



AGRICULTURAL LAND CLASSIFICATION WESTFIELD ENERGY CONSERVATION PARK

CLIENT: LANPRO SERVICES LIMITED
PROJECT: WESTFIELD ENERGY CONSERVATION PARK
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ISSUED BY: JAMES FULTON MRICS FAAV

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1. EXECUTIVE SUMMARY

- 1.1 This report assesses the Agricultural Land Classification (ALC) grading of 208.3Ha, of agricultural land at Clothall.
- 1.2 The limiting factor found to be soil wetness where subsoils are gleyed and slowly permeable and topsoils heavier and droughtiness where soils are free draining with a lighter texture, must limited where soils are shallow over stone.
- 1.3 The land is graded as follows:

Grade 2:	47 Ha
Grade 3a:	27.5 Ha
Grade 3b:	99.3 Ha
Grade 4:	20.2 Ha
Non-Agricultural:	14.3 Ha

2. INTRODUCTION

- 2.1 Amet Property Ltd have been instructed by Lanpro Services Limited to produce an Agricultural Land Classification (ALC) report on a 208.3-hectares of land near Clothall, North Hertfordshire.
- 2.2 The report's author is James Fulton BSc (Hons) MRICS FAAV who has worked as a chartered surveyor, agricultural valuer, and agricultural consultant since 2004, has a degree in agriculture which included modules on soils and over 10 years' experience in advising farmers on soil structure and cultivation methods and in producing agricultural land classification reports. Additional information on authors experience is found at **appendix 1**.
- 2.3 The report is based on a site visit conducted by two surveyors on the 13th, 14th and 20th of March 2025 during which the conditions were overcast with sunny spells and soils moist.
- 2.4 During the inspections 4 trial pits were dug to a depth of 120cm or as deep as possible if the sample point became impenetrable. In addition to the trial pits an auger was used to take approximately one sample per hectare on the survey area to a depth of 120cm with smaller trial pits at some of these locations to confirm soil structure and colour where it was not clear from the auger samples. A plan of auger points and trial pit locations can be found at **appendix 2**. The trial pit locations were selected as they were representative of the soils found. Where subsoils were inspected with a spade, descriptions of structure have been recorded based on the soil survey field handbook¹; where an auger has been used the structure is described as good, moderate or poor based on figure 9,10 and 11 in the MAFF² guidance. Colours are described using Munsell Colours³.
- 2.5 The survey area is described in literature as likely to be calcareous and so hydrochloric acid was used to test in field for a reaction that would indicate calcareous soils.
- 2.6 The surveyed area extends to 208.3Ha of arable and grassland spread across 16 fields. The land is located near Clothall, North Hertfordshire.
- 2.7 Further information has been obtained from the MAGIC web, the Soil Survey of England and Wales, the British Geological Survey, the Meteorological Office and 1:250,000 series Agricultural Land Classification maps.

¹ Hodgson, JM (1997) Soil Survey Field Handbook

² MAFF (1988) - *Agricultural Land Classification of England and Wales. Revised guidelines and criteria for grading the quality of agricultural land*. MAFF Publications

³ Munsell Color (2009) Munsell Soil Color Charts

- 2.8 The collected information has been judged against the Ministry of Agriculture Fisheries and Food Agricultural Land Classification of England and Wales revised guidelines and criteria for grading the quality of agricultural land.
- 2.9 The principal factors influencing agricultural production are climate, site and soil and the interaction between them MAFF (1988) & Natural England (2012)⁴.
- 2.10 The report is prepared and formatted considering the latest BSSS guidance⁵.

3. PUBLISHED INFORMATION

- 3.1 The British Geological Survey 1:50,000 scale map shows the bedrock geology to be largely Lewes Nodular Chalk Formation and Seaford Chalk Formation – Chalk. Along the western border and patches along the northern border there are superficial deposits shown to be Glaciofluvial Deposits, Mid Pleistocene – sand and gravel. The rest of the northwest is shown to be covered by superficial deposits of Lowestoft Formation – Diamicton. Patches are shown with superficial deposits of Clay-with-flints Formation - Clay, silt, sand and gravel, encompassing the sample points: (114,115,134,135), (44,63,64,65), (85,86,87,103,104,105).
Along the drains and the area near Kipple Field, the bedrock geology was shown to be Holywell Nodular Chalk Formation and New Pit Chalk Formation – Chalk with superficial deposits of Head – clay, silt, sand and gravel. There are small patches which are shown to run along the east and west of the drain with the bedrock geology of Chalk Rock Member – Chalk.
- 3.2 The soils in the northeast of the survey area are identified as being 411d HANSLOPE Association, slowly permeable calcareous clayey soils. The soils in the southwest of the survey area are identified as being 582c HORNBEAM 2 Association, deep fine loamy over clayey soils with slowly permeable subsoils and slight seasonal waterlogging.
- 3.3 The 1:250,000 series Agricultural Land Classification maps show the land to be predominantly Grade 3, with patches in the east and west shown to be Grade 2. These plans are of strictly limited value, using an out-of-date methodology at a very small scale (low detail) level of survey. Further information on the limits of their use can be found in TIN049.

⁴ MAFF (1988) - *Agricultural Land Classification of England and Wales. Revised guidelines and criteria for grading the quality of agricultural land.* MAFF Publications

Natural England (2012) - *Technical Information Note 049 - Agricultural Land Classification: protecting the best and most versatile agricultural land*, Second Edition

⁵ BSSS (2022) Working with Soil Guidance Note on Assessing Agricultural Land Classification Surveys in England and Wales

4. CLIMATE

- 4.1 Climate has a major, and in places overriding, influence on land quality affecting both the range of potential agricultural uses and the cost and level of production.
- 4.2 There is published agro-climatic data for England and Wales provided by the Meteorological Office, such data for the survey area is listed in the table below.

