High Grove Solar

Preliminary Environmental Information Report Appendix 5.1 Agricultural Land Classification Report

April 2025

AGRICULTURAL LAND CLASSIFICATION
HIGH GROVE SOLAR FARM

CLIENT: RWE RENEWABLES UK SOLAR AND STORAGE LTD
PROJECT: HIGH GROVE SOLAR FARM
DATE: 6TH AUGUST 2024– ISSUE 2
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 1646.8Ha, of agricultural land to the north and south of the A47 between Marham in the west and Dereham in the east.

1.2 The limiting factor across the site is found variously to be soil wetness, soil droughtiness, stoniness and soil depth.

1.3 The land is graded as follows:

Whole surveyed area

Grade 2	**425.3 Ha**
Grade 3a	**613 Ha**
Grade 3b	**590.3 Ha**
Non-agricultural:	**18.2 Ha**
Total:	**1646.8 Ha**

2. INTRODUCTION

2.1 Amet Property Ltd have been instructed by RWE Renewables UK Solar and Storage Ltd to produce an Agricultural Land Classification (ALC) report on 1646.8 hectares to the north and south of the A47 between Marham and Dereham.

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 site visits conducted by James Fulton and 6 assistant surveyors across 24 man days in November and December 2023 and January, February, March, and July 2024 The survey was carried out over a protracted period due to the large amounts of rain through the winter and the need to survey in suitable conditions. All sites were surveyed with soils moist with some small areas found to be over wet despite waiting for suitable conditions.

2.4 During the inspections 16 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 proposed development site 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 on site. Where subsoils were inspected with a spade, descriptions of structure have been recorded based on the soil survey field handbook[1]; where an auger has been used the structure is described as good, moderate or poor based on figure 9,10 and 11 in the MAFF[2] guidance. Colours are described using Munsell Colours[3].

2.5 Some areas of the site is described in literature as possibly 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 1646.8 Ha of predominantly arable land. Due to the spread-out nature of the site we have produced 10 separate maps called a-h and throughout the reports areas are referred to as areas a-j.

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[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

2.7 Further information has been obtained from the MAGIC website, the Soil Survey of England and Wales, the British Geological Survey, the Meteorological Office and 1:250,000 series Agricultural Land Classification maps.

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 guidance[5].

3. PUBLISHED INFORMATION

3.1 The British Geological Survey 1:50,000 scale map has shown the bedrock geology and superficial deposits of the site to be as follows.

Map a

The western block has a bedrock geology of Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk; with superficial deposits of Lowestoft Formation - Diamicton.
The eastern block has a bedrock geology of Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk; with superficial deposits of Lowestoft Formation - Diamicton. Apart from a patch both north and south of the A47 which has bedrock geology ewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk, and no superficial deposits.

Map b

The block to the north of the A47 has bedrock geology of Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk; with superficial deposits of Lowestoft Formation - Diamicton. There is a patch in the southwest corner with superficial deposits of Alluvium - Clay, silt, sand and gravel.
The land to the south of the A47 has the bedrock geology Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk; with superficial deposits of Lowestoft Formation - Diamicton. There

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[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

is a patch along the north border of the block, near the village of Wendling, which has superficial deposits of Alluvium - Clay, silt, sand and gravel.

Map c

The blocks have bedrock geology Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk; with superficial deposits of Lowestoft Formation - Diamicton.

Map d

The northern and southern blocks both have bedrock geology Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk; with superficial deposits of Lowestoft Formation - Diamicton. Apart from the northern blocks southern border to the west of the road which runs through it, this has the superficial deposits of Alluvium - Clay, silt, sand and gravel.

Map e

The block has bedrock geology Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk; with superficial deposits of Lowestoft Formation – Diamicton.

Map f

The block has bedrock geology Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk; with superficial deposits of Lowestoft Formation - Diamicton.

Map g

The block has bedrock geology Holywell Nodular Chalk formation and new pit Chalk formation – chalk.

Map h

The block has bedrock geology Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk. In the southeast corner there are superficial deposits of Lowestoft formation – Diamicton. There is a patch in the southwest corner with superficial deposits of Lowestoft formation – sand and gravel.

