



# The Sizewell C Project

## 6.7 Volume 6 Sizewell Link Road Chapter 10 Soils and Agriculture Appendix 10A Sizewell link road Agricultural Land Classification Report

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Revision: 1.0  
Applicable Regulation: Regulation 5(2)(a)  
PINS Reference Number: EN010012

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May 2020

Planning Act 2008  
Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009



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## Executive Summary

An assessment of agricultural land quality, involving a desktop study and a detailed agricultural land classification (ALC) survey, has been undertaken to determine the quality of agricultural land at the proposed Sizewell link road for Sizewell C. The assessment was undertaken in accordance with the ALC system for England and Wales, October 1988 ('the ALC guidelines').

The detailed survey found agricultural land in Grades 2 (10.1ha), 3a (40.5ha) and 3b (27.7ha), along with an area of non-agricultural land (8.2ha). Grade 2 and 3a land is considered to be among the best and most versatile agricultural land in England and Wales. A total of 14.5ha was not surveyed.



## 1. Agricultural Land Classification

### 1.1 Introduction

1.1.1 This report presents an assessment of agricultural land quality (agricultural land classification, ALC) at the proposed Sizewell link road development (hereafter referred to as the proposed development) for Sizewell C. The purpose of this report is to present details of the agricultural land quality at the site. This report has been prepared by Arcadis on behalf of SZC Co.

1.1.2 The location and extent of the site is shown on **Figure 10.3.1** and **10.3.2** associated with the environmental statement chapter. The Sizewell link road comprises a new, 6.8 kilometre (km) single carriageway road which begins at the A12 south of Yoxford, bypasses Middleton Moor and Theberton before joining the B1122.

1.1.3 The site covers approximately 101.0 hectares (ha) of primarily agricultural land, as well as highway land.

1.1.4 The Sizewell link road has been split into six main sections as follows:

- Area 1 – from the A12 to Footpath E-344/013/0 and E584/016/A (land west of the East Suffolk line).
- Area 2 – from land west of the East Suffolk line to Littlemoor Road.
- Area 3 – from Littlemore Road to east of Garden House Farm (including link to B1122 west of Middleton Moor).
- Area 4 – from east of Garden House Farm to land to the west of Theberton.
- Area 5 – from land to the west of Theberton to the south of Theberton.
- Area 6 – from south of Theberton to the B1122 adjacent to Brown's Plantation.

1.1.5 When surveyed in July 2019 the site was mostly in use for arable production with smaller areas under pasture.

## 1.2 Agricultural land planning policy and context

1.2.1 This ALC assessment is consistent with the direction given by the National Planning Policy Framework<sup>1</sup> (NPPF). Paragraph 170 states of the NPPF:

*“Planning policies and decisions should contribute to and enhance the natural and local environment by: recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, Where significant development of agricultural land is demonstrated to be necessary, areas of poorer quality land should be preferred to those of a higher quality”.*

1.2.2 Agricultural land in England and Wales is graded between 1 and 5, depending on the extent to which physical or chemical characteristics impose long-term limitations on agricultural use. Grade 1 land is excellent quality agricultural land with very minor or no limitations to agricultural use, and Grade 5 is very poor quality land, with severe limitations due to adverse soil characteristics, relief, climate or a combination of these. Grade 3 land is subdivided into subgrade 3a (good quality land) and subgrade 3b (moderate quality land).

1.2.3 Grades 1, 2 and 3a are defined as the best and most versatile land.

1.2.4 The site falls within the administrative area for the Suffolk Coastal Local Plan. The core strategy for this district was adopted in July 2013. Until replaced by policies from new site allocation and area-specific policy documents<sup>2</sup>, the Council will continue to apply policy saved from the preceding Local Plan. However, Policy AP11: Agricultural Land and Commercial Woodlands, was not saved. In the absence of an extant local planning policy related to best and most versatile land, guidance reverts to the NPPF.

## 1.3 Agricultural Land Classification methodology

a) Ministry of Agriculture, Food and Fisheries Agricultural Land Classification system

1.3.2 The Ministry of Agriculture, Fisheries and Food (MAFF) ALC<sup>3</sup> system of grading land quality for use in land use planning purposes divides farmland

<sup>1</sup> National Planning Policy Framework. Department for Communities and Local Government, February 2019 <https://www.gov.uk/government/publications/national-planning-policy-framework--2>

<sup>2</sup> Suffolk Coastal Core Strategy Adopted July 2013 <http://www.eastsuffolk.gov.uk/planning/local-plans/suffolk-coastal-district-local-plan/>

<sup>3</sup> Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land. Ministry of Agriculture Fisheries and Food, October 1988. <http://archive.defra.gov.uk/foodfarm/landmanage/land-use/documents/alc-guidelines-1988.pdf>

into five grades according to the degree of limitation imposed upon land use by the inherent physical characteristics of climate, site and soils. As detailed above, Grade 1 land is of an excellent quality, whilst Grade 5 land has very severe limitations for agricultural use.

- 1.3.3 Accordingly, a detailed assessment of the proposal site has been undertaken using the MAFF revised guidelines and criteria for ALC published October 1988.
- 1.3.4 The detailed survey involved examination of the soil's physical properties at 93 locations on a 100m by 100m grid. The grid reference of the sample locations was recorded to enable these to be relocated for verification, if necessary.
- 1.3.5 At each location, the soil profile was examined to a maximum depth of approximately 1.2m by hand with the use of a 5cm diameter Dutch (Edleman) soil auger. A number of soil pits were excavated at selected locations with a spade in order to examine the physical soil profile characteristics, including subsoil structure, of the main representative soil types.
- 1.3.6 The soil profile at each sample location was described using the Soil Survey Field Handbook: Describing and Sampling Soil Profiles<sup>4</sup>. Each soil profile was ascribed an ALC grade following the MAFF ALC guidelines.
- 1.3.7 These MAFF guidelines require that the following factors be investigated:
- climate: average annual rainfall and accumulated temperature above 0°C between January and June;
  - site: gradient, micro relief and flooding;
  - soils: texture, structure, depth, stoniness, and chemical toxicity; and
  - interactive factors: soil wetness, soil droughtiness and liability to erosion.
- 1.3.8 To confirm soil texture, topsoil samples were collected from 8 auger locations and sent to an accredited laboratory for particle size distribution analysis. The data sheets are included as **Appendix 10A2** to this document.

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<sup>4</sup> Soil Survey Field Handbook: Describing and Sampling Soil Profiles' (Ed. J.M. Hodgson, Cranfield University, 1997).

b) [Natural England technical advice note 049](#)

1.3.9 Use of the ALC methodology is also supported by Natural England Technical Advice Note 049<sup>5</sup> (TIN049), published in 2012.

1.3.10 TIN049 describes a detailed ALC survey as having approximately one sample point per hectare. To achieve this sample density and to remove surveyor selection bias, as noted above, sample points were set at 100m intersections aligned with the national grid, located in the field by handheld GPS.

1.4 [Agricultural Land Classification assessment](#)

a) [Climate](#)

1.4.2 Climatological data for ALC are provided for 5km intersections of the National Grid by the Meteorological Office, in collaboration with the National Soil Resources Institute. The data from these points can be interpolated providing climate data for specific sites. Interpolated data for the proposal site is given in **Table 1.1**.

**Table 1.1: Sizewell link road ALC climate data**

Reference Point	National Grid Reference TM 407 702
Altitude (m)	14
Average annual rainfall (mm)	585
Accumulated temperature above 0°C (day degrees)	1427
Moisture deficit for wheat (mm)	124
Moisture deficit for potatoes (mm)	121
Field capacity days	107

1.4.3 The main parameters used in the assessment of an overall climatic limitation are average annual rainfall as a measure of overall wetness, and accumulated temperature above 0°C as a measure of the warmth in the growing season.

1.4.4 Climate does not impose an overall limitation on ALC grade at this site. Climate does, however, have an important influence on the interactive limitations of soil wetness and soil droughtiness. The site has both relatively low rainfall and a long growing season, acting to decrease the severity of any

<sup>5</sup> Agricultural Land Classification: protecting the best and most versatile agricultural land (TIN049). Natural England, 2012. <http://publications.naturalengland.org.uk/publication/35012>

potential soil wetness limitation, but increasing the severity of any potential soil droughtiness limitation.

**b) The site**

**1.4.5** The extent of the site is shown on **Figure A1**. The land lies between approximately 10m above ordnance datum (AoD) and 35m AoD. The topography is gently rolling. Gradient and microtopography do not limit ALC grade within the site.

**1.4.6** In the section from Fordley Road to Theberton (Area 4) the proposed development crosses a small tributary of the Minsmere River. This flows to the north-east through Middleton and is classed as a main river. The Environment Agency Flood Maps<sup>6</sup> do not show this land to be at risk from fluvial flooding with the exception of land along the line of the Fordley Road link.

**1.4.7** In Area 5 to the north-west of Theberton and south of Theberton the proposed development crosses other small tributaries of the Minsmere River (with the watercourse to the north-west of Theberton being classed as a main river). None of this land is shown to be at risk from fluvial flooding.

**1.4.8** It is not considered that flood risk limits land grade within the site.

**c) Soils and parent materials**

**1.4.9** The British Geological Survey Geology of Britain Viewer<sup>7</sup> shows the site to be underlain by the crag group which comprises quaternary sand. This is almost completely covered by drift deposits. Locations of drift deposits are detailed in **Table 1.2**.

**Table 1.2: Sizewell link road description of drift deposits**

Area	Location	Description of Drift Deposits
Area 1	From the A12 to Footpath E-344/013/0 and E584/016/A (land west of the East Suffolk line).	Lowerstoft Formation diamicton deposits.
Area 2	From land west of the East Suffolk line to Littlemoor Road.	Lowerstoft Formation diamicton deposits.

<sup>6</sup> Environment Agency Flood map for Planning. <http://apps.environment-agency.gov.uk/wiyby/37837.aspx>

<sup>7</sup> British Geological Survey Geology of Britain viewer. <http://www.bgs.ac.uk/data/mapViewers/home.html?src=topNav>



**NOT PROTECTIVELY MARKED**

Area	Location	Description of Drift Deposits
Area 3	From Littlemore Road to east of Garden House Farm (including link to B1122 west of Middleton Moor).	Lowestoft formation sands and gravels present on both sides of Fordley Road. Head deposits (clay, silt, sand and gravel) are present along the line of Fordley Road. Lowestoft formation diamicton deposits present elsewhere.
Area 4	From east of Garden House Farm to land west of Theberton.	Lowestoft formation sands and gravels and Head deposits (clay, silt, sand and gravel) are present along the line of Hawthorn Road and to the east of Plumtreehills Covert. Lowestoft formation diamicton deposits present elsewhere.
Area 5	From land to the west of Theberton to the south of Theberton.	Lowestoft formation sands and gravels and Head deposits (clay, silt, sand and gravel) are present along the line of Hawthorn Road and to the east of Plumtreehills Covert. Lowestoft formation diamicton deposits present elsewhere.
Area 6	From south of Theberton to the B1122 adjacent to Brown’s Plantation.	Lowestoft formation sands and gravels and Head deposits (clay, silt, sand and gravel) are present along the line of Hawthorn Road and to the east of Plumtreehills Covert. Lowestoft formation diamicton deposits present elsewhere.