Agro-Climatic Data – Full details can be found at **appendix 3**

Grid Reference	529100, 230300
Altitude (ALT)	120
Average Annual Rainfall (AAR)	621
Accumulated Temperature - Jan to June (ATO)	1348
Duration of Field Capacity (FCD)	122
Moisture Deficit Wheat	103
Moisture Deficit Potatoes	94

- 4.3 The main parameters used in assessing the climatic limitation are average annual rainfall (AAR), as a measure of overall wetness; and accumulated temperature (ATO), as a measure of the relative warmth of a locality.
- 4.4 The AAR and ATO provide no climatic limitation to grade.
- 4.5 The survey area is shown to be largely in flood zone 1 – areas with a less than 1 in 1000 annual chance of flooding. Apart from the area surrounding the drain which falls into Flood Zone 2 – areas with between a 1 in 100 and 1 in 1000 annual chance of flooding. There was no evidence of flooding on site and the available data would suggest that the chance of flooding is minimal and unlikely to impact land grade.

5. STONINESS

- 5.1 The topsoil ranges from stoneless to up to 30% stones. The stones in the topsoil are a combination of small to medium hard limestone and flint with occasional pieces of soft limestone. There were stones identified in the subsoils in places which again similar in size and type to the stones identified in the topsoil. Where soils become impenetrable this is due to the quantity of stone increasing to 70%+ with hard limestone and flint making up the majority of this stone with some smaller pieces of soft limestone.

6. GRADIENT AND MICRORELIEF

- 6.1 The survey area is flat to gently sloping with no gradient or microrelief to limit land grade.

7. SOILS

- 7.1 The soils found largely follow the expectations set by the national soils map. Full information on the sample points along with trial pit descriptions and photographs and lab test results can be found at **appendix 4**.
- 7.2 The topsoils are very consistently dark greyish brown (10YR 4/2) and range from medium sandy loam through sandy clay loam and heavy clay loam to clay. The topsoil texture often changes substantially over short distances with lab tests confirming that points near each other change from medium sandy loam to clay.
- 7.3 The upper subsoil is almost always a moderately structured clay or clay loam usually brown (10YR 5/3) or yellowish brown (10YR 5/4). This subsoil starts at between 25 and 40cm and continues to between 40 and 120cm.
- 7.4 There is a lower subsoil recorded as a poorly structured gleyed and slowly permeable horizon at various points across the survey area although there is little consistency as to where this will be found in terms of location or altitude with either clumps of survey points or individual survey points where this is found.
- 7.5 At many locations especially to the west and south of the survey area the subsoil gives way to an impenetrable stony layer consisting of medium to large hard limestone and flint. In places this stone layer is found directly beneath the topsoil as shallow as 30cm.
- 7.6 Many of the survey points were found to have calcareous topsoils and subsoils as would be expected based on the geology and soil types mapped.

INTERACTIVE FACTORS

8. WETNESS

- 8.1 An assessment of the wetness class of each sample point was made based on the flow chart at Figure 6 and the graphs at figure 7 and 8 in the MAFF guidance.

Wetness class Assessment

Depth to gley	Depth to SPL	Coarse subsoil	Wetness Class
No gley	No SPL	N/A	I
40-70	No SPL	Yes	I
<40	No SPL	Yes	I
<40	No SPL	No	II
40-70	No SPL	No	I
40-70	>40	N/A	II
40-70	<40	N/A	III
<40	>60		II
<40	>60		III

- 8.2 The wetness class and topsoil texture were then assessed against Table 6 of the MAFF guidance to determine the ALC grade according to wetness. The wetness assessment can be found at **appendix 4**.
- 8.3 Survey points range from wetness class I to wetness class III. This results in a wetness limitation of between grade 1 and grade 3b. Wetness is the most limiting factor where subsoils are gleyed and slowly permeable with heavy topsoil.

9. DROUGHTINESS

- 9.1 Droughtiness limits are defined in terms of moisture balance for wheat and potatoes using the formula:

$$MB \text{ (Wheat)} = AP \text{ (Wheat)} - MD \text{ (Wheat)}$$

and

$$MB \text{ (Potatoes)} = AP \text{ (Potatoes)} - MD \text{ (Potatoes)}$$

Where:

MB = Moisture Balance

AP = Crop Adjusted available water capacity

MD = Moisture deficit

- 9.2 Moisture deficit for wheat and potatoes can be found in the agro-climatic data and are as follows:

$$MD \text{ (Wheat)} = 103$$

$$MD \text{ (Potatoes)} = 94$$

- 9.3 Crop adjusted available water is calculated by reference to the total available water and easily available water which is calculated by reference to soil texture and structural condition and the stone content.
- 9.4 The moisture balance was calculated for all survey points and can be found at **appendix 4**. Droughtiness is the most limiting factor for survey points where soils are lighter and is especially limiting where soils are shallow over stone.

10. AGRICULTURAL LAND CLASSIFICATION

10.1 The Agricultural Land Classification provides a framework for classifying land according to which its physical or chemical characteristics impose long-term limitations on agricultural use. The limitations can operate in one or more of four principle ways: they may affect the range of crops that can be grown, the level of yield, the consistency of yield and the cost of obtaining it.

10.2 The principle physical factors influencing agricultural production are climate, site and soil and the interactions between them which together form the basis for classifying land into one of 5 grades; grade 1 being of excellent quality and grade 5 being land of very poor quality. Grade 3 land, which constitutes approximately half of all agricultural land in the United Kingdom is divided into 2 subgrades – 3a and 3b. A full definition of all of the grades can be found at **appendix 5**.

10.3 The limiting factor found to be soil wetness where subsoils are gleyed and slowly permeable and topsoils heavier and droughtiness where soils are free draining with a lighter texture, must limited where soils are shallow over stone.

10.4 The breakdown of land by classification is:

Grade 2:	47 Ha
Grade 3a:	27.5 Ha
Grade 3b:	99.3 Ha
Grade 4:	20.2 Ha
Non-Agricultural:	14.3 Ha

10.5 A plan of the land grading can be found at **appendix 6**.

Appendix 1 – Details of the Authors Experience

James Fulton

Professional Education and Qualifications

BSc (Hons) Agriculture, University of Nottingham (2004)

Member of the Royal Institution of Chartered Surveyors (MRICS) (2008)

Fellow of the Central Association of Agricultural Valuers (FAAV) (2009)

Relevant Work Experience

While working for a regional firm from 2004 until 2016 as part of my work I provided advice to farmers on soils, cultivation techniques and cropping and was involved in field trials which assessed cropping and cultivation techniques and how they impacted soil structure. At the same time I worked alongside an experienced surveyor who produced Agricultural Land Classification reports and I received training in field survey techniques and the ALC process to the point where I was able to produce ALC reports.