Map i

The block has bedrock geology of Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk. With the exception of a small area to the west with no superficial deposits there are superficial deposits of Lowestoft formation – Diamicton.

Map j

The block has bedrock geology of Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation – Chalk. There are no superficial deposits

3.2 The soil Associations on the site are as follows.

Map a

The western block has 711r BECCLES 1 association, slowly permeable seasonally waterlogged fine loamy over clayey soils in the north. It has 572p BURLINGHAM 3 association, deep fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging in the south of the block.
The eastern block is largely 572p BURLINGHAM 3 association, deep fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging. With a patch of 711s BECCLES 2 association, slowly permeable seasonally waterlogged fine and coarse loamy over clayey soils, south of the A47 road.

Map b

The block north of the A47 has 572n BURLINGHAM 1, deep coarse and fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging.
Most of the block to the south of the road is 711r BECCLES 1 association, slowly permeable seasonally waterlogged fine loamy over clayey soils. With the exception of the fields in the southwest corner, which are 572p BURLINGHAM 3, deep fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging. The most westerly field also has a western border with soils of 861b Isleham 2, deep permeable sandy and peaty soils affected by groundwater.

Map c

The most northern field in the block has soils of 572n BURLINGHAM 1, deep coarse and fine loamy soils with permeable subsoils and slight seasonal waterlogging is found in the north part of the field. The northwestern border is 861b Isleham 2, deep permeable sandy and peaty soils affected by groundwater.
The rest of the field and the rest of the blocks have 711r BECCLES 1 Association, slowly permeable seasonally waterlogged fine loamy over clayey soils.

Map d

The northern block has a strip on the southern border, to the west of the road of 572n BURLINGHAM 1, deep coarse and fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging. North to this strip and then continuing the southern border to the east of the road is 861b Isleham 2, deep permeable sandy and peaty soils affected by groundwater.
The rest of the northern block and the whole of the southern block has soils of 711r BECCLES 1 Association, slowly permeable seasonally waterlogged fine loamy over clayey soils.

Map e

The block to the northeast of the site has the soil Association of 711r BECCLES 1 Association, slowly permeable seasonally waterlogged fine loamy over clayey soils. This also covers most of the larger block, apart from the border of the northwest and the most southerly fields. These areas are covered by 572n BURLINGHAM 1, deep coarse and fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging.

Map f

The block has the soil association of 572p BURLINGHAM 3, deep fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging. There is a small patch of 343g Newmarket 2 association, shallow well drained cancerous coarse loamy and sandy soils over chalk rubble.

Map g

The block has the soil association of 343f NEWMARKET 1 association, shallow well drained calcareous sandy and coarse loamy soils over chalk or chalk rubble.

Map h

The block has the soil association of 554 b WORLINGTON, deep well drained sandy soils in places very acid with subsurface pan. The southeast corner has the association of 572p BURLINGHAM 3, deep fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging.

Map i

Most of this block is shown to be 572p BURLINGHAM 3, deep fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging with a small area to the west of 554 b WORLINGTON, deep well drained sandy soils in places very acid with subsurface pan.

Map j

This block is recorded as 554 b WORLINGTON, deep well drained sandy soils in places very acid with subsurface pan.

3.3 The 1:250,000 series Agricultural Land Classification maps shows almost all of the land to be Grade 3 – good to moderate with some of the land to the west shown as 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. 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, the average for the whole site is listed in the table below.

