

Mallard Pass Solar Farm

Environmental Statement Volume 2 Appendix 12.4: Land Use and Soils - Agricultural Land Classification Survey

November 2022

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Appendix 12.4: Agricultural Land Classification



AGRICULTURAL LAND CLASSIFICATION

November 2022





MALLARD PASS SOLAR

AGRICULTURAL LAND

CLASSIFICATION

November 2022

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Greenacres Barn, Stoke Common Lane, Purton Stoke, Swindon SN5 4LL T: 01793 771333 Email: info@kernon.co.uk

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1 INTRODUCTION

- 1.1 This report sets out the results of an Agricultural Land Classification (ALC) of 852 hectares of land near the villages of Essendine and Ryhall.
- 1.2 The area was initially surveyed at a semi-detailed survey level, involving auger samples on a regular 200m grid. This was supplemented by a detailed ALC over parts of the site, sampling at a regular 100m grid spacing, focusing on areas identified as mostly better quality land in order to refine the boundaries between grades.
- 1.3 The Site comprises a mixture of land qualities, with Grades 2, Subgrades 3a and 3b, and Grade 4. Areas of farm woodland are excluded from the survey area, as shown on the plans.
- 1.4 This report is structured as follows:
 - (i) section 2 describes the methodology;
 - (ii) section 3 describes the known and predictive land quality of the wider area;
 - (iii) section 4 describes the relevant factors in delivering ALC;
 - (iv) and section 5 sets out the results.

2 METHODOLOGY

- 2.1 The work has been carried out by a Chartered Scientist (CSci), who is a Fellow (F. I. Soil Sci) of the British Society of Soil Science (BSSS). This ALC survey has been carried out by a soil scientist who meets the requirements of the BSSS Professional Competency Standard (PSC) scheme for ALC (see BSSS PCS Document 2 'Agricultural Land Classification of England and Wales'). The BSSS PSC scheme is endorsed, amongst others, by the Department for Environment, Food and Rural Affairs (Defra), Natural England, the Science Council, and the Institute of Environmental Assessment and Management (IEMA).
- 2.2 This assessment is based upon the findings of a study of published information on climate, geology and soil in combination with a soil investigation carried out in accordance with the Ministry of Agriculture, Fisheries and Food (MAFF) ² 'Agricultural Land Classification of England and Wales: Revised Guidelines and Criteria for Grading the Quality of Agricultural Land', October 1988 (henceforth referred to as the 'the ALC Guidelines').
- 2.3 The ALC system provides a framework for classifying land according to the extent to which its physical or chemical characteristics impose long-term limitations on agricultural use. The ALC system divides agricultural land into five grades (Grade 1 'Excellent' to Grade 5 'Very Poor'), with Grade 3 subdivided into Subgrade 3a 'Good' and Subgrade 3b 'Moderate'. Agricultural land classified as Grade 1, 2 and Subgrade 3a falls in the 'best and most versatile' (BMV) category as defined in Annex 2 of the National Planning Policy Framework (NPPF), revised July 2021. Further details of the ALC system and national planning policy implications are set out by Natural England in its Technical Information Note 049³.
- 2.4 A semi-detailed ALC survey was carried out in December 2021. The survey involved examination of the soil's physical properties at 217 auger bore locations on a 200m by 200m grid, as shown on Plan KCC3051/01A. For the purpose of the ALC survey, the Site was divided up into 11 parcels, labelled A to K on Plan KCC3051/01A. Each parcel contained approximately 20 auger-bore locations, and represents the area covered by one ALC surveyor per day.

¹ British Society of Soil Science. Professional Competency Scheme Document 2 'Agricultural Land Classification of England and Wales'. Available online @ Last accessed February 2022

² The Ministry of Agriculture, Fisheries and Food (MAFF) was incorporated within the Department for Environment, Food and Rural Affairs (Defra) in November 2001

³ Natural England (December, 2012). 'Agricultural Land Classification: protecting the best and most versatile agricultural land (TIN049)'. Available online @ Last accessed February 2022

- 2.5 Following discussions with Natural England, further sampling of an additional 117 auger bores were carried out, principally in parcel areas A, D, H, I and J, where the sampling density was increased to a 100 metre grid. These are also shown on **Plan KCC3051/01A**.
- 2.6 Four soil pits were excavated with a spade to examine certain soil physical properties, such as stone content and subsoil structure, in more detail.
- 2.7 A sample of topsoil was collected at 11 auger-bore locations. The samples were sent to an accredited laboratory for particle size analysis, i.e., the proportions of sand, silt and clay. This is to determine the definitive texture class of the topsoil.
- 2.8 The sample locations were located using a hand-held Garmin E-Trec Geographic Information System (GIS) to enable the sample locations to be relocated for verification, if necessary.
- 2.9 The soil profile was examined at each sample location to a maximum depth of approximately 1.2 m by hand with the use of a 5 cm diameter Dutch (Edleman) soil auger. The soil profile at each sample location was described using the 'Soil Survey Field Handbook: Describing and Sampling Soil Profiles' (Ed. J.M. Hodgson, Cranfield University, 1997). Each soil profile was ascribed a grade following the ALC Guidelines.

3 KNOWN AND PREDICTIVE LAND QUALITY

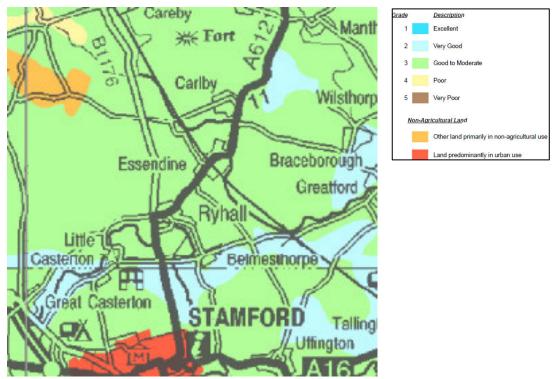
BMV Generally

- 3.1 The best and most versatile (BMV) agricultural land is that in Grades 1, 2 and 3a of the ALC (see 2.3 above).
- 3.2 Nationally across England BMV is estimated to account for 42% of agricultural land (see Natural England's Technical Information Note TIN049, 2012) reproduced in **Annex 1**). It is not, therefore, a particularly rare resource.

Published ALC Data

3.3 In the 1970's MAFF published "provisional" ALC maps. As described in TIN 049, these were not based on extensive survey, and are not suitable for site-specific analysis. The survey area is shown as mostly undifferentiated Grade 3.

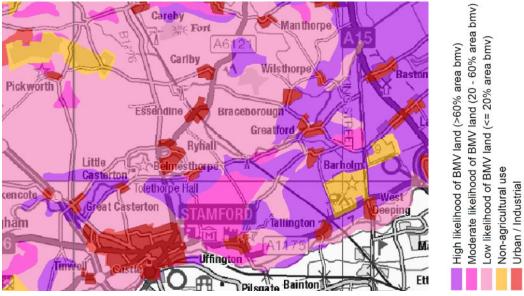




Predictive BMV Maps

3.4 In 2017 Natural England published predictive BMV maps, dividing England into areas according to the percentage of land likely to be of BMV quality. They are categorised as low (<20% area BMV), medium (20-60% area BMV) and high (>60% area BMV). This area is mostly in the low probability of bmv, as shown below.

Insert 2: Extract from Predictive BMV Map



(Original plan at 1:250,000)

3.5 In the wider context, as shown below, the area is some of the poorest quality available.

Insert 3: Wider Predictive BMV Map



Available Survey Results

- 3.6 Where MAFF has carried out ALC survey results they are available on the Multi-Agency Geographic Information for the Countryside website www.magic.co.uk.
- 3.7 No survey results are available for the area within the Site, however those in the wider area generally comprise a mix of Subgrades 3a and 3b. The map is reproduced in **Annex 2**, with an extract below.

Insert 4: Available ALC Data



Not to scale

4 FACTORS AFFECTING LAND QUALITY

- 4.1 As described in the ALC Guidelines, the main physical factors influencing agricultural land quality are:
 - climatic limitations;
 - site limitations;
 - soil limitations; and
 - interactive limitations.
- 4.2 These factors are considered in turn below.

Climatic Limitations

4.3 Interpolated climate data relevant to the determination of the ALC grade of land at the Site is given in Table 1 below.

Table 1: ALC Climate Data for Mallard's Pass (1)

Climate Parameter	Grid Ref: TF025138 (Area A, North)	Grid Ref: TF053113 (Area I, Central)	Grid Ref: TF051096 (Area K, South)		
Average Altitude (m)	53	21	41		
Average Annual Rainfall (mm)	589	575	584		
Accumulated Temperature above 0°C (January – June)	1394	1431	1409		
Moisture Deficit (mm) Wheat	111	117	114		
Moisture Deficit (mm) Potatoes	104	111	107		
Field Capacity Days (FCD)	118	112	114		
Grade according to climate	1	1	1		

⁽¹⁾ Climatological Data for Agricultural Land Classification, The Met. Office (1989)

- 4.4 Agricultural land quality within the Site is not limited by climate with reference to Figure 1 'Grade according to climate' on page 6 of the ALC Guidelines. In this case, agricultural land within the Site could be Grade 1 without any additional limitations.
- 4.5 The soil profiles across the Site are predicted to be at field capacity (i.e., the amount of soil moisture or water content held in the soil after excess water has drained away) for approximately 112 118 Field Capacity Days (FCD) per year, mainly over the late autumn, winter and early spring. The climate interacts with soil physical properties, i.e., soil texture

and wetness class, and can limit agricultural land quality due to soil wetness as per Table 6 of the ALC Guideline 'Grade according to soil wetness'. It should be noted that the number of FCD at this Site falls in the FCD category <126 for determining the grade according to wetness; this indicates the land in this climate area is drained/workable for quite a long period over the year in comparison with central lowland England which has approximately 150 FCD.

Site Limitations

- 4.6 The Site is located to north east of Stamford, on the Rutland-Lincolnshire border. The Site is mainly surrounded by agricultural land, with residential development of Essendine to the north, and a railway through the centre of the Site between Essendine and Tallington. The approximate centre of the Site is located at British National Grid (BNG) reference TF 052115.
- 4.7 With regard to the ALC Guidelines, agricultural land quality can be limited by one or more of three main site factors as follows:
 - · gradient;
 - micro-relief (i.e., complex change in slope angle over short distances); and
 - risk of flooding.
- 4.8 **Gradient and Micro Relief.** The land in the Site is undulated and reaches and elevation of approximately 69 metres (m) Above Ordnance Datum (AOD) at the highest point in the north and western regions. The lowest ground occurs in the centre at an elevation of approximately 20 mAOD. The quality of agricultural land over the Site is not limited by gradient, which does not exceed 7°. No part of the Site is limited by micro-relief (i.e., complex changes in slope angle and direction over short distances).
- 4.9 **Risk of Flooding.** From the Government Flood Map for Planning website⁴, the Site is mainly located in Flood Zone 1, with a region of Flood Zone 2 and 3 in the centre bordering the course of the West Glen River. However, there are no records (data) to show that agricultural land in any part of the Site is limited by flooding, according to the criteria for frequency and/or duration in Table 2 'Grade according to flood risk in summer' and/or Table 3 'Grade according to flood risk in winter' of the ALC Guidelines.

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⁴ Government Flood Map for Planning website. Available online @ https://flood-map-for-planning.service.gov.uk/ Last accessed January 2022

Soil Limitations

- 4.10 Geology/Soil Parent Material. From British Geological Survey (BGS) maps at 1:50,000 scale, the land in the Site is underlain by limestone in the Blisworth Limestone Formation and the Rutland Formation (argillaceous rocks with subordinate sandstone and limestone). The land in the north west is underlain by limestone in the Upper Lincolnshire Limestone Member. The eastern and southern parts of the Site are underlain by mudstone in the Kellaways Clay Member and Blisworth Clay Formation, with small areas of limestone in the Cornbrash Formation.
- 4.11 Most of the bedrock is not covered by any superficial deposits, but there is a narrow band of Alluvium (clay, silt, sand and gravel) and River Terrace Deposits (sand and gravel) bordering the West Glen River. There are also smaller regions of Glaciofluvial Deposits (Mid Pleistocene; sand and gravel) in the east and south, with an isolated region of glacial Till (Mid Pleistocene; diamicton) in centre of the Site.
- 4.12 **Published Information on Soil.** Soil information is available only at a small scale (1:250,000) on the National Soil Map published by the Soil Survey of England and Wales (SSEW) in 1983. This provisional soil map indicates that land at the Site is covered soils grouped in the Elmton 1, Elmton 3, Denchworth, Fladbury 1 and Sherborne Association.
- 4.13 As described by the SSEW, the Elmton 1 Association is found on gently undulating plateaux or dipslopes dissected by dry valleys. Although there is wide variation in the component soils because of the range of parent materials, the association consists mainly of shallow brown soils with small areas of deeper brown calcareous soils. These soils are permeable and well drained (Wetness Class I).
- 4.14 The Elmton 3 Association consists of shallow loamy and clayey soils over limestone and deeper slowly permeable clayey soils on clay-shale. These soils are well drained (Wetness Class I) but, in places, receive seepage or run-off water from adjacent Denchworth, Haselor and Evesham soils.
- 4.15 The Denchworth Association is extensive on Jurassic and Cretaceous clays and clay shales in the Midlands, South West and South East England. It consists mainly of wet clayey soils, that are stoneless, strongly mottled and waterlogged for long periods in winter (Wetness Class IV and V).
- 4.16 The Fladbury 1 Association comprise deep clayey alluvial soils and prominently mottled directly below the topsoil. The subsoils are usually slowly permeable, however the primary

source of waterlogging is groundwater which fluctuates seasonally with changes in the river level and the duration of waterlogging is often related to elevation. In winter months, these soils often suffer prolonged waterlogging (Wetness Class V).

- 4.17 The Sherborne Association soils is extensive in South West England and occurs in small patches in Oxfordshire, Warwickshire, Cambridgeshire, Lincolnshire and Northamptonshire. This Association is developed on Jurassic limestone with thin interbedded clays giving a varied soil pattern. These soils are soils are very permeable and naturally well drained (Wetness Class I).
- 4.18 **Soil Survey**. The semi-detailed soil survey carried out in December 2021, supplemented by the detailed survey in September and October 2022, determined that the soils within the Site are predominantly developed over limestone (several different geological types, as described above) and are accordingly quite variable spatially over short distances, e.g., due to variations in soil depth to impenetrable rock, stone/rock content and wetness class. This leads to a quite complex pattern of ALC Grade 2, Subgrade 3a, Subgrade 3b and Grade 4 due to a combination of factors, particularly soil droughtiness and topsoil stone content on Elmton and Sherborne soils over limestone, and soil wetness on wetter and heavier (clayey) Denchworth soils over mudstone and Fladbury soils developed in river alluvium.
- 4.19 A log of all the soil profiles recorded on the Site is available on request. Four soil pits were excavated with a spade to examine certain soil physical properties, such as subsoil structure, in more detail. The first pit (Pit 1) was located in Area D near auger-bore 90, and Pit 2 was located in Area G near auger-bore 105, as shown on Plan KCC3051/01A. Two further pits were dug in Areas I and J, and a total of 10 archaeological trenches (open at the time of survey) were examined. Photographs of some of these areas are in Annex 3.
- 4.20 In order to substantiate topsoil texture determined during the ALC survey by hand-texturing, 11 samples of topsoil were collected over the Site. The topsoil sample was sent to an accredited laboratory for analysis of particle size distribution (PSD), based on the British Standard Institution particle size grades. The certificates of analysis are provided as **Annex**4. The findings of the PSD analysis are shown in Table 2 below.

Table 2: Topsoil Texture (re Table 10, ALC Guidelines)

Topsoil Sample Location (See Plan KCC3051/01A)	% sand 0.063-2.0 mm*	% silt 0.002-0.063 mm	% clay <0.002 mm	ALC Soil Texture Class
Area A, AB8	38	41	21	Medium Clay Loam
Area B, AB25	30	50	20	Medium Clay Loam
Area C, AB48	31	44	25	Medium Clay Loam
Area D, AB91	28	44	28	Heavy Clay Loam
Area E, AB64	32	34	34	Heavy Clay Loam
Area F, AB102	23	53	24	Medium Clay Loam
Area G, AB119	39	43	18	Medium Clay Loam/Medium Sandy Silt Loam
Area H, AB149	20	43	37	Clay
Area I, AB162	6	39	55	Clay
Area J, AB173	23	42	35	Heavy Clay Loam/Clay
Area K, AB207	24	47	29	Heavy Clay Loam

Interactive Limitations

- 4.21 From the information above, together with the findings of the semi-detailed and detailed soil survey, it has been determined that the quality of agricultural land in many soil profiles over the Site is limited by soil wetness where there are heavy (clayey) and slowly permeable and seasonally waterlogged soil developed from mudstone and alluvium. Some land is limited by soil droughtiness where it has calcareous and stony soils developed over limestone. These interactive limitations are described in more detail below.
- 4.22 **Soil Wetness.** From the ALC Guidelines, a soil wetness limitation exists where 'the soil water regime adversely affects plant growth or imposes restrictions on cultivations or grazing by livestock'. Agricultural land quality at the Site is limited by soil wetness as per Table 3 below (based on Table 6 'Grade According to Soil Wetness Mineral Soils' in the ALC Guidelines).

Table 3: ALC Grade According to Soil Wetness

Wetness Class	Texture of the Top 25 cm	<126 Field Capacity Days
ı	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	1
	Sandy Clay Loam/Medium Silty Clay Loam /Medium Clay Loam*	1
	Heavy Silty Clay Loam/Heavy Clay Loam**	2
	Sandy Clay/Silty Clay/Clay	3a(2)
II	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	1
	Sandy Clay Loam/Medium Silty Clay Loam /Medium Clay Loam*	2
	Heavy Silty Clay Loam/Heavy Clay Loam**	3a(2)
	Sandy Clay/Silty Clay/Clay	3a(2)
III	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	2
	Sandy Clay Loam/Medium Silty Clay Loam /Medium Clay Loam*	3a(2)
	Heavy Silty Clay Loam/Heavy Clay Loam**	3b(3a)
	Sandy Clay/Silty Clay/Clay	3b(3a)
IV	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	3a
	Sandy Clay Loam/Medium Silty Clay Loam /Medium Clay Loam*	3b
	Heavy Silty Clay Loam/Heavy Clay Loam**	3b
	Sandy Clay/Silty Clay/Clay	3b
V	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	4
	Sandy Clay Loam/Medium Silty Clay Loam /Medium Clay Loam*	4
	Heavy Silty Clay Loam/Heavy Clay Loam**	4
	Sandy Clay/Silty Clay/Clay	4
Key * 18% to <2	7% clay; and ** 27% to 35% clay	

- 4.23 In a climate area with <126 FCD, profiles which are slowly permeable and seasonally waterlogged (Wetness Class III) are limited by soil wetness to Subgrade 3a where the topsoil is non-calcareous, medium clay loam. Where the topsoil has been determined by hand-texturing and laboratory analysis to be non-calcareous heavy clay loam, profiles in Wetness Class III are limited by soil wetness to Subgrade 3b.
- 4.24 **Soil Droughtiness.** From the ALC Guidelines, a soil droughtiness limitation exists 'in areas with relatively low rainfall or high evapotranspiration, or where the soil holds only small reserves of moisture available to plant roots.' The ALC grade according to soil droughtiness is shown in Table 4 below (based on Table 8 'Grade According to Droughtiness' in the ALC Guidelines). To be eligible for Grades 1 to 3b the moisture balances (MBs) must be equal to, or exceed, the stated minimum values for both wheat and potatoes. If the MB for either crop is less (i.e. more negative) than that shown for Subgrade 3b, the soil is Grade 4 on droughtiness).

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Table 4: ALC Grade According to Droughtiness (re Table 8 of the MAFF ALC Guidelines)

Grade/Subgrade	Moisture Balance (MB) Limits (mm)								
	Wheat	Potatoes							
1	+30	+10							
2	+5	-10							
3a	-20	-30							
3b	-50	-55							
4	<-50	<-55							

4.25 It has been calculated that Moisture Balance (MB) values are sufficient to limit agricultural land over the Site, but predominantly in areas underlain by limestone, to a mixture of Grade 2, Subgrade 3a, and Subgrade 3b. Some land in Area H (see **Plan KCC3051/01A**) which is shallow and brashy (stony) over limestone is limited by soil droughtiness to Grade 4.

5 ALC GRADING OF THE SITE

- 5.1 The area and proportion of agricultural land in each ALC grade has been measured from an ALC map. The findings are reported below.
- 5.2 As described above, the semi-detailed soil survey carried out in December 2021 determined the soils at within the Site are predominantly developed over limestone (several different geological types, as described above) and are accordingly quite variable spatially over short distances, e.g., due to variations in soil depth to impenetrable rock, stone/rock content and wetness class. This leads to a quite complex pattern of ALC Grade 2, Subgrade 3a, Subgrade 3b and Grade 4 due to a combination of factors, namely: soil droughtiness and topsoil stone content on Elmton and Sherborne soils over limestone. Some land is limited by soil wetness to Subgrade 3a and Subgrade 3b, where the soils are slowly permeable and seasonally waterlogged (Wetness Class III). These include clayey Denchworth soils developed in mudstone, and silty-clay Fladbury soils developed in river alluvium flanking the West Glen River which flows through the central parts of the Site.
- 5.3 Significant parts of the site were then the subject of additional survey to a detailed level. The revised results, being a mixture of detailed and semi-detailed, are shown below. This is shown on **Figure 12.1**. This relates to the Order Limits.

Table 5: Order Limits (detailed and semi-detailed ALC)

ALC Grade	Area (Ha)	Area (%)
Grade 1 (Excellent)	0	0
Grade 2 (Very Good)	100	11.7
Subgrade 3a (Good)	260	30.5
Subgrade 3b (Moderate)	439	51.5
Grade 4 (Poor)	18	2.1
Grade 5 (Very Poor)	0	0
Urban	3	0.4
Not surveyed (roads, railway, verges etc)	32	3.8
Total	852	100

5.4 Solar PV Arrays are proposed only over part of the site. Taking the Solar PV Array area plus land between the arrays and the fence, the areas are as follows. This is shown on **Figure 12.2**.

Table 6: Solar PV Array and Field Margins

ALC Grade	Area (Ha)	Area (%)
Grade 1 (Excellent)	0	0
Grade 2 (Very Good)	35	6.6
Subgrade 3a (Good)	181	34.1
Subgrade 3b (Moderate)	297	55.9
Grade 4 (Poor)	18	3.4
Grade 5 (Very Poor)	0	0
Non-agricultural / Other land	0	0
Urban	0	0
Total	531	100.0

6 SOIL SENSITIVITY

6.1 Soil resilience to being handled is described in the table below.

Table 7: Soil Resilience

Table 1.1: Soil Handl	ing Units	
Soil Handling Unit/Sensitivity	Resilience to structural damage during soil handling	Soil Texture Class
A (Green) – Low Sensitivity	High	Light textured soils: sand (S), loamy sands (LS), sandy loam (SL), sandy silt loams (SZL); where fewer than 225 Field Capacity Days (FCD) (Average Annual Rainfall (AAR) less than 1000mm).
B (Orange) – Medium Sensitivity	Moderate	Above textures where there are 225 FCD or more (AAR 1000mm or greater). Medium textured soils with less than 27% clay content: silt loam (ZL), medium silty clay loam (MZCL), medium clay loam (MCL), sandy clay loam (SCL); where there are 225 FCD or fewer (AAR 1000mm or less). Heavy textures below (i.e., more than 27% clay content) where fewer than 150 FCD (AAR less than 700mm).
C (Red) – High Sensitivity	Low	Medium textures above where there are more than 225 FCD (AAR greater than 1000mm). Heavy textures soils with more than 27% clay content: heavy silty clay loams (HZCL), heavy clay loam (HCL), sandy clay (SC) silty clay (ZC) clay (C); where FCD are 150 or more (AAR 700mm or greater). Organic and peaty soils.

6.2 The resilience of soils across the site is plotted below. All soils are of medium sensitivity in this climate area.

Insert 5: Soil Resilience in the Area



Agricultural Land Classification: protecting the best and most versatile agricultural land

Most of our land area is in agricultural use. How this important natural resource is used is vital to sustainable development. This includes taking the right decisions about protecting it from inappropriate development.

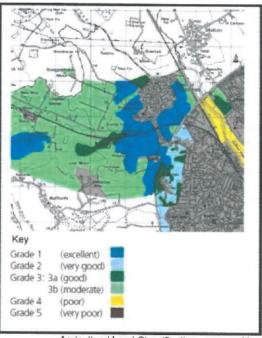
Policy to protect agricultural land

Government policy for England is set out in the National Planning Policy Framework (NPPF) published in March 2012 (paragraph 112). Decisions rest with the relevant planning authorities who should take into account the economic and other benefits of the best and most versatile agricultural land. Where significant development of agricultural land is demonstrated to be necessary, local planning authorities should seek to use areas of poorer quality land in preference to that of higher quality. The Government has also re-affirmed the importance of protecting our soils and the services they provide in the Natural Environment White Paper The Natural Choice:securing the value of nature (June 2011), including the protection of best and most versatile agricultural land (paragraph 2.35).

The ALC system: purpose & uses

Land quality varies from place to place. The Agricultural Land Classification (ALC) provides a method for assessing the quality of farmland to enable informed choices to be made about its future use within the planning system. It helps

underpin the principles of sustainable development.



Agricultural Land Classification - map and key

Second edition 19 December 2012



Agricultural Land Classification: protecting the best and most versatile agricultural land

The ALC system classifies land into five grades, with Grade 3 subdivided into Subgrades 3a and 3b. The best and most versatile land is defined as Grades 1, 2 and 3a by policy guidance (see Annex 2 of NPPF). This is the land which is most flexible, productive and efficient in response to inputs and which can best deliver future crops for food and non food uses such as biomass, fibres and pharmaceuticals. Current estimates are that Grades 1 and 2 together form about 21% of all farmland in England; Subgrade 3a also covers about 21%.

The ALC system is used by Natural England and others to give advice to planning authorities, developers and the public if development is proposed on agricultural land or other greenfield sites that could potentially grow crops. The Town and Country Planning (Development Management Procedure) (England) Order 2010 (as amended) refers to the best and most versatile land policy in requiring statutory consultations with Natural England. Natural England is also responsible for Minerals and Waste Consultations where reclamation to agriculture is proposed under Schedule 5 of the Town and Country Planning Act 1990 (as amended). The ALC grading system is also used by commercial consultants to advise clients on land uses and planning issues.

Criteria and guidelines

The Classification is based on the long term physical limitations of land for agricultural use. Factors affecting the grade are climate, site and soil characteristics, and the important interactions between them. Detailed guidance for classifying land can be found in: Agricultural Land Classification of England and Wales: revised guidelines and criteria for grading the quality of agricultural land (MAFF, 1988):

- Climate: temperature and rainfall, aspect, exposure and frost risk.
- · Site: gradient, micro-relief and flood risk.
- Soil: texture, structure, depth and stoniness, chemical properties which cannot be corrected.

The combination of climate and soil factors determines soil wetness and droughtiness.

Wetness and droughtiness influence the choice of crops grown and the level and consistency of yields, as well as use of land for grazing livestock. The Classification is concerned with the inherent potential of land under a range of farming systems. The current agricultural use, or intensity of use, does not affect the ALC grade.

Versatility and yield

The physical limitations of land have four main effects on the way land is farmed. These are:

- · the range of crops which can be grown;
- the level of yield;
- · the consistency of yield; and
- the cost of obtaining the crop.

The ALC gives a high grading to land which allows more flexibility in the range of crops that can be grown (its 'versatility') and which requires lower inputs, but also takes into account ability to produce consistently high yields of a narrower range of crops.

Availability of ALC information

After the introduction of the ALC system in 1966 the whole of England and Wales was mapped from reconnaissance field surveys, to provide general strategic guidance on land quality for planners. This Provisional Series of maps was published on an Ordnance Survey base at a scale of One Inch to One Mile in the period 1967 to 1974. These maps are not sufficiently accurate for use in assessment of individual fields or development sites, and should not be used other than as general guidance. They show only five grades: their preparation preceded the subdivision of Grade 3 and the refinement of criteria, which occurred after 1976. They have not been updated and are out of print. A 1:250 000 scale map series based on the same information is available. These are more appropriate for the strategic use originally intended and can be downloaded from the Natural England website. This data is also available on 'Magic', an interactive, geographical information website http://magic.defra.gov.uk/.

Since 1976, selected areas have been resurveyed in greater detail and to revised

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Agricultural Land Classification: protecting the best and most versatile agricultural land

guidelines and criteria. Information based on detailed ALC field surveys in accordance with current guidelines (MAFF, 1988) is the most definitive source. Data from the former Ministry of Agriculture, Fisheries and Food (MAFF) archive of more detailed ALC survey information (from 1988) is also available on http://magic.defra.gov.uk/. Revisions to the ALC guidelines and criteria have been limited and kept to the original principles, but some assessments made prior to the most recent revision in 1988 need to be checked against current criteria. More recently, strategic scale maps showing the likely occurrence of best and most versatile land have been prepared. Mapped information of all types is available from Natural England (see Further information below).

New field survey

Digital mapping and geographical information systems have been introduced to facilitate the provision of up-to-date information. ALC surveys are undertaken, according to the published Guidelines, by field surveyors using handheld augers to examine soils to a depth of 1.2 metres, at a frequency of one boring per hectare for a detailed assessment. This is usually supplemented by digging occasional small pits (usually by hand) to inspect the soil profile. Information obtained by these methods is combined with climatic and other data to produce an ALC map and report. ALC maps are normally produced on an Ordnance Survey base at varying scales from 1:10,000 for detailed work to 1:50 000 for reconnaissance survey

There is no comprehensive programme to survey all areas in detail. Private consultants may survey land where it is under consideration for development, especially around the edge of towns, to allow comparisons between areas and to inform environmental assessments. ALC field surveys are usually time consuming and should be initiated well in advance of planning decisions. Planning authorities should ensure that sufficient detailed site specific ALC survey data is available to inform decision making.

Consultations

Natural England is consulted by planning authorities on the preparation of all development

plans as part of its remit for the natural environment. For planning applications, specific consultations with Natural England are required under the Development Management Procedure Order in relation to best and most versatile agricultural land. These are for non agricultural development proposals that are not consistent with an adopted local plan and involve the loss of twenty hectares or more of the best and most versatile land. The land protection policy is relevant to all planning applications, including those on smaller areas, but it is for the planning authority to decide how significant the agricultural land issues are, and the need for field information. The planning authority may contact Natural England if it needs technical information or advice.

Consultations with Natural England are required on all applications for mineral working or waste disposal if the proposed afteruse is for agriculture or where the loss of best and most versatile agricultural land agricultural land will be 20 ha or more. Non-agricultural afteruse, for example for nature conservation or amenity, can be acceptable even on better quality land if soil resources are conserved and the long term potential of best and most versatile land is safeguarded by careful land restoration and aftercare.

Other factors

The ALC is a basis for assessing how development proposals affect agricultural land within the planning system, but it is not the sole consideration. Planning authorities are guided by the National Planning Policy Framework to protect and enhance soils more widely. This could include, for example, conserving soil resources during mineral working or construction, not granting permission for peat extraction from new or extended mineral sites, or preventing soil from being adversely affected by pollution. For information on the application of ALC in Wales, please see below.

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Agricultural Land Classification: protecting the best and most versatile agricultural land

Further information

Details of the system of grading can be found in: Agricultural Land Classification of England and Wales: revised guidelines and criteria for grading the quality of agricultural land (MAFF, 1988).

Please note that planning authorities should send all planning related consultations and enquiries to Natural England by e-mail to consultations@naturalengland.org.uk. If it is not possible to consult us electronically then consultations should be sent to the following postal address:

Natural England Consultation Service Hornbeam House Electra Way Crewe Business Park CREWE Cheshire CW1 6GJ

ALC information for Wales is held by Welsh Government. Detailed information and advice is available on request from lan Rugg

or David Martyn
If it is not

possible to consult us electronically then consultations should be sent to the following postal address:

Welsh Government Rhodfa Padarn Llanbadarn Fawr Aberystwyth Ceredigion SY23 3UR

Natural England publications are available to download from the Natural England website: www.naturalengland.org.uk.

For further information contact the Natural England Enquiry Service on 0300 060 0863 or e-mail enquiries@naturalengland.org.uk.

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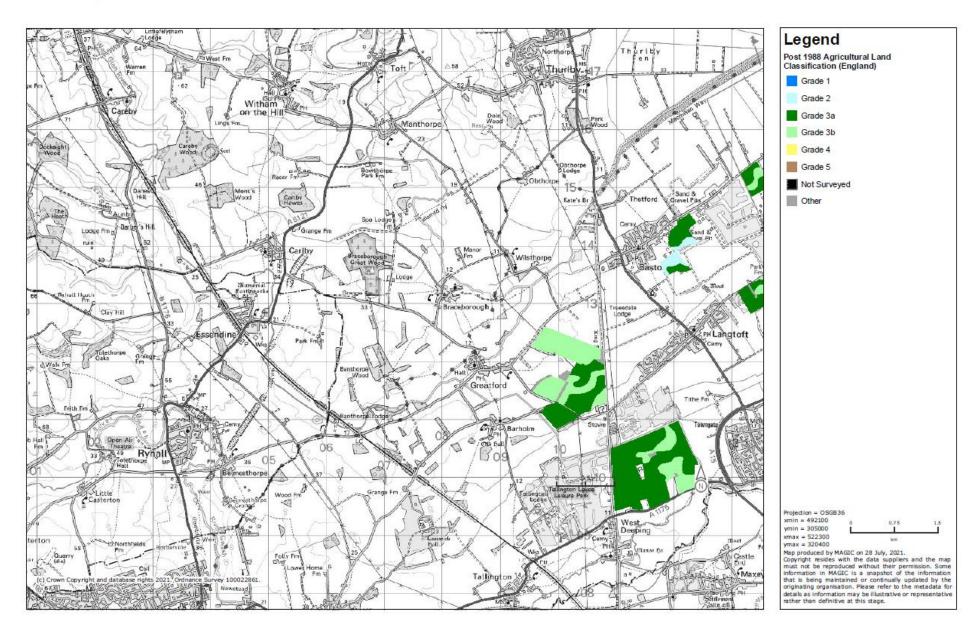
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Annex 2
Available ALC from www.magic.gov.uk



Essendine



25 KCC3051 ALC Nov 22

Annex 3 Photos of Soil Pits





Trench 2 in shallow valley bottom, West of AB5 and AB9 at TF 03427 12632



Trench 4 at TF 03599 12622 on lower slopes towards valley bottom. Very variable.



Trench 7 near AB15 at TF 03528 12413



Above, Limestone is 'weathered' / 'altered' rather than solid. Few very fine roots, but very dense and compact so probably only rootable for about 20cm.