**1.4.10** The main soil type present within the site is shown as being predominantly slowly permeable seasonally waterlogged clayey and fine loamy over clayey soil. These belong to the Ragdale Soil Association<sup>8</sup>. Typical profiles for these soils comprise dark greyish and mottled clay or clay loam topsoil overlying greyish brown to grey mottled subsoil (which can be calcareous). The presence of mottling (small patches of red/red-brown colour) are evidence of periodic waterlogging of these soils.

**1.4.11** The main land use on these soils where they occur in Eastern England is described as being winter cereals.

**1.4.12** In the western part of the site the soils are described as freely draining slightly acid but base-rich soils. These belong to the Melford Soil Association. Typical profiles for these soils comprise dark brown clay loam overlying yellowish brown to pale brown clay loam or clay which can be very calcareous at depth.

<sup>8</sup> A Soil Association represents a group of soil types which are typically found occurring together in the landscape.

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- 1.4.13 These soils are mapped as occurring in a strip to the east of the A12 (Area 1), along the line of Fordley Road (between Areas 3 and 4), south-west of Anneson’s Corner (Area 4) and west of Brown’s Plantation (Area 6).
- 1.4.14 The main land use on these soils is described as being cereals, sugar beet and other arable crops.
- 1.4.15 Soil material found at the site during field survey work has been categorised in **Table 1.3**.

**Table 1.3: Sizewell link road description of soil texture.**

Area	Location	Description of Soil Texture.
Area 1	From the A12 to Footpath E-344/013/0 and E584/016/A (land west of the East Suffolk line).	Medium to heavy textured clay loams overlying heavy textured clays.
Area 2	From land west of the East Suffolk line to Littlemoor Road.	Heavy textured clay loams and light textured sandy loams overlying heavy textured clays.
Area 3	From Littlemore Road to east of Garden House Farm (including link to B1122 west of Middleton Moor).	Predominantly heavy textured clay loams and light textured sandy loams overlying heavy textured clays with some medium textured clay loams overlying medium textured clay loams (sandy).
Area 4	From east of Garden House Farm to land west of Theberton.	Heavy textured clay loams and light textured sandy loams overlying heavy textured clays as well as lightly textured loams overlying lightly textured sands.
Area 5	From land to the west of Theberton to the south of Theberton.	Medium to heavy textured clay loams and light textured sandy loams overlying heavy textured clays.
Area 6	From south of Theberton to the B1122 adjacent to Brown’s Plantation.	Medium textured clay loams overlying heavy textured clays or lightly textured sands as well as lightly textured loams overlying lightly textured sands.

- 1.4.16 Stone content often rises in the lower subsoil but the topsoil content of larger stones (above 2cm) is not enough to limit ALC grade.

d) **Interactive factors**

- 1.4.17 One of two typical soil profile found at the site has a clay loam topsoil over a clayey subsoil. The clayey subsoil impedes the drainage of excess water down through the soil profile, therefore trapping water in the topsoil after rainfall and leaving the land vulnerable to persistent structural damage either from livestock hooves, vehicle wheels and cultivators.
- 1.4.18 Avoiding or minimising this potential damage can limit land management options. However due to the relatively low rainfall the land is only occasionally

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wet (Wetness Class II or III) rather than seasonally waterlogged. Soil wetness limitations at the site are dependent on the topsoil clay content and the presence of carbonates. A higher clay content increases the vulnerability of topsoil to structural damage when wet, giving rise to a stronger soil wetness limitation. The presence of calcium carbonate in the topsoil can mitigate this limitation as it acts to improve soil structural development.

- 1.4.19 The slowly permeable clayey subsoil has a poor structure that limits root penetration as well as drainage. As a result, the volume of water held by the soil that is available to the plant is further limited.
- 1.4.20 These soil profiles are mostly limited to ALC Grade 3a to 3b by soil wetness and/or droughtiness with just two limited to ALC Grade 2.
- 1.4.21 In addition, a similar but less common profile found at the site, comprises light to medium textured sandy loams over heavy textured clays. The heavy textured subsoil means the profile has the same wetness limitations as above (Wetness Class I, II and III) however the light to medium textured topsoil instead means the soils are limited to Grades 2 to 3b by droughtiness and not wetness limitations.
- 1.4.22 The second typical profile found at the site was a light textured loamy sands or sandy loams overlying loamy sand and sandy subsoils. The sandy subsoils allow free draining of water therefore remaining free of wetness limitations (Wetness Class I).
- 1.4.23 The permeable sandy subsoil has a moderate to good structure that does not limit root penetration. However, the free draining nature of the soils limits the volume of water held by the soil that is available to the plant.
- 1.4.24 These soil profiles are limited by droughtiness to ALC Grades 3a to 3b.
- 1.4.25 In addition, a similar profile found at the site consists of medium textured clay loams overlying medium textured sandy and clay loams and lightly textured sands. The free draining nature of the subsoil means profiles are very rarely waterlogged (Wetness Class II) and are instead limited by droughtiness as the free draining nature of the soils and low rainfall limits the volume of water available to the plant.
- 1.4.26 These soil profiles are limited by droughtiness to ALC Grade 2.
- e) [Agricultural Land Classification grade distribution](#)
- 1.4.27 An area of the site is classed as non-agricultural land made up of a selection of roads including the A12, B1122, Fordley Road, Littlemoor Road, Moat

Road and areas of woodland. The remainder of the site is agricultural land in Grades 2, 3a and 3b.

1.4.28 The extent of ALC grades across the site shown on **Figure A1**, with area measurements given in **Table 1.4**.

**Table 1.4: ALC grade distribution**

ALC Grade	Area (ha)	Area (%)
2 – very good quality agricultural land	10.1	10.00
3a – good quality agricultural land	40.5	40.10
3b – moderate quality agricultural land	27.7	27.43
Non-agricultural	8.2	8.12
Not surveyed	14.5	14.35
Total	101.0	100.00

1.4.29 Grade 2 land covers an area of 10.1ha (approximately 10%) and is found across the site in areas 1, 3, 4 and 5, and is characterised by three different profiles on this site.

1.4.30 The first Grade 2 profile is found in Area 1 comprises slightly calcareous medium textured clay loam topsoils overlying heavy textured clayey subsoils, the grade is limited by droughtiness and wetness with the land rarely waterlogged (Wetness Class II).

1.4.31 The second and third Grade 2 profiles are found in Areas 3, 4 and 5 comprises either; slightly calcareous light to medium textured sandy loam topsoils overlying heavy textured clayey subsoils, or medium textured clay loams overlying lightly textured sands. Both soil profiles are limited by droughtiness with the land very rarely waterlogged (Wetness Class I).

1.4.32 Grade 3a land covers an area of 40.5ha (approximately 40% of the site) and is present across the site in all areas and is characterised by three soil profiles.

1.4.33 The first Grade 3a profile found in all areas of the site, comprises slightly calcareous medium textured clay loam topsoils overlying heavy textured clayey subsoils, profiles are rarely waterlogged (Wetness Class II). The grade is limited by either droughtiness or droughtiness and wetness.

1.4.34 The second Grade 3a profile is found in Area 4 and comprises light to medium textured sandy loams overlying heavy textured clays, profiles are rarely or seasonally waterlogged (Wetness Class II/III) and limited by droughtiness.



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- 1.4.35 The third Grade 3a profile is found in Area 6 and comprises light textured loamy sands overlying lightly textured sands which are very rarely waterlogged (Wetness Class I). These profiles are limited by droughtiness.
- 1.4.36 Grade 3b land comprises 27.7ha in total (approximately 27% of the site) and is present in all areas of the site except for Area 5 and is characterised by 3 profiles.
- 1.4.37 The first Grade 3b profile is found in Areas 1, 2, 3 and 4 and comprises slightly calcareous medium textured clay loam topsoils overlying heavy textured clayey subsoils, the grade is limited by droughtiness and/or wetness with the land seasonally waterlogged (Wetness Class III).
- 1.4.38 The second Grade 3b profile is found in Area 2 and comprises slightly calcareous light to medium textured sandy loam topsoils overlying heavy textured clayey subsoils, profiles are limited by droughtiness with the land seasonally waterlogged (Wetness Class III).
- 1.4.39 The third Grade 3b profile is found in Areas 4 and 5 and comprises light textured loamy sands overlying lightly textured sands which are very rarely waterlogged (Wetness Class I). These profiles are limited by droughtiness.
- 1.4.40 An area of 14.5ha (approximately 14% of the site) remains un-surveyed due to no land access.
- 1.4.41 Non-agricultural land makes up 8.2ha (approximately 8% of the site) this is made up a selection of roads including the A12, B1122, Fordley Road, Littlemoor Road, Moat Road and some some farm tracks. The remainder of the non-agricultural land is made up of small areas of woodland located across the site.
- 1.5 **Conclusions**
- 1.5.1 A detailed survey of the proposed Sizewell link road found agricultural land in Grades 2 (10.1ha), 3a (40.5ha) and 3b (27.7ha), along with an area of non-agricultural land (8.2ha). Grade 2 and 3a land is considered to be among the best and most versatile agricultural land in England and Wales.



