile descriptions														Soil profile descriptions continued																										ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																											
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
353	Core	0	NO	1 2 3 4 5	30 80	C C	10YR 5YR	3 4	2 3	0 10	0 7.5YR	0 5	0 6	NO YES	n/a 5YR	n/a 4	n/a 2	0 2	YES NO	5 0	0 0	H n/a	SAB AB	M M	C C	VFIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
354	Core	0	NO	1 2 3 4 5	30 45 60 90 120	SCL SCL SCL LFS C	10YR 10YR 10YR 10YR 5YR	3 3 5 6 4	1 1 2 8 1	0 10 40 0 40	0 10YR 10YR 0 2.5YR	0 4 6 0 5	0 4 8 0 4	NO NO YES NO NO	n/a n/a 5YR n/a n/a	n/a n/a 5 n/a n/a	n/a n/a 6 n/a n/a	0 0 0 0 0	YES NO NO NO NO	0 0 0 0 5	0 0 0 0 0	n/a n/a n/a n/a CH	SAB SAB SAB GR AB	W M W S M	M M C F M	FIR FIR FIR FR EXFIR	NO NO NO NO YES	NO NO YES NO NO	NO NO YES NO NO	-	2	1	1	2	2	**2**	Wetness Droughti-ness		*
355	Core	0	NO	1 2 3 4 5	35 80	HCL C	10YR 10YR	3 5	2 4	0 20	0 10YR	0 5	0 6	NO YES	n/a 10YR	n/a 3	n/a 2	0 2	YES NO	0 5	0 0	n/a H	SAB AB	M M	C C	FIR VFIR	NO YES	NO NO	NO YES	Some chalk at 80cm	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
356	Core	0	NO	1 2 3 4 5	45 60 85	C MSL LMS	10YR 10YR 10YR	3 6 5	1 3 6	0 2 0	0 10YR 0	0 5 0	0 6 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 0	YES NO NO	0 0 10	0 0 0	n/a n/a H	SAB GR GR	W S S	M F F	FIR FIR FR	NO NO NO	NO YES NO	NO NO NO	-	1	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
357	Core	0	NO	1 2 3 4 5	30 46 74 95	C HP C SC	10YR 10YR 10YR 10YR	3 3 6 6	3 3 1 1	10 20 40 40	7.5YR 10YR 10YR 10YR	6 6 6 6	8 8 8 8	NO YES YES YES	n/a 10YR 10YR 10YR	n/a 4 5 5	n/a 2 2 2	2 0 40 0	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB AB AB GR	W W W W	M M C F	FIR FIR VFIR FR	NO NO NO YES	NO YES YES YES	NO NO YES NO	-	3	1	1	3b	1	**3b**	Wetness		
358	Core	0	NO	1 2 3 4 5	42 60 85	C C C	10YR 5YR 5YR	4 5 6	2 1 1	2 40 40	5YR 5YR 5YR	6 6 6	8 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 0 10	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	AB AB AB	W W W	VC C VC	FIR FIR VFIR	NO NO NO	YES YES YES	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
359	Core	0	NO	1 2 3 4 5	45 90	C C	5YR 5YR	3 5	1 1	0 40	0 5YR	0 5	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	10 20	YES NO	0 0	0 0	n/a n/a	AB AB	M M	M M	FIR FIR	NO NO	NO YES	NO NO	-	1	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
360	Core	0	NO	1 2 3 4 5	50 82	C C	10YR 10YR	4 5	1 2	0 40	0 10YR	0 5	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 15	YES NO	0 0	0 0	n/a n/a	AB AB	W W	C M	FIR FIR	NO NO	NO YES	NO YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
361	Core	0	NO	1 2 3 4 5	45 80 100	C C C	10YR 10YR 10YR	3 5 5	2 1 1	0 40 40	0 10YR 7.5YR	0 6 5	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 10	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	AB AB AB	W W W	C C M	FIR FIR FIR	NO NO NO	NO YES YES	NO YES NO	-	2	1	1	3a	3a	**3a**	Wetness Droughti-ness		
362	Core	0	NO	1 2 3 4 5	35 80 110	HCL C C	10YR 10YR 10YR	3 5 6	3 2 1	2 40 40	10YR 10YR 10YR	5 6 6	4 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	2 2 0	YES NO NO	0 5 5	0 0 0	n/a H H	SAB AB MAS	M W W	M C VC	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES NO	Ca flint on h3	3	1	1	3b	3a	**3b**	Wetness		
363	Core	0	NO	1 2 3 4 5	37 85	HCL HCL	10YR 7.5YR	4 5	2 2	0 40	0 2.5YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 10	0 5	n/a H	SAB AB	M M	M C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
364	Core	0	NO	1 2 3 4 5	30 70 90	C C C	10YR 10YR 10YR	3 5 5	2 2 1	0 20 0	0 10R 0	0 6 0	0 8 0	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M W W	M C C	FIR FIR FIR	NO NO NO	NO YES NO	NO YES YES	-	3	1	1	3b	3a	**3b**	Wetness		
365	Core	0	NO	1 2 3 4 5	35 80 110	C C C	10YR 10YR 10YR	4 4 5	2 3 1	0 20 20	0 10YR 10YR	0 5 5	0 6 6	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 0 2	YES NO NO	5 0 5	0 0 0	H n/a CH	SAB AB AB	M M M	C C VC	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
366	Core	0	NO	1 2 3 4 5	30 70 120	HCL C C	10YR 5YR 10YR	4 4 5	2 2 1	0 20 15	0 10YR 5YR	0 4 4	0 6 6	NO YES YES	n/a 10YR 5YR	n/a 5 4	n/a 1 2	0 2 2	YES NO NO	5 0 5	0 0 0	H n/a CH	SAB AB AB	M M M	M C VC	FIR VFIR VFIR	NO NO YES	NO YES YES	NO YES YES	-	3	1	1	3b	2	**3b**	Wetness		
367	Core	0	NO	1 2 3 4 5	30 63 95	HCL C HCL	10YR 10YR 5YR	3 6 5	2 3 3	0 40 10	0 10YR 10YR	0 6 6	0 8 6	NO YES YES	10YR 10YR 5YR	n/a 5 6	n/a 1 1	0 2 0	YES NO NO	10 10 10	5 5 5	H H H	AB AB AB	M W W	M C C	FIR FIR FIR	NO NO NO	NO YES YES	NO YES YES	-	3	1	2	3b	3a	**3b**	Wetness		
368	Core	0	NO	1 2 3 4 5	33 60 80	C C C	10YR 10YR 5YR	3 5 4	2 2 3	0 20 15	0 7.5YR 10YR	0 5 5	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	35 0 0	0 0 0	H n/a n/a	AB AB AB	M M M	C C C	VFIR VFIR VFIR	YES NO NO	NO YES NO	NO YES YES	-	3	1	3b	3a	3b	**3b**	Topsoil stoniness Droughti-ness		

Soil profile descriptions							Soil profile descriptions continued																												ALC for areas represented by individual survey points									
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																					
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
369	Core	0	NO	1 2 3 4 5	35 80	C C	10YR 10YR	3 5	2 2	0 15	0 7.5YR	0 5	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	AB AB	M W	C C	VFIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
370	Core	0	NO	1 2 3 4 5	30 80	HCL C	10YR 10YR	4 5	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	H CH	SAB AB	S M	C C	FIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
371	Core	0	NO	1 2 3 4 5	25 80	HCL C	10YR 10YR	4 5	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	10 5	5 0	H CH	SAB AB	S M	C C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	2	3b	3a	**3b**	Wetness		
372	Core	0	NO	1 2 3 4 5	36 65 85	C C C	10YR 10YR 10YR	3 5 5	2 1 2	0 40 40	0 10YR 10YR	0 6 5	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 10 0	YES NO NO	10 10 10	5 5 5	H H H	SAB AB AB	W M W	M C VC	FIR FIR VFIR	NO NO NO	NO YES YES	NO YES YES	-	3	1	2	3b	3a	**3b**	Wetness		
373	Core	0	NO	1 2 3 4 5	30 79	HCL C	10YR 10YR	3 4	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB PL	S S	M C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
374	Core	0	NO	1 2 3 4 5	30 80	HCL C	10YR 10YR	3 4	1 1	0 40	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB PL	S S	M C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
375	Core	0	NO	1 2 3 4 5	36 80	C C	10YR 10YR	3 5	2 2	0 15	0 7.5YR	0 4	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 5	0 0	n/a CH	AB AB	M M	C C	VFIR VFIR	NO YES	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
376	Core	0	NO	1 2 3 4 5	38 72 92	C C SCL	10YR 7.5YR 10YR	3 4 3	2 2 1	0 15 0	0 10YR 0	0 4 0	0 6 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	AB AB GR	M M M	C C F	VFIR VFIR FR	NO NO NO	NO YES NO	NO YES NO	-	3	1	1	3b	2	**3b**	Wetness		
377	Core	0	NO	1 2 3 4 5	32 80	C C	10YR 7.5YR	3 4	2 2	0 15	0 7.5YR	0 4	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	M M	C C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
378	Core	0	NO	1 2 3 4 5	40 80 95 110	C C C SCL	10YR 10YR 10YR 10YR	3 3 4 4	1 1 1 4	0 20 20 20	0 10YR 10YR 10YR	0 4 5 5	0 4 6 6	NO YES YES NO	n/a 5YR 5YR n/a	n/a 4 4 n/a	n/a 4 4 n/a	2 0 0 0	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB SAB AB GR	W M M S	M M M F	FIR FIR FIR FR	NO NO NO NO	NO NO YES NO	NO NO NO NO	-	1	1	1	3a	1	**3a**	Wetness		
379	Core	0	NO	1 2 3 4 5	30 55 70 100	C C C SCL	10YR 10YR 10YR 10YR	4 4 5 4	2 1 1 1	0 40 20 10	0 5YR 10YR 10YR	0 4 6 5	0 4 6 6	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	2 2 0 0	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB AB AB SAB	M M M M	M M M M	FIR FIR FIR FR	NO NO YES YES	NO NO YES YES	NO NO NO NO	-	1	1	1	3a	2	**3a**	Wetness		
380	Core	0	NO	1 2 3 4 5	20 56 72 90	C C C HP	10YR 7.5YR 7.5YR 10YR	5 6 5 2	1 1 1 1	10 40 40 0	7.5YR 7.5YR 7.5YR 0	6 6 6 0	6 8 6 0	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	10 10 10 0	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	AB AB AB SG	W W W M	M C F 0	FIR FIR FIR FR	NO NO NO NO	YES YES YES NO	NO YES YES NO	-	3	1	1	3b	2	**3b**	Wetness		
381	Core	0	NO	1 2 3 4 5	35 67 85	C C HP	7.5YR 7.5YR 10YR	3 5 2	2 1 1	0 40 0	0 7.5YR 0	0 5 0	0 8 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 20 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	AB AB GR	W W W	M VC F	FIR FIR FR	NO NO NO	NO YES NO	NO YES NO	-	3	1	1	3b	2	**3b**	Wetness		
382	Core	0	NO	1 2 3 4 5	30 68 95 110	C C HCL O-FS	10YR 7.5YR 7.5YR 7.5YR	3 4 5 5	2 2 1 1	0 40 100 0	0 7.5YR 7.5YR 0	0 6 6 0	0 6 6 0	NO NO NO NO	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	0 2 0 0	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	AB AB SAB GR	W W W W	C C M F	FIR FIR FR FR	NO NO NO NO	NO YES YES NO	NO YES NO NO	-	3	1	1	3b	2	**3b**	Wetness		
383	Core	0	NO	1 2 3 4 5	35 55 110	C C C	10YR 10YR 10YR	4 6 6	2 1 1	0 40 20	0 10YR 10YR	0 6 6	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	5 0 15	0 0 0	H n/a CH	SAB AB MAS	M M W	M C C	FIR FIR VFIR	YES YES YES	NO YES YES	NO YES YES	Calcareous flint in h2 and h3	3	1	1	3a	2	**3a**	Wetness		**
384	Core	0	NO	1 2 3 4 5	29 60	HCL C	10YR 10YR	3 5	2 1	0 40	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	M W	M C	FIR FIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	