Annex 4
Soil Profile Logs

Site A

Grid ref.	Depth (cm) Matrix Ochreous Mottles Grey Mottles			Stones - type 1	Stones - type 2	Ped				Drought	Wet	Final ALC	
Point NGR X Y Alt (m) Slope ° Aspect Land use T G2400 14200 502400 314200 58 57 5	Top Ettm Time Munsell colour Form Munsell	No Yes	HCL - Cla MZCL - S MZCL - S IMP - Im	% > 2cm > 6cm Type 7 7 3 HR - All 0 HR - All 50 HR - All	% > 2cm > 6cm Type % > 2cm > 6cm Type hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	Strength Size Shape e which cannot be scratche e which cannot be scratche e which cannot be scratche	Moderate Moderate	VC - Ve VC - Ve	No	SPL Drought	WC Gw WCI 2	Limitation 1 Limitation 2 Limitation 3 Droughtiness	Grade 3b
2 TF 02600 14200 502600 314200 58 ≤7 S	0 30 30 10YR4/4 30 35 5 10YR4/4	No	C - Clay C - Clay	0 HR - All	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche	Moderate	VC - Ve	No No	No -44 62 3b No	WCI 2	Droughtiness	3b
3 TF 02400 14000 502400 314000 58 ≤7 5	35 45 10 45 120 75 0 40 40 7.5YR4/4		C - Clay IMP - Im	50 HR - Ali	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche	Moderate	9		No No	11/21 2	Droughtiness	21:
3 11 02-103 21-103 32-103 33	0 40 50 10 7.59Re/4 50 60 10 60 120 60	No		0 HR - All 50 HR - All	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche	Moderate Moderate	vC - Ve	No	No No No	WC1 2	Oroughthiess	30
4 TF 02600 14000 502600 314000 53 s7 S	0 38 38 10YR4/3 38 40 2 10YR5/4 40 50 10 50 120 70	No		0 HR - Ali 50 HR - Ali	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche	Moderate Moderate	e VC - Ve		No -36 70 3b No No No	WCI 2	Droughtiness	3b
5 TF 02800 14000 502800 314000 53 ≤7 S	0 38 38 7.5YR4/6 38 50 12 50 120 70	No	HCL - Cla C - Clay IMP - Im	50 HR - All	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche	Moderate	e	No	No -34 72 3b No No	WC1 2	Droughtiness	3b
TF 02400 13800 502400 313800 49 ≤7 S	0 40 40 10YR4/4 40 50 10 10YR4/6 50 60 10 60 120 60	No	C - Clay C - Clay C - Clay IMP - Im	0 HR - Ali 50 HR - Ali	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche	Moderate Moderate	e e	No	No -24 86 3b No No No	WC1 2	Droughtiness	3b
3 TF 02600 13800 502600 313800 40 ≤7 S	0 40 40 10YR4/3 40 55 15 7.5YR4/4 55 75 20 10YR6/3 MD-110YR5/6 75 120 45	No Yes	C - Clay C - Clay C - Clay IMP - Im	0 HR - All 0 HR - All	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche	Moderate Poor	NON -	No No	No Yes	WC II 3a	Droughtines: Wetness	3a
9 TF 02800 13800 502800 313800 37 ≤7 S	0 35 35 10YR4/3 35 70 35 7.5YR4/4 70 80 10 80 120 40	No	C - Clay C - Clay C - Clay IMP - Im	0 HR - All 50 HR - All	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche	Moderate Moderate	NON - NON -	No No	No No	WCI 3a	Droughtines: Wetness	3a
16 TF 02400 13600 502400 313600 46 ≤7 S												N/A	
17 TF 02600 13600 502600 313600 43 ≤7 S												N/A	
.8 TF 02880 13600 502880 313600 39 ≤7 S												N/A	
28 TF 02400 13400 502400 313400 46 ≤7 S												N/A	
29 TF 0260013400 502600 313400 43 ≤7 S												N/A	
30 TF 02800 13400 502800 313400 46 ≤7 S												N/A	
41 TF 0240013200 502400 313200 40 ≤7 S												N/A	
42 TF 02600 13200 502600 313200 51 ≤7 S												N/A	
13 TF 02800 13200 502800 313200 51 ≤7 S	0 38 38 7.5YR4/6 38 40 2 7.5YR4/6 40 60 20 5YR4/6 60 70 10 70 120 50	No No	HCL - Cla HCL - Cla HCL - Cla HCL - Cla IMP - Im	0 HR - Ali 0 HR - Ali 50 HR - Ali	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche e which cannot be scratche	Moderate Moderate Moderate	SC - Sli SC - Sli	Yes No No	No	WC1 2	Droughtiness	За
14 TF 03000 13200 503000 313200 42 ≤7 S	0 38 38 7.5YR4/6 38 40 2 7.5YR4/6 40 60 20 5YR4/6 60 70 10 70 120 50	No No		0 HR - All 0 HR - All 50 HR - All	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche e which cannot be scratche	Moderate Moderate Moderate	SC - Sli SC - Sli	Yes No No		WCI 2	Droughtiness	За
S TF 02400 13000 502400 313000 56 ≤7 S	0 40 40 10YR4/3 40 70 30 10YRS/3 CD-C10YRS/6 70 80 10 10YRS/2 CD-C10YRS/6 80 90 10 90 120 30	Yes Yes	MCL - CI MCL - CI MCL - CI MCL - CI IMP - Im	0 HR - Ali 0 HR - Ali 50 HR - Ali	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche e which cannot be scratche	Moderate Moderate Moderate	e e	No No No	No 12 115 2 No No No No	WCI 1	Droughtiness	2
66 TF 02600 13000 502600 313000 52 ≤7 S	0 35 35 10YR4/4 35 50 15 10YR5/6 50 60 10 60 120 60	No	MCL - CI MCL - CI MCL - CI IMP - Im	0 HR - All 50 HR - All	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche	Moderate Moderate	9	No No	No -18 91 3a No No No	WCI 1	Droughtiness	3a
57 TF 02800 13000 502800 313000 52 ≤7 S	0 35 35 7.5YR4/6 35 65 30 7.5YR5/6 CD-C10YR5/6 65 75 10 75 120 45	No	HCL - Clay C - Clay C - Clay IMP - Im	0 HR - All 50 HR - All	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche	Moderate Moderate	NON -	Yes No	No -8 110 3a No No No	WCI 2	Droughtiness	За
58 TF 03000 13000 503000 313000 46 ≤7 S	0 38 38 7.5YR4/6 38 50 12 7.5YR5/6 CD-C10YR5/6 50 60 10 60 120 60	No	HCL - Cla HCL - Cla HCL - Cla IMP - Im	0 HR - All 50 HR - All	hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos hard rocks or stones (i.e. thos	e which cannot be scratche e which cannot be scratche	Moderate Moderate	NON -	Yes	No No	WCI 2	Droughtiness	За
				2 2 HR - All	hard rocks or stones (i.e. thos				No	No -8 107 3a	WCI 2		20

SITE B

Point Grid ref. Alt (m) Slope a Aspect Land	use Depth (cm)		Gley Texture	L	Stones - type 1	Stones - type 2	Ped SUBS STR	CaCO3	Mn C SPL Drought V	Vet Fin Gw Limitation 1 Limitati	nal ALC
NGR X Y 6 TF 01100 13800 501100 313800 65 ≤7 SE	Top Bttm This	ck Munsell colour Form Munsell colour Form Munsell colour 7.5YR4/4	No MCL - Clay loam (medium)	% > 2cm > 6 8 8 4	icm Type HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	% > 2cm > 6cm Type Str	rength Size Shape	VC - Very calcareous (>10% CaCO3)	No No -40 -33 3b WC		ion 2 Limitation 3 Grad
	35 45 10		MCL - Clay loam (medium)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	,	No No		[
	45 120 75		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No		
10 TF 0 000 13600 501000 313600 68 ≤7 SE	0 0 30	2.5Y /6	No HCL - Clay loam (heavy)	6 6 1	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Not Applicable	VC - Very calcareous (>10% CaCO3)	No No -19 -9 3a WC	1.2 Droughtinger	25
10 17 0 000 13000 301000 313000 08 37 32	30 50 20		No HCL - Clay loam (heavy)	0 0 1	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	VC - Very calcareous (>10% CaCO3)	No No	1 2 Diougnuness	30
	50 60 10		HCL - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No		
	60 120 60		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No		
11 TF 01200 13600 501200 313600 59 ≤7 SE	0 35 35	PVD4/4	No HCL - Clay loam (heavy)	F F 3	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Net Aceliechie	CC Clinhalis and assessment of Tay Co.CO.)	No No -26 -15 3b WC	1.3 Doministration	26
11 IF 01200 13600 501200 313600 59 S7 SE	35 40 5		No HCL - Clay loam (neavy) No HCL - Clay loam (heavy)	0 2	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	SC - Slightly calcareous (1 - 5% CaCO) SC - Slightly calcareous (1 - 5% CaCO)	NO NO -26 -15 30 WC Yes No	1 2 Droughtiness	3D
	40 60 20	5YR4/4	No HCL - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	SC - Slightly calcareous (1 - 5% CaCO)	No No		
	60 120 60		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	SC - Slightly calcareous (1 - 5% CaCO)	No No		
12 TF 01400 13600 501400 313600 55 ≤7 SE	0 0 30		No HCL - Clay loam (heavy) No HCL - Clay loam (heavy)	5 5 1	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No -33 -26 3b WC	I 2 Droughtiness	3b
	38 50 12	5YR4/4	HCL - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	,	No No		
	50 120 70		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No		
13 TF 0 600 13600 501600 313600 48 ≤7 SE				5 5 1							
13 17 0 000 13000 501000 313000 48 57 56	38 45 7	7.5YR4/4 5YR4/4	No MCL - Clay loam (medium) No MCL - Clay loam (medium)	5 5 1 50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No -36 -29 3b WC Yes No	i i broughtiness	30
	45 120 75		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3)	No No		
				1					\perp		
14 TF 02000 13600 502000 313600 52 ≤7 SE	0 0 30 30 40 10	7.5YR4/4 5YR4/4	No MCL - Clay loam (medium) No MCL - Clay loam (medium)	5 5 1	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No -47 -40 3b WC	I 1 Droughtiness	3b
	40 120 80		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a linger hall)		Moderate	VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No		
				1							
				1							
15 TF 02200 13600 502200 313600 51 ≤7 SE	0 39 39 39 45 6	7.5YR4/4 5YR4/A	No MCL - Clay loam (medium) No MCL - Clay loam (medium)	5 5	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No -35 -28 3b WC	I 1 Droughtiness	3b
	45 120 75		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger hall) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No		
				1							
				1							
21 TF 0 000 13400 501000 313400 69 ≤7 SE	0 35 35 35 70 35		No HCL - Clay loam (heavy)	6 6 1	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			SC - Slightly calcareous (1 - 5% CaCO)	No No 1 14 3a WC	1 2 Droughtiness	3a
	70 80 10		No HCL - Clay loam (heavy) HCL - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			SC - Slightly calcareous (1 - 5% CaCO) SC - Slightly calcareous (1 - 5% CaCO)	Yes INO No No		
	80 120 40		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			SC - Slightly calcareous (1 - 5% CaCO)	No No		
22 TF 01200 13400 501200 313400 65 ≤7 SE	0 35 35		No HCL - Clay loam (heavy)	6 6 1				SC - Slightly calcareous (1 - 5% CaCO)	No No 1 14 3a WC	I 2 Droughtiness	3a
	35 70 35 70 80 10		No HCL - Clay loam (heavy) HCL - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			SC - Slightly calcareous (1 - 5% CaCO) SC - Slightly calcareous (1 - 5% CaCO)	Yes No No No		
	80 120 40		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			SC - Slightly calcareous (1 - 5% CaCO)	No No		
				1							
				1							
23 TF 01400 13400 501400 313400 63 ≤7 SE	0 8 38		No HCL - Clay loam (heavy)	3 3 1				VSC - Very slightly calcareous (0.5 - 1% CaCO3)		I 2 Droughtiness	3b
	38 48 10 48 120 72		No HCL - Clay loam (heavy) IMP - Impenetrable to roots	0	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VSC - Very slightly calcareous (0.5 - 1% CaCO3) VSC - Very slightly calcareous (0.5 - 1% CaCO3)			
	48 120 72		INF - Imperietrable to roots	ľ	The All Hald Tooks of Stolles (i.e. those which calliot be scatched with a higger hall)		INIDUETALE	v3c - very singritty carcaleous (0.3 - 1% caco3)	NO NO		
24 TF 0 600 13400 501600 313400 53 ≤7 SE	0 48 48	7.5YR4/4	No MCL - Clay loam (medium)	5 5	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Not Applicable	VSC - Very slightly calcareous (0.5 - 1% CaCO3)	No No -19 - 0 3a WC	I 1 Droughtiness	3a
	48 58 10 58 120 62		MCL - Clay loam (medium)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No		
	58 120 62		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No		
25 TF 0 800 13400 501800 313400 45 ≤7 SE	0 8 38	5YR4/1	Yes MCL - Clay loam (medium)	3 3 1	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Not Applicable	VC - Very calcareous (>10% CaCO3)	No No -37 - 0 3b WC	I 1 Droughtiness	3b
	38 42 4		MCL - Clay loam (medium)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3)	No No		
	42 120 78		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	VC - Very calcareous (>10% CaCO3)	No No		
26 TF 02000 13400 502000 313400 44 ≤7 SE	0 45 45	7.5YR4/4	No HCL - Clay loam (heavy)	5 5	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Not Applicable	VC - Very calcareous (>10% CaCO3)	No No -18 -7 3a WC	1 2 Droughtiness	3a
	45 50 5	5YR4/4	No C - Clay	0	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3)	No No		[]
	50 60 10 60 120 60		C - Clay	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate Moderate		No No		
			pc.nc.dable to 1000	[Juciate				
				1							
27 TF 02200 13400 502200 313400 48 ≤7 SE	0 0 30	7.5YR4/4	No MCL - Clay loam (medium)	8 8 6	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	+ +	Not Applicable	VC - Very calcareous (>10% CaCO3)	No No -48 -41 3b WC	I 1 Droughtiness	3b
	30 40 10	,	MCL - Clay loam (medium)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No	1	[~
	40 120 80		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		NO NO		
				1							
				1							
37 TF 01400 13200 501400 313200 63 ≤7 SE	0 40 40	5YR4/4	No MCL - Clay loam (medium)	5 5	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	+ +	Not Applicable	VC - Very calcareous (>10% CaCO3)	No No 0 16 3a WC	I 1 Droughtiness	Ra Ra
1	40 80 40	SYR5/4	No C - Clay	0	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	VC - Very calcareous (>10% CaCO3)	No No	J 7 1-2	[
	80 120 40		IMP - Impenetrable to roots	0	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	VC - Very calcareous (>10% CaCO3)	No No		
				1							
				1							
38 TF 0 600 13200 501600 313200 62 ≤7 SE	0 8 38	5YR4/4	No HCL - Clay loam (heavy)	5 5 2	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	+ +	Not Annlirable	VC - Very calcareous (>10% CaCO3)	No No -26 -17 3b WC	I 2 Droughtiness	3h
	38 43 5	SYR5/4	No HCL - Clay loam (heavy)	0 2	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	VC - Very calcareous (>10% CaCO3)	No No		ا
	43 55 12		HCL - Clay loam (heavy) IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No No No		
	55 120 65		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No		
				1							
39 TF 0 800 13200 501800 313200 59 ≤7 SE	0 8 38	5YR5/4	HCL - Clay loam (heavy)	3 3 1	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	+	Not Applicable	VC - Very calcareous (>10% CaCO3)	No No -29 -22 3b WC	1.2 Droughtiness	2h
	38 40 2	SYRS/4	HCL - Clay loam (heavy)	10	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No		
	40 50 10 50 120 70		HCL - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No No		
	DU 120 70		IMP - Impenetrable to roots	ρυ	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		INU INU		
40 TF 02200 13200 502200 313200 42 ≤7 SE	0 45 4-	7.5YR4/4	No HCL - Clay loam (heavy)	3 2	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	+ +	Mark Assellant	VC - Very calcareous (>10% CaCO3)	No No 34 18 1 WC	1.2 Watner	
17 02200 13200 302200 313200 42 S/ SE	45 80 35	5YR4/4	No HCL - Clay loam (heavy) No C - Clay	3 3	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No WC	- wertiess	ľ
	80 120 40		C - Clay	0	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No Yes		
				1							
				1							
54 TF 0 600 13000 501600 313000 61 ≤7 SE	0 40 40	SVPS/A	No HCL - Clay loam (heavy)	4.4.	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	+ +	Not Applicable	MC - Moderately calcareous (5 - 10% CaCO3)	No No -29 -22 3b WC	2 Denughtieser	n.
~ 15.0 000 13000 301000 313000 01 S/ 2F	0 40 40 40 50 10		No HCL - Clay loam (heavy) No HCL - Clay loam (heavy)	50 1	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			MC - Moderately calcareous (5 - 10% CaCO3) MC - Moderately calcareous (5 - 10% CaCO3)	No No WC	brodgnuness	l _{3p}
	50 120 70		IMP - Impenetrable to roots	50	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			MC - Moderately calcareous (5 - 10% CaCO3)	No No		
END				+		+			+	-	
	1	1		1			1	•	1 1	1	1

32 KCC3051 ALC Apr 22 Final

SITE C

Grid ref.	Depth (cm) Matrix Ochreous Mottles	Grev Mottles	Stones - type 1	Stones - type 2 Ped		Drought	Wet Final ALC	
Point NGR X Y Alt (m) Slope ° Aspect Land		ur Form Munsell colour Gley Texture	% >2cm >6cm Type	% > 2cm > 6cm Type Strength Size Shape	CaCO3 Mn 0		C Gw Limitation 1 Limitation 2 Limitation	n 3 Grade
19 TF 03000 13600 503000 313600 33 ≤7 SE	0 40 40 7.5YR4/4	No MCL - Clay loam (medium)				No -28 -22 3b W		3b
	40 45 5 7.5YR4/4 45 55 10	No MCL - Clay loam (medium) MCL - Clay loam (medium)	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 	Moderate Moderate	VC - Very calcareous (>10% CaCO3) No	No No		'
	55 120 65	IMP - Impenetrable to root		Moderate	No	No		
31 TF 03000 13400 503000 313400 33 ≤7 SE	0 35 35 7.5YR4/6	No C - Clay	5 5 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			No -28 -19 3b W	C1 2 Droughtiness	3b
	35 50 15 7.5YR4/6 50 60 10	No C - Clay C - Clay	2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate Moderate	VC - Very calcareous (>10% CaCO3) No No	No No		
	60 120 60	IMP - Impenetrable to root		Moderate	No.			
32 TF 03200 13400 503200 313400 31 ≤7 SE	0 40 40 7.5YR4/6	No HCL - Clay loam (heavy)	5 5 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicable	le VC - Very calcareous (>10% CaCO3) No	No -29 -22 3b W	C1 2 Droughtiness	3b
	40 45 5 5YR4/6	No C - Clay	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	VC - Very calcareous (>10% CaCO3) No	No		
	45 55 10 55 120 65	C - Clay IMP - Impenetrable to root	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 51 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate Moderate	No No	No No		
	33 110 03	in inperiends to root	The following of stones (i.e. those which cannot be selected with a high half)	I I I I I I I I I I I I I I I I I I I				
33 TF 03400 13400 503400 313400 33 ≤7 SE	0 45 45 7.5YR4/6	No HCL - Clay loam (heavy)	3 3 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicab	le VC - Very calcareous (>10% CaCO3) No	No -48 -39 3b W	C1 2 Droughtings	2h
33 11 03400 13400 303400 313400 33 37 32	45 50 5 7.5YR4/6	No C - Clay	2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	VC - Very calcareous (>10% CaCO3) No	No 48 -33 30 W	C1 2 Diougntmess	130
	50 60 10	C - Clay	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	No	No		
	60 120 60	IMP - Impenetrable to root	s 51 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	No	No		
								\perp
34 TF 03600 13400 503600 313400 28 ≤7 SE	0 40 40 7.5YR3/4	No HCL - Clay loam (heavy)	3 3 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		le VC - Very calcareous (>10% CaCO3) No VC - Very calcareous (>10% CaCO3) No	No -15 2 3a W	CI 2 Droughtiness	3a
	40 60 20 7.5YR4/6 60 70 10	No C - Clay C - Clay	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 	Moderate Moderate		No No		'
	70 120 50	IMP - Impenetrable to root		Moderate		No		
35 TF 03800 13400 503800 313400 31 ≤7 SE	0 40 40 7.5YR4/4	No MCL - Clay loam (medium)	5 5 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicable	le MC - Moderately calcareous (5 - 10% CaCO3) No	No -1 7 3a W	C1 2 Droughtiness	3a
	40 60 20 5YR4/4	No HCL - Clay loam (heavy)	5 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	SC - Slightly calcareous (1 - 5% CaCO3) No	No		
	60 80 20 5YR4/4 80 120 40	No HCL - Clay loam (heavy) IMP - Impenetrable to root	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 5 0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate Moderate	SC - Slightly calcareous (1 - 5% CaCO3) No SC - Slightly calcareous (1 - 5% CaCO3) No	No No		
	120 40	liver - impenetrable to root	IIII - AII Hai d Tocks of Stories (i.e. diose willcut cannot be scrattned with a finger hall)	Imoderate	NO No			
45 TF 02200 12200 F02200 242200 25	0 25 25 75VP*/5	No. 1100 at 1 00	5 5 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		lo CC Clighthy colors are to Force and	No. 21 22 21	CL 2 Description	31.
45 TF 03200 13200 503200 313200 35 ≤7 SE	0 35 35 7.5YR4/6 35 45 10 7.5YR4/6	No HCL - Clay loam (heavy) No C - Clay	5 5 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 5 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicab Moderate		No -31 -23 3b W	C1 2 Drougntiness	3b
	45 55 10	C - Clay	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate		No		
	55 120 65	IMP - Impenetrable to root	s 50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	No	No		
						<u> </u>		
46 TF 03400 13200 503400 313200 32 ≤7 SE	0 40 40 7.5YR4/6	No HCL - Clay loam (heavy)	3 3 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			No -23 -14 3b W	CI 2 Droughtiness	3b
	40 50 10 7.5YR4/6 50 60 10	No C - Clay C - Clay	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 	Moderate Moderate	VC - Very calcareous (>10% CaCO3) No	No No		
	60 120 60	C - Clay IMP - Impenetrable to root	SO HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate Moderate		No No		'
								'
								'
47 TF 03600 13200 503600 313200 29 ≤7 SE	0 30 30 7.5YR4/6	No MCL - Clay loam (medium)	3 3 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicable	le No.	No -14 1 3a W	CI 1 Droughtiness	3a
23500 32500 £3 3/ 3E	30 40 10 7.5YR4/6	No HCL - Clay loam (heavy)	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	No	No Y		ļ~ '
	40 60 20 5YR4/6	No HCL - Clay loam (heavy)	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	No	No		
	60 70 10 70 120 50	C - Clay IMP - Impenetrable to root	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate Moderate	No No	No No		
	70 120 30	invir - impenetrable to root	nn - Ail Ilaiu Iuux ui stulies (i.e. those which cannot be scratched with a finger hall)	Imoderate	l No	110		
						<u> </u>		
48 TF 03800 13200 503800 313200 31 ≤7 SE	0 35 35 7.5YR4/6 35 50 15 7.5YR4/6	No MCL - Clay loam (medium) MCL - Clay loam (medium)	2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicabl Moderate	le NON - Non-calcareous (<0.5% CaCO3) No NON - Non-calcareous (<0.5% CaCO3) Yes	No -2 10 3a W	CI 1 Droughtiness	3a
	50 70 20 7.5YR5/6	MCL - Clay loam (medium) HCL - Clay loam (heavy)	O HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate Moderate	NON - Non-calcareous (<0.5% CaCO3) Yes Yes			
	70 80 10	HCL - Clay loam (heavy)	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate		No		
	80 120 40	IMP - Impenetrable to root	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	No	No		
								- '
49 TF 04000 13200 504000 313200 32 ≤7 SE	0 38 38 10YR4/3	No HCL - Clay loam (heavy)	2 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicab	le NON - Non-calcareous (<0.5% CaCO3) No	No -19 -5 3a W	C III 3b Wetness	3b
	38 60 22 10YR5/3 MD - Many Distinct 10YR5/6	Yes C - Clay	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Poor	NON - Non-calcareous (<0.5% CaCO3) No	Yes		'
	60 70 10 70 120 50	C - Clay IMP - Impenetrable to root	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Poor	No No	Yes Yes		
		III - IIIpenetiable to root			l No			
EQ. TE 02200 12000 E02200 212000 44	0 25 25 7 5VPA/6	No. 1461 Claudent C. 1	2.2 UB All band codes prestance (i.e. the contribution of the delivery of the contribution)	M-7 - 7-11	la CC Cliabely colores out /4 TW C-CO2	No -12 2 3a W	C.I. 1. Desughtings	
59 TF 03200 13000 503200 313000 41 ≤7 SE	0 35 35 7.5YR4/6 35 45 10 7.5YR4/4	No MCL - Clay loam (medium) No HCL - Clay loam (heavy)	2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicabl Moderate	le SC - Slightly calcareous (1 - 5% CaCO3) No SC - Slightly calcareous (1 - 5% CaCO3) No	No -12 2 3a W	C. 1 Droughtness	58
	45 60 15 7.5YR4/6	No HCL - Clay loam (heavy)	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	NON - Non-calcareous (<0.5% CaCO3)	No		
	60 70 10 70 120 50	HCL - Clay loam (heavy) IMP - Impenetrable to root	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate Moderate	No 	No No		
	70 120 30	livir - impenetrable to root	The - All Halu House of Scotters (i.e. chose which cannot be scratched with a finger hall)	Imoderate	l No	140		
60 TF 03600 13000 503600 313000 30 ≤7 SE	0 38 38 7.5YR4/4	No HCL - Clay loam (heavy) No HCL - Clay loam (heavy)	5 5 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			No -29 -22 3b W	CI 2 Droughtiness	3b
	38 45 7 7.5YR4/4 45 55 10	No HCL - Clay loam (heavy) HCL - Clay loam (heavy)	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 	Moderate Moderate		No No		'
	55 120 65	IMP - Impenetrable to root		Moderate	No	No		
61 TF 03800 13000 503800 313000 35 ≤7 SE	0 38 38 2.5Y4/2	Yes C - Clay	3 3 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			No 13 -4 2 W	CIII 3a Wetness	За
	38 60 22 2.5Y5/3 CD - Common Distinct 10YR5/6	Yes C - Clay	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Poor	VC - Very calcareous (>10% CaCO3) No	Yes		
	60 120 60	C - Clay	O HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Poor	No	Yes		
62 TF 04000 13000 504000 313000 36 ≤7 SE	0 38 38 10YR4/3	No C - Clay	5 5 1 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicable	le VC - Very calcareous (>10% CaCO3) No	No -27 -18 3b W	CI 2 Droughtiness	3h
	38 50 12 10YR4/4	No C - Clay	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	VC - Very calcareous (>10% CaCO3) No	No -27 -16 50 W		آ
	50 60 10	C - Clay	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	No	No		
	60 120 60	IMP - Impenetrable to root	s 51 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Moderate	No	No		
		1				<u> </u>		4
76 TF 04000 12800 504000 312800 44 ≤7 SE	0 35 35 10YR4/3 35 40 5 10YR4/3	No C - Clay No C - Clay	7 5 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) NR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	Not Applicabl Moderate		No -40 -35 3b W	CI 2 Droughtiness	3b
	40 50 10	No C - Clay C - Clay	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 	Moderate Moderate	VC - Very calcareous (>10% CaCO3) No No	No No		
	50 120 70	IMP - Impenetrable to root		Moderate	No	No		
END								+
							•	

SITE D

GR X Y Alt (m) Slope * Aspect Land u	Depth (cm) Matrix	Ochreous Mottles	Grey Mottles		Stones - type 1	Stones - type 2 Ped						Final ALC
	Top Bttm Thick Munsell colour For		orm Munsell colour		% > 2cm > 6cm Type	% > 2cm > 6cm Type Strength Size Shap		CaCO3	Mn C	MBw MBp 0		Limitation 1 Limitation 2 Limitation 3
- 03200 12800 503200 312800 39 ≤7 SE	0 28 28 7.5YR4/6 28 30 2 7.5YR4/6		N	o HCL - Clay loam (heavy) HCL - Clay loam (heavy)	 5 5 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 10 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 		Not Applicable Moderate	VC - Very calcareous (>10% CaCO3)	No No	No -50 -43 4	WCI 2	Droughtiness
	30 40 10			HCL - Clay Ioam (heavy)	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
	40 120 80			IMP - Impenetrable to roots	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
										1		
							1			-		
F 03400 12800 503400 312800 37 ≤7 SE	0 35 35 7.5YR4/6 35 38 3 7.5YR4/6		N	o MCL - Clay loam (medium) HCL - Clay loam (heavy)	 3 3 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 10 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 		Not Applicable Moderate	VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No	No -36 -29 3	b WCI 1	Droughtiness
	38 48 10				50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	very calcule out (* 10% caecos)	No	No		
	48 120 72			IMP - Impenetrable to roots	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
										1		
- 03600 12800 503600 312800 32 ≤7 SE	0 38 38 7.5YR4/6 38 60 22 7.5YR5/6		N	o HCL - Clay loam (heavy) HCL - Clay loam (heavy)	2 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Not Applicable Moderate	VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No	No -12 3 3	Ja WCI 2	Droughtiness
	60 65 5				50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	vc - very calcareous (>10/0 cacos)	No	No		
	65 120 55			IMP - Impenetrable to roots	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
										1		
F 03400 12600 503400 312600 35 ≤7 SE	0 40 40 10YR4/3			,	2 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Not Applicable Moderate	VC - Very calcareous (>10% CaCO3)	No	No -20 -5 3	Ja WCI 2	Droughtiness
	40 55 15 10YR4/4 55 65 10		N	O C - Clay C - Clay	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 		Moderate	VC - Very calcareous (>10% CaCO3)	No	No		
	65 120 55			IMP - Impenetrable to roots	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
										1		
										1		
F 03600 12600 503600 312600 39 ≤7 SE	0 35 35 10YR4/4			o C - Clay	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			SC - Slightly calcareous (1 - 5% CaCO3		No 28 12 2	WCI 3a	Wetness
	35 60 25 7.5YR5/6 60 65 5 10YR5/3			o C - Clay es C - Clay	O HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate Moderate	NON - Non-calcareous (<0.5% CaCO3	No No	No No		
	65 120 55		1"	C - Clay	O HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger hail)		Moderate		No	No		
										1		
										1		
F 03800 12600 503800 312600 42 ≤7 SE	0 35 35 10YR4/4			o C - Clay	5 5 3 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			SC - Slightly calcareous (1 - 5% CaCO3		No 18 3	WC III 3b	Wetness
	35 50 15 10YR5/3 50 60 10 10YR5/3 CD	- Common Distinct 10YR5/6	N	o C - Clay	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	NON - Non-calcareous (<0.5% CaCO3		No Vec		
	50 60 10 10YR5/3 CD 60 120 60	- COMMINUM DISCINCE 10TR5/b	Y	es C - Clay C - Clay	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 		Poor	NON - Non-calcareous (<0.5% CaCO3 NON - Non-calcareous (<0.5% CaCO3				
									1	1		
							1			1		
F 04000 12600 504000 312600 46 ≤7 SE	0 38 38 10YR4/3			o C - Clay	1 1 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			NON - Non-calcareous (<0.5% CaCO3		No 20 5	WCII 3a	Wetness
	38 50 12 10YR5/3	Many Distance America		es C - Clay	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	NON - Non-calcareous (<0.5% CaCO3		No		
	50 60 10 10YR5/3 MD 60 120 60	- Many Distinct 10YR5/6	Y	es C - Clay C - Clay	O HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Poor		1 .	Yes		
					The state of the s		[1.0	ſ		
							1			1		
- 03400 12400 503400 312400 50 ≤7 SE	0 38 38 10YR4/3	+	N	o C - Clay	1 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	+ + +	Not Applicable	VC - Very calcareous (>10% CaCO3)	No	No -8 11 3	3a WCI 2	Droughtiness
	38 50 12 10YR5/3		Y	es C - Clay	1 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	VC - Very calcareous (>10% CaCO3)	No	No	-	
	50 70 20 2.5Y5/3 MD 70 80 10	- Many Distinct 10YR5/6	Y	es C - Clay C - Clay	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 		Moderate	VC - Very calcareous (>10% CaCO3)	No	No		
	80 120 40			IMP - Impenetrable to roots			Poor		No	No		
										1		
- 03600 12400 503600 312400 51 ≤7 SE	0 36 36 10YR4/4		N	o HCL - Clay loam (heavy)	3 3 1 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	<u> </u>	Not Applicable	VC - Very calcareous (>10% CaCO3)	No	No -29 -20 3	3h WCI 2	Droughtiness
33300 312400 31	36 43 7 10YR4/3			o C - Clay	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	VC - Very calcareous (>10% CaCO3)	Yes	No 25 26 5	0 11101 2	Diougnamess
	43 53 10			C - Clay	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
	53 120 67			IMP - Impenetrable to roots	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
										1		
5 00000 40400 F00000 040400 F0	0 29 29 10VR4/3			- 0 0-	2. 2. UR All hand and a second of a share which are a share which are shared with a firm a silicon.		Not Applicable	NC New release (c 100/ C-CO3)		N - 25 42	25 MCL 2	Describbles
F 03800 12400 503800 312400 50 ≤7 SE	0 29 29 10YR4/3 29 50 21 10YR5/3			o C - Clay es C - Clay	3 3 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No	No -25 -13 3 No	ib WC1 2	Droughtiness
	50 60 10			C - Clay	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate	, , ,	No	No		
	60 120 60			IMP - Impenetrable to roots	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
							1			1		
				10.00				La vi				
F 04000 12400 504000 312400 48 ≤7 SE	0 30 30 10YR4/4 30 40 10 10YR4/3			o C - Clay o C - Clay	7 7 4 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3) VC - Very calcareous (>10% CaCO3)	No No	No -34 -23 3 No	b WCI 2	Droughtiness
	40 60 20 10YR4/3		l'	C - Clay	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
	60 120 60			IMP - Impenetrable to roots			Moderate		No	No		
										1		
											\bot	
= 03600 12200 503600 312200 52 ≤7 SE	0 38 38 10YR4/4 38 40 2 10YR4/3				3 3 1 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Not Applicable Moderate	VC - Very calcareous (>10% CaCO3)	No	No -36 -29 3	Jb WCI 2	Droughtiness
	38 40 2 10YR4/3 40 50 10		N	O C - Clay C - Clay	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 		Moderate		No No	No No		
	50 120 70			IMP - Impenetrable to roots			Moderate			No		
							1			1		
F 03800 12200 503800 312200 51 ≤7 SE	0 35 35 10YR4/3		N	o C - Clay	5 5 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3)		No -37 -30 3	lb WCI 2	Droughtiness
	35 40 5 7.5YR4/4 40 50 10		N	O C - Clay C - Clay	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 		Moderate Moderate	VC - Very calcareous (>10% CaCO3)	No No	No No		
	50 120 70			IMP - Impenetrable to roots			Moderate			No		
							1			1		
						<u> </u>		<u> </u>				
F 04000 12200 504000 312200 44 ≤7 SE	0 38 38 2.5Y4/3				2 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			SC - Slightly calcareous (1 - 5% CaCO3		No -16 3	da WCI 2	Droughtiness
	38 50 12 10YR5/3 50 60 10 10YR5/3 FF-	Few Faint 10YR5/6		es C - Clay es C - Clay	 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 		Moderate Moderate	SC - Slightly calcareous (1 - 5% CaCO3	No No	No No		
	60 70 10		1"	C - Clay	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
	70 120 50			IMP - Impenetrable to roots			Moderate		No	No		
							1			1		
	0 30 30 10YR5/3	+	Y	es C - Clay	0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			VC - Very calcareous (>10% CaCO3)	No	No -50 -43 4	4 WCI 2	Droughtiness
04600 12020 504600 312020 24 ≤7 SE	30 40 10			C - Clay	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate		No	No		
- 04600 12020 504600 312020 24 ≤7 SE	40 120 80		I	IMP - Impenetrable to roots	50 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	1 1	Moderate	1	No	NO	1	
04600 12020 504600 312020 24 ≤7 SE							1					
34600 12020 504600 312020 24 57 SE	3 20 00									ļ		
600 12020 504600 312020 24 ≤7 SE												