In 2016 I left my employer and formed Amet Property Ltd providing development consultancy and other rural practice surveying services. Of all of the services that we provide Agricultural Land Classification reports is the single largest area of work accounting for approximately 70% of all of my working time.

While I am not a member of the BSSS I meet the minimum competencies set out by the BSSS in Document 1 *Foundation skills in field soil investigation, description and interpretation* and Document 2 *Agricultural Land Classification (England and Wales)*

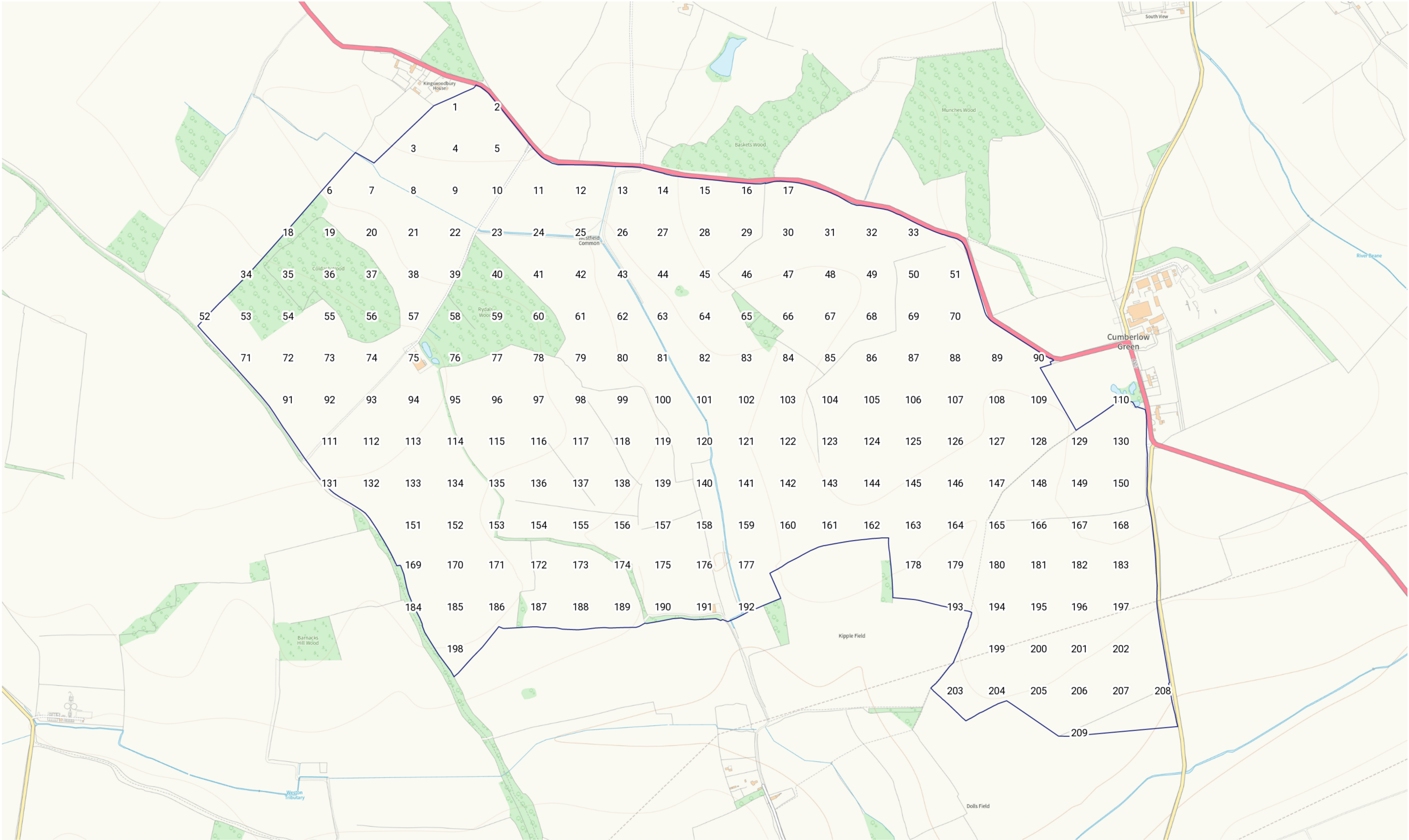
Professional Standards

As a member of the Royal Institution of Chartered Surveyors and Fellow of the Central Association of Agricultural Valuers I am bound by their professional standards and am only able to carry out work where I am suitably qualified and experienced to do so. Due to the formal and practical training that I have received I am able to competently produce Agricultural Land Classification reports.

Assistant Surveyors

All assistant surveyors have completed the BSSS working with soil course and have been trained to meet the requirements of BSSS Document 1 *Foundation skills in field soil investigation, description, and interpretation*.

Appendix 2 - Map of Survey Points



Appendix 3 – Climatic Data

Site Details: Westfield Energy Conservation Park

Grid reference (centre of site): 529100, 230300

Altitude: Mean 120m AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
52502300	130	599	0.4	320	1338	2317	105	95	115
52502350	65	594	0.3	300	1410	2397	116	110	111
53002300	111	620	0.4	330	1358	2341	104	95	122
53002350	103	605	0.3	235	1365	2349	106	98	118

Altitude Adjusted

Grid Reference	AAR	ATO	FCD	MDW	MDP	Proximity Adjustment
52502300	595.00	1349.40	114.42	106.31	96.73	4.77%
52502350	610.50	1347.30	113.39	109.20	100.99	2.07%
53002300	623.60	1347.74	122.52	102.82	93.44	89.63%
53002350	610.10	1345.62	118.74	103.90	95.22	3.52%
	621	1348	122	103	94	