## APPENDIX 10A1: AUGER LOG AND KEY

Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix		Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes				
		Sqr.	E	N			Top	Btm	Thick	Colour	Form	Colour	Form	Colour	%			Type	MBw					MBp	Gd	WC	Gw	Grade	Limitation						
1	1	TM	38619	67117	37	Wheat	0	30	30	10YR32						MCL	2	HR						3.98	-16.068	3a	III	3a	3a	Wet/Drought	Massive Massive Massive Massive				
							30	62	32	10YR43	M	10YR46	M	10YR51	Y	C			P	S	Y	Y													
							62	98	36	10YR54	M	10YR58			Y	C	2	CH	P	C	Y	Y													
							98	120	22	Gley15N	C	10YR56			Y	C	20	CH	P	V	Y														
2	2	TM	38719	67117	39	Wheat	0	30	30	10YR32						MCL								-10.6	-16.41	3a	III	3a	3a	Wet/Drought	SAB Massive Massive Granular STOP @ Compaction				
							30	56	26	2.5Y52	M	Gley15N	M	10YR56	Y	C	10	CH	P	V	Y	Y													
							56	80	24	Gley14N	F	10YR58			Y	C	15	CH	P	V	Y	Y													
							80	100	10	Gley14N	F	10YR58			Y	C	25	CH	G	V	Y														
							IMP																												
3	3	TM	38683	67185	42	Wheat	0	36	36	10YR33						MCL	2	HR		S				50.736	-7.402	2	III	3a	3a	Wet	Granular Platy Coarse Gran Platy Granular				
							36	46	10	10YR44	F	10YR56			Y	C	2	HR	P	S	Y														
							46	52	6	10YR54					Y	C	2	CH	G	C															
							52	68	16	10YR54					Y	C	2	CH	P	V	Y	Y													
							68	120	52	10YR62					Y	C	5	CH	G	V															
4	4	TM	38706	67321	32	Wheat	0	30	30	10YR32						MCL	2	HR		S	Y			26.59	-16.2	3a	III	3a	3a	Drought / Wet	Coarse SAB Massive Massive SAB Massive				
							30	64	34	2.5Y53	M	10YR56			Y	C			P	S	Y	Y													
							64	76	12	2.5Y53	M	10YR56			Y	C	10	CH	P	V	Y														
							76	110	34	2.5Y54					Y	SC	5	CH	G	C															
							110	120	10	Gley15N	M	2.5Y54			Y	C	5	CH	P	C	Y														
5	5	TM	38819	67117	35	Wheat	0	32	32	10YR32						MCL	1	HR			Y			4.648	-15	3a	III	3a	3a	Drought / Wet	Coarse SAB Massive Fine Gran STOP @ Compaction				
							32	98	66	10YR54	C	10YR56	M	Gley15N	Y	C	1	HR	P	C	Y	Y													
							98	110	12	WhiteN8.5					Y	CL	20	CH	G	V															
							IMP																												
6	6	TM	38819	67117	35	Wheat	0	30	30	10YR32						MCL								4.4	-16.41	3a	III	3a	3a	Drought / Wet	SAB Massive Massive				
							30	56	26	2.5Y52	M	Gley15N	M	10YR56	Y	C	10	CH	P	V	Y	Y													
							56	120	64	Gley14N	F	10YR58			Y	C	15	CH	P	V	Y	Y													
7	7	TM	38809	67163	40	Wheat	0	30	30	5Y41						MCL	2	HR		S	Y			25.845	3.698	2	II	2	2	Drought / Wet	Granular Medium SAB Coarse Gran Fine Gran Massive				
							30	52	22	2.5Y53	M	2.5Y51			Y	C	2	CH	G	V	Y														
							52	62	10	2.5Y53	F	2.5Y51				C	5	CH	G	V															
							62	76	14	10YR56						S	1	HR	G	C															
							76	120	44	2.5Y41	M	2.5Y56			Y	C	10	CH	P	V	Y														
8	8	TM	38819	67317	33	Wheat	0	30	30	10YR32						MCL	2	HR		S	Y			27.92	-16.2	3a	III	3a	3a	Drought / Wet	Coarse SAB Massive Massive SAB				
							30	64	34	2.5Y53	M	10YR56			Y	C			P	S	Y	Y													
							64	84	20	2.5Y53	M	10YR56			Y	C	10	CH	P	V	Y	Y													
							84	120	36	2.5Y54					Y	SC	5	CH	G	C															
9	9	TM	38919	67117		Wheat	0	28	28	10YR32						MCL								1.466	-19.504	3a	III	3a	3a	Drought / Wet	SAB Massive Massive Massive				
							28	44	16	10YR56					Y	C	2	HR	P	S	Y	Y													
							44	72	28	2.5Y52	M	Gley15N	M	10YR56	Y	C	10	HR	P	V	Y	Y													
							72	120	48	Gley14N	F	10YR58			Y	C	15	CH	P	V	Y	Y													

Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix		Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes						
		Sqr.	E	N			Top	Bttm	Thick	Colour	Form	Colour	Form	Colour	%			Type	MBw					MBp	Gd	WC	Gw	Grade	Limitation								
10	10	TM	38933	67158	36	Wheat	0	30	30	10YR43						MCL	2	HR		S				34.251	7.422	2	II	2	2	Drought / Wet	Granular Medium SAB Coarse Gran Fine Gran Coarse Gran STOP @ Gravel						
							30	52	22	10YR44	M	10YR68	M	Gley16N	Y	C	5	HR	G	S	Y																
							52	66	14	10YR53	F	10YR68	M	Gley16N	N	C	5	CH	G	C	Y																
							66	74	8	10YR56						S	1	CH	G	V																	
							74	100	26	10YR53	F	10YR68	M	Gley16N	Y	C	5	CH	G	V																	
							IMP																														
11	11	TM	39019	67217	41	Wheat	0	30	30	10YR32						HCL	2	HR		S				-15.26	-6.56	3a	II	3a	3a	Drought	SAB Medium SAB Granular						
							30	50	20	2.5YR53	M	10YR56			Y	C	2	CH	G	S	Y																
							50	60	10	Gley15N	M	10YR56			Y	C	10	CH	G	V																	
							IMP																														
12	12	TM	39091	67225	35	Wheat	0	32	32	10YR43						HCL	2	HR		S				-12.908	-0.668	3a	II	3a	3a	Drought	Coarse Gran Medium SAB Coarse Gran STOP @ Compaction						
							32	48	14	10YR54	F	5YR56	M	Gley16N	Y	C	5	HR	G	C	Y																
							48	66	18	10YR54	C	10YR56	M	Gley16N	Y	C	10	CH	G	V	Y																
							IMP																														
13	13	TM	39242	67251	39	Wheat	0	28	28	10YR43						HCL	2	HR		S				-19.712	-11.432	3a	II	3a	3a	Drought / Wet	Coarse Gran Med SAB Coarse Gran STOP @ Compaction						
							28	34	6	10YR54	F	5YR56	M	Gley16N	Y	C	2	HR	G	C	Y																
							34	58	24	10YR54	C	10YR56	M	Gley16N	Y	C	10	CH	G	V	Y																
							IMP																														
14	14	TM	39328	67359	43	Wheat	0	32	32	10YR43						HCL	2	HR		C				-3.368	6.572	3a	II	3a	3a	Drought / Wet	Coarse Gran Medium SAB Coarse Gran STOP @ Compaction						
							32	46	12	10YR54	F	5YR56	M	Gley16N	Y	C	5	HR	G	V	Y																
							46	74	28	10YR54	C	10YR56	M	Gley16N	Y	SCL	10	CH	G	V	Y																
							IMP																														
15	15	TM	39429	67335	40	Wheat	0	32	32	10YR43						HCL	2	HR		C				-0.308	11.252	3a	II	3a	3a	Drought / Wet	Coarse Gran Medium SAB Coarse Gran STOP @ Compaction						
							32	46	12	10YR54	F	5YR56	M	Gley16N	Y	CL	5	HR	G	V	Y																
							46	74	28	10YR54	C	10YR56	M	Gley16N	Y	C	10	CH	G	V	Y																
							IMP																														
16	17	TM	39517	67437	37	Wheat	0	26	26	10YR43						HCL	2	CH		S	Y			-12.592	1.808	3a	III	3b	3b	Wet	Granular Massive Coarse Gran STOP @ Compaction						
							26	42	16	10YR53	C	10YR56	M	Gley16N	Y	C	2	CH	P	C	Y	Y															
							42	70	28	10YR54	C	10YR56	M	Gley16N	Y	C	10	CH	G	V	Y																
							IMP																														
17	18	TM	39637	67441	36	Wheat	0	24	24	10YR43						HCL	5	HR		S				-15.174	-0.774	3a	III	3b	3b	Wet	Coarse Gran Massive Coarse Gran STOP @ Compaction						
							24	42	18	10YR53	C	10YR56	M	Gley16N		C	1	CH	P	C	Y	Y															
							42	70	28	10YR54	C	10YR56	M	Gley16N	Y	C	10	CH	G	V	Y																
							IMP																														
18	19	TM	39742	67553	41	Wheat	0	24	24	10YR43						HCL	5	HR		S				-39.348	-35.208	3b	III	3b	3b	Drought / Wet	Coarse Gran Massive						
							24	40	16	10YR53	C	10YR56	M	Gley16N		C	1	CH	P	C	Y	Y															



Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix		Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes
		Sqr.	E	N			Top	Btm	Thick	Colour	Form	Colour	Form	Colour	%			Type	MBw					MBp	Gd	WC	Gw	Grade	Limitation		
							40	52	12	10YR54	C	10YR56	M	Gley16N	Y	C	10	CH	G	V	Y										Coarse Gran STOP @ Compaction
19	20	TM	39828	67535	39	Wheat	0	22	22	10YR43						HCL	5	HR		S										Coarse Gran Massive Coarse Gran STOP @ Compaction	
							22	38	16	10YR53	C	10YR56	M	Gley16N		C	1	CH	P	C	Y	Y									
							38	52	14	10YR54	C	10YR56	M	Gley16N	Y	C	10	CH	G	V	Y										
							IMP																								
20	21	TM	39919	67517	36	Wheat	0	30	30	10YR32						HCL				S										SAB Massive Massive Massive	
							30	56	26	10YR56					Y	C	2	HR	P	S	Y	Y									
							56	92	36	2.5Y52	M	Gley15N	M	10YR56	Y	C	10	HR	P	V	Y	Y									
							92	120	28	Gley14N	F	10YR58			Y	C	15	CH	P	V	Y										
21	22	TM	39919	67617	31	Wheat	0	24	24	10YR32						HCL				S										SAB Massive Massive Coarse SAB Massive	
							24	50	36	10YR56					Y	C	2	HR	P	S	Y	Y									
							50	70	20	2.5Y52	M	Gley15N	M	10YR56	Y	C	10	HR	P	V	Y	Y									
							70	100	30	10YR56					Y	SC	10	CH	M	C											
							100	120	20	Gley14N	F	10YR58			Y	C	15	CH	P	V	Y										
22	23	TM	39983	67534	29	Wheat	0	35	35	10YR32						HCL				S										SAB Massive Massive Massive	
							35	55	22	10YR56					Y	C	2	HR	P	S	Y	Y									
							55	92	37	2.5Y52	M	Gley15N	M	10YR56	Y	C	10	HR	P	V	Y	Y									
							92	120	28	Gley14N	F	10YR58			Y	C	15	CH	P	V	Y										
23	24	TM	40019	67617	36	Wheat	0	26	26	10YR32						HCL				S										SAB Massive Massive Massive	
							26	56	30	10YR56					Y	C	2	HR	P	S	Y	Y									
							56	76	20	2.5Y52	M	Gley15N	M	10YR56	Y	C	10	HR	P	V	Y	Y									
							76	120	44	Gley14N	F	10YR58			Y	C	15	CH	P	V	Y	Y									
24	25	TM	40119	67517	35	Wheat	0	30	30	10YR32						HCL				S										SAB Massive Massive Massive	
							30	56	26	10YR56					Y	C	2	HR	P	S	Y	Y									
							56	76	20	2.5Y52	M	Gley15N	M	10YR56	Y	C	10	HR	P	V	Y	Y									
							76	120	44	Gley14N	F	10YR58			Y	C	15	CH	P	V	Y	Y									
25	26	TM	40238	67459	35	Sugar Beet	0	36	36	10YR43						SL	5	HR		S										Granular Coarse Gran STOP @ COMPACTION	
							36	66	30	10YR56					Y	C	10	CH	G	V	Y										
							IMP																								
26	27	TM	40319	67417	31	Sugar Beet	0	30	30	10YR32						HCL	2	HR		S										Coarse SAB Massive Massive Granular Massive	
							30	58	28	10YR44					Y	SCL	5	HR	P	S	Y	Y									
							58	84	26	2.5Y53	M	10YR58	M	Gley16N	Y	C	15	CH	P	V	Y	Y									
							84	108	24	10YR58					Y	S			M	S											
							108	120	12	2.5Y43	M	10YR58	M	Gley16N	Y	C	15	CH	P	V											

Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix		Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes				
		Sqr.	E	N			Top	Btm	Thick	Colour	Form	Colour	Form	Colour	%			Type	MBw					MBp	Gd	WC	Gw	Grade	Limitation						
27	29	TM	40425	67418	35	Sugar Beet	0	36	36	10YR43						SL	1	HR		S				21.206	1.11	2	II	1	2	Drought	Med Gran Coarse Gran Massive Massive				
							36	58	22	10YR43					C	C	1	CH	G	C															
							58	78	20	10YR44	C	7.5YR56			C	C	2	CH	P	V	Y	Y													
							78	120	42	10YR52	C	10YR56	C	Gley15N	Y	C	5	CH	P	V	Y	Y													
28	30	TM	40519	67417	30	Wheat	0	22	22	10YR32						HCL	2	HR		S				-16.354	-9.754	3a	III	3b	3b	Wet	Fine SAB Med SAB Med SAB Coarse Gran STOP @ Compaction				
							22	40	18	10YR44						SCL	5	HR	G	S	Y														
							40	50	10	2.5Y53	M	10YR58	M	Gley16N	Y	C	15	CH	G	V															
							50	82	32	10YR58						S			M	S															
							IMP																												
29	31	TM	40546	67434	29	Wheat	0	28	28	10YR32						SL	2	HR		S				-56.736	-53.736	4	II	1	4	Drought	Granular Massive STOP @ Gravel				
							28	44	16	10YR44						C	5	CH	P	V	Y	Y													
							IMP																												
30	32	TM	40719	67417	28	Wheat	0	30	30	10YR32						HCL	2	HR		S				-23.495	-16.32	3b	III	3b	3b	Drought / Wet	Coarse SAB Massive Coarse SAB STOP @ Gravel				
							30	65	35	10YR54	F	7.5YR56	M	Gley16N	Y	C	10	CH	P	V	Y	Y													
							65	80	15	2.5Y63	C	10YR56	C	Gley16N	Y	C	25	CH	M	V	Y														
							IMP																												
31	33	TM	40719	67417	23	Wheat	0	34	34	10YR32						HCL	1	HR		S				-1.17	-14.466	3a	III	3b	3b	Wet	V Coarse SAB Massive Massive STOP @ Gravel				
							34	66	32	10YR44	C	10YR52	C	10YR56	Y	C	2	HR	P	S	Y	Y													
							66	110	44	2.5Y52	C	Gley16N	F	10YR58	Y	C	10	CH	P	V	Y	Y													
							IMP																												
32	36	TM	40716	67321	29	Wheat	0	22	22	10YR43						SL	2	CH		S				-31.798	-19.438	3b	III	2	3b	Drought	Granular Granular Massive STOP @ Gravel				
							22	32	10	10YR32						CL	2	CH	G	C	Y														
							32	66	34	2.5Y63	C	10YR56	C	Gley16N	Y	C	5	CH	P	V	Y	Y													
							IMP																												
33	37	TM	40904	67414	26	Wheat	0	30	30	10YR32						SL	2	CH		S				-40.75	-32.05	3b	III	2	3b	Drought	Granular Massive Massive STOP @ Gravel				
							30	40	10	10YR44	F	7.5YR58				C	1	CH	P	C	Y														
							40	60	20	10YR44	F	10YR56	F	2.5Y46	Y	C	10	CH	P	C	Y	Y													
							IMP																												
34	38	TM	40986	67390	25	Sugar Beet	0	20	20	10YR43						SL	5	HR		VS				-5.82	-32.24	3b	III	2	3b	Drought	Granular Massive Massive Massive				
							20	30	10	10YR32						C	2	HR	P	S	Y														
							30	74	44	10YR56	M	10YR58				SL	1	HR	P		Y	Y													
							74	120	46	2.5Y52	M	10YR56	M	Gley16N	Y	C	5	CH	P	C	Y	Y													
35	39	TM	41019	67417	28	Sugar Beet	0	30	30	10YR42						HCL	1	HR		S				4.43	-15.774	3a	III	3b	3b	Wet	Coarse SAB Massive Massive Massive				
							30	58	28	10YR44	F	10YR56				C	1	CH	P	S	Y	Y													
							58	90	32	10YR54	M	Gley15N	F	10YR56	Y	C	5	CH	P	C	Y	Y													
							90	120	30	2.5Y52	M	10YR56				C	20	CH	P	V															

Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix		Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes					
		Sqr.	E	N			Top	Bttm	Thick	Colour	Form	Colour	Form	Colour	%			Type	MBw					MBp	Gd	WC	Gw	Grade	Limitation							
36	40	TM	41019	67517	22	Sugar Beet	0	26	26	10YR42						HCL	1	HR						2.486	-17.766	3a	III	3b	3b	Wet	Coarse SAB Massive Massive Massive					
							26	54	28	10YR44	F	10YR56	F	10YR56	Y	C	1	CH	P	S	Y	Y														
							54	82	28	10YR54	M	Gley15N	F	10YR56	Y	C	5	CH	P	C	Y	Y														
							82	120	38	2.5Y52	M	10YR56	F	10YR56	Y	C	20	CH	P	V																
37	41	TM	41039	67691	27	Wheat	0	24	24	10YR43						HCL	2	HR		VS				-45.604	-40.324	3b	III	3b	3b	Drought / Wet	Granular Massive Massive STOP @ Gravel					
							24	32	8	10YR44						C	2	CH	P	C	Y															
							32	54	22	10YR54	F	7.5YR58	C	10YR51	Y	C	10	CH	P	V	Y	Y														
							IMP																													
38	42	TM	41066	67751	24	Wheat	0	26	26	10YR43						HCL	2	HR		VS				-43.212	-36.792	3b	III	3b	3b	Drought / Wet	Granular Massive Massive STOP @ Gravel					
							26	34	8	10YR44						C	2	CH	P	C	Y															
							34	44	22	10YR54	F	7.5YR58	C	10YR51	Y	C	10	CH	P	V	Y															
							IMP																													
39	43	TM	41019	67817	21	Wheat	0	30	30	10YR32						HCL	2	HR		VS				3.155	-17.4	3a	III	3b	3b	Wet	SAB Massive Massive Massive					
							30	55	25	10YR56						C	2	HR	P	S	Y	Y														
							55	75	20	2.5Y52	M	Gley15N	M	10YR56	Y	C	10	HR	P	V	Y	Y														
							75	120	45	10YR14N	F	10YR58	M	10YR56	Y	C	15	CH	P	V	Y	Y														
40	44	TM	41019	67917	21	Wheat	0	34	34	10YR32						HCL	1	HR						6.242	-13.878	3a	II	3a	3a	Drought / Wet	SAB Massive Massive Massive					
							34	48	14	10YR46						C	1	HR	P		Y															
							48	72	24	2.5Y53	F	10YR56	M	Gley15N	Y	C	2	CH	P	C	Y	Y														
							72	120	48	2.5Y42					Y	C	10	CH	P	V	Y	Y														
41	45	TM	41019	68017		Wheat	0	28	28	10YR32						HCL	1	HR						3.392	-16.728	3a	II	3a	3a	Drought / Wet	SAB Massive Massive Massive					
							28	54	26	2.5Y54						C	2	CH	P	C	Y	Y														
							54	88	34	2.5Y53	F	10YR56	M	Gley15N	Y	C	2	CH	P	C	Y	Y														
							88	120	32	2.5Y42					Y	C	10	CH	P	V	Y															
42	46	TM	41019	68117		Wheat	0	30	30	10YR32						HCL	1	HR						4.37	-15.75	3a	II	3a	3a	Drought / Wet	SAB Massive Massive Massive					
							30	60	30	2.5Y54						C	2	CH	P	C	Y	Y														
							60	86	26	2.5Y53	F	10YR56	M	Gley15N	Y	C	2	CH	P	C	Y	Y														
							86	120	34	2.5Y42					Y	C	10	CH	P	V	Y															
43	47	TM	41119	68117		Wheat	0	32	32	10YR32						HCL	1	HR						5.348	-14.722	3a	II	3a	3a	Drought / Wet	SAB Massive Massive Massive					
							32	82	50	2.5Y54						C	2	CH	P	C	Y	Y														
							82	106	24	2.5Y53	F	10YR56	M	Gley15N	Y	C	2	CH	P	C	Y															
							106	120	14	2.5Y42					Y	C	10	CH	P	V	Y															
44	48	TM	41064	68035	23	Wheat	0	22	30	10YR43						HCL	2	HR		VS				3.714	-4.088	3a	II	3a	3a	Drought / Wet	Granular Massive					
							30	54	24	10YR44						C	1	HR	P	C	Y															