SITE E

G d ef. Alt (m) Slope a Aspect Land use	Depth (cm) Mat x	Och eous Mottles	G ey Mottles	CI-	Textu e	I	Stones - type 1	Stones - type 2	Ped SUBS	STR CaCO	22		C KRI D	ought	Wet	F nal ALC	
NGR X Y Alt (m) Slope ° Aspect Land use TF 05400 13200 505400 313200 34 ≤7 SE	Top ttm Th ck Munsell colou Fo m 0 22 22 10YR4/3 22 38 16 7.5YR5/4	Munsell colou	Fo m Munsell colou	uc,	C - Clay	% >2cm >6cm	Type SIST-Saft oal toa dolom tol mestones SIST-Saft oal toa dolom tol mestones	Stones - type 2 % >2cm >6cm Type		sc - s	SI ghtly calca eous (1 - 5% CaCO3)	-	MBw	-10 3a V	VC Gw I	F nal ALC L m tat on 1 L m tat on 2 L m tat on 3 D ought ness	G ade
	22 38 16 7.5YR5/4 38 120 82 7.5YR5/5			No No	C - Clay C - Clay		SLST - Soft ool tico dolom ticl mestones SLST - Soft ool tico dolom ticl mestones		Mode Mode	e ate MC-I	SI ghtly calca eous (1 - 5% CaCO3) Mode ately calca eous (5 - 10% CaCO3)	No	No No				
																	1
TF 05600 13200 505600 313200 36 s7 SE	0 27 27 10YR4/3 27 40 13 10YR6/3 CD-Cor	mmon D st nct 10YRS/6		+-		20 8	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a li)				SI ghtly calca eous (1 - 5% CaCO3)	+	-48	-38 3b V	VCI 2	D ought ness	3b
	40 60 20 10YRS/5	mmon D st nct 101KS/6		No	C - Clay C - Clay	50	HR - All ha dilocks o stones (i.e. those which cannot be sc atched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be sc atched with a finge in a l)		Mode	e ate SC - S	SI ghtly calca eous (1 - 5% CaCO3) SI ghtly calca eous (1 - 5% CaCO3)	es	No				1
																	1
TF 05800 13200 505800 313200 36 s7 SE	0 25 25 10YR4/3				HCL - Clay loam (heavy)	10	SLST - Soft ool t c o dolom t c i mestanes				Mode ately calca eous (5 - 10% CaCO3)	+	-36	-25 3b V	VCI 1	D ought ness	3b
	25 35 10 10YRS/4 35 65 30 10YR6/4			No No	C - Clay SCL - Sandy clay loam		SLST - Soft ool tical dolomitic limestones SLST - Soft ool tical dolomitic limestones				Mode ately calca eous (5 - 10% CaCO3) Mode ately calca eous (5 - 10% CaCO3)	No	No No				1
																	1
TF 05200 13000 505200 313000 24 ≤7 SE	0 27 27 10YR4/2			+	MCL - Clay loam (med um)	10 3	HR - All ha di ocks o stones (i.e. those which cannot be sciatched with a finge in a I)			sc-s	SI ghtly calca eous (1 - 5% CaCO3)	+	-12	-10 3a V	VCI 1	D ought ness	За
	27 48 21 7.5YR4/4 48 60 12 7.5YR4/4 60 90 30 7.5YR5/4			No	MCL - Clay loam (med um) MSL - Med um sandy loam	5 20	HR - All hald locks o stones (le. those which cannot be sclatched with a finge in a l) HR - All hald locks o stones (le. those which cannot be sclatched with a finge in a l)			e ate SC - S	SI ghtly calca eous (1 - 5% CaCO3) SI ghtly calca eous (1 - 5% CaCO3)		No No				1
	60 90 30 7.5YRS/4			No	SCL - Sandy clay loam	50	HR - All ha d ocks o stones (.e. those which cannot be sc atched with a finge in a I)		Mode	e ate MC-I	Mode ately calca eous (5 - 10% CaCO3)		No				1
TF 05400 13000 505400 313000 34 ≤7 SE	0 25 25 10YR4/3			_	C - Clay	10 3	SLST- Soft ool too dolom tol mestones			90-9	SI ghtly calca eous (1 - 5% CaCO3)	+	14	-3 2 1	NCI 2	D ought ness Wetness	-
	25 35 10 10YR4/4 35 120 85 10YR5/4			No No	C - Clay C - Clay	S 10	SLST - Soft ool t co dolom t c l mestones SLST - Soft ool t co dolom t c l mestones			ate SC-S	SI ghtly calca eous (1 - 5% CaCO3) Mode ately calca eous (5 - 10% CaCO3)	No	No No				1
																	1
TF 05600 13000 505600 313000 36 ≤7 SE	0 25 25 10YR4/2				100 00 00 00 00 00	10.10						4					Ļ
TFUSBOU 13000 505600 313000 36 57 5E	25 40 15 10YR4/4 40 60 20			No	MCL - Clay loam (med um) MCL - Clay loam (med um) MCL - Clay loam (med um)		HR - All had ocks o stones (.e. those wh ch cannot be sc atched w th af nge na I) HR - All had ocks o stones (.e. those wh ch cannot be sc atched w th af nge na I) HR - All had ocks o stones (.e. those wh ch cannot be sc atched w th af nge na I)			e ate MC-I	Mode ately calca eous (5 - 10% CaCO3) Mode ately calca eous (5 - 10% CaCO3) Mode ately calca eous (5 - 10% CaCO3)	No	No No	-51 4 W	VCI 1	D ought ness	ľ
					mee cuy tourn (med um)	_	The All the County (A. India and Challed S. Salind William Ing. 1821)		1		mode sicily calculations (3 - 20% caccos)						1
TF 05800 13000 505800 313000 36 ≤7 SE	0 25 25 2.5Y4/3 25 120 95 2.5Y5/3 CD-Cor	mmon D st nct 10YRS/6		es	C - Clay C - Clay	4	HR - All ha d ocks o stones (.e. those which cannot be sciatched with a finge in a l) HR - All hald ocks o stones (.e. those which cannot be sciatched with a finge in a l)		Poo	NON NON	i - Non-calca eous (0.5% CaCO3) i - Non-calca eous (0.5% CaCO3)	No	Yes 6	-11 3a W	VC III 3b	Wetness	3b
														- [
TF 06000 13000 506000 313000 37 s7 SE	0 28 28 10YR4/3 28 50 22 2.5Y5/3 MP - Ma	any P om nent 10YRS/6		es	C - Clay HCL - Clay loam (heavy)	4	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a li) SLST - Soft ool ticlo dolomit cill mestones		Mode	ate SC-S	I - Non-calca eous (0.5% CaCO3) SI ghtly calca eous (1 - 5% CaCO3)	No	No 12	-5 2 W	VC III 3b	Wetness	3b
	50 120 70 SYS/1 CP - Cor	mmon P om nent 10YRS/6		es	C - Clay	0	SLST - Soft and t c a dalam t c i mestanes		Poo	SC - S	SI ghtly calca eous (1 - 5% CaCO3)		Yes				
														- [
TF 05200 12800 505200 312800 23 s7 SE	0 30 30 7.5YR4/2 30 40 10 7.5YR4/4			Me	MCL - Clay loam (med um) SCL - Sandy clay loam	15 8 50	HR - All hald locks o stones (i.e. those which cannot be sc atched with a finge in a I) HR - All hald locks o stones (i.e. those which cannot be sc atched with a finee in a I)		14-4-		SI ghtly calca eous (1 - 5% CaCO3) Mode ately calca eous (5 - 10% CaCO3)	-	-47 No	-39 3b W	VCI 1	D ought ness	3b
	30 40 10 7.5YR4/4 40 60 20				SCL - Sandy clay loam SCL - Sandy clay loam		HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a l)				Mode ately calca eous (5 - 10% CaCO3) Mode ately calca eous (5 - 10% CaCO3)	IND	No				
TF 05400 12800 505400 312800 33 ≤7 SE	0 28 28 10YR4/2			+		30 16	HR-All ha d locks o stones (.e. those which cannot be sciatched with a finge in a I)	+ +		MC-I	Mode ately calca eous (5 - 10% CaCO3)	+	-58	-48 4 W	VCI 1	D ought ness	4
	28 40 12 10YR4/4 40 60 20			No	C - Clay C - Clay	50 50	HR - All hald locks o stones (.e. those which cannot be sclatched with a finge in a l) HR - All hald locks o stones (.e. those which cannot be sclatched with a finge in a l)			e ate MC-I	Mode ately calca eous (5 - 10% CaCO3) Mode ately calca eous (5 - 10% CaCO3)	No	No No				
TF 05600 12800 505600 312800 34 ≤7 SE	0 28 28 10YR4/3			\perp	C - Clay	S	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a l)			NON	I - Non-calca eous (0.5% CaCO3)	+	12	-4 2 W	VCII 3× I	Wetness	3a
	28 50 22 10YRS/4	mmon D st nct 10YRS/6		No es	C - Clay C - Clay C - Clay		HR: -All hald locks o stones (i.e. those which cannot be sclatched with a ringe inal) HR: -All hald locks o stones (i.e. those which cannot be sclatched with a ringe inal) HR: -All hald locks o stones (i.e. those which cannot be sclatched with a ringe inal)		Mode Pro-	ate NON	i - Non-caica eous (U.5% CaCU3) i - Non-caica eous (0.5% CaCO3) Si ghtly caica eous (1 - 5% CaCO3)	No	No Yes		34		
				1			auto a utatingo ad I)			[°			1	- [
				\perp								\perp					L
TF 05800 12800 505800 312800 33 s7 SE	0 25 25 10YR4/3 25 30 5 10YR4/4 30 50 20			No	C - Clay C - Clay C - Clay		HR - All had ocks o stones (.e. those wh ch cannot be sc atched w th af nge na I) HR - All had ocks o stones (.e. those wh ch cannot be sc atched w th af nge na I) HR - All had ocks o stones (.e. those wh ch cannot be sc atched w th af nge na I)			e ate MC - I	Mode ately calca eous (5 - 10% CaCO3) Mode ately calca eous (5 - 10% CaCO3) Mode ately calca eous (5 - 10% CaCO3)	No	No No	-/1 4 W	vCI 2	D ought ness	f
					- Cuy	[wode	MIL.	encry canal cous (3 - 10% CBCUS)		Ĩ	- [
TF 06000 12800 506000 312800 34 ≤7 SE	0 28 28 10YR4/3 28 120 92 2.5Y6/1 CP - Cor	mmon P om nent 10YRS/6		es	HCL - Clay loam (heavy) C - Clay	0	HR - All ha dilocks o istones (i.e. those which cannot be sciatched with a finge in a li) HR - All haid ilocks o istones (i.e. those which cannot be sciatched with a finge in a li)		Poo	NON- NON-	i - Non-calca eous (0.5% CaCO3) i - Non-calca eous (0.5% CaCO3)	es	12 Yes	-5 2 W	VCIII 3b	Wetness	3b
TF 06200 12800 506200 312800 37 s7 SE	0 28 28 10YR4/3 28 40 12 10YR6/3 CD - Cor	mmon D st nct 10YR5/6			HCL - Clay loam (heavy) HCL - Clay loam (heavy)	15 8 30	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a I) SLST - Soft political dolomitic limestones		Mode		I - Non-calca eous (0.5% CaCO3) SI ghtly calca eous (1 - 5% CaCO3)	es	-31 s No	-22 3b W	VCI 2	Wetness	3b
		mmon D st nct 10YRS/6		es	SCL - Sandy clay loam	50	SLST-Soft ool t co dolom t c I mestones		Mode	e ate VC - V	Ve y calca eous (>10% CaCO3)		No				
														- [
TF 05600 12600 505600 312600 32 ≤7 SE	0 25 25 10YR4/3			No	C - Clay	5	HR - All hald locks o stones (i.e. those which cannot be sc atched with a finge in a I) HR - All hald locks o stones (i.e. those which cannot be sc atched with a finee in a I)	+		VSC -	- Ve y slightly calca eous (0.5 - 1% CaCO3)	+	10	-3 2 W	VCI 3a	Wetness	За
	25 55 30 10YR4/4 55 120 65 10YR5/2 CD-Co	mmon D st nct 10YRS/6		es	C - Clay C - Clay		HR - All ha d ocks o stones (.e. those wh ch cannot be sc atched w th af nge na l) HR - All ha d ocks o stones (.e. those wh ch cannot be sc atched w th af nge na l)		Mode Mode	e ate SC - S	- Ve y sl ghtly calca eous (0.5 - 1% CaCO3) Sl ghtly calca eous (1 - 5% CaCO3)	No es	s No				
TF 05800 12600 505800 312600 32 ≤7 SE	0 25 25 10YR4/3			+	C - Clay	5	HR - All ha d ocks o stones (.e. those which cannot be scatched with a finge in a l)			vsc-	- Ve y sl ghtly calca eous (0.5 - 1% CaCO3)	+	6	-10 2 W	VCIII 3b	Wetness	3b
	25 35 10 10YRS/4	mmon D st nct 2.5Y6/1	CD - Common D st nct 10YR5/6	No es	C - Clay C - Clay	5 5	HR - All ha d ocks o stones (.e. those which cannot be sciatched with a finge in a l) HR - All hald ocks o stones (.e. those which cannot be sciatched with a finge in a l)		Mode Poo	ate VSC -	- Ve y sl ghtly calca eous (0.5 - 1% CaCO3) Sl ghtly calca eous (1 - 5% CaCO3)	No No	No Yes				
														- [
TF 06000 12600 506000 312600 32 ≤7 SE	0 25 25 10994/2			_	C - Clav	4	HR - All hald locks o stones (i.e. those which cannot be scratched with a finee in a li			her	- Ve y sl ghtly calca eous (0.5 - 1% CaCO3)	+	-	-8 2 W	NCIII 3F	Wetness	34
	0 25 25 10YR4/2 25 38 13 10YR6/4 38 120 82 5YS/3 CD-Cor	mmon D st nct 5Y6/1		No es	C - Clay SCL - Sandy clay loam C - Clay		HR - All hald locks o stones (i.e. those which cannot be sc atched with all rige in all) HR - All hald locks o stones (i.e. those which cannot be sc atched with all rige in all) HR - All hald locks o stones (i.e. those which cannot be sc atched with all rige in all)		Mode Poo	ate SC-S	- Ve y sI ghtly calca eous (0.5 - 1% CaCO3) SI ghtly calca eous (1 - 5% CaCO3) SI ghtly calca eous (1 - 5% CaCO3)	es	No Yes	(W	50		ſ
XE 00200 43000 - F00200 342000	0 00 00 000			\perp	140 di 1	~ 0						\perp	4				1
TF 06200 12600 506200 312600 34 s7 SE	0 25 25 7.5YR4/3 25 35 10 7.5YR4/4 35 65 30 7.5YR5/8				MCL - Clay loam (med um) MCL - Clay loam (med um) MSL - Med um sandy loam		HR - All hald locks o stones (i.e. those which cannot be scatched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be scatched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be scatched with a finge in a l)			ate NON	i - Non-calca eous (0.5% CaCO3) i - Non-calca eous (0.5% CaCO3) i - Non-calca eous (0.5% CaCO3)		No No	-8 2 W	vci 1	D ought ness	ľ
	35 65 30 7.5YR5/8 65 120 55 7.5YR5/8				MSL- Med um sandy loam SCL- Sandy clay loam		HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a l)				I - Non-calca eous (0.5% CaCO3) I - Non-calca eous (0.5% CaCO3)		No				
				\perp													
		mmon D st nct 2.5Y6/1		es	C - Clay C - Clay	4	SLST - Soft ool ticol dolomit cli mestones SLST - Soft ool ticol dolomit cli mestones			e ate SC - S	SI ghtly calca eous (1 - 5% CaCO3) SI ghtly calca eous (1 - 5% CaCO3)		-11 No	-10 3a W	VCI 2	D ought ness	За
TF 06000 12400 506000 312400 28 ≤7 SE	135 55 20 10VDS/F	mmon D st nct 10YRS/6		No es	SCL - Sandy clay loam MSL - Med um sandy loam	10 50	SLST - Soft ool tico dolom ticl mestones SLST - Soft ool tico dolom ticl mestones		Mode Mode	e ate SC - S e ate MC - I	SI ghtly calca eous (1 - 5% CaCO3) Mode ately calca eous (5 - 10% CaCO3)		No No				
TF 06000 12400 506000 312400 28 ≤7 SE	35 55 20 10YRS/6 55 85 30 10YR6/4 CD - Cor		1											- [
TF:06:000:12460 506:000 312400 28 <7 SE	55 85 30 10YR6/4 CD-Cc					20 10	SLST - Soft political dolomitical mestanes					+	3	-13 3a W	MCIII 26		24
	55 85 30 10/R6/4 CD-Coi	mmon D st nct 2.5Y6/1		es	C - Clay C - Clay	2	SLST - Soft ool t co dolom t c I mestones	'	Pon		i - Non-calca eous (0.5% CaCO3) i - Non-calca eous (0.5% CaCO3)	es	No			Wetness	Γ
TF 06:000 12400 506:000 312400 28 s7 5E TF 06:000 12400 506:200 312400 28 s7 5E	55 85 30 10/R6/4 CD-Coi 0 25 25 10/R4/3 25 45 20 2.5/5/3 CD-Coi 45 55 10 2.5/5/4	mmon D st nct 2.5Y6/1 mmon D st nct 10YR5/6		es No es		2 10			Poo Mode Poo	ate SC-S		es	s No No Yes			Wetness	ſ
	55 85 30 10/R6/4 CD-Coi 0 25 25 10/R4/3 25 45 20 2.5/5/3 CD-Coi 45 55 10 2.5/5/4			es No es	C - Clay C - Clay	2 10	SLST - Soft ool t co dolom t c l mestones SLST - Soft ool t co dolom t c l mestones		Poo Mode Poo	ate SC-S	I - Non-calca eous (0.5% CaCO3) SI ghtly calca eous (1 - 5% CaCO3)	es	No No Yes			Wetness	ſ
	55 85 30 10/88/4 CD-Coi			es No es	C - Clay C - Clay C - Clay C - Clay	2 10 2	SUT-fairboot to a dialom til mestanes SUT-fairboot to adom til mestanes		Poo Mode Poo	e ate SC - S NON	I - Non-calca eous (0.5% CaCO3) SI ghthy calca eous (1 - 5% CaCO3) I - Non-calca eous (0.5% CaCO3) SI ghthy calca eous (1 - 5% CaCO3)	es	s No No Yes	-16 3b W			3b
TF-0620013400 506200 312400 28 s7 5E	55 85 30 10788/4 CD-Coi 0 25 25 10788/4 CD-Coi 25 45 20 2.555/3 CD-Coi 45 55 10 2.555/2 CD-Coi 0 28 28 10784/4 CD-Coi 0 28 28 10784/4 CD-Coi 0 28 40 13 10784/5 CD-Coi 0 60 60 20 10785/5			es No es No No	C - Clay	2 10 2 2 2 20 40	SUT-Soft out to a dolom t c i mestones SUT-Soft out to a dolom t c i mestones SUT-Soft out to a dolom t c i mestones SUT-Soft out to a dolom t c i mestones SUT-Soft out to a dolom t c i mestones SUT-Soft out to a dolom t c i mestones SUT-Soft out to a dolom t c i mestones		Poo Mode	SC - S MC - I e ate MC - I	I - Non-calca eous (0.5% CaCO3) SI ghtly calca eous (1 - 5% CaCO3) I - Non-calca eous (0.5% CaCO3)	es	s No No Yes -26 No				3b
F 6620012400 566200 312400 28 s7 SE	55 85 30 10/88/4 CD-Coi			es No es No No	C - Clay	2 10 2 2 2 20 40	SUT-Soft to a doom t c mestones		Poo	SC - S MC - I e ate MC - I	I - Non-calca eous (0.5% CaCO3) SI ghthy calca eous (1 - 5% CaCO3) I - Non-calca eous (0.5% CaCO3) SI ghthy calca eous (1 - 5% CaCO3) Mode ately calca eous (5 - 5% CaCO3)	85	No No Yes -26 No No No No				3b

SITE F

int Alt (m) Slope a Aspect Land us	E		Gley	Texture	a/ a		41 0	e le: 1 IS	SUBS STR	CaCO3				and the state of t	
NGR X Y	Top Bttm Thick Munsell colour	Form Munsell colour Form	n Munsell colour		% >2cm >6cm Type		% > 2cm > 6cm Type	Strength Size Shape			+ 1			Gw Limitation 1 Limitation 2 Limitation 2	tion 3 Gra
TF 0620013000 506200 313000 38 ≤7 E	0 30 30 10YR4/3 30 40 10 10YR4/6 40 120 80		No	MCL - Clay loam (medium) HCL - Clay loam (heavy) HCL - Clay loam (heavy)	40 HR -	Ill hard rocks or stones (i.e. those which cannot be scratthed with a finger nail) Ill hard rocks or stones (i.e. those which cannot be scratthed with a finger nail) Ill hard rocks or stones (i.e. those which cannot be scratthed with a finger nail)		9		NON - Non-calcareous (-0.5% CaCO3) NON - Non-calcareous (-0.5% CaCO3) NON - Non-calcareous (-0.5% CaCO3)	No M	-26 -40 lo lo	D B WCI	1 Droughtiness	30
TF 06400 13000 506400 313000 35 ≤7 E	0 30 30 10YR4/3 30 120 90 10YR4/6		No	MCL - Clay loam (medium) MCL - Clay loam (medium)		All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		,	Moderate	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No N	12 -14 lo	a WCI	1 Droughtiness	3a
TF 06600 13000 506600 313000 33 s7 E	0 30 30 10YR4/3 30 120 90 10YR5/2	CP - Common Prominent 7.5YR5/6	Yes	HCL - Clay loam (heavy) C - Clay	2 HR - 1	All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		5	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes Y	13 -4 les	2 WC III	b Wetness	3b
TF 06400 12800 506400 312800 35 ≤7 E	0 38 38 10YR4/3 38 45 7 10YR4/4 45 120 75		No	MCL - Clay Ioam (medium) HCL - Clay Ioam (heavy) HCL - Clay Ioam (heavy)	25 HR -	All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		,		NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No 1	-13 -27 40 No	a WCI	1 Droughtiness	3a
TF 06600 12800 506600 312800 34 ≤7 E	0 25 25 2.5Y4/3 25 120 95 2.5Y6/1	CP - Common Prominent 10YRS/6	Yes	C - Clay C - Clay	5 2 HR 0 HR	All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		s	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No Y	7 -10 Yes	0 2 WCIII	b Wetness	3b
TF 06400 12600 506400 312600 35 s7 E	0 25 25 10YR4/3 25 40 15 10YR4/4 40 60 20 10YR4/6 60 120 60		No No	MCL - Clay loam (medium) MCL - Clay loam (medium) HCL - Clay loam (heavy) HCL - Clay loam (heavy)	15 HR -	All hard rocks or stones (i.e. those which cannot be scratched with a finger nall) all hard rocks or stones (i.e. those which cannot be scratched with a finger nall) the hard rocks or stones (i.e. those which cannot be scratched with a finger nall) all hard rocks or stones (i.e. those which cannot be scratched with a finger nall)			Moderate Moderate Moderate	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	2	-2 -14 No No	a WCI	1 Droughtiness	3a
D TF0660012600 506600 312600 34 ≤7 E	0 25 25 2.5Y4/3 25 120 95 2.5Y6/1	CP - Common Prominent 10YR5/6	Yes	C - Clay C - Clay		All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		s	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No Y	8 -9 les	2 WC III	b Wetness	3b
1 TF0680012600 506800 312600 34 ≤7 E	0 25 25 10YR4/3 25 120 95 2.5Y6/2	CP - Common Prominent 10YRS/6	Yes	MCL - Clay loam (medium) C - Clay		All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) all hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		5	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No Y	0 -7 'es	2 WC III	a Wetness	3a
6 TF0640012400 506400 312400 34 ≤7 E	0 24 24 10YR4/3 24 35 11 10YR4/4 35 40 5 10YR4/6 40 60 20		No No	C - Clay C - Clay C - Clay C - Clay	30 HR	All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		9	Moderate Moderate Moderate	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	2	-56 -46 lo lo No	4 WCI	1 Droughtiness	4
7 TF0660012400 506600 312400 36 ≤7 E	0 30 30 10YR4/3 30 120 90 2.5Y6/1	CP - Common Prominent 10YRS/6	Yes	MCL - Clay loam (medium) C - Clay		All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) all hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		s	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No Y	9 -8 Yes	2 WCIII	a Wetness	3a
3 TF 06800 12400 506800 312400 37 ≤7 €	0 25 25 10YR4/3 25 120 95 2.5Y6/1	CP - Common Prominent 10YRS/6	Yes	MCL - Clay loam (medium) C - Clay	8 3 HR 0 HR	NII hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		s	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes Y	8 -9 les	2 WCIII	a Wetness	3a
. TF 06400 12200 506400 312200 33 ≤7 €	0 25 25 10YR4/3 25 60 35 10YR5/3 60 80 20		No	C - Clay C - Clay C - Clay	15 HR -	All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		9	Moderate Moderate	SC - Slightly calcareous (1 - 5% CaCO3) MC - Moderately calcareous (5 - 10% CaCO3)	2	-29 -16 lo lo	b WCII	2 Droughtiness	3b
2 TF 0660012200 506600 312200 35 ≤7 E	0 30 30 10YR4/3 30 40 10 10YR4/6 40 60 20		No	MCL - Clay loam (medium) HCL - Clay loam (heavy) HCL - Clay loam (heavy)	30 HR -	All hard rocks or stones (i.e. those which cannot be scratthed with a finger nail) All hard rocks or stones (i.e. those which cannot be scratthed with a finger nail) All hard rocks or stones (i.e. those which cannot be scratthed with a finger nail)		9	Moderate Moderate	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	2	-51 -42 Io Vo	4 WCI	1 Droughtiness	4
2 TF 06400 12000 506400 312000 35 ≤7 E	0 30 30 10YR4/3 30 40 10 10YR5/4 40 60 20		No	C - Clay C - Clay C - Clay	50 HR -	All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		9	Moderate Moderate	SC - Slightly calcareous (1 - 5% CaCO3) MC - Moderately calcareous (5 - 10% CaCO3)	2	-60 -49 lo lo	4 WCI	2 Droughtiness	4
END											+		+		+

SITE G

	La ser a lessa									1			
Point NGR X Y Alt (m) Slope O Aspect Land u	Top Bttm Thick Munsell colour	Ochreous Mottles Form Munsell colour	Grey Mottles Form Munsell colour		Stones - type 1 Stones - t	Stones - type 2 Ped % > 2cm > 6cm Type Strength Size Shape	SUBS STR		Mn C SPL	Drought MBw MBp Gd	WC Gw	Final ALC Limitation 1 Limitation 2 Limitation	a 3 Grade
20 TF 06580 13600 506580 313600 35 ≤7 SE	0 30 30 10YR4/3 30 42 12 10YR4/4 42 60 18 2.5Y6/4 60 120 60 5Y6/2	CP - Common Prominent 10YR5/6 CP - Common Prominent 7.5YR5/6		HCL - Clay loam (heavy) NO HCL - Clay loam (heavy) Yes MZCL - Silty clay loam (medium) Yes C - Clay	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)		Moderate Moderate Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No No Yes	21 5 2	WCII 3a	Wetness	3a
36 TF 06600 13400 506600 313400 32 ≤7 SE	0 28 28 10YR4/3			MCL - Clay loam (medium)	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			NON - Non-calcareous (<0.5% CaCO3)		8 -11 3a	WC III 3a	Droughtiness Wetness	3a
	28 50 22 10YR6/3 50 120 70 2.5Y6/2	CP - Common Prominent 7.5YR5/6 CP - Common Prominent 7.5YR5/8		Yes HCL - Clay Ioam (heavy) Yes HCL - Clay Ioam (heavy)	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	; ;	Poor Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes Yes				
53 TF 06600 13200 506600 313200 33 s7 SE	0 28 28 10YR4/3 28 120 92 10YR6/1	MP - Many Prominent 7.5YR5/8		C-Clay Yes C-Clay	2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	5	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes	8 -9 2	WCIII 3b	Wetness	3b
71 TF 06800 13000 506800 313000 33 ≤7 SE	0 25 25 10VR4/3 25 120 95 2.5V6/2	CP - Common Prominent 10YRS/6		C- Clay Yes C- Clay	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	f	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes	6 -11 3a	WCIII 3b	Wetness	3b
85 TF 06840 12800 506840 312800 33 ≤7 SE	0 30 30 10YR4/3 30 120 90 2.5Y6/1	MP - Many Prominent 10YRS/8		C-Clay Yes C-Clay	3 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	5	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes	9 -8 2	WCIII 3b	Wetness	3b
86 TF 07000 12800 507000 312800 32 s7 SE	0 35 35 10YR4/3 35 55 20 10YR6/2 55 120 65 2.5Y6/1	CP - Common Prominent 10YR5/8 CP - Common Prominent 10YR5/8		MCL - Clay loam (medium) Yes MCL - Clay loam (medium) Yes HCL - Clay loam (heavy)	5 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 5 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 2 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No No	35 4 2	WCII 2	Droughtiness Wetness	2
87 TF 07200 12800 507200 312800 31 ≤7 5E	0 26 26 10YR4/3 26 120 94 5Y6/1	CP - Common Prominent 10YRS/6		HCL - Clay loam (heavy) Yes C - Clay	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	ı	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes	7 -10 2	WCIII 3b	Wetness	3b
88 TF 07400 12800 507400 312800 30 s7 SE	0 25 25 10YR4/3 25 50 25 10YR4/4 50 120 70 7.5YR4/6			MCL - Clay loam (medium) No HCL - Clay loam (heavy) No SCL - Sandy clay loam	10 4 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 10 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 25 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No No	14 -10 2	WCI 1	Droughtiness	2
89 TF 07600 12800 507600 312800 28 ≤7 SE	0 30 30 10YR4/2 30 120 90 2.5Y6/2	CP - Common Prominent 10YRS/6	CD - Common Distinct 2.5Y6/1	HCL - Clay loam (heavy) Yes C - Clay	10 6 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) 0 HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	ı	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes	8 -9 2	WC III 3b	Wetness	3b
102 TF 07000 12600 507000 312600 31 ≤7 SE	0 25 25 10YR4/3 25 55 30 10YR5/2 55 120 65 2.5Y5/2	MP - Many Prominent 7.5YR5/8 CP - Common Prominent 10YR5/6		MCL - Clay loam (medium) Yes HCL - Clay loam (heavy) Yes C - Clay	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	1	Moderate Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes No Yes Yes	17 0 2	WC III 3a	Wetness	3a
103 TF 07200 12600 507200 312600 30 s7 SE	0 28 28 10/FA/3 28 60 32 2.5Y5/2 60 120 60 2.5Y6/1	CP - Common Prominent 10YRS/6 MP - Many Prominent 7.5YRS/6		MCL - Clay loam (medium) Yes MCL - Clay loam (medium) Yes C - Clay	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	1 5		NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes No No Yes	18 1 2	WCII 2	Droughtiness Wetness	2
104 TF 07400 12600 507400 312600 27 ≤7 SE	0 30 30 10YR4/2 30 120 90 2.5Y5/2	CP - Common Prominent 10YR5/6		HCL - Clay loam (heavy) Yes C - Clay	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes	11 -6 2	WCIII 3b	Wetness	3b
105 TF 07600 12600 507600 312600 25 ≤7 SE	0 22 22 10VR4/2 22 120 98 2.5Y5/2	CP - Common Prominent 10YRS/6		HCL - Clay Ioam (heavy) Yes C - Clay	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	£	Poor	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	Yes	6 -11 3a	WC III 3b	Wetness	3b
119 TF 07000 12400 507000 312400 35 s7 SE	0 28 28 10YR4/3 28 120 92 2.5Y7/1	CP - Common Prominent 10YRS/6		MCL - Clay loam (medium) Yes HCL - Clay loam (heavy)	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	,	Moderate	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No No	39 7 2	WCII 2	Droughtiness Wetness	2
120 TF 07200 12400 507200 312400 32 ≤7 5E	0 28 28 10YR4/3 28 55 27 10YR5/2 55 120 65 5Y6/2	CP - Common Prominent 7.5YR5/6 MP - Many Prominent 7.5Y5/6		MCL - Clay loam (medium) Yes C - Clay Yes C - Clay	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)			NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No Yes	19 3 2	WC III 3a	Wetness	3a
133 TF 04000 12000 504000 312000 52 ±7 SE	0 30 30 10YR4/3 30 120 90 2.5Y6/1	CP - Common Prominent 10YRS/6		MCL - Clay loam (medium) Yes SCL - Sandy clay loam	HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail) HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)	,	Moderate	NON - Non-calcareous (<0.5% CaCO3) NON - Non-calcareous (<0.5% CaCO3)	No No	37 3 2	WCII 2	Droughtiness Wetness	2
END									+				+