	Topsoil						Stoniness		Upper Subsoil				Lower Subsoil						Wetness Assessment				Grade	Droughtiness Assessment		Grade	limiting	Most			
Sample No	Altitude	Depth	Texture	Calc	Colour	<2cm 2-6cm >6cm	Mottles	Depth	Texture	Calc	Colour	Stoniness	Mottles	Structure	Depth	Texture	Calc	Colour	Stoniness	Mottles	Structure	SPL	Gley	Wetness Class	Wetness	Wheat	Potato	Droughtiness	by Droughtiness	Grade	
1	130	0 - 35	C	Y	10YR 4 / 2			35 - 60	C	Y	10YR 5 / 4			Moderate	60 - 120	C	Y	2.5Y 5 / 1			CO	Poor	60	60	II	2	30.34	18.68		1	2
2	128	0 - 30	C	Y	10YR 4 / 2			30 - 50	C	Y	2.5Y 4 / 3			Moderate	50 - 85	C	Y	2.5Y 5 / 1			CO	Poor	50	50	II	2	4.34	15.18 3a			3a
3	126	0 - 45	C	Y	10YR 4 / 2			45 - 70	C	Y	2.5Y 5 / 3		CO	Moderate	70 - 120	C	Y	2.5Y 5 / 1			CO	Poor	70	45	II	2	32.34	22.68		1	2
4	126	0 - 30	C	Y	10YR 4 / 2			30 - 75	C	Y	10YR 5 / 4			Moderate	75 - 120	C	Y	2.5Y 5 / 1			CO	Poor	75	75	I	2	31.34	21.18		1	2
5	124	0 - 30	C	Y	10YR 4 / 2			30 - 60	C	Y	2.5Y 4 / 3			Moderate	60 - 120	Stone	/	/			CO	Poor			I	2	-9.16	6.18 3a			3a
6	118	0 - 35	C	Y	10YR 4 / 2			35 - 60	C	Y	2.5Y 5 / 3			Moderate	60 - 120	Stone	/	/			CO	Poor			I	2	-8.66	6.68 3a			3a
7	116	0 - 30	SCL	Y	10YR 4 / 2	15%		30 - 45	SCL	Y	10YR 4 / 6			Moderate	45 - 120	Stone	/	/			CO	Poor			I	2	-32.86	-25.02 3b			3b
8	114	0 - 35	C	Y	10YR 4 / 2			35 - 50	C	Y	2.5Y 4 / 3			Moderate	50 - 75	C	Y	10YR 5 / 4			CO	Moderate			I	2	0.34	21.68 3a			3a
9	117	0 - 35	SCL	Y	10YR 4 / 2			35 - 70	SCL	Y	10YR 5 / 4			Moderate	70 - 120	Stone	/	/			CO	Poor			I	2	1.34	18.18 3a			3a
10	112	0 - 30	C	Y	10YR 4 / 2			30 - 50	C	Y	10YR 5 / 4	40%		Moderate	50 - 120	Stone	/	/			CO	Poor			I	2	-28.66	-20.82 3b			3b
11	114	0 - 30	C	Y	10YR 4 / 2			30 - 120	C	Y	10YR 5 / 3			Moderate	-		/	/							I	2	35.84	21.18		1	2
12	117	0 - 30	C	Y	10YR 4 / 2			30 - 50	C	Y	10YR 5 / 3		FB	Moderate	50 - 70	C	Y	2.5Y 5 / 3			CO	Poor			I	2	-6.16	15.18 3a			3a
13	118	0 - 35	C	Y	10YR 4 / 2	5%		35 - 60	C	Y	10YR 5 / 3			Moderate	60 - 120	C	Y	2.5Y 6 / 2			FO	Poor			I	2	27.54	15.88		2	2
14	119	0 - 35	SCL	Y	10YR 4 / 2	10%		35 - 120	C	Y	10YR 5 / 3			Moderate	-		/	/							I	1	30.74	16.08			1
15	124	0 - 30	SCL	Y	10YR 4 / 2	10%		30 - 120	C	Y	10YR 5 / 3			Moderate	-		/	/							I	1	31.04	16.38			1
16	126	0 - 35	SCL	Y	10YR 4 / 2	10%		35 - 120	C	Y	10YR 5 / 3		CO	Moderate	-		/	/						35	II	2	30.74	16.08			1
17	131	0 - 35	SCL	Y	10YR 4 / 2	10%		35 - 55	C	Y	2.5Y 5 / 3		FO	Moderate	55 - 120	Stone	/	/							I	2	-18.01	-6.42 3a			3a
18	127																														