Soil profile descriptions														Soil profile descriptions continued																							ALC for areas represented by individual survey points									
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																									
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
385	Core	0	NO	1	30	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	80	C	10YR	4	2	40	10YR	5	6	YES	10YR	5	1	0	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES										
				3	95	C	10YR	5	1	10	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	C	FIR	NO	YES	NO										
				4																																										
				5																																										
386	Core	0	NO	1	30	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	5	H	SAB	M	M	FIR	NO	NO	NO	-	3	1	2	3b	3a	**3b**	Wetness		
				2	75	C	10YR	4	3	40	10YR	5	8	YES	10YR	5	1	2	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES										
				3	110	C	10YR	5	1	20	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	M	VC	VFIR	YES	YES	YES										
				4																																										
				5																																										
387	Core	0	NO	1	25	C	10YR	4	2	2	10YR	5	6	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	M	M	FIR	NO	YES	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	90	C	5YR	4	3	40	7.5YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	PR	W	C	VFIR	NO	NO	YES										
				3	115	C	5YR	4	1	10	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	MAS	W	VC	VFIR	YES	YES	NO										
				4																																										
				5																																										
388	Core	0	NO	1	35	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	60	HZCL	10YR	6	1	20	10YR	6	6	NO	n/a	n/a	n/a	0	NO	15	5	CH	SAB	S	M	FR	YES	YES	NO										
				3	80	C	10YR	6	1	20	10YR	6	6	YES	10YR	4	4	0	NO	5	0	CH	AB	S	C	FIR	YES	YES	YES										
				4																																										
				5																																										
389	Core	0	NO	1	40	HCL	10YR	4	2	2	10YR	5	6	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	YES	NO										
				2	60	C	10YR	4	4	20	7.5YR	5	6	YES	10YR	6	1	2	NO	10	0	H	AB	W	C	VFIR	NO	YES	YES										
				3	85	C	5YR	4	4	40	7.5YR	6	6	YES	10YR	6	1	0	NO	0	0	n/a	AB	W	C	VFIR	NO	YES	YES	Flint of ca in h5	3	1	1	3b	3a	**3b**	Wetness		
				4	88	MS	10YR	5	4	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SG	W	F	VFR	NO	NO	NO										
				5	110	C	5YR	5	1	40	5YR	4	4	NO	n/a	n/a	n/a	0	NO	0	0	n/a	MAS	W	0	EXFIR	NO	NO	NO										
390	Core	0	NO	1	30	C	10YR	4	1	2	7.5YR	5	8	NO	n/a	n/a	n/a	2	YES	10	5	H	SAB	S	C	FIR	NO	YES	NO	-	2	1	2	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	65	C	10YR	5	1	40	7.5YR	6	8	NO	n/a	n/a	n/a	2	YES	5	0	H	AB	M	C	VFIR	NO	YES	NO										
				3																																										
				4																																										
				5																																										
391	Core	0	NO	1	30	C	10YR	4	1	2	7.5YR	5	8	NO	n/a	n/a	n/a	2	YES	10	5	H	SAB	S	C	FIR	NO	YES	NO	-	3	1	2	3b	3a	**3b**	Wetness		
				2	55	C	10YR	7	1	20	10YR	5	8	NO	n/a	n/a	n/a	0	YES	5	0	CH	AB	S	C	FIR	YES	YES	NO										
				3	80	C	10YR	6	1	20	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES										
				4																																										
				5																																										
392	Core	0	NO	1	33	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	5	H	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	65	C	10YR	4	2	15	7.5YR	4	6	NO	n/a	n/a	n/a	2	NO	5	0	H	AB	M	C	VFIR	NO	YES	YES										
				3	80	C	5YR	4	2	20	7.5YR	5	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				4																																										
				5																																										
393	Core	0	NO	1	25	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	40	C	10YR	4	2	2	10YR	5	6	NO	n/a	n/a	n/a	2	YES	0	0	n/a	AB	M	C	VFIR	NO	YES	NO										
				3	85	C	5YR	4	2	15	7.5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	W	C	VFIR	NO	YES	YES										
				4																																										
				5																																										
394	Core	0	NO	1	30	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	15	YES	15	5	H	SAB	M	M	FIR	NO	NO	NO	-	3	1	3a	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	65	C	10YR	6	2	15	10YR	6	6	NO	n/a	n/a	n/a	15	NO	15	10	H	AB	W	M	FIR	NO	YES	YES										
				3	85	C	10YR	5	2	40	10YR	6	8	NO	n/a	n/a	n/a	20	NO	0	0	n/a	AB	M	M	FIR	NO	YES	NO										
				4																																										
				5																																										
395	Core	0	NO	1	30	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	50	C	10YR	4	1	20	5YR	5	8	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	S	C	VFIR	NO	YES	NO										
				3	80	C	10YR	5	1	40	10YR	6	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	S	C	VFIR	NO	YES	YES										
				4																																										
				5																																										
396	Core	0	NO	1	30	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	50	C	10YR	4	1	20	5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	S	C	VFIR	NO	YES	YES										
				3	65	CSL	10YR	3	1	10	7.5YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	F	FR	NO	NO	NO										
				4	75	MSL	10YR	5	4	40	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	M	FR	NO	NO	NO										
				5																																										
397	Core	0	NO	1	38	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	40	YES	0	0	n/a	AB	M	C	VFIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	82	C	5YR	5	1	10	10YR	4	4	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				3																																										
				4																																										
				5																																										
398	Core	0	NO	1	23	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	51	C	10YR	3	2	2	10YR	4	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	VFIR	NO	NO	YES										
				3	66	SCL	10YR	3	2	2	10YR	4	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	M	FR	NO	NO	NO	Hit stones at 66cm										
				4																																										
				5																																										
399	Core	0	NO	1	35	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	C	VFIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	60	C	7.5YR	4	2	15	7.5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				3	82	C	10YR	6	1	20	10YR	6	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				4																																										
				5																																										
400	Core	0	NO	1	30	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	2	**3b**	Wetness		
				2	70	C	10YR	4	1	15	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES										
				3	90	C	10YR	4	1	20	7.5YR	5	6	YES	7.5YR	6	1	0	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES										
				4	110	O-MS	10YR	2	1	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	S	M	FIR	NO	NO	NO	H4 is humic										
				5																																										

Soil profile descriptions											Soil profile descriptions continued																										ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																							
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
401	Core	0	NO	1	30	ZC	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	S	C	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	80	ZC	10YR	4	1	40	5YR	5	8	NO	n/a	n/a	n/a	10	NO	0	0	n/a	AB	S	C	VFIR	NO	YES	YES										
				3																																			
				4																																				
				5																																				
402	Core	0	NO	1	40	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO										
				2	85	C	10YR	4	1	20	10YR	6	6	YES	5YR	6	4	0	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO										
				3	100	C	10YR	5	1	20	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	M	FIR	NO	YES	NO	Clay over clay	1	1	1	3a	1	**3a**	Wetness		
				4	115	C	10YR	3	1	2	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	VFIR	NO	NO	NO										
				5																																			
403	Core	0	NO	1	50	C	7.5YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	W	M	FIR	NO	NO	NO										
				2	90	C	7.5YR	4	1	100	7.5YR	6	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				3																																			
				4																																				
				5																																				
404	Core	0	NO	1	35	HCL	10YR	3	2	10	10YR	5	6	NO	n/a	n/a	n/a	2	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO										
				2	80	C	10YR	5	3	10	5YR	6	6	YES	10GY	6	6	0	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES										
				3	120	C	10YR	6	1	20	10YR	4	4	YES	5YR	5	6	0	NO	5	0	SFS	AB	W	C	FIR	YES	NO	NO	Calcareous in h3	3	1	1	3b	2	**3b**	Wetness		
				4																																			
				5																																				
405	Core	0	NO	1	30	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	H	SAB	M	M	FIR	NO	NO	NO										
				2	70	C	10YR	4	3	20	10YR	5	6	YES	10YR	5	1	2	NO	0	5	H	AB	M	C	FIR	NO	YES	YES										
				3	100	C	10YR	5	1	20	10YR	4	6	NO	n/a	n/a	n/a	0	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES	-	3	1	2	3b	3a	**3b**	Wetness		
				4																																			
				5																																				
406	Pit	0	NO	1	25	C	10YR	4	2	10	10YR	5	6	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	C	FIR	NO	YES	NO										
				2	55	C	10YR	5	1	20	10YR	5	8	YES	10YR	4	3	2	NO	5	0	H	AB	M	C	FIR	NO	YES	YES										
				3	80	C	5YR	4	2	10	10YR	5	8	YES	10YR	5	1	0	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																			
				5																																				
407	Core	0	NO	1	35	HCL	10YR	4	2	2	10YR	5	6	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	YES	NO										
				2	80	C	5YR	4	2	20	10YR	4	6	YES	10YR	5	1	2	NO	5	0	H	AB	M	C	FIR	NO	YES	YES										
				3	100	C	10YR	5	1	20	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	M	C	VFIR	YES	YES	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																			
				5																																				
408	Core	0	NO	1	37	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	W	M	FIR	NO	NO	NO										
				2	70	C	7.5YR	5	2	20	7.5YR	6	6	YES	5YR	5	6	0	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES	Ca flint in h3 and h4.										
				3	85	C	10YR	4	1	15	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	PR	W	C	VFIR	NO	YES	YES	Increasing ca with depth	3	1	1	3b	2	**3b**	Wetness		
				4	115	C	10YR	5	1	2	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	MAS	W	0	VFIR	YES	NO	NO	in h4										
				5																																				
409	Core	0	NO	1	45	HCL	10YR	4	2	2	10YR	5	6	NO	n/a	n/a	n/a	2	YES	10	5	H	SAB	S	M	FIR	NO	YES	NO										
				2	85	SC	10YR	6	1	20	10YR	6	6	YES	10YR	4	4	2	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO										
				3	100	MSL	7.5YR	6	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	S	F	FR	NO	NO	NO	Ca flint in h4	2	1	2	3a	2	**3a**	Wetness		
				4	115	C	5YR	4	1	20	5YR	5	4	YES	10YR	6	6	0	NO	0	0	n/a	MAS	W	0	EXFIR	YES	NO	NO										
				5																																				
410	Core	0	NO	1	32	C	10YR	4	3	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	W	C	FIR	NO	NO	NO										
				2	70	C	10YR	6	2	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES										
				3	83	C	10YR	6	2	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	MAS	W	VC	EXHD	NO	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																			
				5																																				
411	Core	0	NO	1	23	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO										
				2	40	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	VFIR	NO	NO	NO										
				3	80	C	5YR	4	3	10	7.5YR	4	6	YES	10YR	5	2	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																			
				5																																				
412	Core	0	NO	1	30	C	10YR	4	1	2	7.5YR	5	8	NO	n/a	n/a	n/a	2	YES	5	0	H	SAB	S	C	FIR	NO	YES	NO										
				2	75	C	10YR	4	3	40	5YR	6	8	YES	10YR	5	1	2	NO	5	0	H	AB	M	C	VFIR	NO	YES	YES										
				3	80	MSL	10YR	5	2	10	7.5YR	5	8	NO	n/a	n/a	n/a	2	NO	10	5	H	GR	W	M	FR	YES	YES	NO	-	3	1	1	3b	3b	**3b**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																			
				5																																				
413	Core	0	NO	1	35	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO										
				2	70	C	10YR	4	3	40	7.5YR	5	8	YES	10YR	6	1	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				3																																				
				4																																				
				5																																				
414	Core	0	NO	1	30	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				2	60	C	10YR	4	2	20	7.5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				3	80	C	5YR	4	3	15	7.5YR	4	6	YES	10YR	6	1	2	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																			
				5																																				
415	Core	0	NO	1	39	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				2	68	MSL	7.5YR	4	4	20	7.5YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	F	FR	NO	NO	NO										
				3	85	C	10YR	5	1	40	7.5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	YES	-	2	1	1	3a	2	**3a**	Wetness		
				4																																			
				5																																				
416	Core	0	NO	1	40	C	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	15	10	H	SAB	M	M	FIR	NO	NO	NO										
				2	75	C	10YR	7	2	40	10YR	6	8	NO	n/a	n/a	n/a	10	NO	10	5	H	AB	W	C	FIR	NO	YES	YES										
				3	95	SC	10YR	6	2	40	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	M	FIR	NO	YES	NO	-	2	1	3a	3a	3a	**3a**	Topsoil stoniness Wetness Droughti-ness		
				4																																			
				5																																				