SITE H

	I control by	Carrientes I				form bod		~ .		I I I Comba I Was I Conduct
Po nt NGR X Y Alt (m) Slope * Aspect Land use	Depth (om) Mat x Och eous Mottles	o m Munse I colou	Gley Te	xtu e	% >2cm >6cm	Stones - type 1 Type	Stones - type 2 % > 2cm > 6cm Type S	t ength 5 ze Shape SUBS S	R CaCO3	Mn C SPL D ought Wet F nal ALC MBw MBp Gd WC Gw L m tat on 1 L m tat on 2 m tat on 3 G ad
94 TF 05400 12600 505400 312600 33 ≤7 SE	0 30 30 10YR4/3 30 38 8 10YR4/4		No C	· Clay · Clay	15 8 15	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a I) HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a I)			SC - SI ghtly calca eous (1 - 5% CaCO3) te MC - Mode ately calca eous (5 - 10% CaCO3)	-39 -34 3b WCI 2 Dought ness 3b
	38 50 12 10YR6/4		L C	Clav	30	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a li)		Mode	te MC - Mode ately calca eous (5 - 10% CaCO3)	No No
	50 70 20		c-	Clay	50	HR - All ha di ocks oi stones (i.e. those which cannot be scratched with a finge in a li)		Mode	te	No
	1									
110 TF 05200 12400 505200 312400 34 ≤7 SE	0 25 25 10YR4/3		l c	Clay	30 16 8	HR - All ha di ocks o stones (i.e. those which cannot be scratched with a finge in a li)	+ +		SC - SI ghtly calca eous (1 - SN CaCO3)	-48 -38 3b WCI 2 D ought ness 3b
	25 35 10 10784/4 35 50 15 10786/4		No C-	- Clay SL - Med um sandy loam	15	HR - All ha d ocks o stones (a. those which cannot be sc atched with a finge in a l) HR - All ha d ocks o stones (a.e. those which cannot be sc atched with a finge in a l)	1	Mode	te MC - Mode ately calca eous (5 - 10% CaCO3)	No No
	35 50 15 10YR6/4 50 70 20		M	SL - Med um sandy loam SL - Med um sandy loam	50	HR - All ha di ocks o stones (i.e. those which cannot be scratched with a finge in a li) HR - All ha di ocks o stones (i.e. those which cannot be scratched with a finge in a li)	1	Mode Mode	te MC - Mode ately calca eous (5 - 10% CaCO3) te	[No
							1			
			\perp							
111 TF 05400 12400 505400 312400 34 s7 SE	0 30 30 10YR4/3 30 40 10 10YR4/4		No C	· Clay · Clay	20 8 20 50 50	HR - All ha di ocks o stones (i.e. those which cannot be sc atched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be sc atched with a finge in a l)	1 T	Mode	SC - SI ghtly calca eous (1 - 5% CaCO3) te MC - Mode ately calca eous (5 - 10% CaCO3)	-47 -34 3b WCI 2 Dought ness 3b
	40 45 5 20YRS/4		c.	- Clay - Clay - Clay	50	HR - All ha d locks o stones (i.e. those which cannot be sciatched with a finge in a li)		Mode	te MC - Mode ately calca eous (5 - 10% CaCO3)	No No
	45 65 20		c-	ciay	>0	HR - All ha di ocks o stones (i.e. those which cannot be sciatched with a finge in a l)	1	Mode	te	100
							1			
112 TF 05600 12400 505600 312400 34 ≤7 SE	0 28 28 10YR4/3		M	CL - Clay loam (med um)	15 4	HR - All ha di ocks o stones (i.e. those which cannot be scratched with a finge in a li)	+		SC - SI ghtly calca eous (1 - SN CaCO3)	-56 -49 4 WCI 1 D ought ness 4
	0 28 28 10YR4/3 28 35 7 10YR4/4 35 60 25		No M	CL - Clay loam (med um) CL - Clay loam (med um)	30 80	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a l)		Mode	te SC - SI ghtly calca eous (1 - 5% CaCO3) te SC - SI ghtly calca eous (1 - 5% CaCO3)	No No
			["		F	The second secon	1	1		
							1			
113 TF 05800 12400 505800 312400 31 57 SE	0 30 30 10984/3		 -	CL - Clay loam (med um)	15.9	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a I)	+ +		SC. S abtivizaira envir H - DX C>COSI	-57 -49 4 WCI 1 D ought ness 4
	30 33 3 10YR4/4		No M	CL - Clay loam (med um)	30	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a li)	1	Mode	SC - SI ghtly calca eous (1 - 5% CaCO3) te SC - SI ghtly calca eous (1 - 5% CaCO3)	No Sept. Mass
	33 60 27		M	CL - Clay loam (med um)	80	HR - All ha di ocks oi stones (i.e. those which cannot be sciatched with a finge in a li)	1	Mode	te SC - SI ghtly calca eous (1 - 5% CaCO3)	No
							1			
			\Box		<u></u> _					
125 TF 05050 12200 505050 312200 25 s7 SE	0 30 30 10YR3/2 30 35 5 10YR7/2		No SC	IL - Clay loam (heavy) IL - Sandy clay loam	20 12 8 50	HR - All hald locks o stones (i.e. those which cannot be sciabled with a finge in a li) HR - All hald locks o stones (i.e. those which cannot be sciabled with a finge in a li)		Mode	SC - SI ghtly calca eous (1 - 5% CaCO3) te SC - SI ghtly calca eous (1 - 5% CaCO3)	-51 -42 4 WCI 2 D ought ness 4
	35 60 25		SC	L - Sandy clay loam	50	HR - All hald locks o stones (i.e. those which cannot be scatched with a finge in a l)	1	Mode	te SC - SI ghtly calca eous (1 - SN CaCO3)	No.
	1						1			
							1			
126 TF 05200 12200 505200 312200 29 ≤7 SE	0 25 25 2.514/3		c.	- Clay - Clay	5	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a I)	+		SC - SI ghtly calca eous (1 - 5% CaCO3)	29 1 2 WCII 2 Doughtness Wetness 2
	25 120 95 2.5Y6/3 CP - Common P om nent		Yes C-	Clay	2	HR - All ha di ocks oi stones (i.e. those which cannot be scratched with a finge in a li)		Mode	te SC - SI ghtly calca eous (1 - SN CaCO3)	Yes No
	1						1			
	1						1			
127 TF 05400 12200 505400 312200 33 s7 SE	0 35 35 10094/4		H	One	25.16	MP. All had order a stream for those who decreamed the stream of the str	+ +		CC. Cl ability rates assert A. DV C-DDN	59 49 4 MF1 3 D
1F 00900 12200 30900 312200 35 S7 SE	0 25 25 10YR4/4 25 35 10 10YR6/4		No C-	Clay	25 16 50	HR - All hald locks oil stones (i.e. those which cannot be sclatched with a finge in a li). HR - All hald locks oil stones (i.e. those which cannot be sclatched with a finge in a li).	1		SC - SI ghtly calca eous (1 - SN CaCO3) te MC - Mode ately calca eous (5 - 10N CaCO3)	-58 -48 4 WCI 2 D ought ness 4
	35 60 25		c-	Clay	50	HR - All ha di ocks oi stones (i.e. those which cannot be scratched with a finge in a li)	1	Mode	te MC - Mode ately calca eous (5 - 10% CaCO3)	No No
							1			
	1									
128 TF 05600 12200 505600 312200 30 ≤7 SE	0 25 25 10YR4/3			CL - Clay loam (heavy)	25 16	HR - All ha di odis o stones (.e. those which cannot be scratched with a finge in a li)			SC - SI ghtly calca eous (1 - 5% CaCO3) te SC - SI ghtly calca eous (1 - 5% CaCO3)	-62 -54 4 WCI 1 Dought ness 4
	25 35 10 10YR4/4 35 60 25		No C	· Clay · Clay	30 80	HR - All hald locks o stones (i.e. those which cannot be sc atched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be sc atched with a finge in a l)	1	Mode Mode	te SC - SI ghtly calca eous (1 - 5% CaCO3) te SC - SI ghtly calca eous (1 - 5% CaCO3)	No I
	1			,						
							1			
129 TF 05800 12200 505800 312200 25 ≤7 SE	0 32 32 10YR4/3		100	CL - Clay loam (med um)	2	HR - All hald locks o stones (i.e. those which cannot be scatched with a finge in a li)	+ +		NON - Non-calca eous (0.5% CaCO3)	20 3 2 WCIII 3a Wetness 3a
	32 55 23 2.5Y5/3 CP - Common P om nent 10YR5/6		Yes HO	CL - Clay Ioam (heavy)	0	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a li)	1	Mode	te SC - SI ehtly calca eous (1 - 5% CaCO3)	Yes No
	55 120 65 SYS/3 CP - Common P om nent 10YRS/6		fes C-	Clay	U	HR - All ha di ocks o stones (i.e. those which cannot be sciatched with a finge in a li)	1	Poo	SC - SI ghtly calca eous (1 - 5% CaCO3)	res res
	1									
			\Box							
137 TF 05400 12000 505400 312000 28 ≤7 SE	0 28 28 10YR4/3 28 38 10 10YR4/4			· Clay · Clay	4	HR - All hald locks oil stones (i.e. those which cannot be sciatched with a finge in a I) HR - All hald locks oil stones (i.e. those which cannot be sciatched with a finge in a I)		March -	SC - SI ghtly calca eous (1 - 5% CaCO3) te SC - SI ghtly calca eous (1 - 5% CaCO3)	10 -7 2 WCIII 3a Wetness 3a
	38 65 27 2.5Y6/4 CP - Common P om nent 10YR5/6	D - Common D st nct 2.5Y6/1	Yes C	· Clay · Clay · Clay		HR - All ha d locks o stones (i.e. those which cannot be sciatched with a finge in a li)	1	Mode Poo	SC - SI ghtly calca eous (1 - 5% CaCO3)	No No No Nos
	65 120 55 5YS/1 CP - Common P om nent 10YRS/6		Yes C	Clay		HR-All ha dilocks oi stones (i.e. those which cannot be sciatched with a finge in a li)	1	Poo	NON - Non-calca eous (0.5% CaCO3)	Nes
138 TF 05600 12000 505600 312000 23 ≤7 SE	0 30 30 10YR4/4		c.		25 12	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a I)	+ +		SC - SI ghtly calca eous (1 - SN CaCO3)	-30 -23 3b WCi 2 D ought ness 3b
	30 55 25 7.5YR4/4 55 65 10 10YR6/6		No C-	CL - Clay loam (heavy)	20 30	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a l)	1	Mode Mode	te SC - SI ghtly calca eous (1 - 5% CaCO3)	No No
	55 65 20 20*Nb/6 65 85 20		HC HC	CL - Clay loam (heavy)	50	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a l) HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a l)		Mode		No No
	1									
139 TF 05800 12000 505800 312000 22 ≤7 SE	0 24 24 400042		\vdash	O Contract	40	In this case was a second and a second as	1			11
139 TF 05800 12000 505800 312000 22 ≤7 SE	0 34 34 10YR4/3 34 45 11 10YR4/5		No H	CL - Clay loam (heavy) CL - Clay loam (heavy)	10	HR - All ha d ocks o stones (.e. those which cannot be sc atched with a finge in a l) HR - All ha d ocks o stones (.e. those which cannot be sc atched with a finge in a l)		Mode	SC - SI ghtly calca eous (1 - 5% CaCO3) te SC - SI ghtly calca eous (1 - 5% CaCO3)	-35 -27 3b WCI 2 Dought ness 3b
	45 50 5 10YR7/4 50 70 20		No M	SL - Med um sandy loam SL - Med um sandy loam	50 80	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in all) HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in all)		Mode Mode	te MC - Mode ately calca eous (5 - 10% CaCO3)	No No
			"		Γ			woode		
			LΙ		L					<u> </u>
140 TF 06000 12000 506000 312000 26 ≤7 SE	0 25 25 10YR4/3 25 35 10 10YR4/4		Mo HC	CL - Clay loam (heavy) CL - Clay loam (heavy)	4	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge inall) HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge inall)			NON - Non-calca eous (0.5% CaCO3) te NON - Non-calca eous (0.5% CaCO3)	18 -9 2 WCI 2 D ought ness Wetness 2
	25 35 10 10YR4/4 35 120 85 10YR6/4			CL - Clay Ioam (heavy) CL - Sandy clay Ioam	20	HR - All ha di ocks o stones (i.e. those which cannot be scratched with a finge in a li) HR - All ha di ocks o stones (i.e. those which cannot be scratched with a finge in a li)			te MON - Non-calca eous (0.5% CaCO3) te MC - Mode ately calca eous (5 - 10% CaCO3)	No No
	1									
141 TF 06220 12000 506220 312000 33 ≤7 SE	0 35 35 10YR4/2		HC	IL - Clay loam (heavy)	2	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge inall)	+ +		NON - Non-calca eous (0.5% CaCO3)	40 8 2 WCII 3a Wetness 3a
	35 120 85 10YRS/3 CD - Common D st nct 10YRS/6		Yes HO	CL - Clay loam (heavy) CL - Clay loam (heavy)	0	HR - All ha di ocks o stones (i.e. those which cannot be sc atched with a finge in a li)	1	Mode		Yes No
							1			
	1									
147 TF 05450 11800 505450 311800 22 s7 SE	0 22 22 9/984/2		H	One		HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge inall)			MC Mode and a common and a comm	13 -4 2 WCIII 3a Wetness 3a
77 (F USHOU 11800 3USHOU 311800 22 S7 SE	0 22 22 10YR4/2 22 45 23 2.5Y6/2 CP - Common P om nent 10YR5/6		Yes C-	· Clay · Clay	ľ	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge inall)	1	Mode	MC - Mode ately calca eous (5 - 10% CaCO3) te MC - Mode ately calca eous (5 - 10% CaCO3)	No No → ∠ INC.II Si IWetness Si
	45 120 75 SY6/3 CP - Common P om nent 10YRS/6	D - Common D st nct SY6/1	Yes C	Clay		HR-All ha di ocks oi stones (i.e. those which cannot be sciatched with a finge in a li)	1	Poo	SC - SI ghtly calca eous (1 - 5% CaCO3)	No Nes
	1									
	1									
148 TF 05600 11800 505600 311800 21 ≤7 SE	0 25 25 10YR4/3		M	CL - Clay loam (med um)	2	HR - All ha di ocks o stones (i.e. those which cannot be scratched with a finge in a II)			SC - SI ghtly calca eous (1 - 5% CaCO3) te SC - SI ghtly calca eous (1 - 5% CaCO3)	22 5 2 WCII 2 Dought ness Wetness 2
	25 35 10 10/184/4 35 65 30 7.5/184/4		No H	CL - Clay loam (med um) CL - Clay loam (heavy)		HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge inall) HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge inall)	1	Mode Mode	te SC - SI ghtly calca eous (1 - 5% CaCO3)	Yes No
	65 120 55 10YRS/3 CD - Common D st nct 10YRS/6		Yes C	Clay		HR-All ha di ocks oi stones (i.e. those which cannot be sciatched with a finge in a li)	1	Poo	NON - Non-calca eous (05% CaCO3)	Yes Yes
	1									
149 TF 05800 11800 505800 311800 21 ≤7 SE	0 25 25 10YR4/3		c.	Clay	4	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a II)	+ +		SC - SI ghtly calca eous (1 - SN CaCO3)	5 -12 3a WCIII 3a D ought ness Wetness 3a
	25 120 95 5YS/3 CP - Common P om nent 10YRS/6		Yes C	Clay	2	HR - All ha di locks oi stones (i.e. those which cannot be sciatched with a finge in a li)		Poo	SC - SI ghtly calca eous (1 - SN CaCO3)	Yes Yes
							1			
							1			
150 TF 06000 11800 506000 311800 27 ≤7 SE			\sqcup				1			
150 IF 06000 11800 506000 311800 27 ≤7 SE	0 28 28 10YR4/3 28 50 22 10YR4/5		No M	CL - Clay loam (med um) CL - Clay loam (med um)	1	HR - All ha d ocks o stones (.e. those which cannot be sc atched with a finge in a l) HR - All ha d ocks o stones (.e. those which cannot be sc atched with a finge in a l)		Mode	NON - Non-calca eous (0.5% CaCO3) te NON - Non-calca eous (0.5% CaCO3)	36 5 2 WCI 1 Dought ness 2
	50 120 70 7.5YR4/5		No H	CL - Clay loam (heavy)	1	HR - All ha di ocks o stones (i.e. those which cannot be sc atched with a finge in a li)	1	Mode	te MC - Mode ately calca eous (5 - 10% CaCO3)	No No
							1			
	1									
156 TF 05600 11600 505600 311600 21 ≤7 SE	0 28 28 10YR4/2 28 48 20 10YR4/4		M	CL - Clay loam (med um)	20 8	HR - All ha di ocks oi stones (i.e. those which cannot be sciatched with a finge in a li)	1		NON - Non-calca eous (05% CaCO3)	-30 -35 30 WCI 1 Doughtness 30
	28 48 20 10YR4/4 48 120 72 10YR5/4			IL - Sandy clay loam NS - Loamy med um sand	15 50	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a li) HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a li)		Mode Mode	te NON - Non-calca eous (0.5% CaCO3) te NON - Non-calca eous (0.5% CaCO3)	No No
		[Ιľ				1	-		
	1									
157 TF 05800 11600 505800 311600 21 ≤7 SE	0 30 30 10YR4/3		3.0	CL - Clay loam (med um)	1	HR - All hald locks o stones (i.e. those which cannot be sciatched with a finge in a li)	+ +		NON - Non-calca eous (0.5% CaCO3)	43 6 2 WCI 1 D ought ness 2
	30 60 30 10784/4 60 80 20 2.5Y6/4		No M	CL - Clay loam (med um)	0	HR - All ha di ocks oi stones (i.e. those which cannot be sciatched with a finge inall)	1	Mode	te NON - Non-calca eous (0.5% CaCO3) te NON - Non-calca eous (0.5% CaCO3)	Yes No
	60 80 20 2.5Y6/4 80 120 40 5Y5/1			IL - Sandy clay loam SL - Med um sandy loam	0	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a li) HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a li)		Mode Mode		res no No
		[П	-			1	-		
			Ш							
158 TF 06000 11600 506000 311600 27 s7 SE	0 30 30 10YR4/2 30 40 10 10YR4/4		No M	CL - Clay loam (med um) CL - Clay loam (med um)	15 8 20	HR-All hald locks o stones (i.e. those which cannot be scratched with a finge in a l) HR-All hald locks o stones (i.e. those which cannot be scratched with a finge in a l)		genen	NON - Non-calca eous (0.5% CaCO3) te NON - Non-calca eous (0.5% CaCO3)	-27 -35 3b WCI 1 D ought ness 3b
	30 40 10 10YR4/4 40 120 80 10YR5/4			/S - Loamy med um sand	30	HR - All hald locks o stones (i.e. those which cannot be scatched with a finge inall)	1	Mode	te MC - Mode ately calca eous (5 - 10% CaCO3)	No No
							1			
	1						1			
163 TF 05800 11400 505800 311400 23 ≤7 SE	0 26 26 7.5YR4/2		M	CL - Clay loam (med um)	15 9	HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge inall)	+ +		NON - Non-calca eous (0.5% CaCO3)	6 -4 2 WCI 1 D ought ness 2
	26 70 44 7.5YR4/4 70 120 50 7.5YR5/4		No M	SL - Med um sandy loam //S - Loamy med um sand	0	HR-All hald locks o stones (i.e. those which cannot be scratched with a finge in a li) HR-All hald locks o stones (i.e. those which cannot be scratched with a finge in a li)	1	Mode	te NON - Non-calca eous (0.5% CaCO3) te NON - Non-calca eous (0.5% CaCO3)	No No
			[~ th	www.y mea unit saind	Γ		1	Mode		
							1			
164 TF 06000 11400 506000 311400 32 s7 SE	0 70 70 7000/2		\vdash	O Charleson C	20. 40	III III II I			NOW New rates and 1 and 2 and 2	1
104 17 06000 11400 506000 511400 32 ≤7 SE	0 30 30 7.5YR4/2 30 40 10 7.5YR4/4		No HO	CL - Clay loam (med um) CL - Clay loam (heavy)	30 18	HR - All ha d ocks o stones (.e. those which cannot be sc atched with a finge in a l) HR - All ha d ocks o stones (.e. those which cannot be sc atched with a finge in a l)			NON - Non-calca eous (0.5% CaCO3) te NON - Non-calca eous (0.5% CaCO3)	-44 -31 3b WCI 1 D ought ness 3b
	40 65 25 7.5YR5/4			CL - Clay loam (heavy)	30	HR - All ha di ocks o stones (i.e. those which cannot be sc atched with a finge in a li)	1		te MC - Mode ately calca eous (5 - 10% CaCO3)	No No
							1			
H	1		\vdash				1		1	
END										

SITE I

Point G d ef. Alt (m) Sinne Aspect Land use	Depth (cm) Mat x Och eous Mottles	G ey Mottles	Textu e	Stones - type 1	Stones - type 2 Ped SUBS STR CaCO3	No. Coo Dought Wet FnalALC
Po nt NGR X Y Alt (m) Slope o Aspect Land use 124 TF 04600 12200 504600 312200 29 ≤7 E	Top ttm Th ck Munsell colou Fo m Munsell colou 0 22 22 2.5Y4/3	o m Munse I colou	1	% >2cm >6cm ype 0 HR - All hald locks o stones (i.e. those which cannot be sclatched with a finge in a II)	% 2cm > 6cm Type St ength S ze Shape NON - Non-calca eous (0 5% CaCO3)	MRL 3PL MBw MBp Gd WC Gw L m tat on 1 L m tat on 2 L m tat on 3 G ade 21 3 2 WC II 3a Wetness 3a
	0 22 22 25%43 22 50 28 25%44 50 120 70 5%42 CP-Common P om nent 10/95/6	No Yes	C - Clay C - Clay C - Clay	0 HRAll ha d ockso stones (e. those which cannot be sc atched with a finge in all 0 HRAll ha d ockso stones (e. those which cannot be sc atched with a finge in all)	Mode ate: NON - Non-calca eous (0 SK CACOS) Mode ate: NON - Non-calca eous (0 SK CACOS)	No No Nes No
135 TF 04800 12000 504800 312000 24 ≤7 E	0 30 30 2.514/3 30 50 20 2.515/4 50 120 70 2.515/3 CD - Common D st nct 109R5/6	D - Common D st nct 2.5/6/1 Yes	C - Clay C - Clay C - Clay	2 HR-AII had dotte crosses (a choose which crosses be scathed on but region oil) (HR-AII had dotte crosses) at those which crosses that chord had frage onl) (HR-AII had dotte) at those which cannot be is atthed on that frage onl) (HR-AII had dotte) at those which cannot be is atthed on that frage onl)	MC-Ve y of gifty year area (EG-VE CCCI) Mode atte MC-Ve yei gifty calca exec (EG-VE CCCI) Mode atte MC-Ve yei gifty calca exec (EG-VE CCCI)	No. No. 25 3 2 WC II 3a Weetness 3a No. No.
136 TF 05200 12000 505200 312000 26 ≤7 E	0 25 25 20194/3 25 70 44 7.5194/4 70 120 50 7.5195/4	No No	C - Clay C - Clay C - Clay	B 2 HR - All hald odds o stones [is, those with channot be is atthick with a finge in a l) 5 HR - All hald odds o stones [is, those with channot be is atthick with a finge in a l) 50 HR - All hald odds o stones [is, those with channot be is atthick with a finge in a l)	Mode ats (2C-3) glety calca eous (1-95 CaCO3) Mode ats (2C-3) glety calca eous (1-95 CaCO3) Mode ats (2C-3) Glety calca eous (3-206 CaCO3)	No N
143 TF 04600 11800 504600 311800 24 ≤7 E	0 32 32 10/84/3 32 60 28 7.5/86/4 60 75 15 7.5/86/5 75 120 45 7.5/86/5	No No No	C - Clay C - Clay C - Clay C - Clay	10 HR. All half olds a classes (i.e. those with classes be at attack with all riggs in all) 2 HR. All half olds a classes (i.e. those with classes be a state with all riggs in all) 2 HR. All half olds as classes (i.e. those with classes be stated with all riggs in all) 30 HR. All half olds a classes (i.e. those with classes be stated with all riggs in all) 30 HR. All half olds of states (i.e. those with classes be stated with all riggs in all)	Mote at NOV - Non-calca exos (9 SN CACOS) Motes at NOV - Non-calca exos (9 SN CACOS) Motes at NOV - Non-calca exos (9 SN CACOS) Motes at Nov - Non-calca exos (9 SN CACOS) Motes at Nov - Non-calca exos (9 SN CACOS) Motes at Nov - None at Nov -	9 -2 2 MC1 3a Wetness Ib No.
144 TF 04800 11800 504800 311800 24 ≤7 E	0 38 35 3.594/2 28 120 92 995/2 CP-Common P om nent 10985/6	Yes	C - Clay C - Clay	2 HR-All hald cacks cateous (a, those which cannot be is: nithed with all age on i) 0 HR-All hald cacks outcomes (a, those which cannot be is: authed with all age on i)	SC-5 gifty cano east (1-56 CACID) Poo MC-Mede analycaics east (5-50% CACIS)	7 -10 2 WC11 3a Wetness 3a
145 TF 05000 11800 505000 311800 25 ±7 E	0 25 35 10984/2 25 45 20 10984/3 45 60 15 10985/4 60 120 60 10985/4	No No No	HCL - Clay loam (heavy)	39 - All the disclare above (i.e. those with character by a childred with all right as 1) is in the disclare above (i.e. those with character is a childred with a right as 1) is the with a disclared because (i.e. those with character is a childred with a right as 1) is the All the disclared because (i.e. those with character is a childred with a right as 1) is the All the disclared because it is those with character is a childred with a right as 1).	Mote at MCH-Next-disc exect (8 th C-CC0) Mote at MCH-Next-disc exect (9 th C-CC0) Mote at MCH-Next-disc exect (9 th C-CC0) Mote at MCH-Next-disc exect (9 th C-CC0) Mote at MC-Mote ately call a exect (5 - 20% C-CC0)	No. No. No. No.
146 TF 05180 11800 505180 311800 22 ≤7 E	0 28 28 10/944/3 28 45 17 10/944/5 45 120 75 20/95/5	No No	MCL - Clay loam (med um) HCL - Clay loam (heavy) SCL - Sandy clay loam	SS 8 HR. All had odds o stones (a shoos which cannot be scatched with all riggs as it) 30 HR. All had odds o stones (a shoos which cannot be scatched with all riggs as it) 30 HR. All had odds o stones (a shoos which cannot be scatched with all riggs as it) 40 HR. All had odds o stones (a shoos which cannot be scatched with all riggs as it)	NON - Non-citics exect (8 SN CuCCO) Note are St 5 gley citic exect (- 5N CuCCO) Note are St 4 gley citic exect (- 5N CuCCO) Note are St 4 gley citic exect (- 5N CuCCO)	No N
151 TF 04600 11600 504600 311600 36 ≤7 €	0 30 30 2.514/1 30 120 90 2.516/3 CP-Common P om nent 10/85/6	Yes	C - Clay C - Clay	5 HR-All hald docks of stones (in those with classed the scribbled with a Fage in a l) 0 HR-All hald cocks or stones (in those with classed the scribbled with a Fage in a l)	NON - Non-citics exes (8 SN CaCOS) Node ate XC - 5 gifty-calce exes (1 - 5% CaCOS)	No No 20 2 2 WC11 3b Westness 3b
152 TF 04800 11600 S04800 311600 32 ≤7 €	0 30 30 20164/3 30 45 15 20165/4 45 65 20 2.515/4	No No	C - Clay C - Clay C - Clay	20 6 HR - All Tau d ocks o stones (a those with clarence be at abled with a Fage na 1) 20 HR - All Tau d ocks o stones (a those with clarence be at abled with a Fage na 1) 20 HR - All Tau d ocks o stones (a those with clarence be at abled with a Fage na 1) 20 HR - All Tau d ocks o stones (a those with clarence be at abled or that Fage na 1)	MON - Non-calca exes (9 SN CaCOS) Mode ate Mr SigRey calca exes (1 - SN CaCOS) Mode ate	No.
153 TF 0500011600 509000 311600 25 s7 E	0 38 38 201954/2 38 62 24 20195/4 62 120 58 2.515/4	No No	C - Clay C - Clay C - Clay	5 HR - All hall disclar stones [is, those with current be at althod with a Finger not i) 15 HR - All hall disclar stones [is, those with channed be at althod with a Finger not i) 16 MR - All hall disclar stones [is, those with channed be at althod with a Finger not i)	VSC - Ve y sil glithy catca exos. (0.5 - INC CCC0) Model alle VSC - Ve y sil glithy catca exos. (0.5 - INC CCC0) Model alle VSC - Ve y sil glithy catca exos. (0.5 - INC CCC0)	Tes: No. 15 -4 2 VAC1 3a Wetness 3a No. No. No.
154 TF 05:200 11600 505:200 311600 22 ≤7 E	0 28 28 101984/2 28 120 92 10195/1 CP-Common P om nent 5194/6	Yes	C - Clay C - Clay	3 HR - All hald disclar stones (i.e. those with cannot be at attitud with a finge noti) 1 HR - All hald ockso stones (i.e. those with channot be at attitud with a finge noti)	NON - Non-calca coost (9 SN CaCOS) Poo NON - Non-calca coost (9 SN CaCOS)	No Yes -12 32 WC11 3b Wetness 3b
155 TF 0540011600 505400 311600 25 ≤7 E	0 40 40 20164/2 40 60 20 20164/4 60 120 60 20165/5	No No	MCL - Clay loam (med um) HCL - Clay loam (heavy) LMS - Loamy med um sand	12: 4 IRF. All Tad disks or stones (is, those with cannot be at attitude with a Finger no. i). B. IRF. All Tad disks or stones (is, those with channed be at attitude with a Finger no. i). 10: IRF. All Tad disks or stones (is, those with channed be at attitude with a Finger no. i).	MON - Non-calca count (9 SN CACCOS) Mode ate NON - Non-calca count (9 SN CACCOS) Mode ate NC - Mode ately calca count (9 SN CACCOS)	No N
159 TF 04800 11400 504800 311400 35 ≤7 E	0 25 25 10994/3 25 40 15 10994/4 40 50 10 10996/4 50 70 20	No No	C - Clay C - Clay HCL - Clay loam (heavy) HCL - Clay loam (heavy)	B HR-All hald odds o stones (at those with classed be at attended with all riggs rad) S HR-All hald odds o stones (at those with classed be at attended with all riggs rad) MR-All hald odds o stones (at those with classed be at attended with all riggs rad) MR-All hald odds of stones (at those with classed be attended with all riggs rad)	VISC Very still glithly calcal ecous (I.S TIX CACCIO) Modes atte McC - Mode antily calcal ecous (S 20% CACCIO) Modes atte McC - Mode antily calcal ecous (S 20% CACCIO) Modes atte McC - Mode antily calcal ecous (S 20% CACCIO)	No. No. No. No.
160 TF 05000 11400 505020 311400 24 ≤7 E	0 22 22 2.514/3 22 120 98 2.515/3 CP-Common P om nent 101/RS/6	D - Common D st nct 2.5%/1 Yes	C - Clay C - Clay	HRI-All hald locks a stores (is, those with cannot be is attitude with a finge inal) HRI-All hald ocks a stores (is, those with chicannot be is actitude with a finge inal)	SC-31 gleby calca enois (1-5% CaCCIS) Poo SC-38 gleby calca enois (1-5% CaCCIS)	S -12 3a (MCT) 1 3a D dugft ness Wetness 3a No. Ves
161 TF 05:200 11400 505:200 311400 21 ≤7 E	0 25 25 10/84/3 25 40 15 10/84/4 40 45 5 10/85/4 45 65 20	No	HCL - Clay loam (heavy) HCL - Clay loam (heavy) HCL - Clay loam (heavy) HCL - Clay loam (heavy)	B HR. All hald odds o stones (at those with cannot be at attitude with a linger no i). HR. All hald odds o stones (at those with channot be at attitude with a linger no i). HR. All hald odds o stones (at those with channot be at attitude with a linger no i). HR. All hald odds o stones (a those with channot be attitude with a linger no i). HR. All hald odds of stones (a those with channot be attitude with a linger no i).	VSC Ve y of girthy calca exos. (0.5 - TM.CACOS) Modes are VSC Ve y of girthy calca exos. (0.5 - TM.CACOS) Modes are MC - Mode arely calca exos. (0.5 - TM.CACOS) Modes are	No. No. No. No.
162 TF 05400 11400 505400 311400 20 ≤7 E	0 28 28 2.514/3 28 60 32 10185/1 MP-Many P om nent 5185/6 60 70 10 10185/6	Yes No	C - Clay C - Clay SCL - Sandy clay loam SCL - Sandy clay loam	HH. All hid dicks otdoors(is: those with channed beis; showd with a finger not [] HH. All hid dicks otdoors(is: those with channed beis; showd with a finger not [] HH. All hid dicks otdoors(is: those with channed beis; showd with a finger not [] HH. All hid dicks otdoors(is: those with channed beis; showd with a finger not [] HH. All hid dicks otdoors(is: those with channed beis stathed with a finger not []	oris Very sill glittly calca elect ((3.5 - 10.5.0CDI)) Model atts MON - Non-calca elect (3.9.5.CDI) Poo MC - Model attely calca elect (3.9.5.CDI) Model atte	-25 -9 3a NAC11 3b Webness
165 TF 0540011200 505400 311200 25 s7 E	0 25 25 10984/3 25 30 5 10984/4 30 35 5 29985/4	No No	C - Clay C - Clay C - Clay C - Clay	S 8 HR. All bit diction officers (a those which council be at stated or that right chall be diction officers (a those which council be at attacked with all right chall be diction officers (a those which council be at attacked with all right chall be discion officers (a those which council be attacked with all right chall be discion officers (a those which council be attacked with all right chall) or HR. All hind odds of those (a) those which council be attacked with all right chall (a).	SC. 53 glifly catics even (1 - 50. CpCCII) Motes atto SC. 53 glifly catics even (1 - 50. CpCCII) Motes atto MC - Mode attriy catics even (5 - 200. CpCCII) Motes attri Motes attri	No No No No No
166 TF 05620 11200 505620 3H1200 21 ≤7 E	0 25 25 10984/3 26 40 14 10984/4 40 50 10 10984/5 50 70 20	No No	C - Clay C - Clay C - Clay C - Clay	S 8 HR. All bit diction officers (a those which council be at stated or that right chall be diction officers (a those which council be at attacked with all right chall be diction officers (a those which council be at attacked with all right chall). 40 HR. All bit diction officers (a those which council be attacked with all right chall). 50 HR. All bit diction officers (a those which council be attacked with all right chall).	(C. 5) glidy circa exer (1 - 50. C/CCDI) Motes ato (C. 5) glidy circa exer (1 - 50. C/CCDI) Motes ato (C. 1) glidy circa exer (1 - 50. C/CCDI) Motes ato	40 - 26 - 30 WC (- 2 D ought ness - 30 NO NO NO NO NO
167 TF 0540011000 505400 311000 28 ≤7 E	0 25 25 1016440 25 35 10 1016444 35 45 10 1016544 45 65 20	No No		S 8 HR. All bit diction officers (a those which council be at stated or that right chall is the All bit diction officers (a those which council be at attacked with all right chall is the All bits diction officers (a those which council be at stated with all right chall is the All bits diction officers (a those which council be attacked with all right chall is the All bits diction officers. A those which council bits attacked with all right chall is the All bits diction officers (a those which council bits attacked with all right chall).	SC. 53 gHby catca even (1 - 50. CpCC01) Motes atto SC. 52 gHby catca even (1 - 50. CpCC01) Motes atto MC - Mote attriy catca even (5 - 200. CpCC03) Motes atto MC - Mote attriy catca even (5 - 200. CpCC03)	No No No No
168 TF 0560011000 505600 311000 22 ≤7 E	0 25 25 10/84/3 25 45 20 10/84/4 45 50 4 10/85/4 50 70 20	No No	HCL - Clay loam (heavy)	2 HM. All bit disclar channel, is obtained in channel for an inhalf up to 1) 1 HM. All bit disclar channel, is obtained in the channel for an inhalf up to 1) 1 HM. All bit disclar channel is obtained in channel for a standed with all raign and 1) 1 HM. All bit disclar channels in those with channel for a standed with all gray and 1) 1 HM. All bit disclar channels. A those with channels are standed with a figure and 1)	VIC Ve y of ploty police areas (IS 1% CACDI) Modes atts MOVI - Non-calce exect (5 1% CACDI) Modes atts MoVies atter Modes atts	No No No No
169 TF 05400 10800 505400 310800 33 ≤7 €	0 30 30 201984/3 30 60 30		C - Clay C - Clay	20 15 MR - All hald locks o stones (is, those with characteristic stathed with a finge rail i) 20 MR - All hald locks o stones (is, those with characteristic stathed with a finge rail)	Node ate	-70 42 \$ NC1 2 Doughtness 35
170 TF 05600 10800 505600 310800 27 s7 E	0 30 30 20164/3 30 38 8 20164/4 38 45 7 20165/4 45 65 20	No No	C - Clay C - Clay C - Clay C - Clay	5 HM-Jill bid distinct otherwis (a chlore with increment by a chindred in first graph (i) 5 HM-Jill bid distinct otherwis (a chlore with increment be as chindred in first graph (ii) 5 HM-Jill bid distinct otherwis (a chlore with chindred be a chindred with all riggs (iii) 10 HM-Jill bid distinct otherwis (a chlore with chindred be a chindred with a first graph (ii) 10 HM-Jill bid distinct otherwis (a chlore with chindred be a chindred with a first graph (ii) 10 HM-Jill bid distinct otherwise (a chlore with chindred be a chindred with a first graph (ii))	Sc Signity urban even (1 - 95 GACISI) Notes also 10 - Signity orban even (1 - 95 GACISI) Notes also Not - Notes alsoly carios even (5 - 290 GACISI) Notes attr.	No No No No
171 TF 05800 10800 509800 310800 24 ≤7 E	0 30 30 20/64/3 30 60 30		C - Clay C - Clay	20 12 MH. All his disclar ordered; is those which connect be at stathed with 1 rape on 1) to MH. All his disclar ordered; is those which connect be at atthed with a rape on 1).	Mode ale SC-59 gliby citica exes (1-5% CACCO)	54 -44 ⁵ 4 WC1 2 Daughtness 4
END						