																			Wetness Assessment				Grade		Droughtiness Assessment				Grade		Most limiting Grade		
Topsoil				Stoniness				Upper Subsoil				Lower Subsoil				Depth to		Wetness		Wetness		MB		MB		limit by							
Sample No	Altitude	Depth	Texture	Calc	Colour	<2cm	2-6cm	>6cm	Mottles	Depth	Texture	Calc	Colour	Stoniness	Mottles	Structure	Depth	Texture	Calc	Colour	Stoniness	Mottles	Structure	SPL	Gley	Class	Wetness	Wheat	Potato	Droughtiness	limit by		
82	109	0 - 30	HCL	Y	10YR 4 / 2	15%				30 - 120	Stone		/				Poor	-			/						I	2	-51.31	-43.47		4	4
83	112	0 - 35	HCL	Y	10YR 4 / 2	10%				35 - 120	C	Y	2.5Y 5 / 3			CO	Poor	-			/				35	35	III	3a	22.39	8.73		2	3a
84	115	0 - 35	HCL	Y	10YR 4 / 2	10%				35 - 120	C	Y	2.5Y 5 / 3			CO	Poor	-			/				35	35	III	3a	22.39	8.73		2	3a
85	127	0 - 30	SCL	Y	10YR 4 / 2	5%				30 - 120	C	Y	10YR 5 / 4			CO	Poor	-			/						I	1	20.44	6.78		2	2
86	128	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 70	C	Y	10YR 5 / 3	5%			Poor	70 - 120	Stone		/			Poor	30	30	III	3a	-11.06	7.23 3a		3a	
87	130	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	C	Y	2.5Y 5 / 4			COB	Moderate	-			/						I	2	36.86	22.20		1	2
88	127	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	C	Y	2.5Y 5 / 4			COB	Moderate	-			/						I	2	36.86	22.20		1	2
89	126	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/				Poor	-			/						I	2	-43.14	-33.80 3b			3b
90	124	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 120	Stone		/				Poor	-			/						I	2	-51.71	-42.37		4	4
91	135	0 - 35	mSL	N	10YR 4 / 2	30%				35 - 120	Stone		/				Poor	-			/						I	1	-55.46	-47.62		4	4
92	134	0 - 35	mSL	N	10YR 4 / 2	30%				35 - 120	Stone		/				Poor	-			/						I	1	-55.46	-47.62		4	4
93	133	0 - 40	SCL	N	10YR 4 / 3	15%				40 - 120	C	N	10YR 5 / 4			FO	Moderate	-			/						I	1	27.24	12.58		2	2
94	131	0 - 40	SCL	N	10YR 4 / 3	15%				40 - 120	C	N	10YR 5 / 4			FO	Moderate	-			/						I	1	27.24	12.58		2	2
95	129	0 - 30	SCL	N	10YR 4 / 2	5%				30 - 60	C	Y	10YR 5 / 4			CO	Moderate	60 - 120	C	Y	2.5Y 5 / 1		CO	Poor	60	60	II	2	27.44	15.78		2	2
96	125	0 - 30	SCL	N	10YR 4 / 2	5%				30 - 60	C	N	10YR 5 / 4			CO	Moderate	60 - 120	C	Y	2.5Y 6 / 3		CO	Poor	60	60	II	2	27.44	15.78		2	2
97	121	0 - 35	SCL	N	2.5Y 4 / 3	5%				35 - 75	C	N	2.5Y 5 / 4			CO	Moderate	75 - 120	C	Y	5Y 6 / 3		MO	Poor	75	75	I	1	29.04	18.88		2	2
98	117	0 - 35	SCL	N	2.5Y 4 / 3	5%				35 - 75	C	N	2.5Y 5 / 4			CO	Moderate	75 - 120	C	Y	5Y 6 / 3		MO	Poor	75	75	I	1	29.04	18.88		2	2
99	114	0 - 30	SCL	N	10YR 4 / 2	10%				30 - 60	C	Y	2.5Y 5 / 4			CO	Moderate	60 - 120	C	Y	2.5Y 6 / 2		CO	Poor	60	60	II	2	25.04	13.38		2	2
100	112	0 - 30	C	Y	10YR 4 / 2	10%				30 - 60	C	Y	2.5Y 5 / 4			CO	Moderate	60 - 80	SC	Y	10YR 5 / 6		CO	Moderate			I	2	3.04	15.38 3a			3a
101	104	0 - 35	HCL	Y	2.5Y 4 / 2	15%				35 - 45	C	Y	10YR 5 / 3				Moderate	45 - 120	Stone		/					I	2	-29.09	-21.25 3b			3b	
102	107	0 - 35	HCL	Y	2.5Y 4 / 2	15%				35 - 45	C	Y	10YR 5 / 3				Moderate	45 - 120	Stone		/					I	2	-29.09	-21.25 3b			3b	
103	114	0 - 35	HCL	Y	2.5Y 4 / 2	15%				35 - 45	C	Y	10YR 5 / 3				Moderate	45 - 120	Stone		/					I	2	-29.09	-21.25 3b			3b	
104	126	0 - 30	C	Y	10YR 4 / 2	5%				30 - 40	C	Y	10YR 5 / 4				Moderate	40 - 120	Stone		/					I	2	-34.06	-26.22 3b			3b	
105	128	0 - 30	C	Y	10YR 4 / 2	5%				30 - 70	C	Y	10YR 5 / 3	5%			Moderate	70 - 120	Stone		/					I	2	-6.31	15.78 3a			3a	
106	129	0 - 35	C	Y	10YR 4 / 2	5%				35 - 45	C	Y	2.5Y 5 / 4			CO	Moderate	45 - 120	Stone		/					I	2	-26.46	-18.62 3b			3b	
107	126	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 45	C	Y	2.5Y 5 / 4			CO	Moderate	45 - 120	Stone		/					I	2	-23.14	-15.30 3b			3b	
108	123	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 50	C	Y	10YR 5 / 4				Moderate	50 - 120	Stone		/					I	2	-48.21	-40.37 3b			3b	
109	118	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 60	C	Y	10YR 5 / 3				Moderate	60 - 120	Stone		/					I	2	-48.71	-41.37 3b			3b	
110	126	Non Agricultural																															
111	130	0 - 40	mSL	N	10YR 4 / 2	20%				40 - 120	Stone		/				Poor	-			/						I	1	-43.46	-35.62 3b			3b
112	129	0 - 40	mSL	N	10YR 4 / 2	20%				40 - 120	Stone		/				Poor	-			/						I	1	-43.46	-35.62 3b			3b
113	126	0 - 35	SCL	N	10YR 4 / 3	10%				35 - 70	SCL	N	10YR 5 / 4			FO	Moderate	70 - 120	Stone		/					I	1	-4.26	12.58 3a			3a	
114	122	0 - 35	SCL	N	10YR 4 / 3	10%				35 - 70	SCL	N	10YR 5 / 4			FO	Moderate	70 - 120	Stone		/					I	1	-4.26	12.58 3a			3a	
115	119	0 - 30	SCL	N	10YR 4 / 2	5%				30 - 60	C	Y	10YR 5 / 4			CO	Moderate	60 - 120	C	Y	2.5Y 5 / 2		CO	Poor	60	60	II	2	27.44	15.78		2	2
116	118	0 - 40	C	N	10YR 4 / 2	2%				40 - 60	C	Y	2.5Y 5 / 4			CO	Moderate	60 - 120	C	Y	5Y 6 / 4		CO	Poor	60	60	II	3a	29.56	17.90		2	3a
117	114	0 - 30	SCL	N	10YR 4 / 2	30%				30 - 40	C	N	2.5Y 5 / 4				Moderate	40 - 120	Stone		/					I	1	-46.06	-38.22 3b			3b	
118	107	0 - 30	SCL	N	10YR 4 / 2	10%				30 - 60	C	N	2.5Y 5 / 4			COB	Moderate	60 - 120	C	Y	2.5Y 6 / 2		CO	Poor	60	60	II	2	25.04	13.38		2	2
119	104	0 - 30	SCL	Y	10YR 4 / 2	10%				30 - 60	C	Y	2.5Y 5 / 4			COB	Moderate	60 - 120	C	Y	2.5Y 6 / 2		CO	Poor	60	60	II	2	25.04	13.38		2	2
120	107	0 - 30	SCL	Y	2.5Y 4 / 3	5%				30 - 60	SCL	Y	2.5Y 5 / 4			CO	Moderate	60 - 85	SCL	Y	10YR 5 / 6		CO	Moderate			I	1	10.44	14.78		2	2
121	109	0 - 35	HCL	Y	10YR 4 / 3	10%				35 - 50	C	Y	10YR 5 / 3				Moderate	50 - 120	Stone		/					I	2	-18.61	-10.77 3a			3a	
122	117	0 - 35	HCL	N	10YR 4 / 3	10%				35 - 50	C	Y	10YR 5 / 3				Moderate	50 - 120	Stone		/					I	2	-18.61	-10.77 3a			3a	
123	125	0 - 30	C	N	10YR 4 / 2	5%				30 - 40	C	N	10YR 5 / 4				Moderate	40 - 120	Stone		/					I	3a	-34.06	-26.22 3b			3b	
124	126	0 - 35	HCL	N	10YR 4 / 2	5%				35 - 70	C	N	10YR 5 / 3	5%			Moderate	70 - 120	Stone		/					I	2	-2.51	19.58 3a			3a	
125	126	0 - 35	HCL	N	10YR 4 / 2	5%				35 - 70	C	N	2.5Y 5 / 6			FOB	Moderate	70 - 120	C	N	7.5YR 4 / 4		CO	Moderate			I</						