Soil profile descriptions														Soil profile descriptions continued																							ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																								
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
417	Core	0	NO	1	25	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	S	C	FIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				2	45	C	10YR	5	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	20	YES	0	0	n/a	AB	S	C	VFIR	NO	YES	NO										
				3	80	C	10YR	7	2	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	M	M	FIR	YES	YES	NO										
				4																																								
				5																																								
418	Core	0	NO	1	26	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	3a	3a	**3a**	Wetness Droughti-ness		
				2	50	C	10YR	3	2	2	10YR	4	6	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	M	C	VFIR	NO	NO	YES										
				3	80	C	7.5YR	4	2	20	10YR	4	6	YES	10YR	5	1	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				4	90	C	5YR	4	3	10	10YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	NO	NO										
				5																																								
419	Core	0	NO	1	40	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				2	60	C	10YR	6	1	40	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES										
				3	75	C	7.5YR	6	1	40	7.5YR	6	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	SAB	M	M	FIR	YES	YES	NO										
				4	85	MCL	10YR	6	1	10	10YR	6	8	NO	n/a	n/a	n/a	0	NO	10	5	CH	SAB	S	M	FR	YES	YES	NO										
				5																																								
420	Core	0	NO	1	40	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO	Clay over clay	1	1	1	3a	2	**3a**	Wetness		
				2	75	C	10YR	4	3	15	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	FIR	NO	NO	NO										
				3	105	C	10YR	4	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	M	FIR	NO	YES	NO										
				4																																								
				5																																								
421	Core	0	NO	1	30	C	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	H3 sandy note to lower boundary, not thick enough for sep horizon	2	1	1	2	1	**3a**	Wetness	Organic soil not within 30cm	
				2	60	O-C	10YR	3	1	15	10YR	5	6	YES	10YR	5	1	0	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO										
				3	105	C	2.5Y	5	1	20	7.5YR	5	8	YES	5YR	6	4	0	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				4	110	SCL	5YR	5	2	20	5YR	6	4	NO	n/a	n/a	n/a	2	NO	0	0	n/a	GR	S	M	FR	NO	NO	NO										
				5																																								
422	Core	0	NO	1	40	C	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO	-	1	1	1	3a	1	**3a**	Wetness		
				2	90	C	10YR	3	2	15	10YR	4	4	NO	n/a	n/a	n/a	10	NO	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				3	105	HCL	10YR	3	1	40	7.5YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FR	NO	NO	NO										
				4																																								
				5																																								
423	Core	0	NO	1	30	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	2	**3b**	Wetness		
				2	55	C	10YR	5	1	40	10YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	M	C	FIR	NO	YES	YES										
				3	110	C	10YR	5	1	20	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES										
				4																																								
				5																																								
424	Core	0	NO	1	35	HCL	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	C	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	50	C	10YR	4	3	20	10YR	4	6	YES	10YR	5	1	0	NO	5	0	H	AB	M	C	FIR	NO	YES	YES										
				3	90	C	10YR	5	1	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	0	C	VFIR	YES	YES	YES										
				4																																								
				5																																								
425	Core	0	NO	1	35	C	10YR	4	2	10	10YR	5	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	W	M	FIR	NO	YES	NO	Ca flint in h4 and h5	3	1	1	3b	2	**3b**	Wetness		
				2	45	C	10YR	6	1	40	10YR	6	8	YES	10YR	5	3	2	NO	5	0	H	SAB	M	M	FIR	NO	YES	NO										
				3	75	C	10YR	6	1	20	7.5YR	6	8	YES	10YR	5	6	2	NO	0	0	n/a	AB	W	C	VFIR	NO	YES	YES										
				4	97	C	10YR	4	1	20	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	S	M	FIR	YES	NO	NO										
				5	110	CSL	7.5YR	5	4	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	S	M	FR	YES	NO	NO										
426	Core	0	NO	1	50	C	7.5YR	4	2	2	7.5YR	5	6	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	VFIR	NO	YES	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	100	C	5YR	4	3	20	10YR	5	8	YES	5YR	5	1	0	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				3																																								
				4																																								
				5																																								
427	Core	0	NO	1	30	C	7.5YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	AB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	100	C	5YR	4	3	10	10YR	5	8	YES	5YR	5	1	0	NO	0	0	n/a	AB	M	VC	VFIR	NO	YES	YES										
				3																																								
				4																																								
				5																																								
428	Core	0	NO	1	38	MCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	2	2	**2**	Wetness Droughti-ness		
				2	55	FSL	10YR	5	4	2	10YR	5	6	YES	10YR	6	3	0	NO	0	0	n/a	GR	M	F	VFR	NO	YES	NO										
				3	65	SCL	10YR	4	4	15	10YR	5	8	YES	10YR	5	3	0	NO	0	0	n/a	SAB	M	M	FR	NO	YES	NO										
				4	85	C	10YR	5	2	40	10YR	5	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				5																																								
429	Core	0	NO	1	40	SCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	M	FIR	NO	NO	NO	stopped on stone	1	1	1	1	3a	**3a**	Droughti-ness		
				2	65	CSL	10YR	7	1	100	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	W	F	FR	NO	YES	NO										
				3																																								
				4																																								
				5																																								
430	Core	0	NO	1	35	HCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	55	SCL	10YR	5	2	20	10YR	5	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	GR	W	M	FR	NO	NO	NO										
				3	70	FS	10YR	5	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SFS	GR	W	F	FR	NO	NO	NO										
				4																																								
				5																																								
431	Core	0	NO	1	35	C	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	S	C	FIR	YES	NO	NO	-	3	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	65	C	10YR	5	1	40	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				3																																								
				4																																								
				5																																								
432	Core	0	NO	1	35	C	10YR	3	2	2	10YR	5	8	NO	n/a	n/a	n/a	2	YES	5	0	H	AB	S	M	VFIR	NO	NO	NO	Stones restricting at max depth	2	1	1	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	65	SC	10YR	5	1	40	10YR	5	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	W	M	FIR	YES	YES	NO										
				3																																								
				4																																								
				5																																								

Soil profile descriptions							Soil profile descriptions continued																											ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																			
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
433	Core	0	NO	1	30	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	C	VFIR	NO	NO	NO									
				2	55	MSL	7.5YR	5	3	20	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	F	FR	NO	YES	NO									
				3	80	C	10YR	4	3	10	7.5YR	5	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	M	C	VFIR	YES	NO	YES	Chalk in h3	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
434	Core	0	NO	1	45	C	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO									
				2	80	SCL	10YR	6	3	10	10YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	S	M	FR	NO	YES	NO									
				3	105	SCL	10YR	6	3	40	7.5YR	6	6	NO	n/a	n/a	n/a	0	NO	5	0	H	GR	S	M	FR	NO	YES	NO	Sandy from 45 cm	1	1	1	3a	1	**3a**	Wetness		
				4																																		
				5																																		
435	Core	0	NO	1	35	ZC	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO									
				2	60	ZC	10YR	4	1	15	10YR	4	4	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				3	85	SC	10YR	4	1	10	10YR	6	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO	-	1	1	1	3a	1	**3a**	Wetness		
				4	105	SCL	10YR	6	2	20	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	H	GR	S	M	FR	NO	YES	NO									
				5																																		
436	Core	0	NO	1	25	C	10YR	4	2	0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	M	FIR	NO	NO	NO									
				2	40	C	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	FIR	NO	NO	NO									
				3	55	C	10YR	5	1	40	10YR	6	6	YES	5YR	5	6	2	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO	-	1	1	1	3a	1	**3a**	Wetness		
				4	75	C	10YR	4	1	15	7.5YR	5	6	NO	n/a	n/a	n/a	10	NO	5	0	H	SAB	M	M	FIR	NO	YES	NO									
				5	100	SC	10YR	6	3	15	10YR	7	8	NO	n/a	n/a	n/a	0	NO	10	0	CH	SAB	M	M	FR	YES	NO	NO									
437	Core	0	NO	1	40	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				2	55	SC	10YR	5	4	20	10YR	5	8	YES	10YR	5	2	0	NO	5	0	H	AB	W	C	FIR	NO	YES	YES									
				3	100	C	10YR	5	1	20	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	W	C	VFIR	YES	YES	YES	-	2	1	1	3a	3a	**3a**	Wetness Droughti-ness		
				4																																		
				5																																		
438	Core	0	NO	1	40	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO									
				2	50	C	10YR	5	3	10	10YR	5	6	YES	10YR	4	4	0	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES									
				3	100	C	10YR	5	1	40	10YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	YES	Small chalk stones from 70cm	2	1	1	3a	2	**3a**	Wetness		
				4																																		
				5																																		
439	Core	0	NO	1	40	SCL	10YR	3	3	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	W	M	FR	NO	NO	NO									
				2	85	LMS	10YR	4	6	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	GR	W	F	VFR	NO	NO	NO									
				3	100	C	10YR	5	1	20	10YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	VFIR	YES	YES	NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
				4																																		
				5																																		
440	Core	0	NO	1	35	FSL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	W	F	FR	NO	NO	NO									
				2	75	LMS	10YR	5	6	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	H	GR	W	M	VFR	NO	NO	NO									
				3	100	C	10YR	5	1	20	10YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	M	C	VFIR	YES	YES	YES	Some small chalk stones in h3	2	1	1	1	3a	**3a**	Droughti-ness		
				4																																		
				5																																		
441	Core	0	NO	1	35	SCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FR	NO	NO	NO									
				2	60	SCL	10YR	5	4	15	10YR	5	8	YES	10YR	5	1	0	NO	0	0	n/a	SAB	W	C	FIR	NO	YES	YES									
				3	100	C	10YR	5	1	20	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	CH	AB	M	C	VFIR	YES	YES	YES	-	3	1	1	3a	3a	**3a**	Wetness Droughti-ness		
				4																																		
				5																																		
442	Core	0	NO	1	30	SCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	VFR	NO	NO	NO									
				2	50	SCL	10YR	3	2	10	10YR	4	4	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FR	NO	NO	NO									
				3	80	LFS	10YR	5	4	20	7.5YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	F	VFR	NO	NO	NO	-	1	1	1	1	2	**2**	Droughti-ness		
				4																																		
				5																																		
443	Core	0	NO	1	39	SCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	C	FIR	NO	NO	NO									
				2	65	MSL	10YR	4	4	15	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	F	FR	NO	NO	NO									
				3	80	SCL	10YR	5	3	15	10YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	F	FR	YES	YES	NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
				4																																		
				5																																		
444	Core	0	NO	1	40	SCL	7.5YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	F	FIR	NO	NO	NO									
				2	60	LMS	10YR	7	4	10	7.5YR	3	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	F	FR	NO	YES	NO									
				3	90	CS	10YR	5	6	20	10YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SG	M	F	FR	NO	NO	NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
				4																																		
				5																																		
445	Core	0	NO	1	40	SCL	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				2	100	SCL	10YR	5	2	20	10YR	5	8	NO	n/a	n/a	n/a	2	NO	0	0	n/a	SAB	W	C	FR	NO	YES	YES									
				3																																		
				4																																		
				5																																		
446	Core	0	NO	1	20	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO									
				2	50	C	10YR	3	1	20	10YR	4	6	YES	10YR	4	1	0	NO	0	0	n/a	AB	S	C	VFIR	NO	YES	YES									
				3	70	SCL	10YR	3	1	20	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	2	**3b**	Wetness		
				4	85	SCL	10YR	5	2	20	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	FR	NO	YES	NO									
				5	95	MS	10YR	5	8	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	W	F	VFR	NO	NO	NO									
447	Core	0	NO	1	28	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO									
				2	70	C	10YR	3	1	40	10YR	5	8	YES	10YR	5	1	2	YES	0	0	n/a	SAB	M	C	FIR	NO	YES	NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				3																																		
				4																																		
				5																																		
448	Core	0	NO	1	30	C	10YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO									
				2	55	C	10YR	4	2	20	7.5YR	5	8	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	C	FIR	NO	YES	NO									
				3	70	C	10YR	5	1	40	7.5YR	6	8	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	C	VFIR	NO	YES	NO	Stopped at drain.	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																		
				5																																		