SITE J

G d ef.	values Depth (cm) Mat x Och eous Mottles G ey Mottles	la. la	Stones - type 1	Stones-type 2 Ped was con-	Lac D ought Wet Final ALC
o nt G d ef. Alt (m) Slope * Aspect Lar 72 TF 05600 10600 505600 310600 29 s7 S	d use Depth (cm) Mus 4 Onk eous Netriles G ey Netriles (G ey Netri	unsell colou Gley Textu e C - Clay No C - Clay es C - Clay	6 - 20m - 60m Type RR- All hald odds or stones (a. those with charenot be sc atched with a Figgr na) RR- All hald odds or stones (a. those with charenot be sc atched with a Figgr na) RR- All hald odds or stones (a. those with charenot be sc atched with a Figgr na)	Stores - Type 2 Prof	No. C SVI. D rought West F rail ALC
73 TF 05800 10600 505800 310600 29 ≤7 S	0 25 25 7.5984/3 25 50 25	HCL - Clay loam (heavy) HCL - Clay loam (heavy)	5 18 MR-All hald code o stones (a those which cannot be at atched with a finge in a) MR-All hald code o stones (a those which cannot be at atched with a finge in a)	SCSI gittly calca exos: 1-95 CaCCI) Mode ate: SCSI gittly calca exos: 1-95 CaCCI)	45 -59 4 MC1 2 D ought ness 4
74 TF 06000 10600 506000 310600 25 s7 S	0 30 30 20/14/2 30 120 90 20/15/3 CD-Common D st nct 7 5/165/6	c - Clay es HCL - Clay loam (heavy)	HR-All hald odds a stones (i.e. those which cannot be sc actived with a Figer na.) HR-All hald odds o stones (i.e. those which cannot be sc actived with a Figer na.)	NON-Nen-calca eous (0.5% CaCO3) Mode ate NON-Nen-calca eous (0.5% CaCO3)	36 4 2 MC I 3a Wathess 3a Va
75 TF-06200-10600 506200 310600 21 ≤7 S	0 25 25 2000493 25 65 40 200023 F0-Few-District 10005/6 65 120 35 20005/6	MCL - Clay loam (heavy) es C - Clay No SCL - Sandy day loam	MR-AB bit of colors is threet (in those with cannot be at stated or that fings no) MR-AB bit of colors is threet (in those with cannot be a stated or that fings no) MR-AB bit of colors is threet (in those with cannot be at stated or that fings no) MR-AB bit of colors is threet (in those with cannot be at stated or that fings no)	195 Ve y il gifty calca sono 63 - 195.CaCOS Nobel alle 195 Ve y il gifty calca sono 63 - 195.CaCOS Nobel alle 195 Si gifty calca sono 63 - 195.CaCOS Nobel alle 195 Si gifty calca sono 1 - 595.CaCOS	32 5 2 MCI 2 Dought ness Wathess 2 No No
76 TF-0640010600 506400 310600 20 s7 S	D 25 55 12084/3 25 45 20 2084/5 45 120 75 12084/4	MCL - Clay loam (heavy) No SCL - Sandy day loam No UMS - Loamy med um sand	MR. All this id colors interest (i.e. those with connectible or activities that fings in a) MR. All this id colors in the count of counted the standard that All gray in a) 0 MR. All this dicolors interest (iii. those with channed be is activitied that if riggs in a) 1 MR. All this dicolors interest (iii. those with channed be is activitied with all riggs in a)	SC - 5 girly calso exes 1 - 15 GC/03 Mode at SC - 5 girly calso exes 1 - 15 GC/03 Mode at SC - 5 girly calso exes 1 - 15 GC/03 Mode at SC - 5 girly calso exes 1 - 15 GC/03	34 -34 lb MC1 2 Doughtness lb No No No
77 TF 05600 10400 505600 310400 33 s7 S	0 25 25 20m4/3 15 35 10 20m4/4 15 55 20 20m5/4 56 60 5 20m6/2 60 80 20 10m6/2	NCL - Clay loam (heavy) No MCL - Clay loam (heavy)	5 8 HR All 3 set does a stores(, at those with cleanont be accasited with a Figure na.) 10 HR. All 3 set does to stores(, a those with cleanont be accasited with a Figure na.) 5 HR All 3 set does o stores(, at those with cleanont be accasited with a Figure na.) 10 HR All 3 set does o stores(, at those with cleanont be accasited with a Figure na.) 10 HR All 3 nat does o stores(at those with cleanont be accasited with a Figure na.)	SCS gifty clase east 1-3% CCCOS) Noted are SCS gifty clase east 1-3% CCCOS) Noted are MCNoted arely-calca exos (5-20% CCCOS) Noted are MCNoted arely-calca exos (5-20% CCCOS) Noted are	-30 -22 3b MC1 2 D ought ness 3b No No No No No No
78 TF 05800 10400 505800 310400 32 s7 S	0 30 30 20/H4/3 30 120 90 20/H5/4	C - Clay No HCL - Clay loam (heavy)	PST-AST half olds in Stones (al. those with clarenchibe is all their with all riggs in a) 15ST-AST half olds in stones (al. those with clarenchibe is all chief with all riggs in a)	NON-Non-calca exec (0.5% CACOS) Mode ate MC-Mode atelycalca exec (5-26% CACOS)	15 -9 2 MCL1 3a Wathers la la No No
79 TF 06000 10400 506000 310400 31 <7 S	9: 30: 30: 30164/3 30: 120: 50: 20164/2 CD - Cammon D st nct: 120165/6	c - Clay es C - Clay	0 16 10 198-All hald include a stones (a. those with channed be is arbitred with all riggs no) 5 198-All hald include on stones (a. those with channed be is atched with all riggs no)	SC-5 gifty calcurement 1-9K-CACID) Place MC-Mode delay calcurement (5-10K-CACID)	-15 -20 Ib MC II Ib D ought ness Wetwees Ib No No
80 TF-96200 10400 506200 310400 23 s7 S	0 20 30 30/164/3 CD - Cammon D st nct 10/165/6 30 100 10/165/3 CD - Cammon D st nct 10/165/6	c - Clay es C - Clay es C - Clay	MR-AR half acks a stores (a .thouse with carrent be is actived with a finger no) MR-AR half acks a stores (a .thouse with charrent be is actived with a finger no) MR-AR half acks a stores (a .thouse with charrent be is actived with a finger no) MR-AR half acks a stores (a .thouse with charrent be is actived with a finger no)	SC5 girthy calca exos. 1 - 3% CaCO3 Peo SC51 girthy calca exos. 1 - 5% CaCO3 Peo SC51 girthy calca exos. 1 - 5% CaCO3	4 - 20 Ja MC II Ja D ought ness Watness la Yes Yes No Yes
81 TF 06400 10400 506400 310400 22 s7 S	0 30 30 2016493 30 65 35 20165/4 65 120 5 2.516/2 CP - Common P on nent 10165/6	C - Clay No C - Clay es C - Clay	MRAll hald code or stones (i.e. those with channed be at arthed with all riggs in a) MRAll hald code is stones (i.e. those with channed be at arthed with all riggs in a) MRAll hald code is stones (i.e. those with channed be at arthed with all riggs in a) in the channel code is stones (i.e. those with channed be at arthed with all riggs in a).	NON-Non-calca exact (0.9% CaCOS)	No. 16: 2: 2 MC I 3a Mathress Sa. Sa. No. No. No. No. No. No. No. No. No. No
85 TF 05800 10200 505800 310200 32 <7 S	D 25 25 2514(2) 25 40 15 254(4) 40 75 15 254(4) 75 120 46 234(2) CD-Common D st nct 1504(5)(6) 75 120 46 234(2) CD-Common D st nct 1504(5)(6)	C-Clay No C-Clay es McL-Clay loam (heavy) es C-Clay	0 6 MRAll ha d'ods o stores (a. fibere wit di carrent be is arched with all rige no) 0 MRAll ha d'ods o stores (a. fibere with discered be is arched with all rige no) 0 MRAll ha d'ods o stores (a. fibere with discered be is arched with all rige no) 0 MRAll ha d'ods o stores (a. fibere with discered be is arched with all rige no) 1 MRAll ha d'ods o stores (a. fibere with discered be is arched with all rige no)	ViCVe y of glity calcu exec. 83 - 1% CACOS Note let B: C-5 glity calcu exec. 3 - 1% CACOS Note at Bi.C. **Mode spic calcu exec. 3 - 1% CACOS Page MCVs. **Non-salar exec. (8.5% CACOS)	5 -35 la MC i 3a Disught ores Weetness la No
86 TF 06000 10200 506000 310200 33 <7 S	0 30 30 1001642 30 65 35 201655 65 120 55 10161/3 CD-Common D st nct 10165/6	No C-Clay No C-Clay es C-Clay	MR-AR hald cocks a stones (a. those with channed be is arbited with a finger on) MR-AR hald cocks a stones (a. those with channed be is arbited with a finger on) MR-AR hald cocks a stones (a. those with channed be is arbited with a finger on) MR-AR hald cocks a stones (a. those with channed be is arbited with a finger on)	SCSightly calca exos. 1 - St.CaCOS) Note at SCSightly clas exos. 1 - St.CaCOS) Proc. SCSightly clas exos. 1 - St.CaCOS)	So -5 2 MC i 2 Dought ness Watness 2 No No
87 TF-06200 10000 506300 310000 27 <7 S	D 28 38 30%43 CD-Cammon D st nct 20%5/6 CD-C	C-Clay es C-Clay es C-Clay	MR-AR hald notice is stores (i.e., those with channed be scarched with a finger on) MR-AR had incide in stores (i.e., those with channed be scarched with a finger on) MR-AR had incide in stores (i.e., those with channed be scarched with a finger on) MR-AR had incide in stores (i.e., those with channed be scarched with a finger on)	SC51 glithy calcu evos: 1 - 3% CaCG(3) Modes are MCMode ately calcu evos (5 - 25% CaCG(3) Peo SC51 glithy calcu evos: 1 - 3% CaCG(3)	9 -4 2 MC I 2 Dought ness Webness 2 No No Yes
88 TF 05400 102000 505400 310200 25 ≤7 S	0 30 30 300-909-93 30 320 50 20965/4	C - Clay No C - Clay	HSTAll bit is dickle a stones (a. these with cleaned be is arbited with all rige in a). HSTAll bit is dickle a stones (a. those with cleaned be is atched with all rige in a).	NON-Non-usina exect (0.5K CaCOS) Whode alse SC - Sightly citics exect 1 - SK CaCOS)	No No State 2 2 MC1 3a Westernia 3a
90 TF 05820 10000 505820 310000 38 ≤7 S	0 20 30 30%43 20 25 5 20%44 25 30 5 5 50%46 30 60 30	No C-Clay No C-Clay C-Clay C-Clay	5 6 MR-All hald cocks o storees (a. those with channed be ick articled with half riggs ms.) 0 MR-All hald cocks o storees (a. those with channed be ick articled with half riggs ms.) 0 MR-All hald cocks o storees (a. those with channed be ick articled with half riggs ms.) 0 MR-All hald cocks o storees (a. those with channed be ick articled with half riggs ms.)	(C. S giftly calcur even 1.3K-CACOS) Mode data (C. S) giftly calcur even 1.3K-CACOS) Mode data (M. Mode attriy calcur even 1.3K-CACOS) Mode data (M. Mode attriy calcur even (S-12K-CACOS)	-35 -22 to MC.1 2 to aught ness to No. No. No. No. No. No.
91 TF-96900 10000 506000 310000 33 s7 S	0 20 20 20194/3 20 70 50 501964/2 CD-Common District 20195/6 70 120 50	es HCL - Clay loam (heavy) HCL - Clay loam (heavy)	5 8 MR-All hald cods o stones (a. those with clasmed be icadiched with all riggs ma.) 5 MR-All hald cods o stones (a. those with clasmed be icadiched with all riggs ma.) 5 MR-All hald cods o stones (a. those with clasmed be icadiched with all riggs ma.)	SC -51 gliffly calcus exect 3 - 5% CaCOS) Mode ate MC - Mode astely calcus exect (5 - 10% CaCOS) Mode ate	24 - 22 3a MC i 2 D ought ness 3a No No
92 TF-06200 100000 50/6200 3100000 27 s7 S	0 25 35 20094/3 25 50 25	MCL - Clay loam (heavy) No MCL - Clay loam (heavy)	0 30 22 MR-All hald looks o stones (a. those with clarench be collabed with a finger on a) 0 MR-All hald looks o stones (a. those with charench be collabed with a finger on a)	SC -59 glithy calca exos. 1 - 5% CaCOS) Noted ate SC -51 glithy calca exos. 1 - 5% CaCOS)	-72 -65 4 MC1 2 Dought ness 4
93 TF 05400 100000 505400 3100000 25 s7 5	0 28 28 200943 28 220 92 209824	No C-Clay	MR-All hald looks o stones (a. those with discrend be scatched with a finger on) or MR-All hald looks o stones (a. those with discrend be scatched with a finger on)	SC -59 glithy calca exos. 1 - 5% CaCOS) Model ate SC -51 glithy calca exos. 1 - 5% CaCOS)	12 -4 2 MCI 2 Dought ness Wetness 2 No No
97 TF 06000 09800 506000 309800 37 ≤7 S	0 25 25 2010493 25 40 15 201045 40 200 80	MC1 - Clay loam (heavy) No MC1 - Clay loam (heavy) MC1 - Clay loam (heavy)	0.4 MR-ARTh at diods is stones (a. those with claimed be as allowed with a finger on) MR-ARTh at diods is stones (a. those with charred be as allowed with a finger on) MR-ARTh at diods is stones (a. those with charred be as allowed with a finger on) in the charred because of the did with a finger on).	NON - Non-calca exos (0.5% CaCOS) Note ate NON - Non-calca exos (0.5% CaCOS) Notes ate	30 -2 2 MCI 2 Dought ness Wetness 2 No No
38 TF 05200 09800 505200 309800 31 ≤7 S	0 25 35 100944 25 120 65	MCL - Clay loam (heavy) No MCL - Clay loam (heavy)	5 10 6 MR-ARTh at diods o stones (a. those with dicarrect be sc alched with a finger on) 5 MR-ARTh at diods o stones (a. those with dicarrect be sc alched with a finger on)	SC - 51 giftly calcur execut 1 - 914 CACCRS) Model afte SC - 51 giftly calcur execut 1 - 514 CACCRS	17 -30 2 MCL 2 D ought ness. Wetness 2
99 TF 05400 09800 505400 309800 28 ≤7 S	0 30 30 30064/3 30 320 60	C - Clay No C - Clay	5 11 6 MR-ARTh ad code o stones (a. those with discendible or dished with all riggs nor) 5 MR-ARTh ad code o stones (a. those with discendible or allohed with all riggs nor)	SC - 5) ghtly calcu exec 1 - 5% CACOS) Model alle SC - 5) ghtly calcu exec 1 - 5% CACOS)	3 -11 3a MCI 2 Dought ness 3a No
03 TF-05200.09600 505200 309600 30 s7 S	0 25 35 100944 25 120 95	MCL - Clay loam (heavy) No MCL - Clay loam (heavy)	0 18 12 MR-Alf hald looks o stones (a. those with clarench be as dished with a finge inia.) 0 MR-Alf hald looks o stones (a. those with charench be as dished with a finge inia.)	SC -59 giftly calca exox 1 - 5% CaCOS) Model ate SC -51 giftly calca exox 1 - 5% CaCOS)	-5 -26 la MC1 2 Dought ness la No No
O4 TF 09400 09600 506400 309600 29 ≤7 S	0 28 38 200493 28 50 22 200495 50 120 70	No C - Clay C - Clay C - Clay	MR-ARTh at diods is stones (a. those with claimed be at allowed with a finge init). MR-ARTh at diods is stones (a. those with claimed be at allowed with a finge init). MR-ARTh at diods is stones (a. those with claimed be at allowed with a finge init).	SC. 58 giftly calcur eross 1 - 9K CACOS) Model at the CS 58 giftly calcur eross 1 - 5K CACOS) Model at the CS 58 giftly calcur eross 1 - 5K CACOS)	6 -8 ⁹ 2 MCI 2 Dought ness. Wetness 2 No No
08 TF-06220:09400 506220 309400 32 ≤7 S	0 25 25 30M493 25 40 15 20M595 40 227 80	MCL - Clay loam (heavy) No MCL - Clay loam (heavy) MCL - Clay loam (heavy)	5 12 6 MR-ARTh at dicks a stones (a . those with clasmost be calculated with all riggs on) 5 MR-ARTh at dicks a stones (a . those with clasmost be calculated with all riggs on) 5 MR-ARTh at dicks a stones (a . those with clasmost be calculated with all riggs on) 5 MR-ARTh at dicks a stones (a . those with clasmost be calculated with all riggs on)	SC: 59 ghtly calcar easox 1 - 5% CACCRS) Model and BC - 59 ghtly calcar easox 1 - 5% CACCRS) Model and	13 -34 3e MCL 2 D coght ness Se No. No. No.
09 TF 064/0 094/00 5064/0 3094/00 31 ≤7 S	D 28 28 300493 28 40 12 200594 40 120 80 20151/3	C - Clay No C - Clay No C - Clay	MR-ARTh of colcs a stones (a. flower with clasmost be controlled with a finger on) MR-ARTh of colcs a stones (a. flower with clasmost be controlled with a finger on) MR-ARTh of colcs a stones (a. flower with clasmost be controlled with a finger on) MR-ARTh of colcs a stones (a. flower with clasmost be controlled with a finger on)	SC - Si ghtly calca easos 1 - 9% CACCIO) Mode ale IAC - Mode anti-year anno 5 - 25% CACCIO) Mode ale IAC - Mode anti-year anno 5 - 25% CACCIO) Mode ale IAC - Mode anti-year anno (5 - 25% CACCIO)	26 -1 *2 MCI 2 Dought ness Wathess 2 No No
11 TF 06400 05200 506400 309200 30 ≤7 S	0 28 38 30R493 28 50 22 30R594 30 320 70 30R593 CD - Common D st not 30R5/6 70 327 50	No C-Clay es C-Clay C-Clay	0 6 MR-ARTha di colcio is stones (a. flores with clicannot be sc alcohed with all riggs cn a) 0 MR-ARTha di colcio is stones (a. flores with clicannot be sc alcholed with all riggs cn a) MR-ARTha di colcio is stones (a. flores with clicannot be sc alchole with all riggs cn a) MR-ARTha di colcio is stones (a. flores with clicannot be sc alchole with all riggs cn a)	SC-50 girthy catas enous 1-95 CaCCDS) Nobel are IXC-Mode analycial enous 5-255 CaCCDS) Nobel are IXC-Mode analycial enous 5-255 CaCCDS Nobel are IXC-Mode enough existe enough 5-255 CaCCDS Nobel are IXC-Mode enough enough 5-255 CaCCDS	53 -4 *2 MC 1 3a Wateress 5a No.
13 TF 06450 090000 506450 309000 32 s7 S	0 28 28 201942 28 120 92 201944	MCL - Clay loam (med um) No SCL - Sandy clay loam	5 12 MR-All hald code o stones (a . those with cannot be ic atthed with all riger no) 5 MR-All hald code o stones (a . those with cannot be ic atthed with all riger no)	NON-Non-calca exect (6.5% CACOS) Mode atal NON-Non-calca exect (6.5% CACOS)	11 -17 lb 80C.1 1 D maght ness lb lb No. No. No.
END					++ ++ +-

SITE K

NGR X Y Alt (m) Slope ° Aspect Land	Top Butti Thick Imunsell colour	Form Munsell colou	r Form Munsell colour			% >2cm >6cm	Туре	nes - type 1	Stones - type 2 Ped % > 2cm > 6cm Type Strength Size	Shape SUBS ST		IVEI C SF	MBw MBp Go	d WC Gw	Final ALC Limitation 1 Limitation 2 L	Limita
TF 05280 10200 505280 310200 37 ≤7 E	0 28 28 10YR4/3				Clay			e. those which cannot be scratched with a finger nail)			VSC - Very slightly calcareous (0.5 - 1% CaCO3)	1 1	13 -3 2	WC II 3a	Wetness	
	28 35 7 10YR4/4 35 52 17 10YR5/4			No C-	Clay	10	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera Modera	te SC - Slightly calcareous (1 - 5% CaCO3)	No N	0			
	52 120 68 5Y5/3	CP - Common Prominent 0YR5/6	CD - Common Distinct 5Y6/1	Yes C-	Clay	0	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Poor	MC - Moderately calcareous (5 - 0% CaCO)	No Ye	es			
TF 05400 10200 505400 310200 6 ≤7 E	0 26 26 10YR4/3			C-		5	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)			NON - Non-calcareous (<0.5% CaCO)	+	-35 -19 b	WCII 3a	Droughtiness	_
	26 8 12 2.5Y5/3	CD - Common Distinct 0YR5/6 CD - Common Distinct 0YR5/6		Yes C-		5	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)			te MC - Moderately calcareous (5 - 0% CaCO) te MC - Moderately calcareous (5 - 0% CaCO)	No N	0			
	30 /U 32 2.5Y5/3	CO - COMMON DISTINCT UTKS/6		ies (C-	Cay	30	· All Haid rooks of stones (i.e	will callinot be scratched with a tinger nail)		iwiodera	moueratery catcareous (5 - U% CaCO)	No N	-			
TF 05600 10200 505600 310200 33 ≤7 E	0 28 28 10YR4/3			le.	Clay	0	HR - All hard rocks or stoner ()	e. those which cannot be scratched with a finger nail)		+	NON - Non-calcareous (<0.5% CaCO)	+	25 8 2	WCI 3a	Wetness	_
	0 28 28 10YR4/3 28 120 92 7.5YR4/6				Clay			e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera	NON - Non-calcareous (<0.5% CaCO) te NON - Non-calcareous (<0.5% CaCO)	No N	6 2 0	WC1 58	curess	
TF 05400 10000 505400 310000 8 ≤7 E	0 28 28 10YR4/3 28 8 0 10YR5/4	FD - Few Distinct 7.5YR5/6			Clay			e. those which cannot be scratched with a finger nail)		Modera	NON - Non-calcareous (<0.5% CaCO) te NON - Non-calcareous (<0.5% CaCO)	Yes N	14 -2 2 0	WC III 3b	Wetness	
		MP - Many Prominent 7.5YR5/6		Yes C-	Clay			e. those which cannot be scratched with a finger nail)		Poor	NON - Non-calcareous (<0.5% CaCO)	Yes Yes	es			
	50 120 70 5Y5/3	MP - Many Prominent 7.5YR5/6		Yes C-	Clay	ľ	HK - All hard rooks or stones (i.e	e. those which cannot be scratched with a finger nail)		Poor	NON - Non-calcareous (<0.5% CaCO)	Yes Ye	25			
TF 05000 09800 505000 09800 45 ≤7 E	0 26 26 10YR4/3				Clay			those which cannot be scratched with a finger nail)			VSC - Very slightly calcareous (0.5 - 1% CaCO3)		-17 -23 a	WCI 3a	Droughtiness Wetness	_
	26 40 14 10YR4/5 40 120 80				Clay			e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera Modera	te VSC - Very slightly calcareous (0.5 - 1% CaCO3) te	NO N	0			
TF 05200 09800 505200 09800 43 ≤7 E	0 20 20 2.5Y4/3		+		Clay	0	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)	 	+	VSC - Very slightly calcareous (0.5 - 1% CaCO3)	+	16 0 2	WC II 3a	Wetness	_
	20 45 25 2.5Y5/4	CP - Common Prominent 0YR5/6		No C-	Clay	0	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Modera	te VSC - Very slightly calcareous (0.5 - 1% CaCO3)	No N	0	1		
	45 120 75 2.5Y5/3	cr - common Prominent UYK5/6		Yes C-	uay	ľ	rin - All flard rocks of stones (i.e	e. those which cannot be scratched with a finger nail)		Poor	SC - Slightly calcareous (1 - 5% CaCO3)	INO YE	=>			
TF 05400 09800 505400 09800 43 ≤7 E	0 20 20 400010		-	1	Clau	10.4	UD All band and a	there which execut he seembled on the			CC Clichtly colors and A park a deat	+	11 5	wc	Droughting Wer	_
ir www.caeuu ouo4uu caeuu 43 S/ E	0 28 28 10YR4/3 28 45 17 10YR5/4			No C-	Clay	2	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera	SC - Slightly calcareous (1 - 5% CaCO3) MC - Moderately calcareous (5 - 0% CaCO)	No N	11 -5 2 0	WC II Z	Droughtiness Wetness	
		CP - Common Prominent 0YR5/6 CP - Common Prominent 0YR5/6		Yes C -	Clay			e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Poor Poor	MC - Moderately calcareous (5 - 0% CaCO) NON - Non-calcareous (<0.5% CaCO)	No Yes	es es			
											,					
				$\perp \perp$												
TF 04850 09600 504850 09600 47 ≤7 E	0 28 28 10YR4/3 28 60 32 10YR6/4	<u> </u>			CL - Clay loam (medium) CL - Clay loam (heavy)	8 4	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera	SC - Slightly calcareous (1 - 5% CaCO3) te MC - Moderately calcareous (5 - 0% CaCO)	No M	6 -5 2 0	WCI 1	Droughtiness	
	60 120 60				L - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Modera		N N	0			
TF 05000 09600 505000 09600 44 ≤7 E	0 25 25 10YR4/3							e. those which cannot be scratched with a finger nail)			SC - Slightly calcareous (1 - 5% CaCO3)		-48 -37 b	WCI 1	Stoniness Droughtiness	_
	25 40 15 7.5YR4/4 40 60 20				L - Clay Ioam (heavy) L - Clay Ioam (heavy)			e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera Modera	te SC - Slightly calcareous (1 - 5% CaCO3) te	No N	0			
TF 05200 09600 505200 09600 43 ≤7 E	0 6 6 10YR4/3				Clay	2	HR - All hard rocks or stones (i.e.	e. those which cannot be scratched with a finger nail)		-	VSC - Very slightly calcareous (0.5 - 1% CaCO3)	+	13 -3 2	WC III 3h	Wetness	_
		CP - Common Prominent 0YR5/6	CD - Common Distinct 2.5Y6/1		Clay			e. those which cannot be scratched with a finger nail)		Poor	VSC - Very slightly calcareous (0.5 - 1% CaCO3)		es			
TF 04800 09400 504800 09400 50 ≤7 E	0 0 0 2.5Y4/3		-		Clav	8 4	HP - All hard rocks co-to "	e. those which cannot be scratched with a finger nail)	 		NON - Non-calcareous (<0.5% CaCO)	++	-9 °	wc: -	Droughtiness Wet	_
TE CHOOL COMMUNICATION COMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION COMMUNIC	30 60 0 2.5Y4/4				Clay	8	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)			te MC - Moderately calcareous (5 - 0% CaCO)	No N	-э -8 а 0	WCI 38	Droughtiness Wetness	
	60 120 60 2.5Y5/4			No C-	Clay	60	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Modera	MC - Moderately calcareous (5 - 0% CaCO)	No N	0			
				$\perp \perp$								$\perp \perp$		1		
TF 05000 09400 505000 09400 48 ≤7 E	0 26 26 10YR4/3 26 50 24 7.5YR4.4				Clay	10	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera	VSC - Very slightly calcareous (0.5 - 1% CaCO3) te VSC - Very slightly calcareous (0.5 - 1% CaCO3)	No N	-14 -19 a	WCI 3a	Droughtiness Wetness	
	50 120 70				Clay			e. those which cannot be scratched with a finger nail)		Modera		N	0			
TF 05200 09400 505200 09400 43 ≤7 E	0 0 0 10YR4/3 30 50 20 7.5YR4/4				L - Clay Ioam (heavy) L - Clay Ioam (heavy)			e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		,	VSC - Very slightly calcareous (0.5 - 1% CaCO3)	No	1 -12 a	WCI 2	Droughtiness	
	30 50 20 7.5YR4/4 50 120 70 7.5YR4/4				L - Clay Ioam (heavy) L - Clay Ioam (heavy)	50	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera	te SC - Slightly calcareous (1 - 5% CaCO3) te MC - Moderately calcareous (5 - 0% CaCO)	No N	0			
TF 05200 09200 505200 09200 43 ≤7 E	0 0 0 10YR4/3				Clay			e. those which cannot be scratched with a finger nail)		_	SC - Slightly calcareous (1 - 5% CaCO3)	+	-57 -48 4	WCI 2	Droughtiness	_
	30 40 0 10YR4/4 40 60 20				Clay			e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera Modera	te SC - Slightly calcareous (1 - 5% CaCO3)	No N	0			
	40 00 20				uay	30	· All hard rocks of stones (i.e			iwiodera		"	-			
TF 05400 09000 505400 09000 40 ≤7 E	0 28 28 10YR4/3		-		L - Clav Joam (heavy)	12 6	HP - All hard rocks co-to "	e. those which cannot be scratched with a finger nail)	 		SC - Slightly calcareous (1 - 5% CaCO3)	++	-45 -35 b	wc: -	Droughtiness	_
	28 40 12 10YR6/4			No HCI	L - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Modera	te MC - Moderately calcareous (5 - 0% CaCO)	No N	~ -33 B	1	- Josephanicas	
	40 60 20			HCI	L - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Modera	ie	N N	0			
												$\perp \perp$	_	_		
TF 05400 08800 505400 08800 40 ≤7 E	0 28 28 10YR4/3 28 35 7 10YR6/4				L - Clay Ioam (heavy) L - Clay Ioam (heavy)			e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera	SC - Slightly calcareous (1 - 5% CaCO3) te SC - Slightly calcareous (1 - 5% CaCO3)	No N	-45 -35 b o	WCI 1	Droughtiness	
	35 60 25				L - Clay loam (heavy)			e. those which cannot be scratched with a finger nail)		Modera	ie .	N	0			
TF 05400 08600 505400 08600 37 ≤7 E	0 28 28 10YR4/3 28 40 12 10YR5/4				Clay			e. those which cannot be scratched with a finger nail)		14-4-	SC - Slightly calcareous (1 - 5% CaCO3) te MC - Moderately calcareous (5 - 0% CaCO)	No fo	-34 -21 b	WCI 2	Droughtiness	
	40 50 0 10YR6/4			No HCI	L - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Modera	te MC - Moderately calcareous (5 - 0% CaCO)	N N	0			
	50 70 20			HCI	L - Clay loam (heavy)	50	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Modera	ne l	N.	0			
TF 05400 08400 505400 08400 8 ≤7 E	0 26 26 10YR4/3				Clay			e. those which cannot be scratched with a finger nail)		_	NON - Non-calcareous (<0.5% CaCO)	+	-27 -13 b	WCI 3a	Droughtiness	
	26 45 19 7.5YR4/4 45 50 5 10YR6/4				Clay L - Clay loam (heavy)			e. those which cannot be scratched with a finger nail) e. those which cannot be scratched with a finger nail)		Modera Modera	te NON - Non-calcareous (<0.5% CaCO) te MC - Moderately calcareous (5 - 0% CaCO)	No N	0			
	50 70 20				L - Clay loam (heavy)			e. those which cannot be scratched with a finger nail)		Modera		N N	0			
TF 05600 08400 505600 08400 8 ≤7 E	0 25 25 10YR5/2			-	Clay	10 6	HR - All hard rocks or stoner ()	e. those which cannot be scratched with a finger nail)		-	SC - Slightly calcareous (1 - 5% CaCO3)	+	3 -14 -	WCII 2	Droughtiness	_
	25 55 0 10YR5/5			No C-	Clay	10	HR - All hard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Poor	SC - Slightly calcareous (1 - 5% CaCO3)	No N	0	"		
	55 120 65 5Y5/6	CP - Common Prominent 0YR5/6		Yes C-	udy	U	mr - All nard rocks or stones (i.e	e. those which cannot be scratched with a finger nail)		Poor	MC - Moderately calcareous (5 - 0% CaCO)	No Ye	n			
	1		1								I	1 [1		
				1 1								1 1				

Detailed: Area A

	T				1 - 1
Project Number	Project Name				Parcel
C925A	Mallard Pass				Area A
Date of Survey	Survey Type		Surveyor	(s)	Company
					Askew Land and
19/10/2022	Detailed ALC		AR		Soil
Weather		Relief		Land use	and vegetation
Mild, cloudy		Gently undulated		CER (Cer	eals)
		•			
Grid Reference			Postcode	Altitude	Area
TF027130				52	
			•	•	1
MAFF prov		MAFF detailed		Flooding	
Grade 3		None		Flood Zo	ne 1
		<u> </u>			
AAR	AT0	MDw	MDp	FCD	Climate grade
590	1394	111	104	118	1
Bedrock			Superfici	al deposits	
Blisworth Formati	on		None		
			,		
Soil association(s)	1:250,000		De	ailed soil in	formation
Elmton 1			No	ne	
			-		
Revision Number			Date Rev	ised	
2			03/11/20		
			//		

	Alt (m) Slope O Aspec	t Land use		epth (cm)	Matrix Ochreou	(10)	/ Texture		**	nes - type			Ped		SUBS STR	CaCO3 N	∕n ClsE		Drought		We			Final ALC	
GR X	Υ / (1	ii) Slope Noper	Laria asc	Тор	Bttm Th	ick Munsell colour Form Mur	colour Form Munsell colour	%	б > 2	2cm > 6cm Type % > 2cr	> 6cm	Type	Streng	gth Size	Shape `	30033111	cacos	/III C 31	MBv	v МВр	Gd V	/C G			Limitation 2 Limit	tation 3 G
F 02700 13200 502700	313200 51	≤7	CER	0	30 30	7.5YR4/4		C - Clay 1	5 8	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratched	d with a fi	SC - Sligh	ntly calc	a -46	-35	3b V	/C I 1	. D	roughtine	is	3
				30	50 20	7.5YR6/3		C - Clay 50	0	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	Moderate	SC - Sligh	lo No	0							
				50	70 20			C - Clay 80	0	HR - All hard rocks																
																	Ĭ									
				1																						
F 02000 12200 F02000	212200 40	-7	CED	-	20 20	7 FVD4/4		HCL - Cla 2	F 12	2 HR - All hard rocks		/: a +b-a				عمادندا	CC CI:~b	*****	- 54	45	4 14	/C 1				-
F 02900 13200 502900	J 313200 48	≤7	CER		30 30	· ·														-45	4 V	/C1 1	.	roughtine	iS	
					35 5	· ·		HCL - Cla 30		HR - All hard rocks																
						7.5YR6/3		MSL - Me 50		HR - All hard rocks																
				40	60 20			MSL - Me 80	0	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	Moderate	MC - Mod	dera No)							
02500 13100 502500	313100 54	≤7	CER	0	30 30	7.5YR4/4		MSL - Me 10	0 5	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	d with a fi	SC - Sligh	ntly calc	a -4	2	3a V	/C I 1	. D	roughtine	is	3
				30	45 15	7.5YR4/6		MSL - Me 1	5	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	Moderate	SC - SligN	lo No	0							
				45	70 25	7.5YR5/5		HZCL - Si 5		HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	Moderate	MC - M N	lo No)							
				70		7.5YR6/3		MSL - Me 50		HR - All hard rocks																
					105 20	· ·		MSL - Me 80		HR - All hard rocks								No	_							
				133	200 20			IVIQO		731110101000	5.01103 (,	1	. carmot be	20.0000		-	- 1.40								
					-			+ +													\vdash					
02600 13100 502600	212100 52	≤7	CER	C	30 30	7.5YR4/4	 	MCL - Cl 1	5 0	HR - All hard rocks	or stones f	/i a +h-	ا الله	h cannot he	coratoba	d with a fi	SC. 51:~L	tly cal-	2 22	_12	3h /*	/C I 4		roughtine	· ·	:
02000 13100 302000	0 313100 25	2/	CER			· ·														-12	SU V	rei 1	.	ougnane	i3	
						7.5YR4/6		HCL - Cla 10		HR - All hard rocks																ŀ
						7.5YR6/3		MSL - Me 50		HR - All hard rocks																
				60	80 20			MSL - Me 80	0	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	Moderate	MC - Mo	dera No	0							
02700 13100 502700	313100 52	≤7	CER	0	28 28	7.5YR4/4		MCL - Cl 1	5 11	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratched	d with a fi	SC - Sligh	ntly calc	a -27	-19	3b V	/C I 1	. D	roughtine	is	
				28	45 17	7.5YR4/6		MCL - Cla 20	0	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	Moderate	SC - Sligh	lo No	5							ĺ
				45	55 10	7.5YR6/3		MSL - Me 20	0	HR - All hard rocks																
					60 5			MSL - Me 50		HR - All hard rocks																
					80 20			MSL - Me 80		HR - All hard rocks								No								
				00	6U 2U			IVISE - IVIE OF	U	HR - All Hard rocks	or stories ((i.e. tric	l willci	i callilot be :	SCIatchel	iviouerate		INC)							
				_							1					6										
F 02800 13100 502800	313100 52	≤7	CER			7.5YR4/4		MCL - Cla 1												-17	3b V	/CT 1	. D	roughtine	S	
						7.5YR5/5		MCL - Cla 20		HR - All hard rocks																
						7.5YR6/2		MSL - Me 50		HR - All hard rocks																
				60	80 20			MSL - Me 80	0	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	Moderate	MC - Mo	dera No	0							
02900 13100 502900	313100 48	≤7	CER	0	28 28	7.5YR4/4		MCL - Cla 10	0 6		or stones ((i.e. tho	ose which	h cannot be	scratched	d with a fi	SC - Sligh	ntly calc	a -22	-11	3b V	/CI 1	. D	roughtine	is	
				28	55 27	7.5YR5/4		C - Clay 10	0	HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	Moderate	SC - Sligh	lo No	5							
						7.5YR6/3		MSL - Me 50		HR - All hard rocks	or stones (i.e. tho	ose which	h cannot be	scratchel	Moderate	MC - MIN	lo N	2							
					80 20			MSL - Me 80		HR - All hard rocks																
				00	00 20			IVISE - IVIGO		TIK - All Hard Tock	JI Stories ((i.e. tiic	USE WITHCH	i callilot be	3CI attile	Wioderate	IVIC - IVIO	ueraniv	,							
				1				+	-		-						-+		+							
				1															-							
02000 12100 502000	212100 40	7	CED	0	20 20	7 EVD4/4	+ + +	MCI CI 3	0 40) O UD All band	r ctoner	li c +h-	000	h cannot be	corotoba	d with - f	SC 51:-1-	tly 651	2 54	ΔE	4	IC I		rought:		
03000 13100 503000	313100 46	≤7	CER			7.5YR4/4		MCL - Cl 30												-45	4 V	/C1 1	. D	roughtine	15	
						7.5YR4/6		MCL - Cla 50		HR - All hard rocks																
				45	65 20			MCL - Class	υ	HR - All hard rocks	or stones ((i.e. tho	ose which	n cannot be	scratche	Moderate	SC - Sligh	itly dNo)							
								\perp																		
								\perp																		
02500 13000 502500	313000 54	≤7	CER			7.5YR4/5		MZCL - S 2		HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	d with a fi	NON - No	on-calc	ar -35	-24	3b V	/CI 1	. D	roughtine	s	
				28	65 37	7.5YR4/6		LMS - Lo 0		HR - All hard rocks	or stones ((i.e. tho	ose which	h cannot be	scratche	Moderate	NON - N	lo No	0							
				65	70 5	7.5YR4/6		LMS - Lo 90	0	HR - All hard rocks	r stones ((i.e. tho	ose which	n cannot be	scratche	Moderate	NON - No	on-caNo	0							
02700 13000 502700	313000 52	≤7	CER	0	30 30	7.5YR4/4		MCL - Cla 12	2 6	HR - All hard rocks	or stones ((i.e. the	ose which	h cannot be	scratched	d with a fi	NON - No	on-calc	ar -18	-6	3a V	/CI 1	. D	roughtine	is	
222,00						7.5YR4/6		HCL - Cla 5		HR - All hard rocks	or stones	(i.e. the	ose which	h cannot be	scratchel	Moderate	NON - IY	es N	2	1	H			5		
						7.5YR4/6		HCL - Cla 80		HR - All hard rocks	or stones	(i.e. thr	ose which	h cannot he	scratchel	Moderate	NON - N	on-caN	2							
				1~~	20			1	*	/ /	2.0.103	,					1	🍑								