Sample No	Topsoil			Stoniness				Upper Subsoil				Lower Subsoil				Wetness Assessment				Grade		Droughtiness Assessment		Grade		Most limiting							
	Altitude	Depth	Texture	Calc	Colour	<2cm	2-6cm	>6cm	Mottles	Depth	Texture	Calc	Colour	Stoniness	Mottles	Structure	Depth	Texture	Calc	Colour	Stoniness	Mottles	Structure	Depth to SPL	Gley		Wetness Class	Wetness limit by	Wheat	Potato	Droughtiness limit by	Grade	
164	112	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 50	C		10YR 5 / 3			Moderate	50 - 120	Stone		/				Poor		I		2	-15.64	-7.80 3a		3a	
165	110	0 - 40	HCL	Y	10YR 4 / 2	5%				40 - 120	Stone		/			Poor	-			/					I		2	-34.56	-25.22 3b		3b		
166	115	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/					I		2	-43.14	-33.80 3b		3b		
167	121	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 120	Stone		/			Poor	-			/					I		2	-46.21	-38.37 3b		3b		
168	123	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 120	Stone		/			Poor	-			/					I		2	-46.21	-38.37 3b		3b		
169	126	0 - 35	SCL	N	10YR 4 / 2	10%				35 - 50	SCL	N	10YR 4 / 4			Moderate	50 - 120	Stone		/				Poor		I		1	-23.26	-15.42 3b		3b	
170	124	0 - 35	SCL	N	10YR 4 / 2	10%				35 - 50	SCL	N	10YR 4 / 4			Moderate	50 - 120	Stone		/				Poor		I		1	-23.26	-15.42 3b		3b	
171	121	0 - 35	SCL	N	10YR 4 / 2					35 - 60	C	N	10YR 5 / 4		COB	Poor	60 - 120	Stone		/				Poor		I		1	-14.16	-0.82 3a		3a	
172	118	0 - 30	SCL	N	10YR 4 / 2	5%				30 - 70	C	N	10YR 5 / 4		CO	Moderate	70 - 120	C	N	2.5Y 5 / 2		CO	Poor	70	70	II		2	28.44	18.78		2	2
173	115	0 - 30	SCL	N	10YR 4 / 2	5%				30 - 60	C	N	2.5Y 5 / 4		FO	Moderate	60 - 120	C	Y	2.5Y 6 / 3		CO	Poor	60	60	II		2	27.44	15.78		2	2
174	114	0 - 30	SCL	N	10YR 4 / 2	5%				30 - 60	C	N	2.5Y 5 / 4		FO	Moderate	60 - 120	C	Y	2.5Y 6 / 3		CO	Poor	60	60	II		2	27.44	15.78		2	2
175	108	0 - 35	SCL	N	10YR 4 / 2	5%				35 - 60	C	Y	2.5Y 5 / 4		FO	Moderate	60 - 120	C	Y	2.5Y 6 / 2			Poor	60	60	II		2	27.54	15.88		2	2
176	102	0 - 35	SCL	N	10YR 4 / 2	5%				35 - 120	C	N	10YR 5 / 4		FB	Poor	-			/				I		1		22.04	8.38		2	2	
177	105	0 - 30	MCL	Y	10YR 4 / 2	10%				30 - 120	Stone		/			Poor	-			/				I		1		-48.76	-40.92 3b		3b		
178	111	0 - 35	SCL	N	10YR 4 / 2	5%				35 - 60	C	N	2.5Y 5 / 2		FOB	Moderate	60 - 120	Stone		/			Poor		I		1	-11.46	3.88 3a		3a		
179	108	0 - 35	SCL	N	10YR 4 / 2	5%				35 - 60	C	N	2.5Y 5 / 2		FOB	Moderate	60 - 120	Stone		/			Poor		I		1	-11.46	3.88 3a		3a		
180	115	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/				I		1		-43.14	-33.80 3b		3b		
181	119	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/				I		2		-43.14	-33.80 3b		3b		
182	118	0 - 35	MCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/				I		1		-38.14	-30.30 3b		3b		
183	114	0 - 35	MCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/				I		1		-38.14	-30.30 3b		3b		
184	124	0 - 30	SCL	N	2.5Y 4 / 3	20%				30 - 45	SCL	N	10YR 5 / 6			Moderate	45 - 120	Stone		/				Poor		I		1	-35.26	-27.42 3b		3b	
185	122	0 - 30	SCL	N	2.5Y 4 / 3	20%				30 - 45	SCL	N	10YR 5 / 6			Moderate	45 - 120	Stone		/				Poor		I		1	-35.26	-27.42 3b		3b	
186	117	0 - 30	SCL	N	2.5Y 4 / 3	30%				30 - 50	C	N	7.5YR 4 / 6		CO	Moderate	50 - 120	Stone		/				Poor		I		1	-31.06	-23.22 3b		3b	
187	115	0 - 30	SCL	N	10YR 4 / 2	5%				30 - 70	C	N	10YR 5 / 4		CO	Moderate	70 - 120	C	N	2.5Y 5 / 4		CO	Moderate			I		1	33.44	18.78		1	1
188	113	0 - 30	SCL	N	10YR 4 / 2	5%				30 - 70	C	N	10YR 5 / 4		CO	Moderate	70 - 120	C	N	2.5Y 5 / 4		CO	Moderate			I		1	33.44	18.78		1	1
189	111	0 - 30	SCL	N	10YR 4 / 2					30 - 60	C	N	2.5Y 5 / 4		FO	Moderate	60 - 120	C	N	2.5Y 6 / 3		CO	Moderate		60		I	1	35.84	21.18		1	1
190	111	0 - 35	SCL	N	10YR 4 / 2					35 - 70	C	Y	10YR 5 / 4		FO	Moderate	70 - 120	C	N	2.5Y 6 / 3		CO	Moderate		70		I	1	36.34	21.68		1	1
191	109	0 - 35	SCL	N	10YR 4 / 2	5%				35 - 60	C	N	10YR 5 / 4		COB	Poor	60 - 120	Stone		/				Poor		I		1	-16.96	-3.62 3a		3a	
192	104	0 - 30	MCL	Y	10YR 4 / 2	10%				30 - 120	Stone		/			Poor	-			/				I		1		-48.76	-40.92 3b		3b		
193	106	0 - 35	SCL	N	10YR 4 / 2	5%				35 - 70	SCL	N	10YR 5 / 4		FOB	Moderate	70 - 120	Stone		/				Poor		I		1	-1.46	15.38 3a		3a	
194	115	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/				I		2		-43.14	-33.80 3b		3b		
195	117	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/				I		2		-43.14	-33.80 3b		3b		
196	117	0 - 30	MCL	Y	10YR 4 / 2	15%				30 - 120	Stone		/			Poor	-			/				I		1		-51.31	-43.47		4	4	
197	113	0 - 30	MCL	Y	10YR 4 / 2	15%				30 - 120	Stone		/			Poor	-			/				I		1		-51.31	-43.47		4	4	
198	122	0 - 25	SCL	N	2.5Y 4 / 3	15%				25 - 120	Stone		/			Poor	-			/				I		1		-66.66	-58.82		4	4	
199	112	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/				I		2		-43.14	-33.80 3b		3b		
200	115	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/				I		2		-43.14	-33.80 3b		3b		
201	110	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 120	Stone		/			Poor	-			/				I		2		-51.71	-42.37		4	4	
202	108	0 - 35	HCL	Y	10YR 4 / 2	5%				35 - 120	Stone		/			Poor	-			/				I		2		-43.14	-33.80 3b		3b		
203	112	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 120	Stone		/			Poor	-			/				I		2		-51.71	-42.37		4	4	
204	112	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 120	Stone		/			Poor	-			/				I		2		-51.71	-42.37		4	4	
205	113	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 120	Stone		/			Poor	-			/				I		2		-51.71	-42.37		4	4	
206	108	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 120	Stone		/			Poor	-			/				I		2		-51.71	-42.37		4	4	
207	107	0 - 30	HCL	Y	10YR 4 / 2	5%				30 - 120	Stone		/			Poor	-			/				I		2		-51.71	-42.37		4	4	
208	107	0 - 35	SCL	N	10YR 4 / 2	5%				35 - 50	C	N	10YR 5 / 4			Moderate	50 - 120	Stone		/				Poor		I		1	-46.46	-37.12 3b		3b	
209	108	0 - 40	MCL	N	10YR 4 / 2	5%				40 - 50	C	N	10YR 5 / 4			Moderate	50 - 120	Stone		/				Poor		I		1	-34.56	-25.22 3b		3b	