Agro-Climatic Data

Map a

Grid Reference	584958 310874
Altitude (ALT)	70
Average Annual Rainfall (AAR)	708
Accumulated Temperature - Jan to June (ATO)	1357
Duration of Field Capacity (FCD)	149
Moisture Deficit Wheat	101
Moisture Deficit Potatoes	91

Map b

Grid Reference	592034 312343
Altitude (ALT)	56
Average Annual Rainfall (AAR)	738
Accumulated Temperature - Jan to June (ATO)	1370
Duration of Field Capacity (FCD)	152
Moisture Deficit Wheat	101
Moisture Deficit Potatoes	92

Map c

Grid Reference	595367 310859
Altitude (ALT)	76
Average Annual Rainfall (AAR)	706
Accumulated Temperature - Jan to June (ATO)	1348
Duration of Field Capacity (FCD)	147
Moisture Deficit Wheat	100
Moisture Deficit Potatoes	91

Map d

Grid Reference	594380 308455
Altitude (ALT)	76
Average Annual Rainfall (AAR)	719
Accumulated Temperature - Jan to June (ATO)	1350
Duration of Field Capacity (FCD)	153
Moisture Deficit Wheat	102
Moisture Deficit Potatoes	93

Map e

Grid Reference	590810 306651
Altitude (ALT)	79
Average Annual Rainfall (AAR)	704
Accumulated Temperature - Jan to June (ATO)	1347
Duration of Field Capacity (FCD)	148
Moisture Deficit Wheat	101
Moisture Deficit Potatoes	92

Map f

Grid Reference	589640 303143
Altitude (ALT)	56
Average Annual Rainfall (AAR)	675
Accumulated Temperature - Jan to June (ATO)	1376
Duration of Field Capacity (FCD)	141
Moisture Deficit Wheat	106
Moisture Deficit Potatoes	98

Map g

Grid Reference	575531308907
Altitude (ALT)	27
Average Annual Rainfall (AAR)	639
Accumulated Temperature - Jan to June (ATO)	1409
Duration of Field Capacity (FCD)	127
Moisture Deficit Wheat	112
Moisture Deficit Potatoes	106

Map h

Grid Reference	582840 311068
Altitude (ALT)	76
Average Annual Rainfall (AAR)	704
Accumulated Temperature - Jan to June (ATO)	1350
Duration of Field Capacity (FCD)	146
Moisture Deficit Wheat	101
Moisture Deficit Potatoes	91

Map i

Grid Reference	583649 309957
Altitude (ALT)	79
Average Annual Rainfall (AAR)	710
Accumulated Temperature - Jan to June (ATO)	1347
Duration of Field Capacity (FCD)	148
Moisture Deficit Wheat	100
Moisture Deficit Potatoes	90

Map j

Grid Reference	581295 310543
Altitude (ALT)	74
Average Annual Rainfall (AAR)	678
Accumulated Temperature - Jan to June (ATO)	1354
Duration of Field Capacity (FCD)	139
Moisture Deficit Wheat	104
Moisture Deficit Potatoes	95

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 There is quite a significant variation in rainfall from the west to the east of the site and so the climate data for each separate area, maps a-h, was calculated and used for wetness and droughtiness calculations full details of the climatic data for each map can be found at ***appendix 3***.

4.6 All the sites are shown to be in flood zone 1 – areas with a less than 1 in 1000 annual chance of flooding. There was no evidence of flooding seen during the site visit and it is considered that will not result in a limitation to land grade.

5. STONINESS

5.1 The majority of the sample points across the site have some small to medium stones with some areas having up to 10% medium stones. Where there is no other limitation some of these sample points are limited to grade 2 by stoniness.

6. GRADIENT AND MICRORELIEF

6.1 The site is flat to gently sloping with no gradient or microrelief to affect land grade.

7. SOILS

7.1 The soils found on site 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 Soil descriptions:

Map a

Dark greyish brown (10YR 4/2) or brown (10YR 4/3) medium sandy loam or sandy clay loam (occasionally calcareous) over poorly structured slowly permeable gleyed clay or sandy clay, or a moderately structured sandy loam or loamy sand subsoil. The different subsoils are very mixed up with a patter due to physical factors such as altitude difficult to determine.

Map b

Dark greyish brown (10YR 4/2) sandy clay loam (occasionally calcareous) over a gleyed slowly permeable clay subsoil.

Map c

Dark greyish brown (10YR 4/2) sandy clay loam (occasionally calcareous) over a gleyed slowly permeable clay subsoil.