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		Sqr.	E	N			Top	Btm	Thick	Colour	Form	Colour	Form	Colour	%			Type	MBw					MBp	Gd	WC	Gw	Grade	Limitation		
							54	90	36	10YR54	F	7.5YR58	C	10YR51	Y	C	10	CH	P	V	Y										Massive Granular
							90	120	30	10YR52					Y	C	10	CH	P	V											
45	49	TM	41219	68017		Wheat	0	30	30	10YR32						HCL	2	HR													SAB Massive SAB Granular
							30	85	55	2.5Y54						C	10	CH	P		Y	Y									
							85	100	15	10YR44	M	7.5YR46				C	2	CH	G	C	Y										
							100	120	20	10YR58						S	10	CH	G	V											
46	50	TM	41109	67336	22	Sugar Beet	0	26	26	10YR43						HCL	2	HR		VS											Granular Massive Massive Massive
							26	42	16	10YR43						C	2	HR	P	S	Y	Y									
							42	80	38	2.5Y43	C	10YR56	C	Gley16N	Y	C	5	CH	P	C	Y	Y									
							80	120	40	10YR41	C	2.5Y56	C	Gley16N	Y	C	10	CH	P	V	Y										
47	51	TM	41219	67317	20	Wheat	0	26	26	10YR42						HCL	1	HR													Coarse SAB Massive Massive V Coarse Gran
							26	56	30	10YR44	F	10YR56				C	1	CH	P	S	Y	Y									
							56	84	28	10YR54	M	Gley15N	F	10YR56	Y	C	5	CH	P	C	Y	Y									
							84	120	36	2.5Y52	M	10YR56			Y	C	20	CH	G	V											
48	52	TM	41273	67319	19	Wheat	0	30	30	10YR43						HCL	5	HR		VS											Granular STOP @ Gravel
							IMP																								
49	53	TM	41449	67271	7	Onions?	0	20	20	10YR53						SL	2	HR		VS											Granular Granular Coarse Gran
							20	106	86	10YR43						SL	5	HR	G												
							106	120	14	10YR46						SC	1	HR	G												
50	54	TM	41419	67217	9	Wheat	0	36	36	10YR32						MCL	1	HR													Coarse SAB Coarse SAB Medium SAB
							36	60	24	10YR43						SCL	1	HR	M												
							60	120	60	10YR44						LS			M												
51	55	TM	41542	67244	14	Beans	0	24	24	10YR32						MCL	2	HR		VS											Medium SAB Massive Massive Massive STOP @ Compaction
							24	42	18	10YR43						C	2	HR	P	S											
							42	74	32	10YR44	F	5YR56				C	5	CH	P	C	Y	Y									
							74	100	26	10YR44	C	10YR56			Y	C	10	CH	P	V	Y	Y									
							IMP																								
52	57	TM	41656	67247		Beans	0	32	32	10YR33						SL	5	HR		VS											Granular Coarse Gran Granular Granular
							32	46	14	10YR33						C	5	HR	G												
							46	74	28	10YR43						SCL	1	HR	G												
							74	120	46	10YR46						S	1	HR	G												



Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix		Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes					
		Sqr.	E	N			Top	Btm	Thick	Colour	Form	Colour	Form	Colour	%			Type	MBw					MBp	Gd	WC	Gw	Grade	Limitation							
53	58	TM	41619	67117		Beans	0	32	32	10YR32						HCL	2	CH	P	S	Y	Y	7.114	-15.104	3a	III	3b	3b	Wet	Coarse SAB Massive Massive V C Gran						
							32	68	36	2.5Y53	F	10YR56	F	10YR56	Y	C	2	CH	P	S	Y	Y														
							68	108	40	2.5Y52	C	Gley15N	F	10YR56	Y	C	10	CH	P	V	Y	Y														
							108	120	12	Gley14N					Y	C	30	CH	G	V																
54	59	TM	41719	67217	14	Beans	0	34	34	10YR32						MCL	2	HR					62.68	6.148	2	I	1	2	Drought	Fine SAB Coarse Gran Granular						
							34	94	60	10YR44						SCL	2	HR	G																	
							94	120	26	10YR56						SCL			G																	
55	60	TM	41760	67216	10	Beans	0	38	38	10YR33						MCL	5	CH					61.679	5.24	2	I	1	2	Drought	Granular Granular Coarse Gran						
							38	74	36	10YR34						SCL	5	CH	G																	
							74	120	46	10YR43						SCL	1	HR	G																	
56	61	TM	41844	67170	18	Beans	0	22	22	10YR43						HCL	2	HR		VS			-49.024	-46.024	3b	III	3b	3b	Drought / Wet	Granular Massive Massive STOP @ Gravel						
							22	34	12	2.5Y43	F	7.5YR58	M	Gley15N	Y	C	1	CH	P	C	Y															
							34	50	16	2.5Y43	M	7.5YR58	M	Gley15N	Y	C	5	CH	P	V	Y	Y														
							IMP																													
57	62	TM	41919	67117	16	Beans	0	30	30	10YR32						HCL	2	HR					5.95	-16.548	3a	III	3b	3b	Wet	Coarse SAB Massive Massive V C Gran						
							30	58	28	2.5Y53	F	10YR56	F	10YR56	Y	C	2	CH	P	S	Y	Y														
							58	98	40	2.5Y52	C	Gley15N	F	10YR56	Y	C	10	CH	P	V	Y	Y														
							98	120	22	Gley14N					Y	C	5	CH	M	V																
58	63	TM	42005	67069	20	Beans	0	18	18	10YR32						HCL	5	HR		VS			-35.518	-32.518	3b	III	3b	3b	Drought / Wet	Granular Medium SAB Coarse Gran STOP @ Gravel						
							18	26	8	10YR54	F	7.5YR58			Y	C	1	CH	G	VS	Y															
							26	46	20	10YR54	M	Gley16N	M	Gley15N	Y	C	5	CH	G	C	Y															
							IMP																													
59	64	TM	42146	67015	25	Wheat	0	22	22	10YR32						HCL	5	HR		VS			-41.674	-31.654	3b	III	3b	3b	Drought / Wet	Granular Massive Massive STOP @ Gravel						
							22	40	18	10YR54	F	7.5YR58			Y	C	1	CH	P	S	Y	Y														
							40	62	22	10YR54	M	Gley16N	M	Gley15N	Y	C	5	CH	P	C	Y	Y														
							IMP																													
60	65	TM	42087	66965	17	Wheat	0	32	32	10YR43						HCL	2	HR		VS			29.178	-15.346	3a	II	3a	3a	Drought / Wet	Granular Massive Massive Granular						
							32	58	26	2.5Y43	F	7.5YR58	M	Gley15N	Y	C	1	CH	P	C	Y	Y														
							58	88	30	2.5Y43	M	7.5YR58	M	Gley15N	Y	C	5	CH	P	V	Y	Y														
							88	120	32	2.5Y43	M	7.5YR58	M	Gley15N	Y	C	5	CH	G	V	Y															
61	66	TM	42219	66917		Wheat	0	32	32	10YR33						SL	2	CH		VS			-0.08	-21.504	3a	III	2	3a	Drought	Granular Massive Granular Massive						
							32	66	34	2.5Y43	C	Gley16N	F	10YR56	Y	CL	2	CH	P	C	Y	Y														
							66	72	6	White					Y	CL	80	CH	G	V	Y															
							72	86	12	10YR56	C	Gley16N			Y	C	10	CH	P	V	Y															

Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix		Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes
		Sqr.	E	N			Top	Btm	Thick	Colour	Form	Colour	Form	Colour	%			Type	MBw					MBp	Gd	WC	Gw	Grade	Limitation		
							86	120	34	10YR16N	F	10YR56			Y	C	5	CH	P	V	Y			21.848	-26.352	3a	III	2	3a	Drought	Massive
62	67	TM	42350	66912	20	Wheat	0	18	18	10YR33						SL	2	CH		S											Coarse Gran
							18	38	20	2.5Y43	C	Gley16N	F	10YR56	Y	CL	1	CH	P	C	Y	Y									Massive
							38	44	6	White					Y	CL	80	CH	G	V	Y									Granular	
							44	74	30	2.5Y52	M	Gley16N	F	10YR56	Y	C	10	CH	P	V	Y	Y								Massive	
							74	120	46	10YR56	M	Gley16N			Y	SL			G	V										Coarse Gran	
63	68	TM	42419	66817	15	Wheat	0	28	28	10YR32						HCL	2	HR						19.716	-17.636	3a	II	3a	3a	Drought / Wet	Coarse SAB
							28	52	24	2.5Y44					Y	C	2	CH	P	C	Y	Y								Massive	
							52	92	40	2.5Y53	C	Gley15N	M	2.5Y56	Y	C	10	CH	P	V	Y	Y								Massive	
							92	120	28	2.5Y53	C	Gley15N	M	2.5Y56	Y	C	25	CH	G	V	Y									V C Gran	
64	72	TM	42731	66698	11	Beans	0	40	40	10YR33						LS	5	HR		VS				-20.13	-35.73	3b	I	1*	3b	Drought	Granular
							40	70	30	10YR44						LS	1	HR	G											Granular	
							70	120	50	10YR46						S	2	HR	G											Granular	
65	73	TM	42719	66617	7	Beans	0	34	34	10YR33						LS	2	HR		S				-21.541	-38.112	3b	I	1*	3b	Drought	Granular
							34	64	30	10YR44						LS	2	HR	G											Granular	
							64	94	30	10YR46						S	1	HR	G											Granular	
							94	120	26	2.5Y66						S			G											Granular	
66	74	TM	42819	66617	17	Beans	0	28	28	10YR33						LS	5	HR		S				-30.12	-41.04	3b	I	1*	3b	Drought	Granular
							28	64	36	10YR44						LS	5	HR	G											Granular	
							64	94	30	10YR46						S	5	HR	G											Granular	
							94	110	16	2.5Y66						S	5	HR	G											Granular	
							IMP																							STOP @ Gravel	
67	75	TM	42819	66717	4		0	30	30	10YR32						LS	2	HR						-2.904	-35.6	3b	I	1*	3b	Drought	Fine SAB
							30	82	52	10YR43						LS	2	HR	G											Granular	
							82	112	30	10YR22						LS			G											Granular	
							112	120	8	10YR54						S			G											Granular	
68	77	TM	42919	66617	12		0	28	28	10YR32						SL	2	HR						2.836	-17.048	3b	I	1	3b	Drought	Medium SAB
							28	62	34	10YR44						SL	2	HR	M		Y									Coarse SAB	
							62	120	58	10YR56						LS			M		Y									Medium SAB	
69	78	TM	42919	66517	16		0	32	32	10YR33						SL	1	HR		VS				14.492	-5.688	2	I	1	2	Drought	Granular
							32	50	18	10YR34						SL	2	HR	G											Coarse Gran	
							50	92	42	10YR34						C	2	HR	M		Y									Coarse SAB	
							92	100	8	10YR43	M	10YR54				C	5	CH	M	V	Y									Coarse SAB	
							100	120	20	10YR44						C	5	HR	M	S	Y									Coarse SAB	
70	79	TM	42919	66417			0	34	34	10YR33						SL	1	HR		VS				13.474	-7.324	2	I	1	2	Drought	Granular
							34	50	16	10YR43						SL	5	HR	G		Y									Coarse SAB	

Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix		Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes							
		Sqr.	E	N			Top	Btm	Thick	Colour	Form	Colour	Form	Colour	%			Type	MBw					MBp	Gd	WC	Gw	Grade	Limitation									
							50	94	44	10YR43					5			HR																				
		TM	43019	65817		22 Grazing	0	30	30	10YR42						C	2	HR	M														Coarse SAB Coarse SAB					
							50	94	44	10YR43					C	5	HR	M																				
							94	120	26	10YR44					C	2	HR	M																				
71	94	TM	43019	65817		22 Grazing	0	30	30	10YR42						MCL									4.916	-15.384	3a	II	2	3a	Drought	Coarse SAB Massive Massive Massive						
							30	48	18	2.5Y53	C	10YR56				C	1	CH	P	S	Y	Y																
							48	78	30	2.5Y54	M	Gley16N	C	10YR56	Y	C	5	CH	P	C	Y	Y																
							78	120	42	Gley110Y	M	Gley16N	F	10YR56	Y	C	15	CH	P	V	Y																	
72	95	TM	43019	65717		21 Grazing	0	28	28	10YR42						MCL								4	-16.096	3a	II	2	3a	Drought	Coarse SAB Massive Massive Massive							
							28	54	26	2.5Y53	C	10YR56				C			P		Y	Y																
							54	82	28	2.5Y54	M	Gley16N	C	10YR56	Y	C	2	CH	P	C	Y	Y																
							82	120	38	Gley110Y	M	Gley16N	F	10YR56	Y	C	10	CH	P	V	Y																	
73	96	TM	43119	65717		20 Grazing	0	28	28	10YR42						HCL	1	HR		S	Y	Y		2.892	-17.268	3a	II	2	3a	Drought	Coarse SAB Massive Massive Massive							
							28	58	30	2.5Y53	C	10YR56				C	2	HR	P	C	Y	Y																
							58	76	18	2.5Y54	M	Gley16N	C	10YR56	Y	C	2	CH	P	C	Y	Y																
							76	120	44	Gley110Y	M	Gley16N	F	10YR56	Y	C	15	CH	P	V	Y																	
74	97	TM	43185	65545		10 Corn	0	30	30	10YR42						SL	2	HR		VS				7.162	-9.924	2	II	2	2	Drought / Wet	Granular Coarse SAB Massive Massive							
							30	64	34	2.5Y53	C	10YR56				C	2	HR	M	S	Y																	
							64	100	36	2.5Y54	M	Gley16N	C	10YR56	Y	C	2	HR	P	C	Y	Y																
							100	120	20	Gley110Y	M	Gley16N	F	10YR56	Y	C	15	CH	P	V	Y																	
75	98	TM	43219	65617		14 Corn	0	30	30	10YR32						SL	2	HR						12.022	-8.92	2	I	1	2	Drought	SAB Granular Massive Massive							
							30	62	32	10YR43						SL	5	HR	G																			
							64	100	36	2.5Y54	M	Gley16N	C	10YR56	Y	C	2	HR	P	C	Y	Y																
							100	120	20	Gley110Y	M	Gley16N	F	10YR56	Y	C	15	CH	P	V	Y																	
76	99	TM	43219	65517		Wheat	0	34	34	10YR42						MCL	2	HR						42.559	7.844	2	I	1	2	Drought	Fine SAB SAB SAB Granular							
							34	60	26	10YR43						MCL	1	HR	G																			
							60	90	30	10YR33						SL	2	HR	M																			
							90	120	30	10YR44						LS			G																			
77	100	TM	43319	65517		14 Wheat	0	30	30	10YR42						MCL	2	HR						3.5	-17.4	3a	III	3a	3a	Drought / Wet	SAB Massive Massive Massive							
							30	50	20	10YR54	M	Gley16N	M	10YR56	Y	C	2	HR	P	C	Y	Y																
							50	80	30	2.5Y53	M	10YR58	F	2.5Y34	Y	C	15	CH	P	V	Y	Y																
							80	120	40	2.5Y52	F	10YR56	M	Gley14N	Y	C	50	CH	P	V																		
78	101	TM	43419	65517		16 Wheat	0	32	32	10YR42						MCL	2	HR						10.214	-16.048	3a	III	3a	3a	Drought / Wet	SAB Massive Massive Massive							
							32	62	30	10YR54	F	10YR56				C	2	HR	P	C	Y	Y																
							62	97	35	2.5Y53	M	10YR56	F	2.5Y34	Y	C	10	CH	P	V	Y	Y																
							97	120	23	2.5Y52	F	10YR58	M	Gley14N	Y	C	15	CH	P	V	Y																	

Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix Colour	Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes								
		Sqr.	E	N			Top	Bttm	Thick		Form	Colour	Form	Colour			%	Type					MBw	MBp	Gd	WC	Gw	Grade	Limitation									
79	102	TM	43519	65517	11	Wheat	0	12	12	10YR32					MCL				S				4.832	-11.728	3a	I	1	3a	Drought	SAB SAB Fine SAB Fine Gran Granular								
							12	26	14	10YR32					MCL	5	HR	G																				
							26	56	30	10YR46					SL	2	HR	G																				
							56	106	50	10YR56					S	2	HR	G			Y																	
							106	120	14	2.5Y76					S			G																				
80	103	TM	43519	65417	8	Wheat	0	30	30	10YR32					MCL	2	HR		S				16.035	-22.02	3a	I	1	3a	Drought	Coarse SAB Massive Massive SAB Granular								
							30	50	20	10YR43					C	5	CH	P	V	Y																		
							50	92	42	10YR54	F	5YR46			C	20	CH	P	V	Y																		
							92	114	22	10YR54	F	5YR46	M	2.5Y68	SC	5	CH	G	C	Y																		
							114	120	6	10YR66					S			G																				
81	104	TM	43619	65417	7	Wheat	0	30	30	10YR32					SL	2	HR						-15.472	-15.216	3a	I	1	3a	Drought	SAB SAB Granular STOP @ Gravel								
							30	66	36	10YR44					SL	2	HR	M																				
							66	90	24	10YR42					S	2	HR	G																				
							IMP																															
82	105	TM	43619	65517	12	Wheat	0	40	40	10YR32					SL	1	HR						-2.5375	-18.3	3a	I	1	3a	Drought	SAB Granular Granular Granular								
							40	70	30	10YR46					LS	2	HR	G																				
							70	95	25	10YR56					S	2	HR	G																				
							95	120	25	2.5Y76					S	1	HR	G																				
83	106	TM	43719	65417		Onions	0	32	32	10YR33					SL	1	HR						-1.823	-22.348	3a	I	1	3a	Drought									
							32	82	50	10YR66					LS	2	HR	G																				
							82	120	38	10YR66					S	1	HR	G																				
84	107	TM	43719	65517		Wheat	0	34	34	10YR32					SL	1	HR						-7.93	-24.276	3a	I	1	3a	Drought									
							34	64	30	10YR46					LS	2	HR	G																				
							64	96	32	10YR56					S	2	HR	G																				
							96	120	24	2.5Y76					S	1	HR	G																				
85	108	TM	43819	65417	6	Onions	0	34	34	10YR32					SL	5	HR						-10.476	-27.336	3a	I	1	3a	Drought									
							34	62	28	10YR44					LS	2	HR	G																				
							62	104	42	2.5Y64					S			G																				
							104	120	16	2.5Y74					S			G																				
86	109	TM	43819	65517	7	Wheat	0	42	42	10YR32					LS	2	HR						-16.026	-34.424	3b	I	1*	3b	Drought									
							42	76	34	10YR46					LS	2	HR	G																				
							76	120	44	10YR58					S			G																				
87	110	TM	43913	65423	8	Potatoes	0	38	38	10YR33					LS	2	HR						-46.844	-42.464	3b	I	1*	3b	Drought									
							38	54	16	10YR34					LS	5	HR	G																				
							54	76	22	10YR46					S	10	HR	G																				

Point ID	Old Point ID	Grid ref.			Alt	Land use	Depth (cm)			Soil matrix	Mottle 1		Mottle 2		Gley	Texture	Stones		SUBS STR	Calc.	Mn C	SPL	Drought			Wet		Classification		Point notes	
		Sqr.	E	N			Top	Btm	Thick IMP	Colour	Form	Colour	Form	Colour			%	Type					MBw	MBp	Gd	WC	Gw	Grade	Limitation		
88	111	TM	44019	65317	13	Wheat	0	20	20	10YR33						MCL	1	HR					-0.43	-20.73	3a	II	2	3a	Drought	STOP @ Gravel	
							20	50	30	10YR54	M	10YR56			C	1	CH	P	C	Y	Y										
							50	100	50	2.5Y53	F	10YR58	F	Gley16N	C	5	CH	P	V	Y	Y										
							100	120	20	2.5Y53	F	2.5Y66			C	20	CH	P	V	Y	Y										
89	112	TM	44013	65416	8	Potatoes	0	36	36	10YR33						SL	2	HR					-5.493	-21.516	3a	I	1	3a	Drought		
							36	68	32	10YR34						LS	1	HR	G												
							68	96	28	10YR46	M	10YR34				S	1	HR	G												
							96	120	24	10YR46						S	1	HR	G												
90	114	TM	44119	65217	4	Wheat	0	38	38	10YR32						SL	2	HR			Y		-1.76	-28.718	3a	I	1	3a	Drought		
							38	68	30	10YR46						LS	2	HR	M												
							68	98	30	10YR56						LS	1	HR	G												
							98	120	22	2.5Y76						S	1	HR	G												
91	116	TM	44219	65117	8	Sugar Beet	0	38	38	10YR33						SL	1	HR					1.168	-19.312	3a	I	1	3a	Drought		
							38	72	34	10YR66						LS	2	HR	G												
							72	92	20	10YR56						C	2	HR	P												
							92	120	28	10YR66						S	1	HR	G												
92	118	TM	44319	65017	10	Sugar Beet	0	38	38	10YR33						SL	2	HR					3.892	-19.898	3a	I	1	3a	Drought		
							38	68	30	10YR46						LS	2	HR	G												
							68	90	22	10YR56						LS	1	HR	G												
							90	120	30	10YR66						S	1	HR	G												
93	119	TM	44419	64917	10	Sugar Beet	0	22	22	10YR43						MCL				S			3.505	-26.2	3a	II	2	3a	Drought		
							22	52	30	10YR43						C	5	CH	P	C	Y	Y									
							52	80	28	2.5Y64	F	10YR44			C	25	CH	P	V	Y	Y										
							80	120	40	2.5Y63					C	40	CH	G	V	Y	Y										