Soil profile descriptions													Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																							
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
449	Core	0	NO	1 2 3 4 5	45 80 105	C C SCL	10YR 10YR 10YR	3 3 4	2 1 2	0 10 20	0 10YR 5YR	0 5 5	0 6 6	NO YES NO	n/a 5YR n/a	n/a 4 n/a	n/a 6 n/a	2 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB SAB	M M S	M M M	FIR FIR FR	NO NO NO	NO NO YES	NO NO NO	-	1	1	1	3a	2	**3a**	Wetness		
450	Core	0	NO	1 2 3 4 5	40 70 110	SCL LMS C	10YR 10YR 10YR	3 6 5	2 6 1	0 0 20	0 0 10YR	0 0 5	0 0 6	NO NO YES	n/a n/a 10YR	n/a n/a 3	n/a n/a 4	0 0 0	YES YES NO	5 10 0	0 0 0	H H n/a	SAB GR AB	W W M	F F C	FR VFR FIR	NO NO YES	NO NO YES	NO NO YES	-	2	1	1	2	3a	**3a**	Droughti-ness		
451	Core	0	NO	1 2 3 4 5	35 90	FSL C	10YR 10YR	3 5	2 1	0 20	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 10	0 0	n/a CH	SAB AB	M M	M C	FR VFIR	NO YES	NO YES	NO YES	-	3	1	1	2	3a	**3a**	Droughti-ness		
452	Core	0	NO	1 2 3 4 5	38 50 75 100	SCL MSL SCL C	10YR 10YR 10YR 10YR	3 4 5 5	2 6 3 1	0 15 15 20	0 10YR 10YR 10YR	0 5 5 5	0 8 8 8	NO YES NO NO	n/a 10YR n/a n/a	n/a 5 n/a n/a	n/a 3 n/a n/a	0 0 0 0	YES NO NO NO	0 0 0 5	0 0 0 0	n/a n/a n/a CH	SAB SAB SAB AB	W M W W	M M C C	FR FR FIR VFIR	NO NO YES YES	NO YES YES YES	NO NO YES YES	-	3	1	1	3a	2	**3a**	Wetness		
453	Core	0	NO	1 2 3 4 5	40 80 100	FSL LMS MS	10YR 10YR 10YR	3 5 6	2 6 4	0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 10 5	0 0 0	n/a H H	SAB GR GR	W W W	M M F	FR VFR VFR	NO NO NO	NO NO NO	NO NO NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
454	Core	0	NO	1 2 3 4 5	45 100	FSL MS	10YR 10YR	3 5	2 4	0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 10	0 0	H H	SAB GR	W W	F M	FR VFR	NO NO	NO NO	NO NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
455	Core	0	NO	1 2 3 4 5	35 57 80	HCL C SCL	10YR 10YR 10YR	3 3 3	2 2 2	0 2 0	0 10YR 0	0 4 0	0 6 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	5 5 0	0 0 0	H H n/a	SAB AB SAB	M M M	M C F	FIR VFIR FR	NO NO NO	NO NO NO	NO YES NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
456	Core	0	NO	1 2 3 4 5	33 50 80	C FSL LMS	10YR 10YR 10YR	3 3 4	2 2 6	0 0 20	0 0 10YR	0 0 5	0 0 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	5 0 0	0 0 0	H n/a n/a	AB SAB GR	M M M	C F F	VFIR VFR VFR	NO NO NO	NO NO NO	NO NO NO	-	1	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
457	Core	0	NO	1 2 3 4 5	40 62 85	C C LMS	10YR 10YR 10YR	4 6 6	3 2 2	0 20 20	0 7.5YR 2.5YR	0 5 4	0 8 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 15 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB GR	M M W	M M M	FIR FIR FR	NO NO NO	NO YES YES	NO NO NO	-	1	1	1	3a	2	**3a**	Wetness		
458	Core	0	NO	1 2 3 4 5	30 90	HCL C	10YR 10YR	4 5	1 1	0 40	0 7.5YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	M S	M C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	1	3b	3a	**3b**	Wetness		
459	Pit	0	NO	1 2 3 4 5	30 80 100	ZC C LMS	10YR 10YR 10YR	3 4 4	2 1 6	0 40 10	0 10YR 7.5YR	0 4 5	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	5 0 5	0 0 0	H n/a H	SAB SAB SG	S S M	C C M	FIR VFIR FR	NO NO NO	NO YES NO	NO NO NO	-	2	1	1	3a	3a	**3a**	Wetness Droughti-ness		
460	Core	0	NO	1 2 3 4 5	25 72 80	HCL C LMS	10YR 10YR 10YR	4 4 4	1 1 2	0 40 2	0 7.5YR 7.5YR	0 5 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 0 0	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB AB GR	M S W	M C F	FIR VFIR FR	NO NO NO	NO YES YES	NO YES NO	-	3	1	1	3b	3b	**3b**	Wetness Droughti-ness		
461	Core	0	NO	1 2 3 4 5	28 60 80	HCL C MSL	10YR 2.5Y 10YR	4 4 3	1 1 1	0 40 15	0 7.5YR 2.5YR	0 5 4	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB AB GR	M M M	M C M	FIR VFIR FR	NO NO NO	NO YES NO	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
462	Pit	0	NO	1 2 3 4 5	30 50 80	C ZC ZC	10YR 10YR 10YR	3 4 5	1 1 1	0 20 40	0 10YR 7.5YR	0 5 4	0 6 6	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 10 2	YES YES YES	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	S M M	C C C	VFIR VFIR VFIR	NO NO NO	NO YES YES	NO NO NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
463	Core	0	NO	1 2 3 4 5	35 60 80	FSL MS MS	10YR 10YR 10YR	3 4 6	2 6 4	0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 5 10	0 0 0	n/a H H	SAB GR GR	W W W	M M M	VFR VFR VFR	NO NO NO	NO NO NO	NO NO NO	-	1	1	1	1	3b	**3b**	Droughti-ness		
464	Core	0	NO	1 2 3 4 5	35 90	FSL MS	10YR 10YR	3 5	2 6	0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 15	0 0	H H	SAB GR	W W	M M	FR VFR	NO NO	NO NO	NO NO	-	1	1	1	1	3b	**3b**	Droughti-ness		

Soil profile descriptions							Soil profile descriptions continued																											ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																				
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
465	Core	0	NO	1 2 3 4 5	40 80	FSL MS	10YR 10YR	3 5	2 6	0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 15	0 0	n/a H	SAB GR	W W	M M	FIR VFR	NO NO	NO NO	NO NO	Stopped on stones at 80cm	1	1	1	1	3b	**3a**	Droughtiness	Soil profile deeper than recorded	
466	Core	0	NO	1 2 3 4 5	45 85 95	HCL LMS LMS	10YR 10YR 10YR	4 6 7	1 8 6	0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES YES YES	5 10 10	0 0 0	H H H	SAB GR GR	S W W	C F F	FIR VFR VFR	NO NO NO	NO NO NO	NO NO NO	-	1	1	1	2	3a	**3a**	Droughti-ness		
467	Core	0	NO	1 2 3 4 5	34 55 75	HCL LMS LMS	10YR 10YR 10YR	4 6 7	1 8 6	0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES YES YES	5 10 10	0 0 0	H H H	SAB SAB GR	S M W	C F F	FIR VFR VFR	NO NO NO	NO NO NO	NO NO NO	-	1	1	1	2	3b	**3a**	Droughtiness	Soil profile deeper than recorded	
468	Core	0	NO	1 2 3 4 5	35 70	HCL LFS	10YR 10YR	3 5	2 6	0 2	0 10YR	0 6	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 0	0 0	n/a n/a	SAB GR	W M	M F	FIR VFR	NO NO	NO NO	NO NO	Hit stones at 70cm	1	1	1	2	3a	**3a**	Droughti-ness		
469	Core	0	NO	1 2 3 4 5	40 71 95	C C CS	10YR 7.5YR 10YR	3 6 6	3 1 1	0 100 100	0 7.5YR 10YR	0 6 6	0 8 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 15 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	AB AB SG	W W M	M C F	FIR FIR FR	NO NO NO	NO YES YES	NO YES NO	-	2	1	1	3a	3a	**3a**	Wetness Droughti-ness		
470	Core	0	NO	1 2 3 4 5	38 75 85	C C CS	7.5YR 7.5YR 7.5YR	3 6 5	2 1 1	2 100 40	7.5YR 7.5YR 7.5YR	7 6 6	8 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 15 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB SG	M W M	M M F	FIR FIR FR	NO NO NO	NO YES YES	NO YES NO	-	3	1	1	3b	3a	**3b**	Wetness		
471	Core	0	NO	1 2 3 4 5	30 70 90 110	HCL C SCL MS	10YR 10YR 10YR 10YR	3 3 4 4	2 2 1 6	0 15 40 0	0 10YR 7.5YR 0	0 3 4 0	0 6 6 0	NO YES NO NO	n/a 10YR n/a n/a	n/a 4 n/a n/a	n/a 1 n/a n/a	0 0 2 0	YES NO NO NO	0 0 0 15	0 0 0 0	n/a n/a n/a H	SAB AB SAB GR	M M M M	M C M M	FIR FIR FIR VFR	NO NO NO YES	NO YES YES NO	NO YES NO NO	Some chalk stones within h4	3	1	1	3b	2	**3b**	Wetness		
472	Core	0	NO	1 2 3 4 5	25 45 85 110	HCL HCL C C	10YR 10YR 10YR 5YR	3 3 4 4	2 2 4 1	0 20 20 40	0 10YR 5YR 5YR	0 4 4 4	0 6 6 6	NO NO YES NO	n/a n/a 10YR n/a	n/a n/a 5 n/a	n/a n/a 3 n/a	0 2 0 2	YES NO NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB AB SAB AB	M W M M	M C M C	FR FIR FR VFIR	NO NO NO NO	NO NO YES NO	NO YES NO NO	-	2	1	1	3a	2	**3a**	Wetness		
473	Core	0	NO	1 2 3 4 5	25 65 80	HCL C MCL	10YR 10YR 10YR	4 4 4	1 1 3	0 40 10	0 7.5YR 10YR	0 6 6	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 0 0	YES YES NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB GR	M M M	M C M	FIR VFIR FR	NO NO NO	NO YES NO	NO NO NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
474	Core	0	NO	1 2 3 4 5	32 66 90 120	HCL HCL HCL C	5YR 5YR 5YR 5YR	4 4 6 7	1 3 1 1	0 20 40 20	0 5YR 5YR 5YR	0 6 6 5	0 6 8 4	NO YES NO NO	n/a 5YR n/a n/a	n/a 5 n/a n/a	n/a 1 n/a n/a	0 0 0 0	YES YES NO NO	0 0 0 0	0 0 0 0	n/a n/a n/a n/a	SAB AB SAB AB	S M M W	M C M C	FR FIR FIR FIR	NO NO NO NO	NO YES YES NO	NO NO NO NO	-	2	1	1	3a	2	**3a**	Wetness		
475	Core	0	NO	1 2 3 4 5	40 65 100	HCL HCL HCL	10YR 10YR 5YR	4 5 5	3 3 2	0 20 20	0 10YR 5YR	0 6 6	0 8 8	NO NO YES	n/a n/a 5YR	n/a n/a 5	n/a n/a 1	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	S M M	F C C	FR FIR FIR	NO NO NO	NO YES YES	NO YES YES	-	2	1	1	3a	2	**3a**	Wetness		
476	Core	0	NO	1 2 3 4 5	40 80 100	FSL MS MS	10YR 10YR 10YR	3 5 6	2 6 4	0 0 2	0 0 10YR	0 0 5	0 0 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES YES NO	0 0 5	0 0 0	n/a n/a CH	SAB GR GR	W M W	M M F	FR VFR VFR	NO NO YES	NO NO YES	NO NO NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
477	Core	0	NO	1 2 3 4 5	40 65	FSL LMS	10YR 10YR	3 6	1 8	0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES YES	5 10	0 0	H H	GR GR	W W	M F	VFR VFR	NO NO	NO NO	NO NO	-	1	1	1	1	3b	**3a**	Droughtiness	Soil profile deeper than recorded	
478	Core	0	NO	1 2 3 4 5	38 70	FSL LMS	10YR 10YR	3 6	1 8	0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES YES	5 10	0 0	H H	GR GR	W W	M F	VFR VFR	NO NO	NO NO	NO NO	-	1	1	1	1	3b	**3a**	Droughtiness	Soil profile deeper than recorded	
479	Core	0	NO	1 2 3 4 5	37 75 100	HCL LMS LMS	10YR 10YR 10YR	4 6 7	1 8 6	0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES YES YES	5 10 10	0 0 0	H H H	SAB GR GR	S W W	C F F	FIR VFR VFR	NO NO NO	NO NO NO	NO NO NO	-	1	1	1	2	3a	**3a**	Droughti-ness		
480	Pit	0	NO	1 2 3 4 5	60 75 80	C MSL MSL	10YR 10YR 10YR	4 4 6	1 3 8	2 0 0	7.5YR 0 0	6 0 0	8 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES YES NO	10 15 15	5 5 5	H H H	AB GR GR	M W W	C F F	VFIR VFR VFR	NO NO NO	YES NO NO	NO NO NO	Stopped at stones.	2	1	2	3a	3a	**3a**	Wetness Droughti-ness		