- '	FF 02900 13000	502900 313000	48	≤7	CER	0	25	25	7.5YR4/4			MZCL - S	15 8	HR - All hard rocks or st							-38	3b WCI 1	Droughtiness	3b
						25	40	15	7.5YR4/6			HCL - CI	a 30	HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratche Mod	derate NON	I - No	No				
						40	60	20	7.5YR4/6			HCL - CI		HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratche Mod	derate NON	I - Non-ca	No				
									, ,															
+						+																		
+						+																		
_				_		+-															_			
1	F 02500 12900	502500 312900	54	≤7	CER	0	30					MZCL - S		HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratched wi	ith a fil NON	I - Non-ca	alcar 25	7	2 WCIII 3a	Wetness	36
						30			10YR5/2	CD - C 10YR5/6		HZCL - S		HR - All hard rocks or st										
						45	120	75	2.5Y7/1	CP - C 10YR5/6	Yes	ZC - Silt	y 0	HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratche Poo	r NON	I - No	Yes				
1	TF 02600 12900	502600 312900	51	≤7	CER	n	26	26	10YR4/3			MZCL - S	8	HR - All hard rocks or st	nes (i.e. those wh	ich cannot he	scratched wi	ith a fi SC - 9	Slightly c	alca -18	-5	3a WCII 2	Droughtiness	3;
Η.	1 02000 12500	302000 312300	31		CEIT	26			10YR6/2	CP - C 7.5YR5/6		MZCL - S		HR - All hard rocks or st								Su Well 2	Droughtmess	
						_			1011(0) 2	CF - C 7.51K5/0	163	MZCL - S												
						40	60	20				IVIZCL - S	0 8	HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratchelvioc	derate IVIC -	lviodera	INO	-			
						-																		
_																								
T	F 02700 12900	502700 312900	51	≤7	CER	0	28	28	7.5YR4/5			MCL - C	10	HR - All hard rocks or st							-21	3b WCI 1	Droughtiness	31
						28	45	17	7.5YR5/6			C - Clay	5	HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratche Mod	derate SC - S	SligNo	No				
						45	50	5	10YR7/2			MSL - M	e50	HR - All hard rocks or st										
								20				MSL - M		HR - All hard rocks or st										
						1																		
						+																		
						-																		
	FF 02000 42000	502000 242000	50	-	CED	_	25	25	7 540 4/5			N 4 C L	20 0	HR - All hard rocks or st	//	lab assessables		.h - C CC (Cli-l-Al-	-1 54	42	4 14/61 4	Baranda di sana	
	TF 02800 12900 !	502800 312900	50	≤7	CER	0			7.5YR4/5			MCL - C									-42	4 WCI I	Droughtiness	4
						25			7.5YR4/6			MCL - C		HR - All hard rocks or st										
						40	60	20				MCL - C	80	HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratche Mod	derate MC -	Modera	No				
1	F 02900 12900 !	502900 312900	46	≤7	CER	0	25	25	7.5YR4/5			MCL - C	50 20	HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratched wi	ith a fi SC - S	Slightly c	alca -79	-72	4 WCI 1	Droughtiness	4
						25			7.5YR4/6			MCL - C		HR - All hard rocks or st										
						123	73	20	7.511(4) 0			IVICE C		TIK AIT HAIT TOCKS OF SE	ines (i.e. those wit	icii camilot be .	scratterio (Viot	ucrate se .	3118110	140				
-						+																		
-						+	-	-													-			
_						-																		
						-																		
I	F 03000 12900 !	503000 312900	44	≤7	CER	0	25	25	7.5YR4/5			MCL - C	40 12	HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratched wi	ith a fi SC - S	Slightly c	alca -67	-60	4 WCI 1	Droughtiness	4
						25	35	10	7.5YR4/6			MCL - C	50	HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratche Mod	derate SC - S	SligNo	No				
						35	55	20				MCL - C	80	HR - All hard rocks or st										
												-												
-	TE 02100 12000	E02100 212000	11	-7	CED	0	20	20	7 EVD4/4			ווכו כי	10	UD All band na dia	nos/i o these	ich connet b	corotok a d	th a fi co	Cliab+l	22	11	ah WC I 1	Droughtings	
-11	TF 03100 12900	503100 312900	44	≤7	CER	U	30		7.5YR4/4			HCL - Cl		HR - All hard rocks or st							-11	3D WCI 1	Droughtiness	3
-							40		7.5YR4/6			C - Clay		HR - All hard rocks or st										
									10YR5/4			MSL - M		HR - All hard rocks or st										
						50	70	20				MSL - M	e50	HR - All hard rocks or st	nes (i.e. those wh	ich cannot be	scratche Mod	derate MC -	Modera	No				
+						1					l				I			l						

Detailed: Area D

Project Number	Project Name				Parcel
C925D	Mallard Pass Area D				Area D
Date of Survey	Survey Type		Surveyor(s)	Company
					Askew Land and
19/10/2022	Detailed ALC		AR		Soil
Weather		Relief		Land use	and vegetation
Mild, cloudy		Gently undulated		CER (Cere	eals)
Grid Reference			Postcode	Altitude	Area
TF036124			PE9 4QD	51	
MAFF prov		MAFF detailed		Flooding	
Grade 3		None		Flood Zo	ne 1
AAR	ATO	MDw	MDp	FCD	Climate grade
590	1396	112	104	117	1
Bedrock			Superficia	l deposits	
Upper Lincolnshire	/Rutland/Blisworth		None		
Soil association(s)	1:250,000		Deta	ailed soil in	formation
Elmton 1 and Elmt			Non	e	
,					
Revision Number			Date Revi	sed	
1			28/10/202	22	
<u> </u>			, -,		

NGR		HAITIM) Slope °	Asnect	Land use		epth (Matrix	Ochreous Mottles		rey Mott	(-	ilev IT4	exture	Stones -		Stones - type 2		Ped	SHI	BS STR (CaCO3	Mn CISPI		ought		et		Final ALC	
	X Y		Jolope	rispect	Laria asc	Тор	Bttm	Thick	k Munsell colou	r Form Munsell colour	Form	Munsell	colour	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	cxture	% > 2cm > 6		% > 2cm > 6cm Type		Size Sh	iape						WC (Limitation 1 Limi	tation 2 Limitati	ion 3 Grad
TF 03300 1280	00 503300 3128	00 37	≤7		CER				7.5YR4/4						ISZL - M	30 12		hard rocks or stones (i.e. tl							r-61	-53 4	WCI :	1	Droughtiness		4
						25	35	10	7.5YR4/6				N	lo M	1SZL - M	30	HR - All	hard rocks or stones (i.e. tl	hose which c	annot be scr	atche Mo	derate	MC - M	No No							
						35	55	20						M	1SZL - M	90	HR - AII	hard rocks or stones (i.e. tl	hose which c	annot be scr	atche Mo	derate	MC - M	odera No							
TF 03500 1280	00 503500 31280	00 34	≤7		CER	0			7.5YR4/4						1ZCL - S			hard rocks or stones (i.e. tl							r-20	-9 3b	WCI :	1	Droughtiness		3b
									7.5YR4/6				N		1ZCL - S			hard rocks or stones (i.e. tl													
								25	7.5YR6/4				N	lo M	1SZL - M	25		hard rocks or stones (i.e. tl					MC - M	No No							
						60	80	20						M	1SZL - M	30	HR - All	hard rocks or stones (i.e. tl	hose which c	annot be scr	atche Mo	derate		No							
						_								_																	
TF 03300 1270	00 503300 31270	00 37	≤7		CER	0			7.5YR4/4						IZCL - S			hard rocks or stones (i.e. t							0	11 3a	WCI :	1	Droughtiness		3a
						35	80	45	7.5YR4/6				N	IO H	ZCL - Si	10	HR - AII	hard rocks or stones (i.e. t	hose which c	annot be scr	atche Mo	derates	SC - Slig	No No							
		-																													
TE 03/00 1270	00 503400 3127	n 27	≤7		CER	n	25	25	7.5YR4/4		+			N 4	1SZL - M	80 10	HD VII	hard rocks or stones (i.e. tl	hose which o	annot ho com	atched	ith a file	SC - SII-	thtly calca-	-52	-49 4	WC I	1	Droughtiness		1
11 03400 12/0	70 JUJ400 J1Z/	50 57	21		CLIN				7.51R4/4 7.5YR7/2				,	_	1SZL - 14 :			hard rocks or stones (i.e. ti							-50	+9 4	WC1 .	•	Diougnilliess		
								25	7.311//2						1SZL - M			hard rocks or stones (i.e. ti													
						33	30	23						liv.	JEL - IV	~	TIIN - All	וומוט וטנאט טו אנטוופא (ו.פ. נו	WITH C	טר ארוויטנ אל אנווי	accing IVIO	,ucratel	*IC - IVI	JaciaiNU							
		-																				-+									
																						-+									
TE 03500 1270	00 503500 31270	00 34	≤7		CER	0	30	30	7.5YR4/4					M	1ZCL - S	15 8	HR - All	hard rocks or stones (i.e. tl	hose which c	annot he scr	atched w	ith a fi	SC - Slie	htly calca	r -8	5 3a	WCI :	1	Droughtiness		3a
11 03300 1270	505500 5127	50 54			CLIN	30			7.5YR4/6				N		1ZCL - S	;		hard rocks or stones (i.e. t								3 30		-	Droughtmess		30
									7.5YR7/2					_	1ZCL - S	50		hard rocks or stones (i.e. t													
						03	0.5	20	7.5110/2						IZCL J		TIII AII	nara rocks or stories (r.c. ti	liose willere	dilliot be ser	ateriq ivio	Jucialdi	VIC IVI	110							
TF 03600 1270	00 503600 31270	00 39	≤7		CER	0	28	28	10YR4/3					С	- Clay	2	HR - AII	hard rocks or stones (i.e. tl	hose which c	annot be scr	atched w	ith a fi	SC - Slig	htly calca	25	9 2	WCI :	1	Droughtiness		3a
						28	60	32	7.5YR4/4				N		- Clay	2		hard rocks or stones (i.e. tl											Ŭ		
							120		10YR5/3	CD - C 10YR5/6			Y	es C	- 1			hard rocks or stones (i.e. tl													
TF 03700 1270	00 503700 31270	00 39	≤7		CER	0	28	28	10YR4/3					M	1CL - Cla	12 11 1	HR - All	hard rocks or stones (i.e. tl	hose which c	annot be scr	atched w	/ith a fi I	MC - M	oderately	(24	9 2	WC II	2	Stoniness		3a
						28	55	27	10YR4/5				N	lo M	1CL - Cl	2	HR - All	hard rocks or stones (i.e. tl	hose which c	annot be scr	atche Mo	derate	MC - M	No No							
						55	75	20	10YR5/1	CP - C 7.5YR5/6					1ZCL - S			hard rocks or stones (i.e. tl													
						75	120	45	2.5Y5/1	CP - C 10YR5/6			Υ	es C	- Clay)	HR - All	hard rocks or stones (i.e. tl	hose which c	annot be scr	atche Po	or I	MC - M	No Yes							
TF 03300 1260	00 503300 3126	00 35	≤7		CER	0			10YR4/3						CL - Cla			hard rocks or stones (i.e. tl							-53	-44 4	WCI :	1	Droughtiness		4
									10YR4/5						CL - Cla			hard rocks or stones (i.e. tl													[
							35		10YR4/6				N		CL - Cla			hard rocks or stones (i.e. tl					MC - M	odera No							
						35	55	20						Н	CL - Cla	30	HR - AII	hard rocks or stones (i.e. t	hose which c	annot be scr	atche Mo	derate		No							
														_																	
														_													\vdash				
TF 03500 1260	00 503500 3126	00 34	≤7		CER				7.5YR4/3						ZCL - Si			hard rocks or stones (i.e. the								2 2	WC1	1	Stoniness		3a
						30	120	90	7.5YR4/5				N	lo H	ZCL - Si	15	HR - All	hard rocks or stones (i.e. t	hose which c	annot be scr	atche Mo	derate	SC - Slig	No No							
		_																													
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						_					1			_						<u> </u>				بلب							
TF 03700 1260	00 503700 3126	00 39	≤7		CER	0			10YR4/4						IZCL - S			hard rocks or stones (i.e. t							(-55	-44 4	WC1	1	Droughtiness		3b
									10YR4/6				N		IZCL - S			hard rocks or stones (i.e. t													
						40	60	20						M	1ZCL - S	oU .	HR - All	hard rocks or stones (i.e. t	nose which c	annot be scr	atche Mo	derate	MC - Mo	oderaiNo							
						I							- 1																		
																												- 1			

L1 TF(03300 12500 5	03300 312500 3	35	≤7	CER	0	30	30	10YR4/3			C - Clay	5	HR -	All har	d rocks	s or sto	ones (i.	.e. tho	se whic	ch can	not be s	cratch	ed with	a fi N	ON - N	on-cal	car 15	1	2	WC I	3a	Wetness		3a
						30			7.5YR4/5		No	C - Clay								se whic															
						_			10YR5/5		No	C - Clay								se whic						ON -									
						130	120	70	1011(3)3		140	Ciay	-	TIIX	1111111	u rocks	3 01 310	JIIC3 (I.) SC WITH	ar carri	lot be s	cratter	91 001	- 1'		103	10							
						-		-							-														-						
						-									_										-				-						
						-	_	-							_	-	-	-		_	-	-			_			-	-						
TF (03500 12500 5	503500 312500 3	34	≤7	CER	0			7.5YR4/4			C - Clay	10							se whic									-13	L 3a	WC I	3a	Droughtines Wetne	ess	3a
						30	120	90	7.5YR5/6		No	C - Clay	10	HR -	All har	d rocks	s or sto	ones (i.	.e. tho	se whic	ch can	not be s	cratch	e Poor	N	ON -	No I	No							
TF (03600 12500 5	503600 312500 3	39	≤7	CER	0	35	35	10YR4/3			C - Clay	2	HR -	All har	d rocks	s or sto	nes (i	e tho	se whic	h canı	not be s	cratch	ed with	a fi SC	^ - Slig	htly ca	lca 20	6	2	WC II	2	Droughtines Wetne	255	2
, III,	03000 12300 3	312300	,,	_,	CEIT	35	45				No	C - Clay								se which												-	broughtines wether	.55	
						45	55			CD - C 10YR5/6	Yes	C - Clay								se which															
									5Y5/1	CP - C 10YR5/6																			-						
						55	120	65	515/1	CP - C 101R5/6	Yes	C - Clay	U	HK-	All nar	u rocks	S OF SEC	ones (i.	.e. tho	se whic	n cani	iot be s	cratcr	ePoor	30	C - Slig	NO	es	-						
																													-						_
						_									_														_						
																															1				
4 TF (03700 12500 5	503700 312500 3	39	≤7	CER	0	25		7.5YR4/4				a 15 8																-39	3b	WC I	1	Droughtiness		3b
						25						HCL - C								se whic								No							
						35	40	5	7.5YR7/2		No	MCL - C	la 50	HR -	All har	d rocks	s or sto	ones (i.	.e. tho	se whic	ch can	not be s	cratch	eMode	rate M	IC - M	No I	No							
						40	60	20				MCL - C	Ia80	HR -	All har	d rocks	s or sto	ones (i.	.e. tho	se whic	ch can	not be s	cratch	e Mode	rate		ı	No							
5 TF (03500 12400 5	03500 312400 5	56	≤7	CER	0	30	30	7.5YR4/4			HCL - C	a 30 12	8 HR -	All har	d rocks	s or sto	ones (i.	e. tho	se whic	ch can	not be s	cratch	ed with	a fi M	IC - Mo	derate	lv (11	-8	2	WC II	2	Stoniness		3a
-						30					No	HCL - C								se whic									+			_			
									5Y5/1		No	C - Clay								se which															
						100	120	- 00	313/1		140	Cidy		TIIX	1111111	u rocks	3 01 300	JIIC3 (I.) SC WITH	ar carn	lot be s	cratter	Tiviouc	Tates	3 3118	10	10							
						-		-																					-						
						-		-							-			-							-				-						
																				1				1	_					_	-				
6 TF (03300 12300 5	503300 312300 5	50	≤7	CER	0	30						a 10 6							se whic									2	2	WC II	2	Droughtines Wetne	ess	2
						30	60	30	10YR4/6			HCL - C								se whic															
						60	120	60	2.5Y5/2	CP - C 10YR5/6	Yes	C - Clay	2	HR -	All har	d rocks	s or sto	ones (i.	.e. tho	se whic	ch can	not be s	cratch	e Poor	SC	C - Slig	es ۱	'es							
7 TF (03400 12300 5	503400 312300 5	50	≤7	CER	0	30	30	10YR4/4			MCL - C	l 30 12	6 HR -	All har	d rocks	s or sto	ones (i	e. tho	se whir	ch can	not be s	cratch	ed with	a fi M	IC - Mo	derate	lv (-62	2 -5	3 4	WCI	1	Droughtiness		4
<u>`</u>		322000	-			30		5	10YR4/6			MCL - C								se which									-	Ť	1	_	1 2 2 3 1 2 1 2 2 2		- 1'
								20	20111-70			MCL - C								se which									_						
						33	33	20				INICE - C	1000	nk-	311 (1a)	u TUCKS	.5 UI SEC	νιι ⊂ 2 (Ι.	.c. ti10	/JE WIIIC	ai caill	וטנ מפ 3	cialul	TVIOUE	aceiv	- IVIC	uciali	10	-						
						-		-							_			-		-							\dashv		-						
								-																			-+		-						
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						_	-													1											1				
B TF (03300 12200 5	503300 312200 5	53	≤7	CER	0			10YR4/3				la 30 12																1 -55	4	WC I	1	Droughtiness		4
									10YR4/5			MCL - C								se whic															
						35	55	20				MCL - C	180	HR -	All har	d rocks	s or sto	ones (i.	.e. tho	se whic	ch canı	not be s	cratch	e Mode	rate M	IC - Mo	dera	No							
_																																			

Detailed: Area H SP1

Project Number	Project Name				Parcel
C925H	Mallard Pass Detailed ALC				SP1
Date of Survey	Survey Type		Surveyor(s	s)	Company
					Askew Land and
13/10/2022	Detailed ALC		RDM		Soil
Weather		Relief		Land use	and vegetation
Mild, cloudy		Gently undulated		CER (Cer	
		<u> </u>			
Grid Reference			Postcode	Altitude	Area
TF056120			PE9 4QD	27	
MAFF prov		MAFF detailed		Flooding	
Grade 3		None		Flood Zo	ne 1
	<u> </u>		1	T	
AAR	ATO	MDw	MDp	FCD	Climate grade
579	1424	116	110	112	1
Bedrock			Superficial	deposits	
Rutland Formation	1		Head		
Soil association(s)	1:250,000				formation
Elmton 3			Non	e	
Revision Number			Date Revis	ad	
2			03/11/202		

	ref.	A 14 ()	- · · · · · · · · · · · · · · · · · · ·	A I		De	epth (cm) Matrix	Ochreous I	Mottles Gre	ey Mottles	~ı - .		Stones -	type 1		Stones - ty	ype 2		Ped	CLIDG		ر ما الم		Drough	t	Wet		Final ALC	
NGR 2	х ү	Alt (m)	Slope °	Aspect L	and use			nick Munsell colo	ur Form Munse		/ /unsell colour	Gley Te	exture	% > 2cm >		% >	2cm > 6ci		Strengtl	n Size S	nape SUBS	STR CaC	O3 Mn (VC Gw	Limitation 1 Lin	nitation 2 Limitati	on 3
TF 05500 11900	505500 311900	27	<7	C	CER (0	30 3	7.5YR4/3				No C	- Clay 1							cannot be sc		ppli VC	· Ve No					Droughtines We		3
					:	30	35 5	5YR5/4				No C	- Clay 1	LO .						annot be sc				No						
					:	35	120 8	5				С	- Clay								Poor			Yes						
TF 05600 11900	505600 311900	27	<7	-	CER (0	40 4	7.5YR4/4				No C	- Clay 2))	HR -	All hard re	ncks or ston	nes (ie th	nose which a	cannot be sc	atche Not A	nnli NO	N - No	No. 12	-2	2 W	VCII 3a	Wetness		3
1 03000 11300	303000 311300	, _,	17				55 1		CF - C 10YR5	/6			- Clay 2							cannot be sci					-	- "	ve ii sa	Wethess		
							120 6		Ci Ci Ioino	, ,			- Clay 1							cannot be sci		rate ivo	110	Voc						
						33	120 0	,					Clay		1111	All Hara IV	OCKS OF STOTE	103 (1.0. 11	l willen	diffict be se	atting our			103						
												-				_									+					
			_			_																			_					
TF 05700 11900	505/00 311900) 2/	<7	C	CER (35 3	-					CL - Cla			All hard r	ocks or ston	ies (i.e. tr	nose which (cannot be sc					8	2 V	VCT 2	Droughtines We	etness	
							55 2	-					ľ	loam (heavy)									SligNo							
							70 1						- Clay									•	- Ve No	No						
						70	120 5	0				C	- Clay								Mode	rate		No						
TF 05800 11900	505800 311900	27	<7	C	CER (0	30 3	0 10YR4/4				No C	- Clay	5 5 2	HR -	All hard re	ocks or ston	nes (i.e. th	nose which	cannot be sc	atche Not A	ppli VC	· Ve No	No 5	-8	2 V	VCI 2	Droughtines We	etness	
						30	40 1	0 10YR4/3				No C	- Clay 1	10						cannot be sc										
					4		120 8						- Clay 2							cannot be sc				No						
																		i												
F 05900 11900	505900 311900	27	<7	-	CER (0	35 3	5 10YR3/3				No H	CL - Cla 5	5 4 2	HR -	All hard re	ncks or ston	nes (ie th	nose which a	cannot be sc	atche Not A	nnli VC	. Ve No	No. 24	6	2 W	VCI 2	Droughtines We	etness	
1 03900 11900 .	303300 311300	, 21	\/				40 5							loam (heavy)		All liaiu i	OCKS OF STOTE	163 (1.6. 11	lose willcire	alliot be sc			· Ve No		U	2 0	VC1 Z	Diougntines we	cuiess	
													- í	ioaiii (ileavy)		_							· Veino	NO No	+					
						40	120 8	J				- 1	- Clay			_					Mode	rate		NO	-	-				
																_									-					
TF 06000 11900	506000 311900	27	<7	C	CER (40 4						ICL - CI			All hard r	ocks or ston	nes (i.e. th	nose which	cannot be sc			N - No	No 39	7	2 V	VCI 1	Droughtiness		
					4	40	50 1	7.5YR4/2						loam (heavy)							Mode	rate	No	No						
					į	50	75 2	5 7.5YR5/4				No H	CL - Clay	loam (heavy)							Mode	rate		No						
						75	120 4	5				Н	CL - Clay	loam (heavy)							Mode	rate		No						
TF 06100 11900	506100 311900	27	<7	C	CER (0	35 3	5 7.5YR3/4				No H	CL - Cla	5 4 1	HR -	All hard re	ocks or ston	nes (i.e. th	nose which	cannot be sc	atche Not A	ppli SC -	SlisNo	No 38	6	2 V	VCI 2	Droughtines We	etness	
				-				7.5YR4/4						loam (heavy)							Mode	-	No		-					
							120 8							loam (heavy)							Mode		- 110	No						
						30	120 0	2				- 11	CL - Clay	ioaiii (iieavy)							IVIOUE			INO						
												-				_									+					
												-				_									-	-				
																+									-	+				
																								L						
05500 11800	505500 311800	27	<7	C	CER (5 10YR3/4					- Clay	2 2	HR -	All hard r	ocks or ston	nes (i.e. th	nose which	cannot be sc					-3	2 V	vC II 3a	Wetness		
								7.5YR4/3					- Clay			\perp						rate NO	N - No							
					4	45	120 7	5				С	- Clay								Poor			Yes						
F 05700 11800	505700 311800	27	<7	C	CER (0	30 3	0 10YR3/4				No N	ICL - Cla	3 3	HR -	All hard re	ocks or ston	nes (i.e. th	nose which	cannot be sc					6	2 V	VCI 2	Droughtines We	etness	
					:			0 10YR3/3			-			/ loam (mediu									- Ve No							
					4		65 2							loam (heavy)							Mode	rate		No						
							120 5						- Clay	1							Mode			No						
				-								ľ	/									1								
													-+													+				
E 0E000 11000	505900 311800	1 27	-7		-ED .	0	20 2	0 10YR3/4				No	Classic	3 8 4	LID	All board :	ocks or sta	200/: 0.45	2000 which	annet ke se	atcha Nat A	nnli VC	\/c N1-	No 10	1	2 14	VCI 2	Stonings: D	oughtines Wetnes	
. 00811 006C0	202900 311800	1 21	<7	C	CER (- Clay 8	0 4	HK -	All hard r	OCKS OF STOR	ies (i.e. tr	iose writth (cannot be sc	attrie NOT A	ppii VC	VEINO	NO 19	1	2 V	vci Z	Stoniness Dro	ougnunes wetnes	3
								5 10YR4/3					- Clay			+							- Ve No		-	++				
						45	120 7	D				C	- Clay			+					Mode	rate	_	No	-	++				
					- 1								- 1						1		1	- 1	- 1	1						
			-																			_	-		_					

	000 07		oss	١,	25	25 40/04/4		I.	1	01 40 5					la alee .					G	5 1	-
TF 06100 11800 506100 311	1800 27	<7	CER	0		35 10YR4/4			_	· Cla 12 10 5			tones (i.e. those which o					-8 2	WCI 1	Stoniness	Droughtiness	2
				35		5 7.5YR3/3		No		· Cla 12			tones (i.e. those which o			No	No					
				40	120	80			HCL	· Cla 20	HR - AI	hard rocks or s	tones (i.e. those which o	cannot be scratche	eModerate	_	No					
									_													
TF 05500 11700 505500 311	1700 27	<7	CER	0	43	43 10YR3/4		No		- Cla 2 2		hard rocks or s	tones (i.e. those which o	cannot be scratche		No	No 41	9 2	WCI 1	Droughtine	SS	2
				43	120	77			MCL	- Clay Ioam (medium)					Moderate		No					
TF 05600 11700 505600 311	1700 27	<7	CER	0	30	30 10YR4/3		No	MCI	- Cl 3 2	HR - AI	hard rocks or s	tones (i.e. those which o	rannot he scratche	Not Appli SC - S	licNo	No. 37	5 2	WCI 1	Droughtine	c	2
11 03000 11700 303000 311	2700 27	- "	CER	30		15 10YR3/3				- Cla5			tones (i.e. those which o				No Si	3 2		Broughtime	.5	
					120			110		- Clay loam (medium)		I al a locks of s	tories (i.e. triose willer)	carriot be scratcin	Moderate	118110	No					
				45	120	73			IVICE	- Clay Ioani (ineululii)					Widuerate	-	INO					
				-					-													
									+							-						
																-						
				1					1						 	_	1	-		_		
TF 05700 11700 505700 311	1700 27	<7	CER	0		30 10YR3/3			_	- Cla 3 3			tones (i.e. those which o					0 2	WC II 2	Droughtine	Texture	2
				30		10 10YR4/4				- Cl 5	HR - Al	hard rocks or s	tones (i.e. those which o	cannot be scratche		No	No					
				40	50	10 10YR4/4		No		Clay loam (heavy)					Moderate		No					
				50	120	70			C - C	lay					Poor		Yes					
TF 05800 11700 505800 311	1700 27	<7	CER	0	30	30 10YR3/3		No	HCI	- Cla 2 2	HR - Al	hard rocks or s	tones (i.e. those which o	cannot be scratche	e Not Appli NON	- No	No 18	1 2	WC II 3a	Wetness		3
3333 22, 33 303000 311		T .	CLI	30		10 10YR3/4				· Clay loam (heavy)	741		and the second second		Moderate NON		No 10					
						10 7.5YR3/4	CF - C(10YR5/6			· Clay loam (heavy)					Moderate	No	No					
				_	120		CF - C(101K3/0	NO							1 1	INO						
				50	120	70			C-C	lay					Poor	-	Yes					
									-													
									-							_						
				_					_							_						
TF 05900 11700 505900 311	1700 27	<7	CER	0		30 10YR3/4				· Cla 3 3	HR - Al	hard rocks or s	tones (i.e. those which o	cannot be scratche			No 24	6 2	WCI 2	Droughtine	Wetness	2
				30	40	10 10YR3/3				Clay loam (heavy)					Moderate MC -		No					
				_	45			No	HCL	Clay loam (heavy)					Moderate MC -	MNo	No					
				45	120	75			C - C	lay					Moderate		No					
TF 06000 11700 506000 311	1700 27	<7	CER	0	30	30 7.5YR3/3		No	MCL	- Cl 5 3 1	HR - Al	hard rocks or s	tones (i.e. those which o	cannot be scratche	eNot Appli NON	- No	No 37	5 2	WCI 1	Droughtine	SS	2
				30		10 10YR3/4			_	- Clay Ioam (medium)					Moderate NON		No					
				_	120					- Clay loam (medium)					Moderate		No					
				170	120				IVICE	Sidy iodin (inleufulli)					ouerate		1					
									-							-						
									-							-						
																-						
				4_					4.						<u> </u>		1	1				
TF 06100 11700 506100 311	1700 27	<7	CER	0		38 10YR4/4		No		- Cl: 10 8 3	HR - Al	hard rocks or s	tones (i.e. those which o	cannot be scratche	eNot Appli SC - S	IigNo	No 35	3 2	WCI 1	Stoniness	Droughtiness	2
				38	40					- Clay Ioam (medium)					Moderate VC - \	/e No	No					
				40	120	80			HCL	Clay loam (heavy)					Moderate		No					
															1							
TF 05700 11600 505700 311	1600 27	<7	CER	n	39	39 10YR3/3		No	MCI	- Cl 2 2	HR - AI	hard rocks or s	tones (i.e. those which o	cannot be scratche	Not Appli NON	- No	No. 40	8 2	WCI 1	Droughtine	is	2
55700 11000 505700 511	200 27		CLIX	39		1 10YR3/4				- Clay loam (medium)			tones (ne. those which	January De Jeruterit	Moderate NON			5 2		Diougnane		
						1 10YR3/4 10 10YR4/4				- Clay Ioam (medium) - Clay Ioam (medium)				-	Moderate NON	NIO-	CINC	+				
																- INON-		+				
				50	120	/U			INICL	- Clay loam (medium)					Moderate	-	No					
																_		-				
																_		\perp				
TF 05900 11600 505900 311	1600 27	<7	CER	0		35 10YR3/3				- Cla 3 2		hard rocks or s	tones (i.e. those which o	cannot be scratche	e Not Appli NON	- No	No 39	7 2	WCI 1	Droughtine	SS	7
				35	45	10 7.5YR3/4				- Clay Ioam (medium)					Moderate NON	- No	No					
					120					- Clay Ioam (medium)					Moderate NON							İ
				1					1													
																- 1						

TF 06100 11600 506100 311600 27	≤7	CER	0	35	35	10YR3/3	No	MCL	Cl 8	6	2	R - All hard rocks or stones (i.e. those which cannot be scratche Not Appli SC - Slig No No -32 -20 3b WC II 2 Droughtiness	31
			35	40	5	10YR3/4	No	MCL	Cl 5			R - All hard rocks or stones (i.e. those which cannot be scratche Moderate VC - Very cald No	
				65				_	- Cla 2	0		R - All hard rocks or stones (i.e. those which cannot be scratche Poor	
			-	03				11102	CIGZ		·	The first state of states (i.e. that the table of states	
			_					+					
								+	-				
								+	-				
				_				+	_				
TF 05700 11500 505700 311500 27	≤7	CER	0	30		10YR3/4			L - M8			R - All hard rocks or stones (i.e. those which cannot be scratche Not Appli NON - No No 8 -2 2 WC I 1 Droughtiness	2
			30		10	7.5YR3/4	No		L - M 1			R - All hard rocks or stones (i.e. those which cannot be scratche Moderate NON - No No	
			40	100	60			MSZ	L - N 2	4		R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No	
TF 05800 11500 505800 311500 27	<7	CER	0	30	30	10YR3/3	No.	SCL -	- Sar 1	0 8	0 1	R - All hard rocks or stones (i.e. those which cannot be scratche Not Appli SC - Slig No No -9 -17 3a WC I 1 Droughtiness	-
			30		10	7.5YR3/3			Me 1			R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No No	
			40		3	7.5YR3/4			- San 2			R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No No	
			43			7.3113/4	- NO		- San 3			· · · · · · · · · · · · · · · · · · ·	
			43	100	57			SCL.	- 2ari 3	U		R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No	
			_					-					
TF 05900 11500 505900 311500 27	≤7	CER	0	30				_	Cl 1		0 1	R - All hard rocks or stones (i.e. those which cannot be scratche Not Appli NON - No No -19 -8 3a WC I 1 Droughtiness	
			30	40	10	10YR3/6	No	MCL	Cl 1	0		R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No	
			40	75	35			MCL	Cl 2	0	1	R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No	
TF 06000 11500 506000 311500 27	<7	CER	n	38	38	7.5YR3/3	No.	MCI	Cl 1	n &	3 1	R - All hard rocks or stones (i.e. those which cannot be scratche Not Appli SC - Slig No No -29 -17 3b WC I 1 Droughtiness	3
11 00000 11500 500000 511500 27		CEN	38			10YR3/4		_	- Cl 2			R - All hard rocks or stones (i.e. those which cannot be scratche Moderate SC - Slig No No No	
			40		25	10113/4	- INO	_	Cl 3			R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No	
			40	0.5	23			IVICL	- (163	U		A - All flatd focks of stories (i.e. those which callinot be stratched blooderate	
								+	_				
								-					
			_					-					
TF 05900 11400 505900 311400 27	≤7	CER	0	30		,		_	Cl 1		2	R - All hard rocks or stones (i.e. those which cannot be scratche Not Appli NON - No No -33 -22 3b WC I 1 Droughtiness	3
			30	40	10	7.5YR3/3	No	SCL-	- Sar 2	0		R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No No No	
			40	65	25			SCL ·	- Sar 3	0		R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No	
TF 06000 11300 506000 311300 27	<7	CER	0	30	30	10YR3/4	No.	HCI	- Cla 1	n 8	2 1	R - All hard rocks or stones (i.e. those which cannot be scratche Not Appli NON - No No -31 -19 3b WC I 2 Stoniness Droughtines Wetn	229
11 00000 11300 300000 311300 27		CEN	30	_		·		_	- Cla 2			R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No No	233
				65		7.511(4)4	- No	_	- Cla 3				
			45	00	20			IUCL	- Clas	U		R - All hard rocks or stones (i.e. those which cannot be scratche Moderate No	
			-					-					
			_					-					
								_					
END			- 1					1	- 1				

Detailed: Area J SP1

Project Number	Project Name				Parcel
C925JSP1	Mallard Pass Detailed ALC Area J SP1				SP1
Date of Survey	Survey Type		Surveyor(s)	Company
					Askew Land and
12/10/2022	Detailed ALC		RWA		Soil
Weather		Relief		Land use	and vegetation
Mild, cloudy, light	showers	Undulated		CER (Cer	eals)
Grid Reference			Postcode	Altitude	Area
TF611101			PE9 4QD	27	
			<u> </u>	u.	1
MAFF prov		MAFF detailed		Flooding	
Grade 3		None		Flood Zo	ne 1
AAR	AT0	MDw	MDp	FCD	Climate grade
578	1424	116	110	113	1
Bedrock			Superficia	I deposits	
Limestone			None Rec	orded	
			<u>.</u>		
Soil association(s)	1:250,000		Deta	ailed soil in	formation
Sherborne Associa	tion		Non	ie	
Revision Number			Date Revi	sed	
2			02/11/202	22	
			1 , , -		