## Auger Log key

### Depth - Top

xx Underlining denotes depth to the top of a slowly permeable layer

Land use	Mottle 1,2 - Form	Texture	Limitations
ARA Arable	FF Few Feint	CS Coarse Sand	NN None
CER Cereal	FD Few Distinct	MS Medium sand	OC Overall climate
WHT Wheat	FP Few Prominent	FS Fine Sand	AE Aspect
BAR Barley	CF Common Feint	LCS Loamy Coarse Sand	EX Exposure
MZE Maize	CD Common Distinct	LMS Loamy Medium Sand	FR Frost risk
OAT Oats	CP Common Prominent	LFS Loamy Fine Sand	GR Gradient
OSR Oilseed rape	MF Many Feint	CSL Coarse Sandy Loam	MR Microrelief
LIN Linseed	MD Many Distinct	MSL Medium sandy loam	FL Flood risk
FBE Field beans	MP Many Prominent	FSL Fine Sandy Loam	TX Texture
POT Potatoes	VF Very many Feint	CSZL Coarse Sandy Silt Loam	DP Soil depth
SBT Sugar beet	VD Very many Distinct	MSZL Medium Sandy Silt Loam	CH Chemical
BRA Brassicas	VP Very many Prominent	FSZL Fine Sandy Silt Loam	WE Wetness
FOD Fodder crops		ZL Silt Loam	WK Workability
FRT Soft and top fruit		SCL Sandy Clay Loam	DR Droughtiness
HRT Horticultural crops		MCL Medium Clay Loam	ER Erosion risk
PAS Pasture		HCL Heavy Clay Loam	WD Wetness/Droughtiness
LEY Ley grass		MZCL Medium Silty Clay loam	ST Topsoil stoniness
PGR Permanent pasture		HZCL Heavy Silty Clay Loam	
RGR Rough grazing		SC Sandy Clay	
SCR Scrub		ZL Silty Clay	
HTH Heathland		C Clay	
BOG Bog or marsh		P Peat	
DCW Deciduous Woodland		SP Sandy Peat	
CFW Coniferous woodland		LP Loamy Peat	
PLO Ploughed		PL Peaty Loam	
STB Crop stubble		PS Peaty Sand	
FLW Fallow (inc. set aside)		MZ Marine Light Silts	
SAS Set aside (where known)		IMP Impenetrable to roots	
OTH Other			

### Stones - Type

HR	All hard rocks and stones
MSST	Soft, medium or coarse grained sandstone
SI	Soft weathered igneous or metamorphic rock
SLST	Soft oolitic or dolomitic limestone
FSST	Soft, fine grained sandstone
ZR	Soft, argillaceous or silty rocks
CH	Chalk or chalk stones
GH	Gravel composed of non-porous (hard) stones
GS	Gravel composed of porous (soft) stones

### Subs Str (subsoil structural condition)

G	Good
M	Moderate
P	Poor

### Calcareousness

N	Non-calcareous (<0.5% CaCO <sub>3</sub> )
VS	Very slightly calcareous (0.5 - 1% CaCO <sub>3</sub> )
S	Slightly calcareous (1 - 5% CaCO <sub>3</sub> )
M	Moderately calcareous (5 - 10% CaCO <sub>3</sub> )
V	Very calcareous (>10% CaCO <sub>3</sub> )
Y	Calcareous (>1% CaCO <sub>3</sub> )

### Mn C (ferrimanganous concretions)

F	Few
C	Common
M	Many
V	Very many
Y	Common or greater



## APPENDIX 10A2: PARTICLE SIZE DISTRIBUTION DATA SHEETS





# Analysis Results (SOIL)

**Customer** ARCADIS (UK) LIMITED  
THE MILL  
BRINSCOMBE PORT  
STROUD  
GL5 2QG

**Distributor** ARCADIS (UK) LTD  
THE MILL  
BRINSCOMBE PORT  
BRINSCOMBE  
STROUD  
GLOS  
GL5 2QG

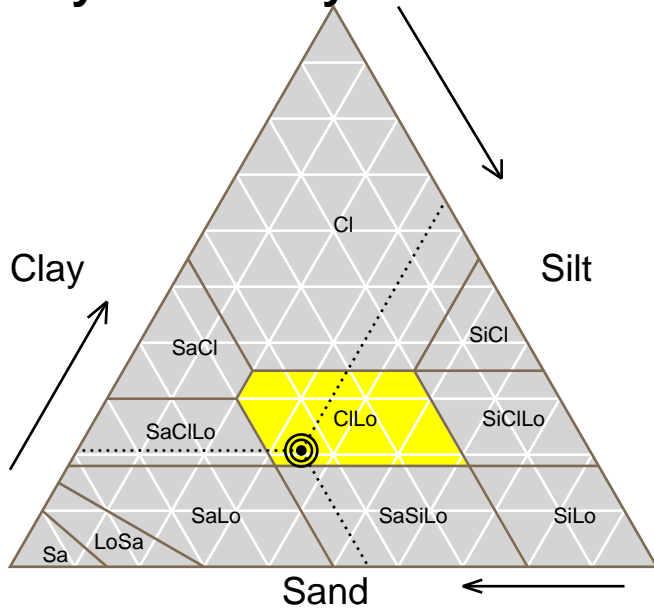
**Sample Ref** SLR 10 TOPSOIL H1

**Date Received** 30/07/2019 ( Date Issued: 05/08/2019 )

**Sample No** E337879/13

**Crop**

## Physical Analysis



Analysis	Result (%)
Sand	44.59
Silt	34.65
Clay	20.76
Very Fine Sand	6.47
Fine Sand	15.73
Medium Sand	18.91
Coarse Sand	3.48
Very Coarse Sand	< 0.01
Stones >2mm	2.20
Soil Type	CI Lo Clay Loam

Property	Assessment
Available Water	Medium to High
Drainage Rate	Medium to Slow
Inherent Fertility	Medium to High
Potential C.E.C.	Medium to High
Leaching Risk	Moderate to Low
Warming Rate	Medium



# Analysis Results (SOIL)

**Customer** ARCADIS (UK) LIMITED  
THE MILL  
BRINSCOMBE PORT  
STROUD  
GL5 2QG

**Distributor** ARCADIS (UK) LTD  
THE MILL  
BRINSCOMBE PORT  
BRINSCOMBE  
STROUD  
GLOS  
GL5 2QG

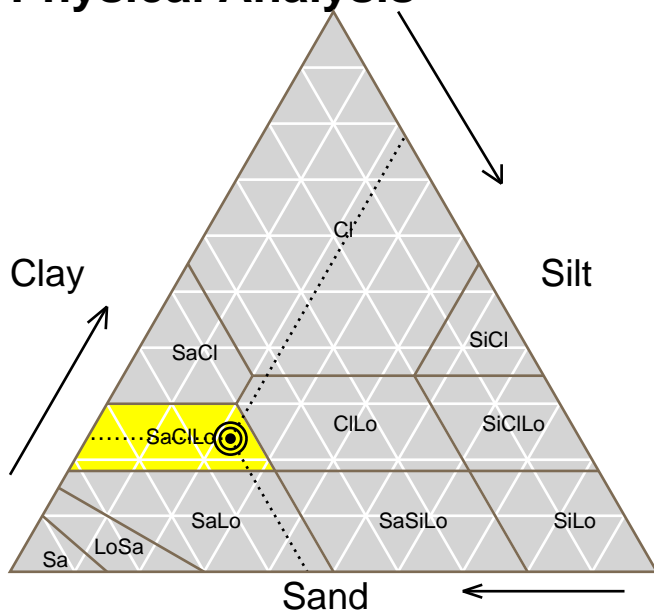
**Sample Ref** SLR 14 HORIZON 3

**Date Received** 30/07/2019 ( Date Issued: 05/08/2019 )

**Sample No** E337879/14

**Crop**

## Physical Analysis



Analysis	Result (%)
Sand	54.03
Silt	22.20
Clay	23.77
Very Fine Sand	5.15
Fine Sand	14.99
Medium Sand	26.58
Coarse Sand	7.32
Very Coarse Sand	< 0.01
Stones >2mm	1.70
Soil Type	SaClLo Sandy Clay Loam

Property	Assessment
Available Water	Low to Medium
Drainage Rate	Rapid
Inherent Fertility	Low to Medium
Potential C.E.C.	Low to Medium
Leaching Risk	High to Moderate
Warming Rate	Rapid



# Analysis Results (SOIL)

**Customer** ARCADIS (UK) LIMITED  
THE MILL  
BRINSCOMBE PORT  
STROUD  
GL5 2QG

**Distributor** ARCADIS (UK) LTD  
THE MILL  
BRINSCOMBE PORT  
BRINSCOMBE  
STROUD  
GLOS  
GL5 2QG

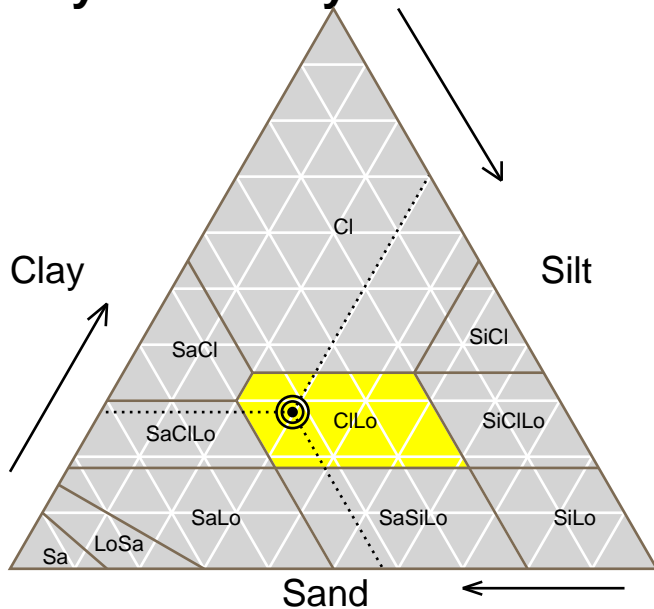
**Sample Ref** SLR 15 HORIZON 2

**Date Received** 30/07/2019 ( Date Issued: 05/08/2019 )

**Sample No** E337879/15

**Crop**

## Physical Analysis



Analysis	Result (%)
Sand	42.34
Silt	29.69
Clay	27.97
Very Fine Sand	6.76
Fine Sand	17.19
Medium Sand	14.90
Coarse Sand	3.45
Very Coarse Sand	0.05
Stones >2mm	1.50
Soil Type	ClLo Clay Loam

Property	Assessment
Available Water	Medium to High
Drainage Rate	Medium to Slow
Inherent Fertility	Medium to High
Potential C.E.C.	Medium to High
Leaching Risk	Moderate to Low
Warming Rate	Medium



# Analysis Results (SOIL)

**Customer** ARCADIS (UK) LIMITED  
THE MILL  
BRINSCOMBE PORT  
STROUD  
GL5 2QG

**Distributor** ARCADIS (UK) LTD  
THE MILL  
BRINSCOMBE PORT  
BRINSCOMBE  
STROUD  
GLOS  
GL5 2QG

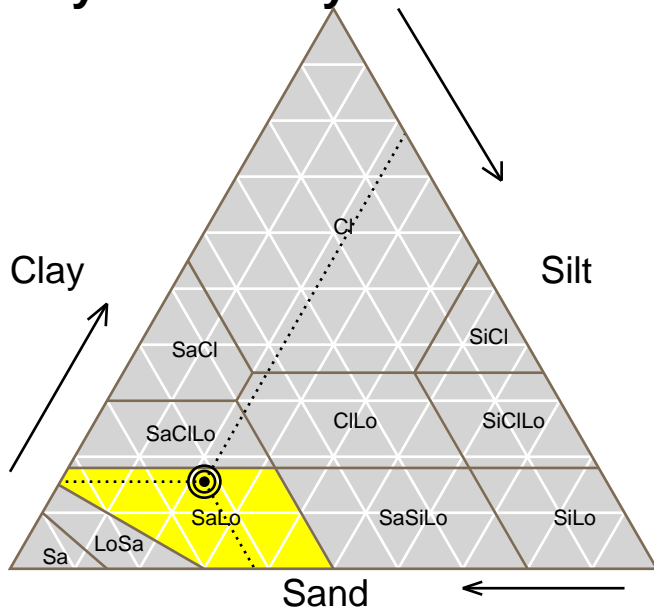
**Sample Ref** SLR 26 TOP HORIZON

**Date Received** 30/07/2019 ( Date Issued: 05/08/2019 )

**Sample No** E337879/16

**Crop**

## Physical Analysis



Analysis	Result (%)
Sand	62.18
Silt	22.27
Clay	15.55
Very Fine Sand	4.28
Fine Sand	18.15
Medium Sand	30.46
Coarse Sand	9.29
Very Coarse Sand	< 0.01
Stones >2mm	2.40
Soil Type	SaLo Sandy Loam