Soil profile descriptions														Soil profile descriptions continued																						ALC for areas represented by individual survey points									
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																							
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
481	Core	0	NO	1	28	C	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	C	VFIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	45	C	10YR	3	2	10	7.5YR	5	6	YES	10YR	5	2	2	NO	0	0	n/a	AB	W	C	VFIR	NO	YES	YES										
				3	80	LFS	10YR	4	4	2	7.5YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	F	VFR	NO	NO	NO										
				4																																		
				5																																			
482	Core	0	NO	1	30	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	2	**3b**	Wetness		
				2	60	HCL	10YR	3	2	10	10YR	3	6	YES	10YR	5	2	0	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES										
				3	80	HCL	10YR	4	2	20	10YR	4	6	YES	10YR	5	1	2	NO	0	0	n/a	SAB	M	M	FR	NO	YES	NO										
				4	110	MSL	10YR	4	4	20	7.5YR	4	6	YES	10YR	5	3	0	NO	5	0	H	SAB	M	M	VFR	NO	NO	NO										
				5																																		
483	Core	0	NO	1	20	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				2	50	C	10YR	3	2	10	5YR	4	6	YES	10YR	4	1	2	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES										
				3	65	MSL	10YR	3	3	2	10YR	3	6	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	W	F	VFR	NO	NO	NO	Some chalk stones in h4	3	1	1	3b	3a	**3b**	Wetness		
				4	85	MS	10YR	4	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	10	15	H	GR	M	M	VFR	YES	NO	NO										
				5																																		
484	Core	0	NO	1	25	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO										
				2	60	C	10YR	3	2	15	10YR	3	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	FIR	NO	NO	YES										
				3	70	LMS	10YR	3	3	0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	H	GR	M	M	VFR	NO	NO	NO	-	2	1	1	3a	3a	**3a**	Wetness Droughti-ness		
				4	110	MS	10YR	4	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	15	0	CH	SG	M	M	VFR	NO	NO	NO										
				5																																		
485	Core	0	NO	1	32	MCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO										
				2	53	HCL	5YR	4	1	20	5YR	6	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	YES	NO										
				3	80	SCL	5YR	5	1	40	5YR	6	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																		
				5																																		
486	Core	0	NO	1	30	HCL	5YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO										
				2	70	C	5YR	4	3	40	5YR	5	8	YES	5YR	5	3	0	NO	0	0	n/a	SAB	M	M	FIR	NO	YES	NO										
				3	95	HP	5YR	2.5	1	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SG	0	F	0	NO	NO	NO	-	2	1	1	3a	1	**3a**	Wetness		
				4	120	LMS	10YR	7	4	20	7.5YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	W	F	VFR	NO	NO	NO										
				5																																		
487	Core	0	NO	1	32	MSL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	GR	W	M	VFR	NO	NO	NO										
				2	45	LMS	10YR	6	8	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	H	GR	W	F	VFR	NO	NO	NO										
				3	75	LMS	10YR	7	6	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	H	GR	W	F	VFR	NO	NO	NO	-	1	1	1	1	3b	**3b**	Droughti-ness		
				4																																		
				5																																		
488	Core	0	NO	1	30	MCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FIR	NO	NO	NO										
				2	50	MSL	10YR	6	8	0	0	0	0	NO	n/a	n/a	n/a	0	YES	15	5	H	GR	W	F	VFR	NO	NO	NO										
				3																																		
				4																																		
				5																																		
489	Core	0	NO	1	38	MCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FIR	NO	NO	NO										
				2	50	MSL	10YR	6	8	0	0	0	0	NO	n/a	n/a	n/a	0	YES	15	5	H	GR	W	F	VFR	NO	NO	NO	-	1	2	1	1	3b	**3b**	Droughti-ness		
				3																																		
				4																																		
				5																																		
490	Core	0	NO	1	35	HCL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	VFIR	NO	NO	NO										
				2	52	HCL	10YR	4	1	2	10YR	5	8	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	S	C	VFIR	NO	YES	YES										
				3	75	SCL	10YR	5	4	2	10YR	6	8	NO	n/a	n/a	n/a	0	NO	5	0	H	GR	W	F	FR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				4																																		
				5																																		
491	Core	0	NO	1	30	MCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				2	55	MSL	10YR	4	3	10	10YR	4	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	W	F	FR	NO	NO	NO										
				3	90	LMS	10YR	6	8	0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	GR	W	F	FR	NO	NO	NO	Small pebbles in h4.Slight cain h3	1	1	1	1	2	**2**	Droughti-ness		
				4																																		
				5																																		
492	Core	0	NO	1	25	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FR	NO	NO	NO										
				2	40	HCL	10YR	3	2	10	10YR	4	6	YES	10YR	4	1	0	YES	0	0	n/a	SAB	M	M	FIR	NO	YES	NO										
				3	60	MSL	10YR	4	2	10	10YR	4	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	VFR	NO	YES	NO										
				4	90	LMS	10YR	4	6	2	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	10	0	H	SAB	M	M	VFR	NO	NO	NO	Layer of sand from 90cm.15% small stones	1	1	1	2	2	**2**	Wetness Droughti-ness		
				5																																		
493	Pit	0	NO	1	10	ZC	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO										
				2	40	MZCL	10YR	3	2	2	10YR	3	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	M	FIR	NO	NO	NO										
				3	60	C	10YR	3	2	20	5YR	4	6	YES	10YR	5	1	2	NO	0	0	n/a	AB	M	C	FIR	NO	YES	YES	Sand from 82 to 100cm . Mix of chalk and sand stone.	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4	82	MSL	10YR	3	4	10	10YR	3	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	VFR	NO	NO	NO										
				5																																		
494	Core	0	NO	1	30	MCL	5YR	4	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FR	NO	NO	NO										
				2	46	HCL	5YR	4	2	20	5YR	6	6	YES	5YR	6	1	0	YES	0	0	n/a	SAB	M	M	FIR	NO	YES	NO										
				3	80	HCL	5YR	5	1	20	5YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES	-	3	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				4																																		
				5																																		
495	Core	0	NO	1	30	HCL	5YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	F	FIR	NO	NO	NO										
				2	60	C	5YR	4	1	20	5YR	5	8	NO	n/a	n/a	n/a	0	YES	0	0	n/a	AB	M	M	FIR	NO	YES	NO										
				3	81	C	5YR	5	1	20	5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	C	FIR	NO	YES	YES	-	2	1	1	3a	2	**3a**	Wetness		
				4	115	LMS	5YR	5	1	20	5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	W	F	FR	NO	NO	NO										
				5																																		
496	Pit	0	NO	1	45	MSL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	GR	W	M	VFR	NO	NO	NO										
				2	55	LMS	10YR	6	8	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	H	GR	W	F	VFR	NO	NO	NO										
				3	80	LMS	10YR	7	6	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	H	GR	W	F	VFR	NO	NO	NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
				4																																		
				5																																		

Soil profile descriptions														Soil profile descriptions continued																								ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																									
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
497	Core	0	NO	1	35	MSL	10YR	3	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	GR	W	M	VFR	NO	NO	NO	-	1	1	1	1	3b	**3b**	Droughti-ness		
				2	60	LMS	10YR	6	8	0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	H	GR	W	F	VFR	NO	NO	NO									
				3																																			
				4																																			
				5																																			
498	Core	0	NO	1	38	MCL	10YR	2	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	F	FR	NO	NO	NO	stopped on stone	1	1	1	1	3a	**3a**	Droughti-ness		
				2	70	SCL	7.5YR	6	6	20	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	10	5	H	SAB	S	F	FR	NO	NO	NO									
				3																																			
				4																																			
				5																																			
499	Core	0	NO	1	37	SCL	10YR	2	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	1	1	1	1	3a	**3a**	Droughti-ness		***
				2	100	LCS	7.5YR	5	4	20	7.5YR	4	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	F	FR	NO	NO	NO									
				3																																			
				4																																			
				5																																			
500	Core	0	NO	1	40	MCL	10YR	2	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FR	NO	NO	NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
				2	65	LMS	10YR	4	4	2	7.5YR	4	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	VFR	NO	NO	NO									
				3	100	MS	10YR	5	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	10	0	H	GR	M	M	VFR	NO	NO	NO									
				4																																			
				5																																			
501	Core	0	NO	1	30	HCL	10YR	3	2	2	10YR	4	4	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				2	55	C	10YR	4	1	15	10YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	S	M	FIR	NO	YES	NO									
				3	70	C	10Y	4	1	10	7.5YR	5	6	YES	5YR	4	4	0	NO	0	0	n/a	AB	S	M	FIR	NO	YES	NO									
				4	90	MSL	7.5YR	5	4	2	7.5YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	FR	NO	NO	NO									
				5	105	MS	10YR	5	8	0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SG	W	F	VFR	NO	NO	NO									
502	Core	0	NO	1	30	HCL	10YR	3	2	2	7.5YR	4	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	2	**3b**	Wetness		
				2	54	C	10YR	4	1	20	7.5YR	5	6	YES	10YR	4	4	2	NO	0	0	n/a	AB	W	M	FIR	NO	YES	YES									
				3	80	LFS	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	W	F	VFR	NO	NO	NO									
				4	100	MS	10YR	6	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SG	W	M	FR	NO	NO	NO									
				5																																			
503	Core	0	NO	1	45	FSL	10YR	2	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	W	M	VFR	NO	NO	NO	-	1	1	1	1	2	**2**	Droughti-ness		*
				2	55	FSL	10YR	2	2	10	10YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	FR	NO	NO	NO									
				3	85	LMS	10YR	5	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	W	M	VFR	NO	NO	NO									
				4																																			
				5																																			
504	Core	0	NO	1	25	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
				2	61	C	10YR	3	2	10	10YR	5	6	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	W	C	VFIR	NO	NO	YES									
				3	85	C	7.5YR	4	4	10	10YR	5	6	NO	n/a	n/a	n/a	2	NO	5	0	H	AB	M	C	VFIR	NO	NO	YES									
				4																																			
				5																																			
505	Core	0	NO	1	35	MCL	7.5YR	2.5	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	F	FIR	NO	NO	NO	-	2	1	1	2	2	**2**	Wetness Droughti-ness		*
				2	65	MSL	7.5YR	5	4	15	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FR	NO	NO	NO									
				3	100	C	7.5YR	5	1	20	7.5YR	5	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	M	C	VFIR	NO	YES	YES									
				4																																			
				5																																			
506	Pit	0	NO	1	40	HCL	10YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	C	VFIR	NO	NO	NO	-	1	1	1	2	3a	**3a**	Droughti-ness		
				2	50	FSL	10YR	3	3	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FR	NO	NO	NO									
				3	55	LFS	10YR	5	2	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	F	VFR	NO	NO	NO									
				4	80	MS	10YR	5	8	10	7.5YR	5	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	F	VFR	NO	NO	NO									
				5																																			
507	Core	0	NO	1	30	HCL	10YR	3	2	2	10Y	5	4	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	Small pebbles in h4	3	1	1	3b	3a	**3b**	Wetness		
				2	60	C	10YR	5	2	15	5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	W	M	FIR	NO	YES	YES									
				3	75	MSL	10YR	5	4	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FR	NO	NO	NO									
				4	105	MS	10YR	6	0	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	W	F	VFR	NO	NO	NO									
				5																																			
508	Core	0	NO	1	30	HCL	10YR	3	2	2	10Y	5	4	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	55	C	10YR	5	2	15	5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	W	M	FIR	NO	YES	YES									
				3	70	MSL	10YR	5	4	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	M	M	FR	NO	NO	NO									
				4	95	MS	10YR	6	0	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	W	F	VFR	NO	NO	NO									
				5																																			
509	Core	0	NO	1	32	HCL	10YR	2	1	0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FIR	NO	NO	NO	Some heavy firm clay within h4	2	1	1	3a	2	**3a**	Wetness		
				2	50	SCL	10YR	5	4	20	10YR	5	8	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FR	NO	NO	NO									
				3	85	C	5YR	4	2	10	10YR	5	8	YES	10YR	5	1	2	NO	0	0	n/a	AB	W	C	VFIR	NO	YES	YES									
				4	110	SCL	10YR	5	6	2	10YR	6	8	YES	10YR	5	1	0	NO	0	0	n/a	GR	W	F	VFR	NO	YES	NO									
				5																																			
510	Core	0	NO	1	34	MCL	7.5YR	3	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	F	FIR	NO	NO	NO	-	1	1	1	1	3a	**3a**	Droughti-ness		
				2	67	LCS	7.5YR	6	4	20	7.5YR	4	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	F	FR	NO	YES	NO									
				3	100	LCS	7.5YR	6	3	0	0	0	0	NO	n/a	n/a	n/a	0	NO	10	5	H	AB	M	F	FR	NO	NO	NO									
				4																																			
				5																																			
511	Core	0	NO	1	37	HCL	7.5YR	2.5	2	0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	W	M	VFIR	NO	NO	NO	-	3	1	1	3b	3a	**3b**	Wetness		
				2	70	SCL	7.5YR	4	2	20	7.5YR	4	6	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	W	M	VFIR	NO	YES	YES									
				3	110	MS	7.5YR	6	4	40	7.5YR	6	8	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	F	FR	NO	YES	NO									
				4																																			
				5																																			
512	Core	0	NO	1	50	HCL	10YR	3	2	2	10YR	5	6	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	S	M	FIR	NO	NO	NO	-	2	1	1	3a	2	**3a**	Wetness		
				2	100	C	10YR	3	2	20	5YR	4	6	YES	10YR	5	1	0	NO	0	0	n/a	AB	W	C	FIR	YES	YES	YES									
				3	110	MS	10YR	6	6	0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	GR	M	F	FR	YES	NO	NO									
				4																																			
				5																																			