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Trial Pit Descriptions

Sample Point No. 10		
Horizon 1	0-30cm Dark greyish brown (10YR 4/2) calcareous clay.	
Horizon 2	30-50cm Yellowish brown (10YR 5/4) clay with a medium subangular blocky structure, friable consistence and 40% large flinty hard stone	
Horizon 3	60-120cm Flinty hard stone packed tightly together so as augering and hand digging is not possible. Stone assumed to continue to 120cm for the purposes of droughtiness calculations.	
Pictures		
Horizon 1	Horizon 2	Horizon 3
		
Slowly permeable layer	Not present	
Gleying	Not present	
Wetness Class	I	
Wetness limitation	2	
MB Wheat	-28.66	
MB potatoes	-20.82	
Droughtiness Limitation	3b	

Sample Point No. 21		
Horizon 1	0-35cm Dark greyish brown (10YR 4/2) medium sandy loam.	
Horizon 2	35-85cm Light olive brown (2.5Y 5/4) sandy clay loam with a medium subangular blocky structure, and friable consistence.	
Horizon 3	85-120cm Flinty hard stone packed tightly together so as augering and hand digging is not possible. Stone assumed to continue to 120cm for the purposes of droughtiness calculations.	
Pictures		
Horizon 1	Horizon 2	Horizon 3
		
Slowly permeable layer	Not present	
Gleying	Not present	
Wetness Class	I	
Wetness limitation	1	
MB Wheat	15.59	
MB potatoes	18.18	
Droughtiness Limitation	2	

Sample Point No. 31		
Horizon 1	0-35cm Dark greyish brown (10YR 4/2) calcareous clay with 5% small hard stones.	
Horizon 2	35-120cm Light Olive brown (2.5Y 5/3) calcareous clay with a massive structure, and firm consistence – common ochreous mottles	
Horizon 3	Not present	
Pictures		
Horizon 1	Horizon 2	Horizon 3
		
Slowly permeable layer	Present from 35cm evidenced by clay with a massive structure and <0.5% biopores >0.5mm	
Gleying	Present from 35cm evidenced by pale colours and ochreous mottles	
Wetness Class	III	
Wetness limitation	3a	
MB Wheat	22.04	
MB potatoes	8.38	
Droughtiness Limitation	2	

Sample Point No. 124		
Horizon 1	0-35cm Dark greyish brown (10YR 4/2) heavy clay loam with 5% medium hard stones.	
Horizon 2	35-70cm Brown (10YR 5/3) clay with a coarse subangular blocky structure, and firm consistence, 5% small hard stones	
Horizon 3	70-120cm Flinty hard stone packed tightly together so as augering and hand digging is not possible. Stone assumed to continue to 120cm for the purposes of droughtiness calculations	
Pictures		
Horizon 1	Horizon 2	Horizon 3
		