Property	Assessment
Available Water	Low to Medium
Drainage Rate	Rapid
Inherent Fertility	Low to Medium
Potential C.E.C.	Low to Medium
Leaching Risk	High to Moderate
Warming Rate	Rapid



# Analysis Results (SOIL)

**Customer** ARCADIS (UK) LIMITED  
THE MILL  
BRINSCOMBE PORT  
STROUD  
GL5 2QG

**Distributor** ARCADIS (UK) LTD  
THE MILL  
BRINSCOMBE PORT  
BRINSCOMBE  
STROUD  
GLOS  
GL5 2QG

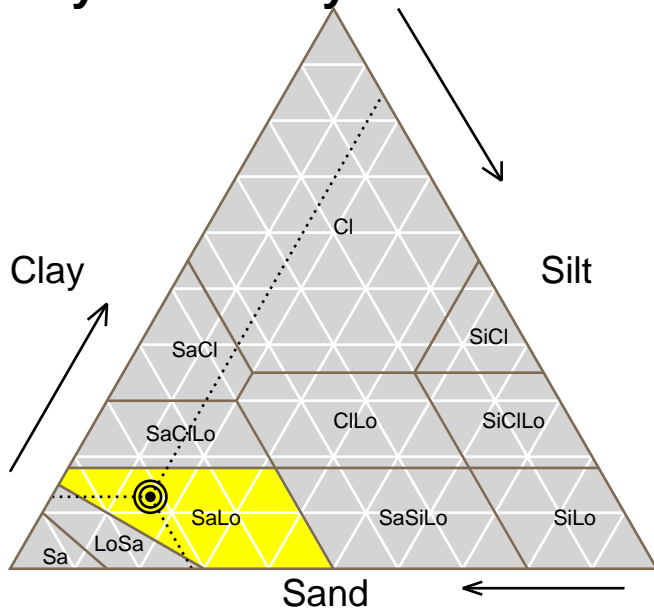
**Sample Ref** SLR 38 3RD HORIZON

**Date Received** 30/07/2019 ( Date Issued: 05/08/2019 )

**Sample No** E337879/17

**Crop**

## Physical Analysis



Analysis	Result (%)
Sand	71.87
Silt	15.28
Clay	12.85
Very Fine Sand	4.68
Fine Sand	29.60
Medium Sand	33.31
Coarse Sand	4.28
Very Coarse Sand	< 0.01
Stones >2mm	0.10
Soil Type	SaLo Sandy Loam

Property	Assessment
Available Water	Low to Medium
Drainage Rate	Rapid
Inherent Fertility	Low to Medium
Potential C.E.C.	Low to Medium
Leaching Risk	High to Moderate
Warming Rate	Rapid



# Analysis Results (SOIL)

**Customer** ARCADIS (UK) LIMITED  
THE MILL  
BRINSCOMBE PORT  
STROUD  
GL5 2QG

**Distributor** ARCADIS (UK) LTD  
THE MILL  
BRINSCOMBE PORT  
BRINSCOMBE  
STROUD  
GLOS  
GL5 2QG

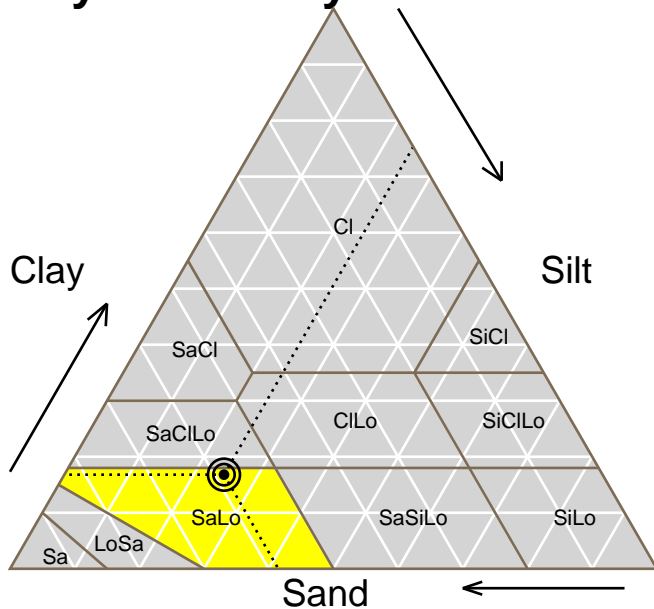
**Sample Ref** SLR 53 1ST HORIZON

**Date Received** 30/07/2019 ( Date Issued: 05/08/2019 )

**Sample No** E337879/18

**Crop**

## Physical Analysis



Analysis	Result (%)
Sand	58.52
Silt	24.68
Clay	16.80
Very Fine Sand	4.70
Fine Sand	23.42
Medium Sand	25.90
Coarse Sand	4.50
Very Coarse Sand	< 0.01
Stones >2mm	4.20
Soil Type	SaLo Sandy Loam

Property	Assessment
Available Water	Low to Medium
Drainage Rate	Rapid
Inherent Fertility	Low to Medium
Potential C.E.C.	Low to Medium
Leaching Risk	High to Moderate
Warming Rate	Rapid



# Analysis Results (SOIL)

**Customer** ARCADIS (UK) LIMITED  
THE MILL  
BRINSCOMBE PORT  
STROUD  
GL5 2QG

**Distributor** ARCADIS (UK) LTD  
THE MILL  
BRINSCOMBE PORT  
BRINSCOMBE  
STROUD  
GLOS  
GL5 2QG

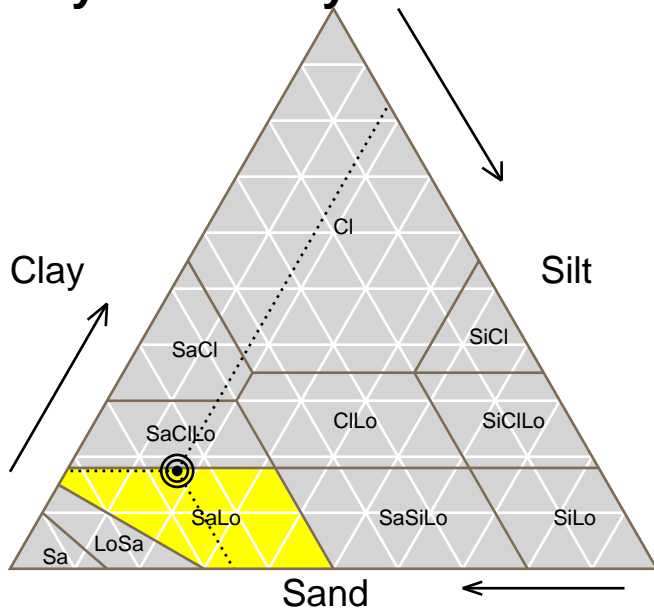
**Sample Ref** SLR 53 HORIZON 2

**Date Received** 30/07/2019 ( Date Issued: 05/08/2019 )

**Sample No** E337879/19

**Crop**

## Physical Analysis



Analysis	Result (%)
Sand	65.42
Silt	17.11
Clay	17.47
Very Fine Sand	3.26
Fine Sand	24.90
Medium Sand	31.86
Coarse Sand	5.40
Very Coarse Sand	< 0.01
Stones >2mm	1.10
Soil Type	SaLo Sandy Loam

Property	Assessment
Available Water	Low to Medium
Drainage Rate	Rapid
Inherent Fertility	Low to Medium
Potential C.E.C.	Low to Medium
Leaching Risk	High to Moderate
Warming Rate	Rapid





# Analysis Results (SOIL)

**Customer** ARCADIS (UK) LIMITED  
THE MILL  
BRINSCOMBE PORT  
STROUD  
GL5 2QG

**Distributor** ARCADIS (UK) LTD  
THE MILL  
BRINSCOMBE PORT  
BRINSCOMBE  
STROUD  
GLOS  
GL5 2QG

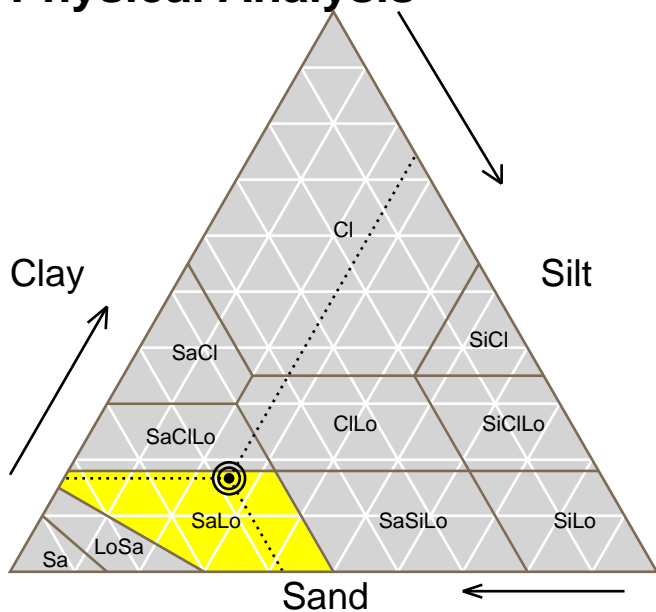
**Sample Ref** SLR 67 HORIZON 5

**Date Received** 30/07/2019 ( Date Issued: 05/08/2019 )

**Sample No** E337879/20

**Crop**

## Physical Analysis



Analysis	Result (%)
Sand	57.79
Silt	25.52
Clay	16.69
Very Fine Sand	16.37
Fine Sand	30.07
Medium Sand	10.44
Coarse Sand	0.90
Very Coarse Sand	< 0.01
Stones >2mm	0.70
Soil Type	SaLo Sandy Loam

Property	Assessment
Available Water	Low to Medium
Drainage Rate	Rapid
Inherent Fertility	Low to Medium
Potential C.E.C.	Low to Medium
Leaching Risk	High to Moderate
Warming Rate	Rapid