Soil profile descriptions							Soil profile descriptions continued																												ALC for areas represented by individual survey points								
							Matrix (main) colour			Mottling				Ped faces						Stones and rocks			Structure																				
Survey point	Type	Grad-ient	Soil distur-bed or resto-red	Horizon	Depth	Texture	Hue	Value	Chroma	Abundan-ce up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopo-res	> 2 cm up to %	> 6 cm up to %	Type	Type	Deve-lop-ment	Ped size	Consis-tence	Calca-reous	Gley-ing	SPL	Survey Notes	Wetness class	Soil Depth	Topsoil stoniness	Wetness	Droughti-ness	ALC Grade	Limited by	Limitation Notes	ALC Map Variations
513	**Core**	0	NO	1 2 3 4 5	22 50 82	HCL C MSL	10YR 7.5YR 7.5YR	3 3 4	2 2 3	0 0 10	0 0 7.5YR	0 0 5	0 0 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 5 0	0 0 0	n/a H n/a	SAB AB AB	S M M	M C C	FIR VFIR VFIR	NO NO NO	NO NO NO	NO NO NO	-	1	1	1	2	3a	**2**	Wetness Droughtiness	Soil profile deeper than recorded - not limited by droughtiness	*
514	**Core**	0	NO	1 2 3 4 5	25 43 72	HCL C SC	10YR 7.5YR 10YR	3 3 4	2 2 4	0 2 20	0 10YR 10YR	0 5 5	0 6 8	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB SAB AB	M W M	M C M	FIR VFIR VFIR	NO NO YES	NO NO NO	NO YES NO	Very small white stones h3	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
515	**Pit**	0	NO	1 2 3 4 5	35 80	SCL C	10YR 5YR	2 4	1 2	0 20	0 10YR	0 5	0 6	NO YES	n/a 10YR	n/a 5	n/a 1	0 2	YES NO	10 0	0 0	H n/a	SAB AB	S M	M C	FIR VFIR	NO NO	NO YES	NO YES	-	3	1	2	3a	3b	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	
516	**Core**	0	NO	1 2 3 4 5	36 62 110	MCL SCL CS	10YR 10YR 10YR	2 3 4	1 2 3	0 10 40	0 10YR 10YR	0 6 5	0 8 8	NO YES NO	n/a 10YR n/a	n/a 5 n/a	n/a 1 n/a	0 2 2	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	M W M	M C F	FIR FIR FR	NO NO NO	NO YES NO	NO YES NO	-	3	1	1	3a	3a	**3a**	Wetness Droughti-ness		
517	**Core**	0	YES	1 2 3 4 5	30 55 84	HCL C SC	10YR 10YR 10YR	3 3 4	2 3 4	0 2 2	0 10YR 10YR	0 4 5	0 6 6	NO NO YES	n/a n/a 10YR	n/a n/a 5	n/a n/a 1	0 0 2	YES NO NO	5 5 5	0 0 0	H H H	SAB AB AB	M M M	M C M	VFIR VFIR VFIR	NO NO YES	NO NO YES	NO YES NO	-	2	1	1	3a	3a	**3a**	Wetness	Soil profile deeper than recorded - not limited by droughtiness	

APPENDIX 2: LABORATORY ANALYSIS

ANALYTICAL REPORT

Report Number	**97335-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**26-OCT-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62805**	**SOILX62806**	**SOILX62807**	**SOILX62808**	**SOILX62809**	**SOILX62810**	**SOILX62811**	**SOILX62812**	**SOILX62813**	**SOILX62814**
Sample Reference		**P99 H2**	**P99 H1**	**P76 H1**	**P70 H2**	**P74 H3**	**P72 H2**	**P65 H3**	**P72 H3**	**P65 H1**	**P88 H1**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		7.4	7.5	7.7	8.2	8.2	8.2	8.3	8.1	8.1	7.9
Available Phosphorus (Index)	mg/l	11.4 (1)	6.1 (0)	8.8 (0)	8.1 (0)	5.8 (0)	6.1 (0)	5.9 (0)	5.8 (0)	8.8 (0)	12.2 (1)
Available Potassium (Index)	mg/l	128 (2-)	87.8 (1)	174 (2-)	127 (2-)	55.2 (0)	72.1 (1)	83.8 (1)	69.3 (1)	171 (2-)	180 (2-)
Available Magnesium (Index)	mg/l	239 (4)	109 (3)	156 (3)	89.7 (2)	55.1 (2)	41.7 (1)	63.9 (2)	43.4 (1)	43.8 (1)	60.5 (2)
Sand 2.00-0.063mm	% w/w	38	50	47	32	72	68	37	58	59	63
Silt 0.063-0.002mm	% w/w	28	22	22	26	13	17	23	24	21	19
Clay <0.002mm	% w/w	34	28	31	42	15	15	40	18	20	18
Organic Matter LOI	% w/w	3.8	5.9	6.6	3.7	1.5	2.3	2.5	2.9	4.4	4.8
Textural Class **		HCL	SCL/HCL	HCL	C	SL	SL	C	SCL/SL	SCL	SCL/SL

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.

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97336-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62815**	**SOILX62816**	**SOILX62817**	**SOILX62818**	**SOILX62819**	**SOILX62820**	**SOILX62821**	**SOILX62822**	**SOILX62823**	**SOILX62824**
Sample Reference		**P60 H2**	**P55 H1**	**P60 H1**	**P51 H4**	**P47 H2**	**P12 H3**	**P39 H1**	**P39 H2**	**P25 H2**	**P12 H2**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		7.7	8.0	7.6	7.9	8.2	8.6	7.6	8.1	7.8	8.3
Available Phosphorus (Index)	mg/l	5.2 (0)	10.9 (1)	7.5 (0)	5.4 (0)	3.9 (0)	7.0 (0)	8.9 (0)	5.8 (0)	5.3 (0)	11.3 (1)
Available Potassium (Index)	mg/l	98.7 (1)	144 (2-)	156 (2-)	115 (1)	86.2 (1)	53.6 (0)	114 (1)	111 (1)	86.2 (1)	95.5 (1)
Available Magnesium (Index)	mg/l	164 (3)	54.1 (2)	82.7 (2)	65.9 (2)	63.8 (2)	18.7 (0)	91.9 (2)	108 (3)	90.1 (2)	33.5 (1)
Sand 2.00-0.063mm	% w/w	42	60	42	80	43	92	62	58	67	87
Silt 0.063-0.002mm	% w/w	24	20	24	10	26	4	20	22	17	6
Clay <0.002mm	% w/w	34	20	34	10	31	4	18	20	16	7
Organic Matter LOI	% w/w	2.8	4.9	4.3	3.1	2.7	1.2	4.9	2.9	2.8	2.3
Textural Class **		HCL	SCL	HCL	LS/SL	HCL	S	SCL/SL	SCL	SL	LS

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

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97337-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62825**	**SOILX62826**	**SOILX62827**	**SOILX62828**	**SOILX62829**	**SOILX62830**	**SOILX62831**	**SOILX62832**	**SOILX62833**	**SOILX62834**
Sample Reference		**P7 H1**	**P12 H1**	**P7 H2**	**P31 H1**	**P25 H1**	**P33 H1**	**P102 H1**	**P111 H1**	**P102 H2**	**P111 H2**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		7.5	7.5	7.9	7.1	7.3	6.8	8.4	8.0	8.0	8.1
Available Phosphorus (Index)	mg/l	10.4 (1)	28.3 (3)	5.1 (0)	10.8 (1)	7.5 (0)	17.4 (2)	5.3 (0)	7.9 (0)	7.0 (0)	6.1 (0)
Available Potassium (Index)	mg/l	122 (2-)	223 (2+)	103 (1)	173 (2-)	108 (1)	170 (2-)	56.0 (0)	223 (2+)	120 (1)	176 (2-)
Available Magnesium (Index)	mg/l	176 (4)	77.4 (2)	278 (5)	181 (4)	103 (3)	71.3 (2)	68.8 (2)	144 (3)	95.3 (2)	179 (4)
Sand 2.00-0.063mm	% w/w	64	76	56	35	64	73	22	36	48	38
Silt 0.063-0.002mm	% w/w	18	12	21	23	18	13	28	25	23	21
Clay <0.002mm	% w/w	18	12	23	42	18	14	50	39	29	41
Organic Matter LOI	% w/w	5.2	3.9	3.4	7.8	4.8	4.1	2.7	6.9	5.1	5.1
Textural Class **		SCL/SL	SL	SCL	C	SCL/SL	SL	C	C	HCL	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.

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97338-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62835**	**SOILX62836**	**SOILX62837**	**SOILX62838**	**SOILX62839**	**SOILX62840**	**SOILX62841**	**SOILX62842**	**SOILX62843**	**SOILX62844**
Sample Reference		**P129 H1**	**P117 H1**	**P117 H2**	**P143 H3**	**P166 H1**	**P130 H1**	**P163 H1**	**P168 H3**	**P102 H3**	**P276 H2**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		8.0	8.2	8.1	7.8	8.0	8.0	8.1	8.4	8.5	8.3
Available Phosphorus (Index)	mg/l	10.3 (1)	8.4 (0)	4.9 (0)	4.2 (0)	10.3 (1)	23.5 (2)	16.2 (2)	5.5 (0)	3.9 (0)	4.1 (0)
Available Potassium (Index)	mg/l	139 (2-)	137 (2-)	107 (1)	78.9 (1)	129 (2-)	309 (3)	234 (2+)	35.1 (0)	30.2 (0)	111 (1)
Available Magnesium (Index)	mg/l	56.4 (2)	124 (3)	138 (3)	250 (4)	98.6 (2)	60.1 (2)	67.9 (2)	32.3 (1)	55.5 (2)	138 (3)
Sand 2.00-0.063mm	% w/w	64	32	37	10	32	62	44	87	15	37
Silt 0.063-0.002mm	% w/w	18	28	24	30	27	18	23	7	25	25
Clay <0.002mm	% w/w	18	40	39	60	41	20	33	6	60	38
Organic Matter LOI	% w/w	5.9	4.7	3.9	2.6	6.4	5.8	6.1	0.9	1.7	3.7
Textural Class **		SCL/SL	C	C	C	C	SCL	HCL	LS	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

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97339-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**26-OCT-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62845**	**SOILX62846**	**SOILX62847**
Sample Reference		**P111 H3**	**P170 H2**	**P113 H1**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		8.3	8.5	7.9
Available Phosphorus (Index)	mg/l	5.5 (0)	3.8 (0)	5.8 (0)
Available Potassium (Index)	mg/l	167 (2-)	67.3 (1)	121 (2-)
Available Magnesium (Index)	mg/l	200 (4)	60.6 (2)	180 (4)
Sand 2.00-0.063mm	% w/w	35	12	21
Silt 0.063-0.002mm	% w/w	24	30	28
Clay <0.002mm	% w/w	41	58	51
Organic Matter LOI	% w/w	3.9	2.1	4.7
Textural Class **		C	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.

[29~

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97340-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**26-OCT-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62848**	**SOILX62849**	**SOILX62850**	**SOILX62851**	**SOILX62852**	**SOILX62853**	**SOILX62854**	**SOILX62855**	**SOILX62856**	**SOILX62857**
Sample Reference		**P130 H2**	**P116 H3**	**P113 H2**	**P206 H1**	**P227 H2**	**P227 H1**	**P291 H2**	**P288 H3**	**P261 H2**	**P261 H1**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		7.9	8.1	7.8	7.7	8.2	8.3	5.3	8.3	7.7	7.1
Available Phosphorus (Index)	mg/l	6.2 (0)	4.2 (0)	4.2 (0)	9.4 (0)	4.3 (0)	5.9 (0)	15.1 (1)	6.9 (0)	4.5 (0)	7.2 (0)
Available Potassium (Index)	mg/l	156 (2-)	48.4 (0)	172 (2-)	146 (2-)	90.3 (1)	119 (1)	117 (1)	42.7 (0)	133 (2-)	199 (2+)
Available Magnesium (Index)	mg/l	174 (3)	104 (3)	299 (5)	150 (3)	89.7 (2)	80.2 (2)	116 (3)	31.1 (1)	407 (6)	235 (4)
Sand 2.00-0.063mm	% w/w	57	82	11	45	50	50	61	87	7	35
Silt 0.063-0.002mm	% w/w	19	9	26	20	23	22	18	7	32	25
Clay <0.002mm	% w/w	24	9	63	35	27	28	21	6	61	40
Organic Matter LOI	% w/w	6.8	1.8	6.0	5.8	4.6	5.2	2.5	0.9	3.1	7.1
Textural Class **		SCL	LS	C	C/HCL/SC	SCL/HCL	SCL/HCL	SCL	LS	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