Slowly permeable layer	Not present	
Gleying	Not present	
Wetness Class	I	
Wetness limitation	2	
MB Wheat	-2.51	
MB potatoes	19.58	
Droughtiness Limitation	3a	

Survey point 8 – Auger core



Survey points 23 – Auger Core



Survey point 51 – Auger core



Survey point 81 – Auger core



Survey point 134 - Auger Core



Survey point 153 – Auger core



Survey point 172 - Auger Core



ANALYTICAL REPORT

Report Number	85313-25	W250	AMET PROPERTY
Date Received	20-MAR-2025		HENWICK BARN
Date Reported	08-APR-2025		BULWICK
Project	SOIL		CORBY
Reference			NORTHANTS
Order Number			NN17 3DU

Laboratory Reference		SOIL743121	SOIL743122	SOIL743123							
Sample Reference		HERTS 21 TOPSOIL	HERTS 92 TOPSOIL	HERTS 140 TOPSOIL							
Determinand	Unit	SOIL	SOIL	SOIL							
Coarse Sand 2.00-0.63mm	% w/w	4	11	6							
Medium Sand 0.63-0.212mm	% w/w	35	32	27							
Fine Sand 0.212-0.063mm	% w/w	23	18	17							
Silt 0.063-0.002mm	% w/w	23	22	28							
Clay <0.002mm	% w/w	15	17	22							
Neutralising Value as CaCO3 eq.	% w/w	<1	2.2	<1							
Neutralising Value as CaO eq.	% w/w	<1	1.2	<1							
Textural Class **		mSL	mSL	SCL/MCL							

Notes

Analysis Notes	The sample submitted was of adequate size to complete all analysis requested. The results as reported relate only to the item(s) submitted for testing. The results are presented on a dry matter basis unless otherwise stipulated.
Document Control	This test report shall not be reproduced, except in full, without the written approval of the laboratory.

Reported by	** Please see the attached document for the definition of textural classes. Teresa Clyne Natural Resource Management, a trading division of Cawood Scientific Ltd. Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS Tel: 01344 886338 Fax: 01344 890972 email: enquiries@nrm.uk.com
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ANALYTICAL REPORT

Report Number	85315-25	W250	AMET PROPERTY
Date Received	20-MAR-2025		HENWICK BARN
Date Reported	08-APR-2025		BULWICK
Project	SOIL		CORBY
Reference			NORTHANTS
Order Number			NN17 3DU

Laboratory Reference		SOIL743127	SOIL743128	SOIL743129	SOIL743130						
Sample Reference		HERTS 31 TOPSOIL	HERTS 31 SUBSOIL	HERTS 10 TOPSOIL	HERTS 10 SUBSOIL						
Determinand	Unit	SOIL	SOIL	SOIL	SOIL						
Coarse Sand 2.00-0.63mm	% w/w	4	3	3	3						
Medium Sand 0.63-0.212mm	% w/w	18	11	14	11						
Fine Sand 0.212-0.063mm	% w/w	16	12	16	11						
Silt 0.063-0.002mm	% w/w	22	26	23	18						
Clay <0.002mm	% w/w	40	48	44	57						
Neutralising Value as CaCO3 eq.	% w/w	3.5	15.7	2.5	6.5						
Neutralising Value as CaO eq.	% w/w	2.0	8.8	1.4	3.7						
Textural Class **		C	C	C	C						

Notes

Analysis Notes	The sample submitted was of adequate size to complete all analysis requested. The results as reported relate only to the item(s) submitted for testing. The results are presented on a dry matter basis unless otherwise stipulated.
Document Control	This test report shall not be reproduced, except in full, without the written approval of the laboratory.

Reported by	** Please see the attached document for the definition of textural classes. <i>Teresa Clyne</i> Natural Resource Management, a trading division of Cawood Scientific Ltd. Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS Tel: 01344 886338 Fax: 01344 890972 email: enquiries@nrm.uk.com
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ANALYTICAL REPORT

Report Number	85318-25	W250	AMET PROPERTY
Date Received	20-MAR-2025		HENWICK BARN
Date Reported	08-APR-2025		BULWICK
Project	SOIL		CORBY
Reference			NORTHANTS
Order Number			NN17 3DU

Laboratory Reference		SOIL743141	SOIL743142	SOIL743143						
Sample Reference		HERTS 104 TOPSOIL	HERTS 124 TOPSOIL	HERTS 124 SUBSOIL						
Determinand	Unit	SOIL	SOIL	SOIL						
Coarse Sand 2.00-0.63mm	% w/w	3	4	1						
Medium Sand 0.63-0.212mm	% w/w	19	21	15						
Fine Sand 0.212-0.063mm	% w/w	15	16	11						
Silt 0.063-0.002mm	% w/w	24	28	19						
Clay <0.002mm	% w/w	39	31	54						
Neutralising Value as CaCO3 eq.	% w/w	3.7	<1	1.2						
Neutralising Value as CaO eq.	% w/w	2.1	<1	<1						
Textural Class **		C	HCL	C						

Notes

Analysis Notes	The sample submitted was of adequate size to complete all analysis requested. The results as reported relate only to the item(s) submitted for testing. The results are presented on a dry matter basis unless otherwise stipulated.
Document Control	This test report shall not be reproduced, except in full, without the written approval of the laboratory.

Reported by	** Please see the attached document for the definition of textural classes. Teresa Clyne Natural Resource Management, a trading division of Cawood Scientific Ltd. Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS Tel: 01344 886338 Fax: 01344 890972 email: enquiries@nrm.uk.com
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ADAS (UK) Textural Class Abbreviations

The texture classes are denoted by the following abbreviations:

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

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

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

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

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

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

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

APPENDIX 5 - DESCRIPTION OF ALC GRADES

- Grade 1 - excellent quality agricultural land Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.
- Grade 2 - very good quality agricultural land Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
- Grade 3 - good to moderate quality agricultural land Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
- Subgrade 3a - good quality agricultural land Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
- Subgrade 3b - moderate quality agricultural land Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
- Grade 4 - poor quality agricultural land Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
- Grade 5 - very poor-quality agricultural land Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

Appendix 6 - Map of ALC Grade