Map d

Dark greyish brown (10YR 4/2), very dark greyish brown (10YR 3/2) or dark brown (10YR 3/3) medium sandy loam (occasionally sandy clay loam or loamy medium sand) either shallow over impenetrable rock layer or over a gleyed slowly permeable clay subsoil.

Map e

Two obvious soil types found, the first being Dark greyish brown (10YR 4/2) sandy clay loam (occasionally calcareous) over a gleyed slowly permeable clay subsoil. The second soil type is medium sandy loam over a moderately structured sandy loam subsoil.

Map f

Very dark greyish brown (10YR 3/2) medium sandy loam over a moderately structured sandy loam subsoil shallow over impenetrable rock at 50cm to 70cm.

Map g

Very dark brown (10YR 2/2), very dark greyish brown (10YR 3/2), dark greyish brown (10YR 4/2), or brown (10YR 4/3 or 5/3) medium sandy loam or loamy medium sand (often calcareous) over chalk or loamy medium sand.

Map h, i and j.

Dark greyish brown (10YR 4/2) or brown (10YR 4/3) medium sandy loam or loamy medium sand over moderately structured loamy medium sand subsoils with areas or slowly permeable gleyed clay subsoils.

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 in the MAFF guidance. 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***.

8.2 Where there is a gleyed horizon at less than 40cm and slowly permeable layer at less than 40cm the assessment gives wetness class IV, where the slowly permeable layer starts at 40cm or deeper it is wetness class III.

8.3 Where there is gleying and a slowly permeable layer at deeper than 40cm or gleying at less than 40cm but no slowly permeable layer the assessment gives wetness class II.

8.4 Where there is no gleying or slowly permeable layer the assessment gives wetness class I.

9. DROUGHTINESS

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

MB (Wheat) = AP (Wheat) - MD (Wheat)

and

MB (Potatoes) = AP (Potatoes) - MD (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 (Wheat) = 102
MD (Potatoes) = 93

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 the trial pit locations and locations where droughtiness was considered to be a potential limiting factor. This assessment can be found at ***appendix 4***.

9.5 Where soils are shallow and/or sandy droughtiness is the most limiting factor to land grade.

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 This assessment sets out that the site is limited largely by wetness and droughtiness with small areas where stoniness or soil depth are the most limiting factor.

10.4 The breakdown of land by classification is:

Map a

Grade 2:	86 Ha
Grade 3a:	26.4 Ha
Grade 3b:	72 Ha
Non-agricultural:	5.8 Ha
Total:	190.2

Map b

Grade 2:	46.7 Ha
Grade 3a:	63.7 Ha
Grade 3b:	101.5 Ha
Non-agricultural:	1.1 Ha
Total:	213 Ha

Map c

Grade 2:	28 Ha
Grade 3a:	175.4 Ha
Grade 3b:	143.9 Ha
Total:	347.3 Ha

Map d

Grade 2:	9.8 Ha
Grade 3a:	31.3 Ha
Grade 3b:	27.8 Ha
Total:	68.9 Ha

Map e

Grade 2:	63.8 Ha
Grade 3a:	52.2 Ha
Grade 3b:	215.1 Ha
Total:	331.1 Ha

Map f

Grade 2:	12 Ha
Grade 3a:	16.8 Ha
Grade 3b:	6.4 Ha
Total:	35.2 Ha

Map g

Grade 3a:	163.8 Ha
Total:	163.8 Ha

Map h

Grade 2:	57.4 Ha
Grade 3a:	192.6 Ha
Non-agricultural:	3.9 Ha
Total:	253.9 Ha

Map i

Grade 2:	103.8 Ha
Grade 3a:	22.1 Ha
Grade 3b:	15.3
Non-agricultural:	4.6 Ha
Total:	145.8 Ha

Map j

Grade 2:	17.8 Ha
Grade 3a:	61 Ha
Grade 3b:	8.3 Ha
Non-agricultural:	2.8 Ha
Total:	89.9 Ha

Whole surveyed area

Grade 2	425.3 Ha
Grade 3a	613 Ha
Grade 3b	590.3 Ha
Non-agricultural:	18.2 Ha
Total:	1646.8 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)*