[29~

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97341-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62858**	**SOILX62859**	**SOILX62860**	**SOILX62861**	**SOILX62862**	**SOILX62863**	**SOILX62864**	**SOILX62865**	**SOILX62866**	**SOILX62867**
Sample Reference		**P266 H1**	**P271 H1**	**P276 H1**	**P276 H3**	**P271 H2**	**P270 H2**	**P266 H2**	**P212 H2**	**P212 H1**	**P217 H2**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		8.0	8.0	8.0	8.4	8.2	8.1	8.3	8.1	7.6	8.3
Available Phosphorus (Index)	mg/l	5.6 (0)	5.8 (0)	5.6 (0)	3.6 (0)	3.6 (0)	5.4 (0)	3.8 (0)	4.0 (0)	7.3 (0)	3.6 (0)
Available Potassium (Index)	mg/l	214 (2+)	170 (2-)	175 (2-)	102 (1)	94.7 (1)	94.3 (1)	88.6 (1)	105 (1)	300 (3)	96.3 (1)
Available Magnesium (Index)	mg/l	507 (6)	263 (5)	191 (4)	247 (4)	233 (4)	121 (3)	432 (6)	148 (3)	97.3 (2)	114 (3)
Sand 2.00-0.063mm	% w/w	14	42	42	19	40	57	14	25	39	6
Silt 0.063-0.002mm	% w/w	53	30	27	34	26	20	54	35	26	38
Clay <0.002mm	% w/w	33	28	31	47	34	23	32	40	35	56
Organic Matter LOI	% w/w	5.7	6.0	6.0	3.1	3.3	7.3	3.5	3.1	10.2	2.5
Textural Class **		HZCL	HCL	HCL	C	HCL	SCL	HZCL	C	C/HCL	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

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97342-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62868**	**SOILX62869**	**SOILX62870**	**SOILX62871**	**SOILX62872**	**SOILX62873**	**SOILX62874**	**SOILX62875**	**SOILX62876**	**SOILX62877**
Sample Reference		**P312 H2**	**P312 H1**	**P323 H1**	**P323 H2**	**P349 H2**	**P349 H1**	**P354 H3**	**P354 H4**	**P354 H1/H2**	**P356 H3**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		8.4	8.2	7.8	8.4	8.0	7.8	8.3	8.5	8.0	8.0
Available Phosphorus (Index)	mg/l	3.9 (0)	4.9 (0)	6.9 (0)	3.6 (0)	3.4 (0)	5.7 (0)	7.7 (0)	4.1 (0)	5.7 (0)	7.9 (0)
Available Potassium (Index)	mg/l	76.6 (1)	197 (2+)	270 (3)	111 (1)	85.4 (1)	142 (2-)	68.1 (1)	33.5 (0)	141 (2-)	43.5 (0)
Available Magnesium (Index)	mg/l	223 (4)	276 (5)	113 (3)	233 (4)	358 (6)	166 (3)	41.1 (1)	36.5 (1)	75.3 (2)	54.8 (2)
Sand 2.00-0.063mm	% w/w	7	5	11	9	4	20	65	86	56	80
Silt 0.063-0.002mm	% w/w	43	49	36	40	34	29	17	9	18	12
Clay <0.002mm	% w/w	50	46	53	51	62	51	18	5	26	8
Organic Matter LOI	% w/w	2.9	7.2	9.0	3.4	2.4	5.6	1.8	0.7	5.8	1.2
Textural Class **		C	ZC	C	C	C	C	SCL/SL	LS	SCL	LS

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.

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97343-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62878**	**SOILX62879**	**SOILX62880**	**SOILX62881**	**SOILX62882**	**SOILX62883**	**SOILX62884**	**SOILX62885**	**SOILX62886**	**SOILX62887**
Sample Reference		**P356 H2**	**P397 H1**	**P382 H1**	**P496 H2**	**P496 H1**	**P480 H2**	**P459 H1**	**P459 H3**	**P451 H1**	**P444 H1**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		7.9	8.0	7.6	8.1	6.9	6.6	8.2	8.0	7.7	7.6
Available Phosphorus (Index)	mg/l	10.0 (1)	8.4 (0)	9.9 (1)	6.0 (0)	15.5 (2)	14.2 (1)	4.6 (0)	16.6 (2)	12.7 (1)	9.2 (0)
Available Potassium (Index)	mg/l	52.4 (0)	220 (2+)	222 (2+)	18.2 (0)	122 (2-)	33.5 (0)	141 (2-)	18.6 (0)	135 (2-)	106 (1)
Available Magnesium (Index)	mg/l	64.3 (2)	164 (3)	264 (5)	14.3 (0)	43.3 (1)	77.3 (2)	326 (5)	77.7 (2)	63.4 (2)	99.8 (2)
Sand 2.00-0.063mm	% w/w	71	16	15	87	77	83	4	85	74	54
Silt 0.063-0.002mm	% w/w	16	43	41	8	11	11	55	7	15	21
Clay <0.002mm	% w/w	13	41	44	5	12	6	41	8	11	25
Organic Matter LOI	% w/w	2.1	7.0	7.6	1.7	11.2	2.6	4.8	1.2	8.2	9.5
Textural Class **		SL	C	C	S	SL	LS	ZC	LS	SL	SCL

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

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97344-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62888**	**SOILX62889**	**SOILX62890**	**SOILX62891**	**SOILX62892**	**SOILX62893**				
Sample Reference		**P401 H1**	**P401 H2**	**P429 H1**	**P435 H2**	**P496 H3**	**P435 H1**				
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**				
pH water [1:2.5]		7.9	7.9	7.6	7.7	8.4	8.1				
Available Phosphorus (Index)	mg/l	6.2 (0)	4.3 (0)	6.2 (0)	4.6 (0)	4.4 (0)	6.0 (0)				
Available Potassium (Index)	mg/l	343 (3)	182 (2+)	139 (2-)	130 (2-)	25.8 (0)	173 (2-)				
Available Magnesium (Index)	mg/l	297 (5)	464 (6)	159 (3)	494 (6)	85.1 (2)	348 (5)				
Sand 2.00-0.063mm	% w/w	12	6	63	4	86	16				
Silt 0.063-0.002mm	% w/w	51	48	16	51	8	46				
Clay <0.002mm	% w/w	37	46	21	45	6	38				
Organic Matter LOI	% w/w	8.6	6.4	7.1	6.2	1.2	6.5				
Textural Class **		ZC	ZC	SCL	ZC	LS	ZC				

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

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97345-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595**
Date Received	**01-SEP-2023**		**CITY QUADRANT**		
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62894**	**SOILX62895**	**SOILX62896**	**SOILX62897**	**SOILX62898**	**SOILX62899**	**SOILX62900**	**SOILX62901**	**SOILX62902**	**SOILX62903**
Sample Reference		**P442 H1**	**P451 H2**	**P480 H3**	**P480 H1**	**P459 H1**	**P513 H3**	**P515 H2**	**P515 H1**	**47 H1**	**416 H1**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		7.2	8.3	8.2	7.2	7.7	8.3	7.9	7.3	7.9	6.9
Available Phosphorus (Index)	mg/l	9.3 (0)	4.6 (0)	15.7 (2)	6.8 (0)	7.0 (0)	4.1 (0)	409 (9)	10.7 (1)	7.0 (0)	9.2 (0)
Available Potassium (Index)	mg/l	106 (1)	65.7 (1)	20.2 (0)	80.6 (1)	218 (2+)	61.7 (1)	110 (1)	108 (1)	91.5 (1)	292 (3)
Available Magnesium (Index)	mg/l	71.1 (2)	82.7 (2)	51.8 (2)	194 (4)	263 (5)	55.1 (2)	204 (4)	106 (3)	57.3 (2)	146 (3)
Sand 2.00-0.063mm	% w/w	61	35	75	5	5	77	29	57	67	10
Silt 0.063-0.002mm	% w/w	16	30	13	44	50	11	31	18	15	45
Clay <0.002mm	% w/w	23	35	12	51	45	12	40	25	18	45
Organic Matter LOI	% w/w	7.7	3.8	2.7	10.4	8.8	1.6	4.2	6.2	4.0	8.4
Textural Class **		SCL	C/HCL	SL	C	ZC	SL	C	SCL	SCL/SL	C/ZC

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

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97346-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595STEM**
Date Received	**08-SEP-2023**		**CITY QUADRANT**		**AGRICULTURAL**
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62904**	**SOILX62905**	**SOILX62906**	**SOILX62907**	**SOILX62908**	**SOILX62909**	**SOILX62910**	**SOILX62911**	**SOILX62912**	**SOILX62913**
Sample Reference		**157 H1**	**157 H2**	**157 H3**	**196 H1**	**196 H2**	**196 H3**	**229 H1**	**229 H2**	**253 H1**	**253 H2**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		7.9	8.1	8.2	7.2	7.9	8.2	7.9	8.2	8.1	8.3
Available Phosphorus (Index)	mg/l	7.5 (0)	3.7 (0)	3.6 (0)	18.4 (2)	8.6 (0)	3.5 (0)	6.9 (0)	4.0 (0)	8.1 (0)	4.1 (0)
Available Potassium (Index)	mg/l	139 (2-)	89.3 (1)	85.7 (1)	335 (3)	178 (2-)	122 (2-)	174 (2-)	94.3 (1)	170 (2-)	98.3 (1)
Available Magnesium (Index)	mg/l	124 (3)	177 (4)	419 (6)	165 (3)	161 (3)	321 (5)	143 (3)	136 (3)	73.0 (2)	80.0 (2)
Sand 2.00-0.063mm	% w/w	50	62	29	59	41	28	56	33	44	46
Silt 0.063-0.002mm	% w/w	21	17	30	18	25	31	18	27	22	23
Clay <0.002mm	% w/w	29	21	41	23	34	41	26	40	34	31
Organic Matter LOI	% w/w	5.2	3.3	2.8	5.8	4.4	3.0	4.4	3.0	5.1	2.7
Textural Class **		SCL/HCL	SCL	C	SCL	HCL	C	SCL	C	HCL	HCL

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

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97347-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595STEM**
Date Received	**08-SEP-2023**		**CITY QUADRANT**		**AGRICULTURAL**
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62914**	**SOILX62915**	**SOILX62916**	**SOILX62917**	**SOILX62918**	**SOILX62919**	**SOILX62920**	**SOILX62921**	**SOILX62922**	**SOILX62923**
Sample Reference		**307 H1**	**307 H2**	**307 H3**	**341 H1**	**341 H2**	**365 H1**	**365 H2**	**383 H1**	**383 H2**	**389 H1**
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**
pH water [1:2.5]		7.9	8.0	8.3	6.9	8.0	7.3	7.9	7.7	7.9	7.5
Available Phosphorus (Index)	mg/l	6.7 (0)	3.8 (0)	3.8 (0)	5.9 (0)	3.7 (0)	6.2 (0)	6.3 (0)	5.1 (0)	3.8 (0)	6.6 (0)
Available Potassium (Index)	mg/l	146 (2-)	92.3 (1)	68.3 (1)	146 (2-)	116 (1)	176 (2-)	148 (2-)	135 (2-)	127 (2-)	126 (2-)
Available Magnesium (Index)	mg/l	64.2 (2)	82.4 (2)	67.3 (2)	309 (5)	482 (6)	254 (5)	392 (6)	317 (5)	455 (6)	181 (4)
Sand 2.00-0.063mm	% w/w	57	58	49	36	7	6	5	5	9	36
Silt 0.063-0.002mm	% w/w	17	18	17	25	38	34	34	35	36	22
Clay <0.002mm	% w/w	26	24	34	39	55	60	61	60	55	42
Organic Matter LOI	% w/w	5.2	3.1	2.0	7.8	3.9	8.1	4.6	6.5	4.0	6.3
Textural Class **		SCL	SCL	SC	C	C	C	C	C	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.

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ANALYTICAL REPORT

Report Number	**97348-23**	**H448**	**WARDELL ARMSTRONG LLP**	**Client**	**ST19595STEM**
Date Received	**08-SEP-2023**		**CITY QUADRANT**		**AGRICULTURAL**
Date Reported	**01-NOV-2023**		**11 WATERLOO SQUARE**		
Project	**SOIL**		**NEWCASTLE UPON TYNE**		
Reference	**ST19595**		**NE1 4DP**		
Order Number					

Laboratory Reference		**SOILX62924**	**SOILX62925**	**SOILX62926**	**SOILX62927**	**SOILX62928**	**SOILX62929**	**SOILX62930**	**SOILX62931**		
Sample Reference		**406 H1**	**406 H2**	**462 H1**	**462 H2**	**462 H3**	**472 H3**	**493 H1**	**493 H2**		
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**		
pH water [1:2.5]		7.1	8.1	7.3	7.8	7.7	7.6	7.4	8.1		
Available Phosphorus (Index)	mg/l	7.4 (0)	3.6 (0)	7.6 (0)	4.8 (0)	4.0 (0)	9.9 (1)	8.8 (0)	3.8 (0)		
Available Potassium (Index)	mg/l	152 (2-)	115 (1)	181 (2+)	220 (2+)	117 (1)	185 (2+)	188 (2+)	66.3 (1)		
Available Magnesium (Index)	mg/l	267 (5)	432 (6)	336 (5)	512 (6)	501 (6)	408 (6)	366 (6)	287 (5)		
Sand 2.00-0.063mm	% w/w	8	10	5	4	2	4	1	20		
Silt 0.063-0.002mm	% w/w	32	39	41	49	46	44	46	55		
Clay <0.002mm	% w/w	60	51	54	47	52	52	53	25		
Organic Matter LOI	% w/w	8.1	3.5	8.8	6.7	5.1	7.6	8.0	2.9		
Textural Class **		C	C	C	ZC	ZC	C	ZC	MCL/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.