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	rid ref.	11+ /m)	1 0	Acnost	I andco	. 1	epth (c	CIII)	Matrix	Ocini	eous Mottles Grey Mot	1010	., ITav+			type 1		Stones													et		Final		
NGR	X Y	AIT (m)) Slope °	Aspect	Land use	Тор	Bttm	Thick	Munsell colour	Form	Munsell colour Form Munse	Il colour	y Textu	re %	> 2cm > 60									SUBS STF			ME			WC (Limitation 1	Limitation :	2 Limitatio	n 3 Gr
TF057106	505700 310600 2	29	≤7		CER				10YR4/3					ay 8	6 2		All hard ro											-7	2	WC II	За	Wetness			3a
									10YR5/4			No	C - Cla	ay 6			All hard ro								_										
						50	120	70	10YR5/3	CD - C	10YR4/6	Yes	C - Cla	ay 0		HR -	All hard ro	cks or s	stones (i.e	. those v	which ca	nnot be	scratche	Poor	NON -	Yes	Yes		'						
													_																'						_
										-				_																					-
										-				+																					
TE0E010C	F0F000 240C00 1	25	-7		CED	0	24	24	7 FVD4/2				LICI	CLASE	10	LID	All hard ro	al.a a			مم عامتعان			ا مادان، ا	t: CC CI	i alaklı . a	alaar CE			WCI.		Duaahtimaa			
TF059106	505900 310600	25	≤7		CER			24	7.5YR4/3	-			HCL-	Cla 35			All hard ro											-59	4	WC I	L	Droughtines	5		4
						24	30	20		-			HCL-	Cla 30		IIK-	All liaiu iu	JCKS OI S	stories (i.e	i. those v	WIIICII Ca	illiot be s	Scrattile	iviouerat	1630 - 31	Ignitiy	INO		+-						-
														-																					
TF061106	506100 310600 2	21	≤7		CER	0	28	28	10YR4/2				C - Cla	ay 1	0 0	HR -	All hard ro	cks or s	stones (i.e	those v	which ca	nnot be	scratche	d with a	fi NON -	Non-c	lcar 35	4	2	WC II	3a	Wetness			38
							120		10YR5/3	CD - C	7.5YR5/6	Yes	HCL-				All hard ro																		
TF063106	506300 310600 2	20	≤7		CER	0	23	23	10YR4/2				HCL -	Cla 6	4 1		All hard ro											2	2	WC I	2	Droughtines	Wetness		2
						23	62	39	10YR5/3	FD - Fe	10YR5/6	Yes	C - Cla	ay 1			All hard ro																		
						62	120	58	10YR5/6			No	SCL -	Sar 5		HR -	All hard ro	cks or s	stones (i.e	. those v	which ca	nnot be	scratche	Moderat	te SC - SI	iįNo	No								
																													'						
TF056105	505600 310500	29	≤7		CER	0	24	24	10YR4/2				C - Cla	ay 10	8 2		All hard ro											-11	3a	WC II	За	Droughtines	Wetness		3
									10YR5/4			No	C - Cla	ay 10			All hard ro								_				'						
						50	120	70	10YR5/3	CD - C	10YR4/6	Yes	C - Cla	ay 8		HR -	All hard ro	cks or s	stones (i.e	. those v	which ca	nnot be	scratche	Poor	NON -	Yes	Yes		'						
																													'						
														_															'						
														_															'						
														_														\rightarrow	'						
TF057105	505700 310500 2	29	≤7		CER	_			7.5YR4/3	-			_	Cla 20			All hard ro											, -49	4	WC I	1	Droughtines	S		4
						24	50	26		-			HCL -	Cla 40		HR -	All hard ro	cks or s	stones (i.e	those v	which ca	nnot be	scratche	Moderat	te SC - SI	ightly c	No								
										-				_																					
										-				_																					
										-				-											_										
										-				-											_										_
TE050405	F0F000 240F00 :	20	-77		CED	_	24	24	40/04/2				C C	24	10 0	LID	All le sed se		/:	41	. de fiele i e e			d dada i	6. 1101	Neces	1 2		2-	14/C II /		Ct 1			31
TF058105	505800 310500	29	≤7		CER		24		10YR4/2	-		N.			18 8		All hard ro											-18	3a	WCII :	sa	Stoniness			31
									10YR5/4 10YR5/3	CD C	10VD4/C	NO Van	C - Cla	ay 110			All hard ro																		
						45	120	/5	101K5/3	CD-C	10YR4/6	Yes	C-Cla	ay 18		HK -	All hard ro	CKS OF S	stones (i.e	tnose v	wnich ca	nnot be	scratche	POOR	NON -	res	res		+						-
														-											-										
														-											-										
										-				-															+-						-
TF059105	505900 310500 2	25	≤7		CER	n	26	26	10YR4/3				C - Cl:	ay 1	0 0	HR -	All hard ro	ncks or s	tones (i e	thoses	which ca	nnot he	cratche	d with a	fi NON -	Non-c	lcar 35		2	WCII :	Ra	Wetness			3
11 039103	303300 310300 .	23	2/		CLIN	_			10YR5/3	CD-C	7.5YR5/6	Vac	HCL -		0 0		All hard ro											-		WCII .	oa -	vvetness			- 3
						20	120	34	1011(3/3	CD-C	7.511(3/0	163	TICL	Ciai		TIIX-	All liaid id	JCK3 UI 3	stories (i.e	. 111036 1	willerica	illiot be s	scrattine	iviouerat	CIVOIV	163	NO		+-'						-
														-																					
																													+						\dashv
																													+						
																																			-
TF060105	506000 310500 2	25	≤7		CER	0	28	28	10YR4/3				HCL -	Cla 20	15 5	HR -	All hard ro	cks or s	stones (i.e	those v	which ca	nnot be	scratche	d with a	fi SC - SI	ightly o	alcar -8	-22	3a	WC III	3a	Stoniness	Droughtine	s Wetness	, 13
									10YR6/2	CD - C	10YR5/6	Yes	C - Cla				All hard ro									√l Yes							3		
									·										Ì																
TF061105	506100 310500	21	≤7		CER	0	30	30	10YR4/3				HCL -	Cla 1	0 0	HR -	All hard ro	cks or s	stones (i.e	those v	which ca	nnot be	scratche	d with a	fi NON -	Non-c	alcar 25	7	2	WC II	3a	Wetness			3
						30			10YR5/3	CD - C	7.5YR5/6	Yes	C - Cla	_			All hard ro																		
						1																			1										

TF062105	506200 310500 21	≤7	CE	ER In	24	24	10YR4/2				C - CI:	ay 10	8 2	2 HR	All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calcar 0 -16 3a WC III 3a Droughtines Wetness
11 002103	300200 310300 21	2/	CE		24 30		10YR5/3	CD - C 1	0YR5/6	Yes			3 2		All hard rocks or stones (i.e. those which cannot be scratchelpoor SC - Slig Yes Yes Scratchelpoor SC - Slig Yes S
						90	101113/3	CD - C	51113/0	Yes	_	ay 5			All hard rocks or stones (i.e. those which cannot be scratchePoor SC - SligNo Yes
					50 120) 90				ies	C - Cia	ay 3		П	Air had rocks of stories (i.e. those windr calinot be stratcher our
TE06210E	506300 310500 20	≤7	CE	ED (28	28	10YR4/3				HCL -	Clao	6 1	1 UD	All hard rocks or stones (i.e. those which cannot be scratched with a fi VSC - Very slightly 19 3 2 WC I 2 Stoniness Droughtines Wetness
TF063105	500500 510500 20	≥/	CE	-			-	5D 5	OVDE /C				0 1		
					28 62		10YR5/3	FD - F(1	0YR5/6		C - Cla				All hard rocks or stones (i.e. those which cannot be scratche Moderate VSC - V No No
				E	52 120	58	10YR5/6			No	C - Cla	ay 5		HR	All hard rocks or stones (i.e. those which cannot be scratche Moderate SC - Slig No No
												_			
75064405	505400 040500 00	-	0.5			20	10/01/2				0 0				
TF064105	506400 310500 20	≤7	CE		28		10YR4/3					ay 10	8 2		All hard rocks or stones (i.e. those which cannot be scratched with a fi NON - Non-calcar 5 -8 3a WC II 3a Droughtines Wetness
					28 62		10YR5/4			No		ay 10			All hard rocks or stones (i.e. those which cannot be scratche Moderate NON - No No
				E	52 120	58	2.5Y6/2	CP - C 1	0YR5/6	Yes	C - Cla	ay 10		HR	All hard rocks or stones (i.e. those which cannot be scratche Poor SC - Slig No Yes
												_			
TF057104	505700 310400 33	≤7	CE	ER C) 25		10YR4/3					Cla 15	8		All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calcar -30 -21 3b WC I 2 Droughtiness
				2	25 35		10YR4/4				HCL -				All hard rocks or stones (i.e. those which cannot be scratche Moderate SC - Slig No No No
					35 55		10YR5/4			No		Cla 15			All hard rocks or stones (i.e. those which cannot be scratche Moderate MC - M No No
				5	55 80	25	10YR6/2			No	HCL -	Cla 70		HR	All hard rocks or stones (i.e. those which cannot be scratche Moderate MC - MNo No No
TF059104	505900 310400 31	≤7	CE	ER C	32	32	10YR4/3				C - Cla	ay 30	16 1		All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calcar -15 -28 3a WC III 3a Stoniness
				3	32 120	88	10YR6/2	CD - C 1	0YR5/6	Yes	C - Cla	ay 15		HR	All hard rocks or stones (i.e. those which cannot be scratche Poor MC - M Yes Yes
TF061104	506100 310400 27	≤7	CE	ER C	30	30	10YR4/2				HCL -	Cla 25	16 1	10 HR	All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calcar -10 -24 3a WC III 3a Stoniness
						90	10YR6/2	CD - C 1	0YR5/6	Yes		ay 15			All hard rocks or stones (i.e. those which cannot be scratche Poor MC - MYes Yes
					20	, 30	201110/2	02 0.	511.57 0	1.00	0.0	2, 23			
TF063104	506300 310400 21	≤7	CE	ED (20	20	10YR4/3				C - CI	ay 20	12 6	6 нв	All hard rocks or stones (i.e. those which cannot be scratched with a fiJSC - Slightly calcar -4 -20 3a WC III 3a Stoniness Droughtines Wetness
11003104	300300 310400 21	2/	CI				10YR5/3	CD - C 1	OVDE /C	Vac	1 .	-	12 (All hard rocks or stones (i.e. those which cannot be scratchel Poor SC - Slig Yes Yes Stones (i.e. those which cannot be scratchel Poor SC - Slig Yes Yes
							101K5/5	CD-C	UTKS/0	Yes					
				- 1	30 120	90				Yes	C - Cla	ay 5		HK	All hard rocks or stones (i.e. those which cannot be scratche Poor SC - Slig No Yes
												_			
												_			
												_			
											1				
TF057103	505700 310300 33	≤7	CE		24		10YR4/3					Cla 20	6		All hard rocks or stones (i.e. those which cannot be scratched with a fi VSC - Very slightly 7 -13 3a WC II 3a Droughtines Wetness
					24 40		2.5Y4/4				HCL -				All hard rocks or stones (i.e. those which cannot be scratche Moderate SC - Slig No No No
				4	40 72	32	2.5Y6/2	CD - C 1	0YR5/6	Yes	HCL -	Cla 20		HR	All hard rocks or stones (i.e. those which cannot be scratche Moderate MC - M No No No
				7	72 120	48	2.5Y6/1	CD - C 1	0YR5/6	Yes	C - Cla	ay 0			All hard rocks or stones (i.e. those which cannot be scratche Poor NON - No Yes
TF058103	505800 310300 32	≤7	CE	ER C	30	30	10YR4/3				HCL -	Cla 24	13 1	10 HR	All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calcar -6 -21 3a WC III 3a Stoniness Droughtines Wetness
							10YR6/2	CD - C 1	0YR5/6	Yes	C - Cla				All hard rocks or stones (i.e. those which cannot be scratche Poor MC - MYes Yes
						1.5	.,-	1		1.55	1	1		1	
						-	-				1				
TF059103	505900 310300 31	≤7	CE	ED C) 22	32	10YR4/2				C CI-	ay 22	10 6	6 UD	All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calcar -14 -27 3a WC III 3a Stoniness Droughtines Wetness
11029103	202200 210300 31	≤/	CE				10YR4/2 10YR6/2	CD C	OVDE /6	V			10 £		All hard rocks or stones (i.e. those which cannot be scratched with a filst Slightly calcar -14 -27 3a WC III 3a Stoniness Droughtines Wetness All hard rocks or stones (i.e. those which cannot be scratched Poor MC - M Yes
					32 120	88	101Kb/2	CD - C 1	ט/כאזט.	res	C - Cla	ay 20		HR	An naru rocks of stones (i.e. those which cannot be scratcheroof IVIC - MITES YES
											1				
				- 1						ı	1	- 1			

21	TF060103	506000 310300 31	≤7	CER	0	32	32	10YR4/2				HCL - Cla 2	5 12	8	HR - All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calca -10 -23 3a WC III 3a Stoniness Droughtines Wetness 3a
					32	120	88	10YR6/2	CD - C 10YR5/6		Yes	C - Clay 1	5		HR - All hard rocks or stones (i.e. those which cannot be scratche Poor MC - M Yes Yes
22	TF061103	506100 310300 27	≤7	CER	0	20	20	10YR4/2				HCL - Cla 1	3 11	6	HR - All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calca -2 -18 3a WC III 3a Stoniness Droughtines Wetness 3a
					20	30	10	10YR5/3	CD - C 10YR5/6		Yes	C - Clay 5			HR - All hard rocks or stones (i.e. those which cannot be scratche Poor SC - Slig Yes Yes
					30	120	90				Yes	C - Clay 5			HR - All hard rocks or stones (i.e. those which cannot be scratche Poor SC - Slig No Yes
23	TF057102	505700 310200 33	≤7	CER	0	32	32	10YR4/2			+	HCL - Cla 2) 15	6	HR - All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calca -4 -18 3a WC III 3a Stoniness Droughtines Wetness 3a
					32	120	88	10YR6/2	CD - C 10YR5/6		Yes	C - Clay 1)		HR - All hard rocks or stones (i.e. those which cannot be scratche Poor MC - M Yes Yes
24	TF059102	505900 310200 33	≤7	CER	0	24	24	10YR4/3				HCL - Cla 1	5 10	6	HR - All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calca -1 -17 3a WC III 3a Droughtines Wetness 3a
					24	30	6	10YR5/3	CD - C 10YR5/6		Yes	C - Clay 6			HR - All hard rocks or stones (i.e. those which cannot be scratche Poor SC - Slig Yes Yes
					30	120	90				Yes	C - Clay 6			HR - All hard rocks or stones (i.e. those which cannot be scratche Poor SC - Slig No Yes
25	TF061102	506100 310200 31	≤7	CER	0	30	30	10YR4/2				C - Clay 8	6	2	HR - All hard rocks or stones (i.e. those which cannot be scratched with a fi SC - Slightly calce 9 -4 2 WC II 2 Stoniness Droughtines Wetness 2
					30	70	40	10YR5/3	CD - C 10YR5/6		Yes	C - Clay 8			HR - All hard rocks or stones (i.e. those which cannot be scratche Moderate MC - M No No
					70	120	50	10YR5/3	CD - C 10YR5/6	CD - C 10YR5/1	Yes	C - Clay 4			HR - All hard rocks or stones (i.e. those which cannot be scratche Poor SC - Slig No Yes
	END														

Detailed: Area J SP2

Project Number	Project Name				Parcel
C925J	Mallard Pass Detailed ALC Area J SP2				SP2
63233	Manara Fass Betailed / 125 / 11 ed 3 St 2				0.2
Date of Survey	Survey Type		Surveyor(s	5)	Company
					Askew Land and
14/10/2022	Detailed ALC		RDM		Soil
Weather		Relief		Landuso	and vegetation
Mild, cloudy		Gently undulated		CER (Cere	eais)
Grid Reference			Postcode	Altitude	Area
TF061101			PE9 4QD	27	71100
			1 23 103		
MAFF prov		MAFF detailed		Flooding	
Grade 3		None		Flood Zo	ne 1
AAR	ATO	MDw	MDp	FCD	Climate grade
578	1424	116	110	113	1
Bedrock			Superficia	deposits	
Limestone			None Reco	orded	
Soil association(s)	1:250,000		Deta	iled soil in	formation
Sherborne Associa	iton		Non	e	
Revision Number			Date Revis	sed	
2			02/11/202	22	

nt 	Grid ref.	Alt (m	Slope ° A	spect Lar	nd use		th (cm)		_	reous Mottles Grey Mottles	Glev	Texture		Stones - type		nes - type 2		Ped	SUBS STR C	aCO3 Mn		Drought		Wet	<u> </u>	Final ALC	
NGR	Х Ү				T		_	ck Munsell colour	Form	Munsell colour Form Munsell colo	ur			> 2cm > 6cm		>6cm Type			9		MB	v MBp C		_		Limitation 2 Lin	
TF058101	505800 310100	27	≤7	CEI		30		10YR4/4				C - Clay			HR - All hard rocks						No -13	-22 3	a WCI	2	Stoniness	Droughtiness	3a
						0 40		10YR4/3			No	C - Clay			HR - All hard rocks					C - Ve No	No						
					4	0 12	20 80					C - Clay	40		HR - All hard rocks	or stones (i.e. th	nose which ca	innot be scratch	neModerate		No						
											_																
											_																
											_																
TF059101	505900 310100	27	≤7	CEI		33		2.5Y4/3			No	C - Clay	2		HR - All hard rocks						No 21	3 2	WCI	3a	Wetness		3a
						3 40		2.5Y4/2			No	C - Clay	2		HR - All hard rocks						No						
						0 60		10YR4/6	CF - C	10YR5/6	No	C - Clay	2		HR - All hard rocks												
					6	0 80		2.5Y5/4			No	C - Clay	2		HR - All hard rocks	or stones (i.e. th	nose which ca	innot be scratch	· ·	C - SligNo	No						
					8	0 12	20 40					C - Clay							Moderate		No						
TF060101	506000 310100	27	≤7	CEI	R 0	35	35	2.5Y3/2			No	C - Clay	2		HR - All hard rocks						No 11	-5 2	WC II	3a	Wetness		3a
					3	5 40) 5	2.5Y3/2			No	C - Clay	2		HR - All hard rocks	or stones (i.e. th	nose which ca	innot be scratch	ne Moderate N	ON - No	No						
					4	0 70	30	2.5Y5/3	MD - 1	10YR5/6	Yes	C - Clay	2		HR - All hard rocks	or stones (i.e. th	nose which ca	innot be scratch	ne Poor So	C - SligNo	Yes						
					7	0 12	20 50	2.5Y5/4			No	C - Clay	2		HR - All hard rocks	or stones (i.e. th	nose which ca	innot be scratch	ne Poor	No	No						
TF061101	506100 310100	27	≤7	CEI	R 0	30	30	10YR4/4			No	C - Clay	8	7 4	SLST - Soft oolitic o	dolomitic lime	stones		Not Appli V	C - Ve No	No -1	-14	a WCI	2	Stoniness	Droughtiness	3a
					3	0 40	10	10YR4/3			No	C - Clay	15		SLST - Soft oolitic o	dolomitic lime	stones		ModerateV		No						
					4		20 80					C - Clay			SLST - Soft oolitic o	dolomitic lime	stones		Moderate		No						
TF059100	505900 310000	27	≤7	CEI	R 0	33	3 33	10YR4/4			No	C - Clay	6 (6 3	HR - All hard rocks	or stones (i.e. th	nose which ca	nnot be scratch	ne Not Appli So	C - Slis No	No -1	-15 3	a WCI	2	Stoniness	Droughtiness	3a
						3 35		2.5Y5/4			No	C - Clay			SLST - Soft oolitic o				Moderate N		No						
							20 85	2.3.57 .			-	C - Clay			SLST - Soft oolitic o				Moderate		No						
						J 11	.0 03					Ciuy	10		SEST SOFT CONTICO	doronniciennic			Moderate		110						
											-						_		-								
TEOC1100	F0C100 210000	27	-	CEI		20) 20	7 FVD4/2			N.a	C Class	12	12 8	CLCT Cafe a alikia a				Not Appli S	Cliable	No. C	20 2	- 14/61	2	Chaminana	Danishtinon	3a
TF061100	506100 310000	21	≤7	CEI			20	-			No	C - Clay			SLST - Soft politic o						No -6	-20 3	a WCI	Z	Stoniness	Droughtiness	34
						0 30		10YR4/4			No	C - Clay			SLST - Soft oolitic o				Moderate S	- SIIINO	No						
					3	0 12	20 90					C - Clay	40		SLST - Soft oolitic o	dolomitic lime	stones		Moderate		No						
											_																
											_																
TF059099	505900 309900	27	≤7	CEI			33					HCL - Cla		4 2	HR - All hard rocks							6 2	WCI	2	Droughtines	Wetness	2
						3 40		7.5YR3/4			No	HCL - Cla	2		MSST - Soft, mediu	m or coarse grai	ned sandsto	nes	Moderate N	ON - No							
								7.5YR3/4				C - Clay							Moderate	No	No						
					4	2 12	20 78					C - Clay							Moderate		No						
TF060099	506000 309900	27	≤7	CEI	R 0	35	35	10YR3/4			No	C - Clay	5	4 2	SLST - Soft oolitic o	dolomitic lime	stones		Not Appli S			-6 2	WC I	2	Droughtines	Wetness	2
					3.	5 40) 5	10YR4/4			No	C - Clay	12		SLST - Soft oolitic o	dolomitic lime	stones		Moderate S	C - SligNo	No						
					4	0 12	20 80					C - Clay	25		SLST - Soft oolitic o	r dolomitic lime	stones		Moderate		No						
TF061099	506100 309900	27	≤7	CEI	R n	30	30	10YR4/4			Nο	C - Clay	6	5 3	HR - All hard rocks	or stones (i.e. th	nose which ca	nnot be scratch	ne Not Appli N	ON - No	No 0	-14 3	a WCII	3a	Droughtines	Wetness	3a
551055	300230 303300			CEI				7.5YR3/4			No	C - Clay	5		HR - All hard rocks						No		1.0011				50
							20 80					C - Clay	20		MSST - Soft, mediu				Poor		Yes						
					- 4	5 12	.00					Ciay			17.551 301t, Illeulu	or coarse grai	neu sanusio	103	1 001		103						
											-																
											-																
											1		_	_							1				<u> </u>		
				CEI	r l∩	38	38	10YR4/4		i i	No	C - Clay	5 !	5 3	HR - All hard rocks			innot be scratch	ne Not Appli N	IC - MINO	No 11	10 1	IVV/CI	2	IDroughtines	Wetness	2
TF062099	506200 309900	27	≤7	CEI																		-3 2	VVC1	-	Diougntines		ſ
TF062099	506200 309900	27	≤7	CEI	3	8 50	12	7.5YR3/4			No	C - Clay			HR - All hard rocks				ne Moderate So		No	-3 2	WCI	-	Diougnunes		
TF062099	506200 309900	27	≤7	CEI	3	8 50		7.5YR3/4				C - Clay C - Clay			MSST - Soft, mediu							-3 2	Wei		Droughtines		
TF062099	506200 309900	27	≤7	CEI	3	8 50	12	7.5YR3/4											ne Moderate So		No	-5 2	WC1		Diougnanics		
TF062099	506200 309900	27	≤7	CEI	3	8 50	12	7.5YR3/4											ne Moderate So		No	-5 2	WCI		Diougnancs		

36	TF061098	506100 309800 27	≤7	CER	0	30	30	10YR4/4	l No	нс	L - Cla 12	10	6	HR - All hard rocks or stones (i.e. those which cannot be scratch	ne Not Apr	nli NOI	N - N	lo N	0 -4	-17	3a N	VC II 3a	Stoniness	Droughtines W	etness	3a
50	11 001030	300100 303000 27		CER	30			2011.47	, and		L - Cla 15		-	HR - All hard rocks or stones (i.e. those which cannot be scratch							Ju I	VC II Ju	Stormicss	Droughtines W	Ctricss	Ju
					40		0 80				Clay 20			HR - All hard rocks or stones (i.e. those which cannot be scratch		il quo	Ì		es							
						0 12	0 80				Clay 20			TIK - All liald rocks of stories (i.e. those which calliot be stratch	1001				-3							
7	TF061097	506100 309700 27	≤7	CER	0	40	40	10YR4/4	No.	ис	L - Cla 6	_	3	SLST - Soft oolitic or dolomitic limestones	Not Ann	ali NOI	NI NI	lo N	o 15	2	2 1	VC II 3a	Wetness			3a
	11001097	306100 309700 27	2/	CER	40		0 80	10114/4	NO		Clay	3	3	SLST - SOIL COUNTRY OF GOOD MILE IMPOSITIONS	Poor	pii NOi	IN - IN		0 15	-2	2 1	VCII 3d	wethess			3d
3	TF062097	506200 309700 27	≤7	CER	0	38	38	10YR4/4	No	НС	L - Cla8	5	3	SI - Soft 'weathered' igneous or metamorphic rocks or stones	Not App	pli SC -	SligN	lo N	0 23	5	2 V	VCI 2	Droughtine	Wetness		2
					38	8 40	2	10YR3/4	No	НС	L - Clay lo	oam (h	eavy)		Modera	te VC	- Very	/ cald N	0							
					40	0 12	0 80			C -	Clay				Modera	ate		N	0							
9	TF063097	506300 309700 27	≤7	CER	0		38	·			L - Cla8	6	3	SLST - Soft oolitic or dolomitic limestones						5	2 V	VCI 2	Stoniness	Droughtines W	etness	2
					38			10YR3/4	No		L - Cla 5			SLST - Soft oolitic or dolomitic limestones	Modera		- Ve N	lo N	0							
					40	0 12	0 80			НС	L - Clay lo	oa 20		SLST - Soft colitic or dolomitic limestones	Modera	ate		N	0							
0	TF061096	506100 309600 27	≤7	CER	0	38		·			L - Cla 6	5	4	SLST - Soft oolitic or dolomitic limestones	Not App	pli SC -	SligN	lo N		6	2 \	VCI 2	Droughtine	Wetness		2
					38			10YR5/4	No	_	L - Cla 5				Modera		SligN									
					43	3 12	0 77			C -	Clay	20		SLST - Soft oolitic or dolomitic limestones	Modera	ate		N	0							
11	TF063096	506300 309600 27	≤7	CER	0	30	30	10YR4/4	No	нс	L - Cla8	7	3	SLST - Soft colitic or dolomitic limestones	Not Apr	pli SC -	SlisN	lo N	0 22	-5	2 1	VCI 2	Stoniness	Droughtines W	etness	2
_	500050	22300 003000 27		JEN .	30						L - Cla 20			SLST - Soft oolitic or dolomitic limestones	Modera		J	N			- I		5.5	308		1
							0 85				L - Cla 20			SLST - Soft oolitic or dolomitic limestones	Modera			N	_							
	END															- 1							1			

Annex 5
Description of Soil Pits

Project			Location										Date	ş				Surveyo	r(s)			Company			Ŷ
C810			KCC3051 M	allards Pass /	Area D								09-De	ec-21				RM				Askew La	nd and So	i .	
Pit		1	WC	-	Grade	-	Limitation]	Notes														
1		la :	I	_			limestone	present		ļ															
Grid Ref.			Altitude	Nearest	Topography						Flora								Weather a	nd conditions					
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	oe .	Vege	tation type	es				Temp	Sky	Wind		Precipita	ation	
TF	032	128	39m	D90	<7								Cerea	ıls					Cold	Cloudy	Slight		Shower		
Horizon	Depth		Matrix			Gleying		~	Mottle	or.		Ston	e conte	n+		Calc	Mn C	Dad/soil	structure			Horizon b	oundane	Biopores	CDI
HOHZOH	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell		Colour	Munsell		Type		Type	Calc.	IVIII C	Dev.	Size	Structure	Strength		Form	>0.5mm	SFL
1	0	28	m/hcl		7.5YR4/6								, , , ,		,,,-	VC	2	wk	f	sab	friable	clear	wavy	>0.5%	N
2	28	30	hcl		7.5YR4/6							10	hr					wk	f	sab	friable	clear	wavy	>0.5%	N
3	30		limestone																						
Pit			wc		Grade		Limitation	(s)		I	Notes	-	•	<u> </u>		'	•	•			•			•	
7.							75																		
Grid Ref.	_		Altitude	Nearest	Topography	100		17 7			Flora								_	nd conditions	10000 40		In the second		
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation ty	oe e	Vege	tation type	es				Temp	Sky	Wind		Precipit	ation	
	n				J	lot :						To.				lo 1		In 17 1				I		ln:	lon.
Horizon	Depth Top	Bttm	Matrix Texture	Colour	Munsell	Gleying	Colour	Munsell	Mottle	Colour	Munsell		e conte		Type	Calc.	IVIN C	Dev.	structure Size	Structure	Strength	Horizon b	Form	Biopores	SPL
à	ТОР	bun	TEXTUTE	Colour	WithSelf	dicy	Colour	Widitsell	Tom	Colour	Withisell	70 1	Турс		Турс			Dev.	Size	Structure	Strength	Distillet	TOTAL		
4					1		į.						şi.		δ.	- 4	4	<i>y</i> .)	14	V	
				<u> </u>																					

Project			Location										D	ate					Surveyor(s)			Company			
C810			KCC3051 M	allards Pass	Area G								0:	9-Dec-21					AR			<u> </u>	Askew Lar	nd and So	il	
Pit]	WC]	Grade		Limitation	(s)]	Notes															
Pit 2			m		3b		Wetness a	nd Workabilty			Borderline W	CII/II	I, due	to variabili	ty in	subsoil struct	ure de	velopm	nent. This	is caused by r	mix of plastic	C with mor	e loamy ler	nses.		
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and	conditions					
Square	East	North	Aidtade	point	Gradient	Aspect	1	Slope form		Surface	Culivation typ	e	V	egetation t	vpes					Temp	Sky	Wind		Precipita	ation	
TF		12603	2:	G105	1°	East		flat			conventional			vheat	-					Cold	Cloudy	Slight		Showers		
	-	10	Towns or the second			100			1	1000		-							- 11 -1			2		married Married		
Horizon	-		Matrix	0.1	The same of the sa	Gleying		la a un un	Mottl		In a second			ontent			Calc.	200 20 1 V V	Ped/soil s		01		Horizon b	_	Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	%	H Ty		5	Туре		7	Dev.	Size	Structure	Strength	Distinct	Form	>0.5mm	
1	O	25	HCL		10YR4/2							5	H	IR			NC						clear	wavy		
2	25	50	С	17	2.5Y5/2	4	3	7.5YR5/6	CD		7.5YR5/6	2	Н	IR	2 5		NC	None	Weak/adl	Coarse/very	SAB	Firm			<0.5%	Υ
Pit			WC	}	Grade		Limitation	(s)		1	Notes						4 2			8					**	
		1	L							1																
Grid Ref	g.	9	Altitude	Nearest	Topography	480		.51		.25	Flora		- 65							Weather and	conditions	25		200		
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation typ	e	V	egetation t	ypes					Temp	Sky	Wind		Precipita	ation	
				1)	12	100																		17		
Hariaan	Danth		Matrix		33	Gleyin		3	Mottl	223	<u> </u>	C.		-11			Colo	Man C	Ped/soil s		Š.		ttestes b		Biopores	cni
Horizon		Bttm	Texture	Colour	Munsell		Colour	Munsell		Colour	Munsell		H T	ontent	9	Туре	Calc.			Size	Structure	Strength	Horizon b	Form	biopores	SPL
	TOP	Dean	renture	COIDGI	Wallsch	O.C.	COIGGI	Wallsch		Colour	Wallsch	,,,		,pc		1,100			DCV.	SIZE .	ou detare	outengur	Distince			
									1																i,	
															9											

Annex 6
Certificates of Analysis



ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 17/01/2022



						0998					
Contract		Mallards Pass									
Serial No.		40007_1									
Limi Gree Stok Purt Swin SN5 Samples Subn Kerr Limi	enacre e Con on Sto idon 4LL nitted	d By: ountryside Consulta		Soil Property Testing Ltd 15, 16, 18 Halcyon Court, St Margaret's Way, Stukeley Meadows, Huntingdon, Cambridgeshire, PE29 6DG Tel: 01480 455579 Email: enquiries@soilpropertytesting.com Website: Approved Signatories: V J.C. Garner B.Eng (Hons) FGS Technical Director & Quality Manage W. Johnstone Materials Lab Manager							
Date Receiv	ed:	11/01/2022	Samples	s Tested Between:	11/01/2022	and 17/01/2022					
		ttention of Sarah Ke erence No: C810	rnon								
Notes:	1	All remaining samples of unless we are notified to	o the contra	ary.							
	2	Opinions and interpreta	ations expre	ssed herein are outside	the scope of UKA	S accreditation.					
	3	Tests marked "NOT UKA Schedule for this testing			re not included in	the UKAS Accreditation					
	4	This test report may no issuing laboratory.	t be reprod	uced other than in full e	xcept with the pri	or written approval of the					
	5	The results within this r	eport only r	relate to the items teste	d or sampled.						

Page 1 of 5



ISSUED BY SOIL PROPERTY TESTING LTD **DATE ISSUED: 17/01/2022**



Contra	act		Mallar	Pass		
Serial	erial No.				Target Date	25/01/2022
Sched	uled E	Зу	Kernon	ountryside Consultants Limited		
Sched	ule Re	emarks				
Bore Hole No.	Туре	Sample Ref.	Top Depth	ogtige sige Dague Balling and Salaring		Sample Remarks
AB119	G		0.00	1		
AB149	н	-	0.00			
AB64	E		0.00			
		Totals				End of Schedule



ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 17/01/2022



Mallards Pass Contract Serial No. 40007_1 **DETERMINATION OF PARTICLE SIZE DISTRIBUTION** Sample Borehole / Depth Remarks Description Pit No. (m) Type Reference 0.00 -Material greater than 2mm removed AB119 G Brown sandy SILT/CLAY before test 0.25 Method of Test: Hydrometer + Pre-sieve Method of Pretreatment: Not required 100 90 80 Percentage Passing (%) 70 60 50 40 30 20 10 0 0.6 60 200 600 0.02 0.06 20 0.002 0.2 6 0.006 Particle Size (mm) Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine COBBLES BOULDERS CLAY SILT SAND GRAVEL 2mm+ By Silt by Sand By Particle Sieve Size Sieve Size **Dry Mass** Passing (%) Dry Mass Passing (%) Dry Mass Passing (%) (mm) Size (mm) (mm) (%) (%) (%) 300 0.0363 48 2.00 100 125 0.0260 42 43 1.18 100 0.0186 37 0.600 90 99 0 0.0098 28 0.425 99 63 Clay by 39 0.0070 24 **Dry Mass** 0.300 97 50 (%) 0.0050 21 0.212 92 37.5 0 0.0032 19 0.150 89 28 0.063 20 0.0015 17 18 61 14 Fines By Dry Mass (%) 10 6.3 <0.063mm 61 5 Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5 Method of test: BS1377: Part 2: 1990: 9.2,9.5 U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter Type of Sample Key: Comments:

Page 3 of 5



ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 17/01/2022



Mallards Pass Contract Serial No. 40007_1 **DETERMINATION OF PARTICLE SIZE DISTRIBUTION** Sample Borehole / Depth Remarks Description Pit No. (m) Type Reference 0.00 -Material greater than 2mm removed Brown slightly sandy silty CLAY with rare fine gravel and recently active AB149 H before test 0.25 Not required Method of Test: Hydrometer + Pre-sieve Method of Pretreatment: 100 90 80 Percentage Passing (%) 70 60 50 40 30 20 10 0 200 600 0.002 0.006 0.02 0.06 0.2 0.6 6 20 60 Particle Size (mm) Medium Coarse Fine Fine Medium Coarse Fine Medium Coarse COBBLES BOULDERS CLAY SILT SAND GRAVEL Silt by Sand By 2mm+ By Sieve Size Sieve Size Particle **Dry Mass** Passing (%) **Dry Mass** Passing (%) **Dry Mass** Size (mm) (mm) (mm) (%) (%) (%) 300 0.0346 69 2.00 100 d 125 1.18 0.0248 63 43 99 0.600 90 0.0177 61 96 0.425 63 m 0.0094 51 Clay by 95 20 0.300 50 0.0067 47 **Dry Mass** 93 0.0047 44 (%) 0.212 37.5 91 0 0.0031 40 0.150 89 28 0.0015 36 37 0.063 80 20 14 Fines By Dry Mass (%) 10 6.3 <0.063mm 80 5 BS1377: Part 1: 2016: 8.3 & 8.4.5 Method of Preparation: Method of test: BS1377: Part 2: 1990: 9.2,9.5 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter Comments:

Page 4 of 5



ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 17/01/2022



Contract **Mallards Pass** Serial No. 40007_1 **DETERMINATION OF PARTICLE SIZE DISTRIBUTION** Sample Depth Borehole / Remarks Description Reference Type Pit No. (m) Yellowish brown slightly gravelly slightly sandy silty CLAY with rare fossil Material greater than 2mm removed 0.00 debris and recently active roots. Gravel is fine and medium limestone E **AB64** before test 0.25 fragments Not required Method of Test: Hydrometer + Pre-sieve Method of Pretreatment: 100 90 80 Percentage Passing (%) 70 60 50 40 30 20 10 0 200 600 20 60 0.002 0.006 0.02 0.06 0.2 0.6 6 Particle Size (mm) Medium | Coarse Fine Medium Coarse Fine Medium Coarse COBBLES BOULDERS CLAY GRAVEL SAND Silt by Sand By 2mm+ By Sieve Size Sieve Size Particle **Dry Mass** Passing (%) Dry Mass Passing (%) Dry Mass (mm) Size (mm) (mm) (%) (%) (%) 300 2.00 0.0348 60 100 d 125 1.18 0.0249 55 34 90 0.600 0.0178 93 51 0.425 63 0.0094 44 91 m Clay by 32 0.0067 41 Dry Mass 0.300 86 50 0.0048 38 (%) 0.212 78 37.5 0 0.150 0.0031 35 74 28 20 0.0015 33 34 0.063 68 14 Fines By Dry Mass (%) 10 6.3 <0.063mm 68 5 BS1377: Part 1: 2016: 8.3 & 8.4.5 Method of Preparation: Method of test: BS1377: Part 2: 1990: 9.2.9.5 U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter Type of Sample Key: Comments:

Page 5 of 5



ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 01/11/2022



Mallard Pass Solar Farm Contract Serial No. 41612_1 Client: Soil Property Testing Ltd Kernon Countryside Consultants Limited 15, 16, 18 Halcyon Court, St Margaret's Way, Greenacres Barn, Stukeley Meadows, Huntingdon, Stoke Common Lane, Cambridgeshire, PE29 6DG Purton Stoke, Swindon Tel: 01480 455579 SN5 4LL Email: enquiries@soilpropertytesting.com Website: Approved Signatories: Samples Submitted By: Kernon Countryside Consultants ✓ J.C. Garner B.Eng (Hons) FGS Limited Technical Director & Quality Manager Samples Labelled: Mallard Pass Solar Farm W. Johnstone Materials Lab Manager Samples Tested Between: 17/10/2022 and 01/11/2022 Date Received: 17/10/2022 Remarks: For the attention of Sarah Kernon Your Reference No: KCC3051 All remaining samples or remnants from this contract will be disposed of after 21 days from today, Notes: unless we are notified to the contrary. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Page 1 of 10

The results within this report only relate to the items tested or sampled.

Schedule for this testing laboratory.

issuing laboratory.

Tests marked "NOT UKAS ACCREDITED" in this test report are not included in the UKAS Accreditation

This test report may not be reproduced other than in full except with the prior written approval of the



ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 01/11/2022



0998

Contra	act		Mallar	llard Pass Solar Farm												
Serial	No.		41612	_1 Target Date							е	31/10/2022				
Sched	uled	Ву	Kernor	rnon Countryside Consultants Limited												
Sched	ule R	emarks														
Bore Hole No.	Туре	Sample Ref.	Top Depth	08	de she dien	Burien la	3371									Sample Remarks
-	D	-	0.00	1				\Box								
-	F	-	0.00	1												
-	1	-	0.00	1												
-	J	-	0.00	1												
	К		0.00	1												
-	А	-	0.00	1												
-	В	-	0.00	1												
-	С	-	0.00	1												
		Totals		8												End of Schedule







0998

Contract	_			Solar Farn									
Serial No).	41612	2_1							_			
				DET	ERMINA	TION OF	PARTICL	E SIZE DIST	RIBUTION				
Borehole	:/	Depth	Sar	mple			Descr	ription				Remark	S
Pit No.	_	(m)	Type R	leference						_			
-		0.00 - 0.25	A	-				ly silty CLAY with ne to coarse angu				ely 40% mate emoved befo	
Metho	d o	f Test:	Hydror	meter + P	re-sieve	Method	of Pretre	eatment:			Not requi	red	
	100					•							
	100												
	90					-							
	80	-									+H+		+11
8	70					200				4		_	-
90													
assi	60												
e P	50			1		-							
tag	40			-						+			+
											1 0 11112		
rcen	20		-0										411
Percentage Passing (%)	30	,	No.										
Percen	30		مممر										
Percen			- A										
Percen	10		~~										
Percen	20		2 0.006	6 0.02	0.06	0.2	0.6	2	6 20		60	200	600
Percen	10					Р	article Size	(mm)		Con		200	600
Percen	10			Medium	0.06 Coarse	Fine M	article Size		Medium	Coai	rse	200	
Percen	10	0.00				Fine M	article Size	(mm)		Coai	rse	LES BOUL	
Percen	10	0.00 CLAY	Fine 1	Medium (Coarse	Fine M	article Size edium Co AND	e (mm) parse Fine Sand By	Medium GRAVEL		cobb	LES BOUL	
Percen	20 10 0	0.00		SILT Silt by Dry Mass	Coarse	Fine M	article Size	e (mm) parse Fine Sand By Dry Mass	Medium	Size	rse	LES BOUL 2mm+ By Dry Mass	
Percen	200 100 0	O.00 CLAY Particle Size (mm)	Fine N	Medium (Coarse	Fine Mos Sieve Size (mm)	article Size edium Co AND Passing (%)	e (mm) parse Fine Sand By	Medium GRAVEL Sieve	Size	cobb	LES BOUL	
Percen	20 10 0	O.000 CLAY Particle Size (mm) O.0355	Passing (%)	SILT Silt by Dry Mass (%)	Coarse	Fine Mos Sieve Size (mm) 2.00	edium Co AND Passing (%)	e (mm) parse Fine Sand By Dry Mass	Medium GRAVEL Sieve (mn	Size n)	cobb	LES BOUL 2mm+ By Dry Mass	
Percen	200 100 0	Particle Size (mm) 0.0355 0.0254	Passing (%)	SILT Silt by Dry Mass	Coarse	Fine Mos Sieve Size (mm) 2.00 1.18	edium Co AND Passing (%) 100 92	e (mm) parse Fine Sand By Dry Mass	Medium GRAVEL Sieve (mm	Size	cobb	LES BOUL 2mm+ By Dry Mass	
Percen	200 100 C	0.000 CLAY Particle Size (mm) 0.0355 0.0254 0.0182	Passing (%) 53 48 43	SILT Silt by Dry Mass (%)	Coarse	Fine M. S. Sieve Size (mm) 2.00 1.18 0.600	article Size edium Co AND Passing (%) 100 92 84	Sand By Dry Mass (%)	Medium GRAVEL Sieve (mn	Size	cobb	LES BOUL 2mm+ By Dry Mass	
Percen	200 100 0	0.000 CLAY Particle Size (mm) 0.0355 0.0254 0.0182 0.0096	Passing (%)	SILT Silt by Dry Mass (%) 41 Clay by	Coarse	Fine Mos Sieve Size (mm) 2.00 1.18	edium Co AND Passing (%) 100 92	e (mm) parse Fine Sand By Dry Mass	Sieve (mn	Size	cobb	LES BOUL 2mm+ By Dry Mass	
Percen	200 100 C	0.000 CLAY Particle Size (mm) 0.0355 0.0254 0.0182	Passing (%) 53 48 43 37	SILT Silt by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425	article Size edium Co AND Passing (%) 100 92 84 80	Sand By Dry Mass (%)	Sieve (mn 300 12: 90 63	Size	cobb	2mm+ By Dry Mass (%)	
Percen	200 100 CC C	O.000 CLAY Particle Size (mm) O.0355 O.0254 O.0182 O.0096 O.0068	Passing (%) 53 48 43 37 33	SILT Silt by Dry Mass (%) 41 Clay by Dry Mass	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300	article Size edium Co AND Passing (%) 100 92 84 80 77	Sand By Dry Mass (%)	Sieve (mn 300 12: 90 63	Size	cobb	LES BOUL 2mm+ By Dry Mass	
Percen	200 100 CO	Particle Size (mm) 0.0355 0.0254 0.0182 0.0096 0.0068 0.0049	Passing (%) 53 48 43 37 33 30	SILT Silt by Dry Mass (%) 41 Clay by Dry Mass	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212	Passing (%) 100 92 84 80 77 73	Sand By Dry Mass (%)	Sieve (mn 300 12: 90 63 50 37.	Size	cobb	2mm+ By Dry Mass (%)	
Percen	200 100 CO	Particle Size (mm) 0.0355 0.0254 0.0182 0.0096 0.0068 0.0049 0.0032	Passing (%) 53 48 43 37 33 30 25	SILT Silt by Dry Mass (%) 41 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	article Size edium Co AND Passing (%) 100 92 84 80 77 73 70 62	s (mm) parse Fine Sand By Dry Mass (%)	Sieve (mn 300 129 90 63 50 37. 28 20 14	Size (1)	cobb	2mm+ By Dry Mass (%)	
Percen	200 100 CO	Particle Size (mm) 0.0355 0.0254 0.0182 0.0096 0.0068 0.0049 0.0032	Passing (%) 53 48 43 37 33 30 25	SILT Silt by Dry Mass (%) 41 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	Passing (%) 100 92 84 80 77 73 70	s (mm) parse Fine Sand By Dry Mass (%)	Sieve (mn 300 129 90 63 50 37. 28 20 14 10	Size	cobb	2mm+ By Dry Mass (%)	
Percen	200 100 CO	Particle Size (mm) 0.0355 0.0254 0.0182 0.0096 0.0068 0.0049 0.0032	Passing (%) 53 48 43 37 33 30 25	SILT Silt by Dry Mass (%) 41 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	article Size edium Co AND Passing (%) 100 92 84 80 77 73 70 62	s (mm) parse Fine Sand By Dry Mass (%)	Sieve (mn 300 129 90 63 50 37. 28 20 14	Size	cobb	2mm+ By Dry Mass (%)	

Page 3 of 10



Comments:

TEST REPORT





Contract Mallard Pass Solar Farm Serial No. 41612_1 **DETERMINATION OF PARTICLE SIZE DISTRIBUTION** Sample Borehole / Depth Description Remarks Reference Pit No. (m) Type Yellowish brown slightly sandy gravelly silty CLAY with occasional recently Approximately 35% material greater 0.00 active and decayed roots. Gravel is fine to coarse angular and subangular В than 2mm removed before test 0.25 Not required Method of Test: Hydrometer + Pre-sieve Method of Pretreatment: 100 90 80 Percentage Passing (%) 70 60 50 40 30 20 10 0 20 60 200 600 0.06 0.6 0.2 6 0.002 0.006 0.02 Particle Size (mm) Medium Coarse Medium Coarse Medium Coarse Fine Fine COBBLES BOULDERS CLAY GRAVEL SILT SAND 2mm+ By Silt by Sand By Sieve Size Sieve Size Particle **Dry Mass** Passing (%) **Dry Mass** Passing (%) Dry Mass Passing (%) (mm) (mm) Size (mm) Н (%) (%) (%) 300 2.00 0.0340 59 100 d 125 50 1.18 0.0245 53 93 0.600 90 0.0177 47 86 0 0.0094 39 Clay by 0.425 63 83 30 0.0067 34 **Dry Mass** 0.300 81 50 0.0048 30 (%) 0.212 79 37.5 0 28 0.0032 25 0.150 76 20 20 0.063 0.0015 18 70 14 Fines By Dry Mass (%) 10 6.3 70 <0.063mm 5 Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5 Method of test: BS1377: Part 2: 1990: 9.2,9.5 U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter Type of Sample Key:

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ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 01/11/2022



0998

Depth Pit No. Passing (%) Dry Passing (%) Dry Mass (%) Cular					olar Farm	1								
Depth Type Reference Description Remarks Description Remarks	erial No	о.	4161	2_1										
Pit No. (m) Type Reference					DETE	RMINA	TION OF	PARTICL	E SIZE DIST	FRIBUT	ION			
Pit No. (m) Type Reference Yellowish brown slightly gravelly slightly sandy sity CLAY with frequent recently active and decayed roots and plant material. Gravel is fine and 2mm removed before test: Particle Steep	Borehole	e /	Depth	San	nple			Descr	iption				Remarks	5
Method of Test: Hydrometer + Pre-sieve Method of Pretreatment: Not required	Pit No.		(m)	Type R	eference									
100 90 80 70 70 70 70 70 70 7				С		recently ac	tive and deca	yed roots and	plant material.	LAY with fr Gravel is f	requent line and			
90 80 80 70 80 80 80 80 80 80 80 80 80 80 80 80 80	Metho	od o	of Test:	Hydron	neter + Pr	re-sieve	Method	of Pretre	eatment:			Not requi	red	
90 80 70 70 80 70 80 70 80 70 80 80 80 80 80 80 80 80 80 80 80 80 80		100	2											
80 70 70 80 70 80 70 80 70 80 80 70 80 80 70 80 80 80 70 80 80 80 80 80 80 80 80 80 80 80 80 80								-						
Fine Pasting (%) Dry Mass (%) Passing (%) Dry Mass (%) D		90	0											
20 10 0.002 0.006 0.02 0.06 0.2 0.06 2 6 2 6 20 60 200 600 Fine Medium Coarse Fine Fine Fine Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine		80	0		-		1							1
20 10 0.002 0.006 0.02 0.06 0.2 0.06 0.2 0.6 2 6 20 60 200 600 Fine Medium Coarse Fine Fine Fine Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Fine Medium Coarse Fine F	8	70												1
20 10 0.002 0.006 0.02 0.06 0.2 0.06 0.2 0.6 2 6 20 60 200 600 Fine Medium Coarse Fine Fine Fine Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine Fine Medium Coarse Fine Fine Medium Coarse Fine F	90	, /			1									
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Particle Passing (%) Dry Mass Sieve Size (mm) Passing (%) Dry Mass (%)	P	20	0.00		Medium C		Fine M	article Size	(mm)	Medi	ium Coa	rse		
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<0.063mm 69	Pe	H y d r o m e t e	Particle Size (mm) 0.0343 0.0247 0.0178 0.0094 0.0067 0.0048 0.0032	Fine N Passing (%) 57 52 47 39 35 33 29	Silt by Dry Mass (%) Clay by Dry Mass (%)		Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150	article Size edium Co AND Passing (%) 100 98 96 95 92 85 79	Sand By Dry Mass (%)	Medi	Sieve Size (mm) 300 125 90 63 50 37.5 28	COBB	2mm+ By Dry Mass (%)	
<0.063mm 69	Pe	H y d r o m e t e	Particle Size (mm) 0.0343 0.0247 0.0178 0.0094 0.0067 0.0048 0.0032	Fine N Passing (%) 57 52 47 39 35 33 29	Silt by Dry Mass (%) Clay by Dry Mass (%)		Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150	article Size edium Co AND Passing (%) 100 98 96 95 92 85 79	Sand By Dry Mass (%)	Medi	Sieve Size (mm) 300 125 90 63 50 37.5 28	COBB	2mm+ By Dry Mass (%)	
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ethod of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5	Pe	H y d r o m e t e	Particle Size (mm) 0.0343 0.0247 0.0178 0.0094 0.0067 0.0048 0.0032	Fine N Passing (%) 57 52 47 39 35 33 29	Silt by Dry Mass (%) Clay by Dry Mass (%)		Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	Passing (%) 100 98 96 95 92 85 79 69 By Dry Mas	Sand By Dry Mass (%) 31	Medi	Sieve Size (mm) 300 125 90 63 50 37.5 28 20 14 10 6.3	COBB	2mm+ By Dry Mass (%)	

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Type of Sample Key: Comments:

TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 01/11/2022



Contract Mallard Pass Solar Farm 41612_1 Serial No. **DETERMINATION OF PARTICLE SIZE DISTRIBUTION** Sample Borehole / Depth Remarks Description Pit No. (m) Type Reference Brown slightly sandy gravelly silty CLAY with frequent recently active and 0.00 -Approximately 35% material greater D decayed roots and plant material. Gravel is fine to coarse angular and than 2mm removed before test 0.25 subangular limestone Not required Hydrometer + Pre-sieve Method of Pretreatment: Method of Test: 100 90 80 Percentage Passing (%) 70 60 50 40 30 20 10 0 20 60 200 600 0.06 0.2 0.6 6 0.002 0.006 0.02 Particle Size (mm) Medium Medium Coarse Fine Medium Coarse Fine Coarse Fine COBBLES BOULDERS CLAY SILT SAND GRAVEL 2mm+ By Silt by Sand By Sieve Size Sieve Size Particle Dry Mass **Dry Mass** Passing (%) Passing (%) **Dry Mass** Passing (%) (mm) (mm) Size (mm) Н (%) (%) (%) 2.00 300 0.0327 63 100 d 125 58 44 1.18 0.0237 96 0.600 90 0.0171 53 91 0 0.0091 44 0.425 63 88 Clay by 28 0.0066 38 **Dry Mass** 0.300 86 50 (%) 0.0047 34 0.212 83 37.5 0 28 0.0031 30 0.150 80 20 27 28 0.063 0.0015 72 14 Fines By Dry Mass (%) 10 6.3 <0.063mm 72 5 Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5 BS1377: Part 2: 1990: 9.2,9.5 Method of test: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter

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ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 01/11/2022



0998

Depth Sample Depth Pit No. Type Reference Description Remarks		0.	4161	2_1										
Pit No. (m) Type Reference					DET	ERMINA	TION OF	PARTICL	E SIZE DIS	TRIBUT	TION			
Pit No. (m) Type Reference	Borehole	e /	Depth	Sa	mple	I		Docor	intion				Remark	
Method of Test: Hydrometer + Pre-sieve Method of Pretreatment: Not required						1		Descr	ipuon				Kemark	
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r 0.0032 28 0.150 84 28		H y d r o m e	Particle Size (mm) 0.0343 0.0249 0.0179 0.0095 0.0068	Passing (% 62 53 48 39 35	Medium SILT Silt by Dry Mass (%) 53 Clay by Dry Mass	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300	edium Cc AND Passing (%) 100 99 98 94	Sand By Dry Mass (%)	Med	Sieve Size (mm) 300 125 90 63 50	COBB	2mm+ By Dry Mass	
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		H y d r o m e t	Particle Size (mm) 0.0343 0.0249 0.0179 0.0095 0.0068 0.0048	Passing (% 62 53 48 39 35 32	Medium SILT Silt by Dry Mass (%) 53 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212	Passing (%) 100 99 98 94 88	Sand By Dry Mass (%)	Med	Sieve Size (mm) 300 125 90 63 50 37.5	COBB	2mm+ By Dry Mass (%)	
14		H y d r o m e t	Particle Size (mm) 0.0343 0.0249 0.0179 0.0095 0.0068 0.0048	Passing (% 62 53 48 39 35 32 28	Medium SILT Silt by Dry Mass (%) 53 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150	Passing (%) 100 99 98 94 88 84	Sand By Dry Mass (%)	Med	Sieve Size (mm) 300 125 90 63 50 37.5 28 20	COBB	2mm+ By Dry Mass (%)	
Fines By Dry Mass (%)		H y d r o m e t	Particle Size (mm) 0.0343 0.0249 0.0179 0.0095 0.0068 0.0048	Passing (% 62 53 48 39 35 32 28	Medium SILT Silt by Dry Mass (%) 53 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	Passing (%) 100 99 98 94 88 84 77	Sand By Dry Mass (%)	Med	Sieve Size (mm) 300 125 90 63 50 37.5 28 20	COBB	2mm+ By Dry Mass (%)	
<0.063mm 77		H y d r o m e t	Particle Size (mm) 0.0343 0.0249 0.0179 0.0095 0.0068 0.0048	Passing (% 62 53 48 39 35 32 28	Medium SILT Silt by Dry Mass (%) 53 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	Passing (%) 100 99 98 94 88 84 77	Sand By Dry Mass (%)	Med	Sieve Size (mm) 300 125 90 63 50 37.5 28 20	COBB	2mm+ By Dry Mass (%)	
5		H y d r o m e t	Particle Size (mm) 0.0343 0.0249 0.0179 0.0095 0.0068 0.0048	Passing (% 62 53 48 39 35 32 28	Medium SILT Silt by Dry Mass (%) 53 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	Passing (%) 100 99 99 98 94 88 84 77	Sand By Dry Mass (%)	Med	Sieve Size (mm) 300 125 90 63 50 37.5 28 20 14	COBB	2mm+ By Dry Mass (%)	

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ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 01/11/2022



Contract **Mallard Pass Solar Farm** Serial No. 41612 1 **DETERMINATION OF PARTICLE SIZE DISTRIBUTION** Sample Borehole / Depth Description Remarks Reference Pit No. (m) Type Approximately 1% material greater than 0.00 -Firm yellowish brown slightly sandy silty CLAY with occasional recently 1 active roots and rare limestone fragments 2mm removed before test 0.25 Method of Pretreatment: Not required Method of Test: Hydrometer + Pre-sieve 100 90 80 Percentage Passing (%) 70 60 50 40 30 20 10 0 0.06 0.2 0.6 20 60 200 600 0.002 0.006 0.02 Particle Size (mm) Medium Coarse Fine Medium Coarse Fine Medium Coarse Fine COBBLES BOULDERS CLAY SAND GRAVEL SILT 2mm+ By Sand By Silt by Sieve Size Particle Sieve Size **Dry Mass** Passing (%) **Dry Mass** Passing (%) Dry Mass Passing (%) (mm) (mm) Size (mm) н (%) (%) (%) 2.00 300 0.0322 88 100 d 0.0229 85 39 1.18 125 100 0.0165 80 0.500 99 90 0 m 0.0087 73 Clay by 0.425 99 63 6 50 0.0063 68 **Dry Mass** 0.300 98 (%) 37.5 0.0045 64 0.212 97 0 e 28 0.150 59 0.0030 96 0.063 20 0.0015 53 55 94 14 Fines By Dry Mass (%) 10 6.3 <0.063mm 94 5 Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5 BS1377: Part 2: 1990: 9.2,9.5 Method of test: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter Type of Sample Key: Comments:

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ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 01/11/2022



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erial No.	4161	2_1										
			DET	ERMINA	TION OF	PARTICL	E SIZE DIST	RIBUTION	V			
Borehole /	Depth	Sar	mple			Descr	iption				Remarks	s
Pit No.	(m)	Type F	Reference						_			
	0.00 - 0.25	ı	-		tive and deca		itly sandy silty CL avel is fine and n				ely 10% mate emoved befo	
Method	of Test:	Hydroi	meter + P	re-sieve	Method	of Pretre	eatment:			Not requi	red	
Percentage Passing (%)	0											
1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.06		0.6 article Size edium Co	2 (mm)	6 2	20 Coa	60 rse COBB	200 UFS_BOULU	600 DERS
1	0 0 0				Fine Me	article Size	(mm)			rse	200 LES BOULI	
1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Medium (Coarse	Fine Me	article Size	(mm)	Medium GRAVEL		rse		
1 H	O O O O O O O O O O O O O O O O O O O	Fine I	SILT Silt by Dry Mass	Coarse	Fine Me	article Size edium Co AND	(mm) Parse Fine Sand By Dry Mass	Medium GRAVEL Siev (n	Coal	cobb	2mm+ By Dry Mass	
2 1	O O O O O O O O O O O O O O O O O O O	Fine I	SILT Silt by Dry Mass	Coarse	Fine Mo	article Size edium Co AND Passing (%)	(mm) Parse Fine Sand By Dry Mass	Medium GRAVEL Siev (n	Coal	cobb	2mm+ By Dry Mass	
1 H y d r o	O O O O O O O O O O O O O O O O O O O	Passing (%) 64 58 55	SILT Silt by Dry Mass (%)	Coarse	Fine Mo Sieve Size (mm) 2.00 1.18 0.600	article Size edium Co AND Passing (%) 100 99 98	(mm) Parse Fine Sand By Dry Mass	Medium GRAVEL Siev (n	re Size nm)	cobb	2mm+ By Dry Mass	
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H H y d d r o m e	O O O O O O O O O O O O O O O O O O O	Passing (%) 64 58 55 49 43	SILT Silt by Dry Mass (%) 42 Clay by Dry Mass	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300	Passing (%) 100 99 98 97 94	Sand By Dry Mass (%)	Medium GRAVEL Siev (n	Coal re Size nm) 800 125 90 63 50	cobb	2mm+ By Dry Mass	
H y d r o m	O O O O O O O O O O O O O O O O O O O	Passing (%) 64 58 55 49 43 42	SILT Silt by Dry Mass (%) 42 Clay by	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212	Passing (%) 100 99 98 97 94 87	Sand By Dry Mass (%)	Medium GRAVEL Siev (n	Coal re Size nm) 800 125 90 63 50 17.5	cobb	2mm+ By Dry Mass	
H y d r o m e t	O O O O O O O O O O O O O O O O O O O	Fine Passing (%) 64 58 55 49 43 42 38	Medium SILT Silt by Dry Mass (%) 42 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150	article Size edium Co AND Passing (%) 100 99 98 97 94 87 83	Sand By Dry Mass (%)	Medium GRAVEL Siev (n	Coal re Size nm) 800 125 990 63 50 17.5 28	cobb	2mm+ By Dry Mass (%)	
H y d r o m e t	O O O O O O O O O O O O O O O O O O O	Passing (%) 64 58 55 49 43 42	SILT Silt by Dry Mass (%) 42 Clay by Dry Mass	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212	Passing (%) 100 99 98 97 94 87	Sand By Dry Mass (%)	Medium GRAVEL Siev (n	Coal re Size nm) 800 125 90 63 50 17.5 28	cobb	2mm+ By Dry Mass (%)	
H y d r o m e t	O O O O O O O O O O O O O O O O O O O	Fine Passing (%) 64 58 55 49 43 42 38	Medium SILT Silt by Dry Mass (%) 42 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	Passing (%) 100 99 98 97 94 87 83 77	Sand By Dry Mass (%)	Medium GRAVEL Siev (n	Coal 300 (125 (125 (125 (125 (125 (125 (125 (125	cobb	2mm+ By Dry Mass (%)	
H y d r o m e t	O O O O O O O O O O O O O O O O O O O	Fine Passing (%) 64 58 55 49 43 42 38	Medium SILT Silt by Dry Mass (%) 42 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	article Size edium Co AND Passing (%) 100 99 98 97 94 87 83	Sand By Dry Mass (%)	Medium GRAVEL Siev (n	Coa 3000 125 990 663 550 77.5 228 220 114 110	cobb	2mm+ By Dry Mass (%)	
H y d r o m e t	O O O O O O O O O O O O O O O O O O O	Fine Passing (%) 64 58 55 49 43 42 38	Medium SILT Silt by Dry Mass (%) 42 Clay by Dry Mass (%)	Coarse	Sieve Size (mm) 2.00 1.18 0.600 0.425 0.300 0.212 0.150 0.063	Passing (%) 100 99 98 97 94 87 83 77	Sand By Dry Mass (%)	GRAVEL Siev (n	Coal 300 (125 (125 (125 (125 (125 (125 (125 (125	cobb	2mm+ By Dry Mass (%)	

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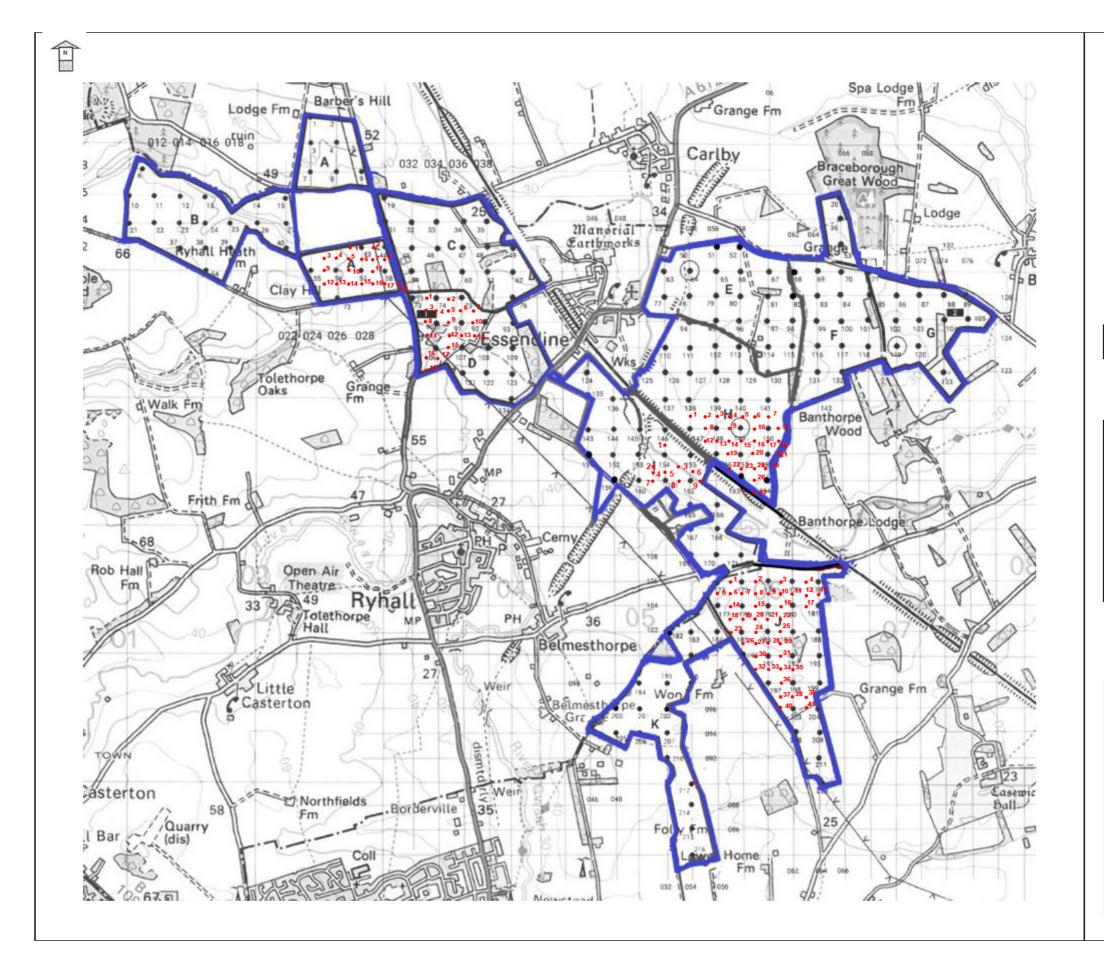
ISSUED BY SOIL PROPERTY TESTING LTD DATE ISSUED: 01/11/2022



Contract **Mallard Pass Solar Farm** Serial No. 41612_1 **DETERMINATION OF PARTICLE SIZE DISTRIBUTION** Depth Sample Borehole / Remarks Description Pit No. Reference (m) Type Yellowish brown slightly gravelly slightly sandy silty CLAY with occasional 0.00 -Approximately 20% material greater K recently active and decayed roots and plant material. Gravel is fine to than 2mm removed before test 0.25 coarse angular and subangular limestone Method of Pretreatment: Not required Hydrometer + Pre-sieve Method of Test: 100 90 80 Percentage Passing (%) 70 60 50 40 30 20 10 0 20 60 200 600 0.06 0.2 0.6 6 0.002 0.006 0.02 Particle Size (mm) Medium Coarse Medium Coarse Fine Medium Coarse Fine Fine COBBLES BOULDERS CLAY SAND GRAVEL SILT 2mm+ By Silt by Sand By Sieve Size Sieve Size Particle Dry Mass Dry Mass Passing (%) Passing (%) **Dry Mass** Passing (%) (mm) (mm) Size (mm) Н (%) (%) (%) 300 2.00 100 0.0334 69 d 125 47 1.18 97 0.0241 64 0.600 90 0.0174 57 93 0 m 0.0093 45 0.425 91 63 Clay by 24 e 0.0067 40 **Dry Mass** 0.300 88 50 t 0.0048 35 (%) 0.212 85 37.5 0 e 28 0.0033 32 0.150 82 20 29 0.063 0.0015 27 76 14 Fines By Dry Mass (%) 10 6.3 <0.063mm 76 5 BS1377: Part 1: 2016: 8.3 & 8.4.5 Method of Preparation: BS1377: Part 2: 1990: 9.2,9.5 Method of test: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter Type of Sample Key: Comments:

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Plan KCC3051/01A Auger Point Plan



Key
Boundary of Surveyed Area

KEY

Auger sample location
Topsoil texture sample
Soil Pit

PLAN Plan KCC3051/08

TITLE Auger Points Plan

SITE Mallard Pass

CLIENT LDA Design

NUMBER KCC3051/08 11/22hr

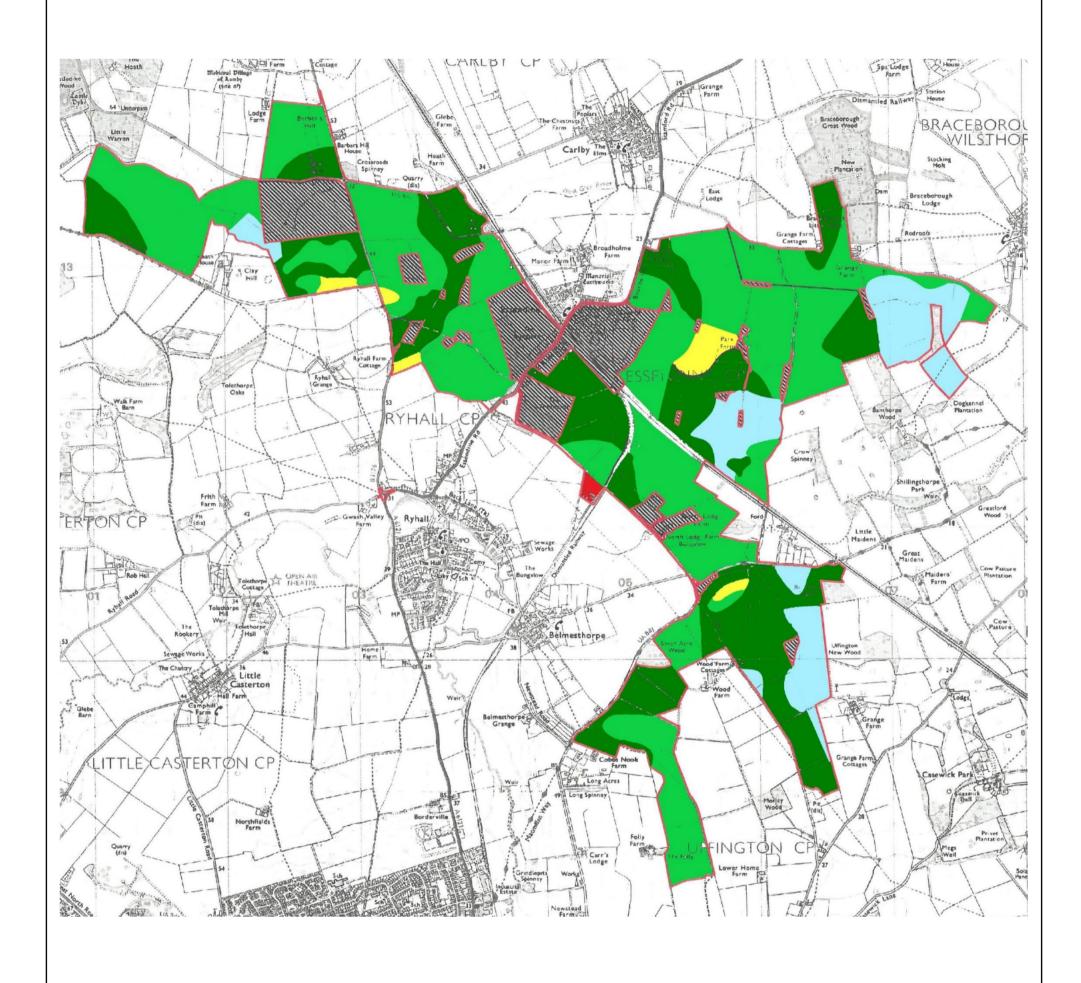
DATE November 2022 SCALE NTS

KERNON COUNTRYSIDE CONSULTANTS LTD GREENACRES BARN, PURTON STOKE, SWINDON, WILTSHIRE SN5 4LL Tel 01793 771 333 Email: info@kernon.co.uk

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Figure 12.1
ALC Across Order Limits





KEY		Ha	%	PLAN	Figure 12.1					
	Grade 1	0	0	TITLE	ALC Across Order Limits					
	Grade 2	100	11.7	SITE	Mallard Pass					
	Grade 3a	260	30.5	CLIENT	LDA Design					
	Grade 3b	439	51.5	NUMBER	KCC3051/06 11/22tk					
	Grade 4	18	2.1	DATE	November 2022 SCALE Not to Scale					
	Grade 5				KERNON COUNTRYSIDE CONSU	TANTELID				
	Non-agricultural				GREENACRES BARN, PURTON STO	KE, SWINDON	,			
	Urban	3	0.4		WILTSHIRE, SN5 4LL Tel 01793 771 333 Email: info@k					

32

Not surveyed (roads,

railways, verges etc)

3.8

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Figure 12.2

ALC Solar PV Site and Field Margins

82 KCC3051 ALC Nov 22





KEY		Ha	%	PLAN	Figure 12.2					
	Grade 1	0	0	TITLE	ALC Solar PV Site and Field Margins					
	Grade 2	35	6.6	SITE	Mallard Pass					
	Grade 3a	181	34.1	CLIENT	LDA Design					
	Grade 3b	297	55.9	NUMBER	KCC3051/07 11/22tk					
	Grade 4	18	3.4	DATE	November 2022	SCALE	Not to scale			
	Grade 5	0	0		KEDNON COUNTRYSIDE	CONCILI TANTE I TO				
	Non-agricultural	0	0		KERNON COUNTRYSIDE CONSULTANTS LTD GREENACRES BARN, PURTON STOKE, SWINDON,					
	Urban	0	0		WILTSHIRE, S Tel 01793 771 333 Email:					
	Not surveyed	0	0		This plan is reproduced from the under copyright license	ne Ordnance Survey				