Document Control

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

Reported by

Joe Cherrie

Natural Resource Management, a trading division of Cawood Scientific Ltd.
Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS
Tel: 01344 886338
Fax: 01344 890972
email: enquiries@nrm.uk.com

ADAS (UK) Textural Class Abbreviations

The texture classes are denoted by the following abbreviations:

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

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

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

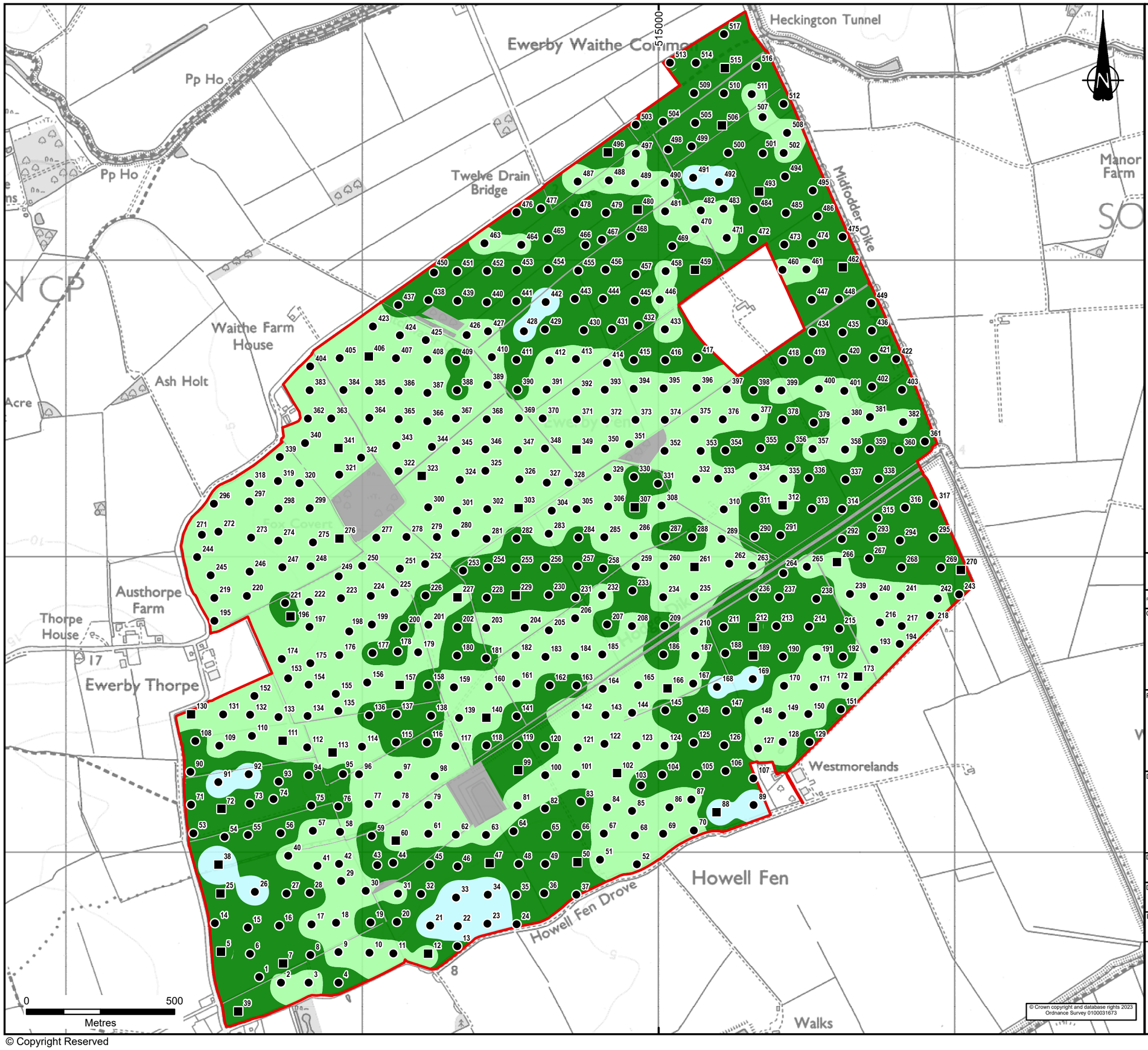
The subdivisions of *clay loam* and *silty clay loam classes* according to clay content are indicated as follows:

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

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

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

DRAWINGS



KEY

- Site Boundary
- Auger Core
- Profile Pit

Agricultural Land Classification

- Grade 2
- Grade 3a
- Grade 3b
- Other

Agricultural Land Classification	Area (ha)
Grade 2	14.61
Grade 3a	235.51
Grade 3b	261.43
Other	16.62

Notes:

Boundaries are indicative.

REVISION	DETAILS	DATE	DRAWN	CHKD	APPD
B	AMENDED ALC BOUNDARIES	11/23	SRW	DR	BC
A	FIRST ISSUE	11/23	SRW	DR	BC

CLIENT

BEACON FEN ENERGY PARK LTD

PROJECT

BEACON FEN ENERGY PARK

DRAWING TITLE

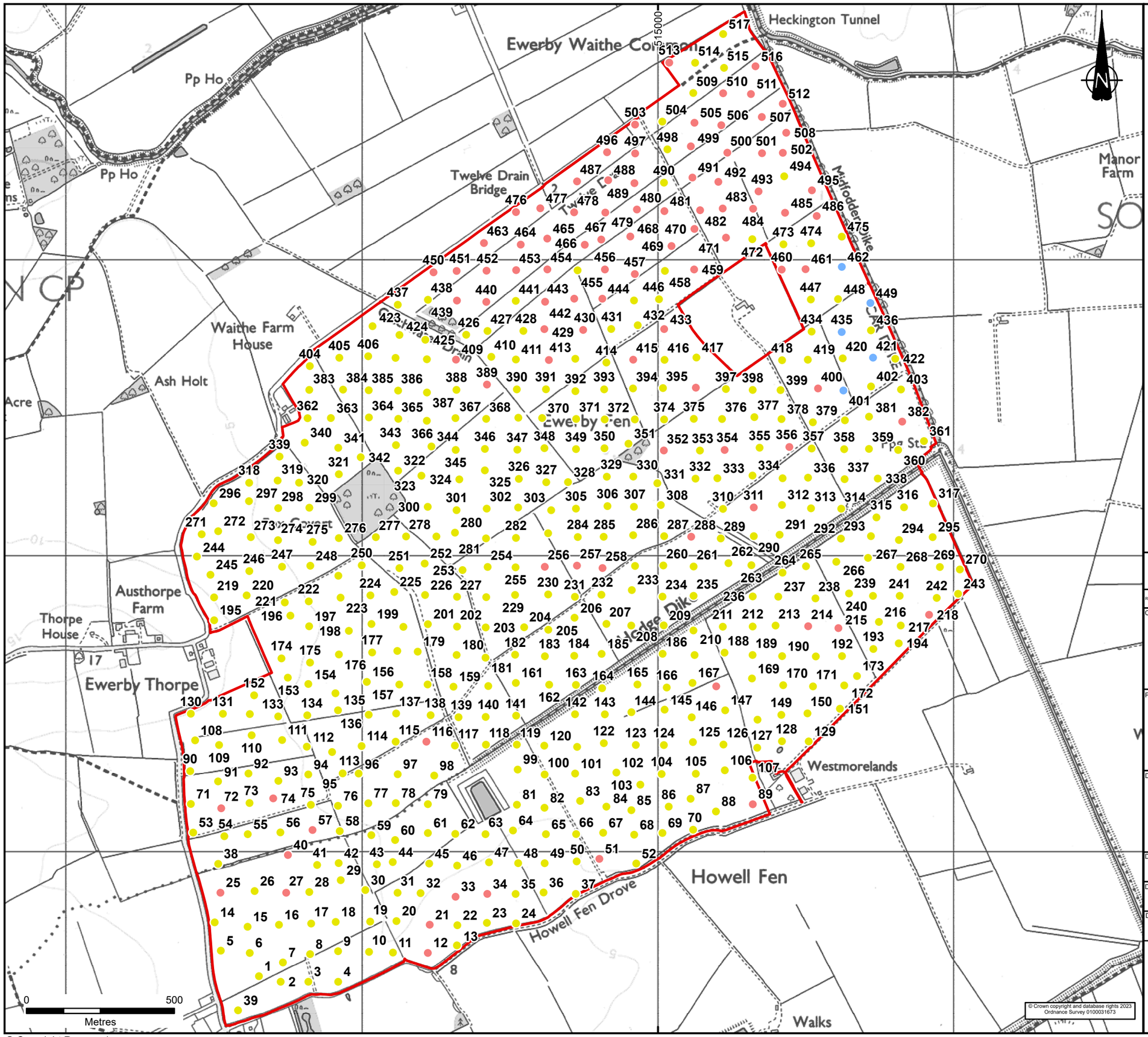
AGRICULTURAL LAND CLASSIFICATION

DRG No.	REV	SUIT. CODE
ST19595/166	B	--

DRG SIZE	SCALE	DATE
A3	1:12,500	28/11/2023

DRAWN BY	CHECKED BY	APPROVED BY
SRW	DR	BC

wardell armstrong



KEY

Site Boundary

Soil Association Characteristic

- Beccles 711t
- Ruskington 512c
- Wallasea 813g

Notes:

Boundaries are indicative.

REVISION	DETAILS	DATE	DRAWN	CHK'D	APP'D

CLIENT

BEACON FEN ENERGY PARK LTD

PROJECT

BEACON FEN ENERGY PARK

DRAWING TITLE

SOIL ASSOCIATIONS

DRG No.	REV	SUIT. CODE
ST19595/168	A	--
DRG SIZE	**SCALE**	**DATE**
A3	1:12,500	01/11/2023
DRAWN BY	**CHECKED BY**	**APPROVED BY**
GER	DR	BC

wardell armstrong

wardell-armstrong.com

STOKE-ON-TRENT
Sir Henry Doulton House
Forge Lane
Etruria
Stoke-on-Trent
ST1 5BD
Tel: +44 (0)1782 276 700

BIRMINGHAM
Two Devon Way
Longbridge Technology Park
Longbridge
Birmingham
B31 2TS
Tel: +44 (0)121 580 0909

BOLTON
41-50 Futura Park
Aspinall Way
Middlebrook
Bolton
BL6 6SU
Tel: +44 (0)1204 227 227

BRISTOL
Temple Studios
Temple Gate
Redcliffe
Bristol
BS1 6QA
Tel: +44 (0)117 203 4477

BURY ST EDMUNDS
Armstrong House
Lamdin Road
Bury St Edmunds
Suffolk
IP32 6NU
Tel: +44 (0)1284 765 210

CARDIFF
Tudor House
16 Cathedral Road
Cardiff
CF11 9LJ
Tel: +44 (0)292 072 9191

CARLISLE
Marconi Road
Burgh Road Industrial Estate
Carlisle
Cumbria
CA2 7NA
Tel: +44 (0)1228 550 575

EDINBURGH
Great Michael House
14 Links Place
Edinburgh
EH6 7EZ
Tel: +44 (0)131 555 3311

GLASGOW
24 St Vincent Place
Glasgow
G1 2EU
Tel: +44 (0)141 428 4499

LEEDS
36 Park Row
Leeds
LS1 5JL
Tel: +44 (0)113 831 5533

LONDON
Third Floor
46 Chancery Lane
London
WC2A 1JE
Tel: +44 (0)207 242 3243

NEWCASTLE UPON TYNE
City Quadrant
11 Waterloo Square
Newcastle upon Tyne
NE1 4DP
Tel: +44 (0)191 232 0943

TRURO
Baldhu House
Wheal Jane Earth Science Park
Baldhu
Truro
TR3 6EH
Tel: +44 (0)187 256 0738

International office:

ALMATY
29/6 Satpaev Avenue
Hyatt Regency Hotel
Office Tower
Almaty
Kazakhstan
050040
Tel: +7(727) 334 1310

wardell armstrong