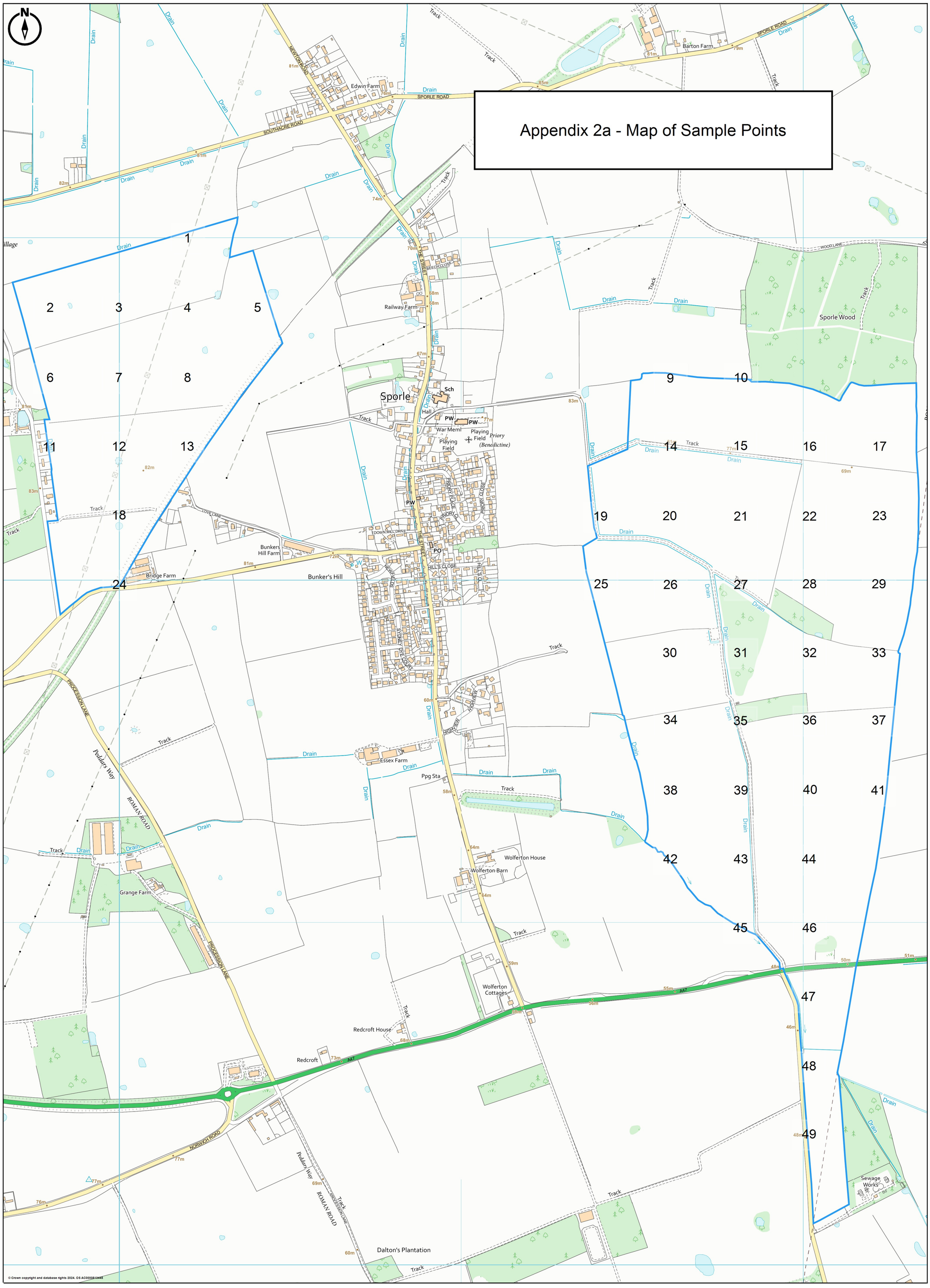
Professional Standards

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

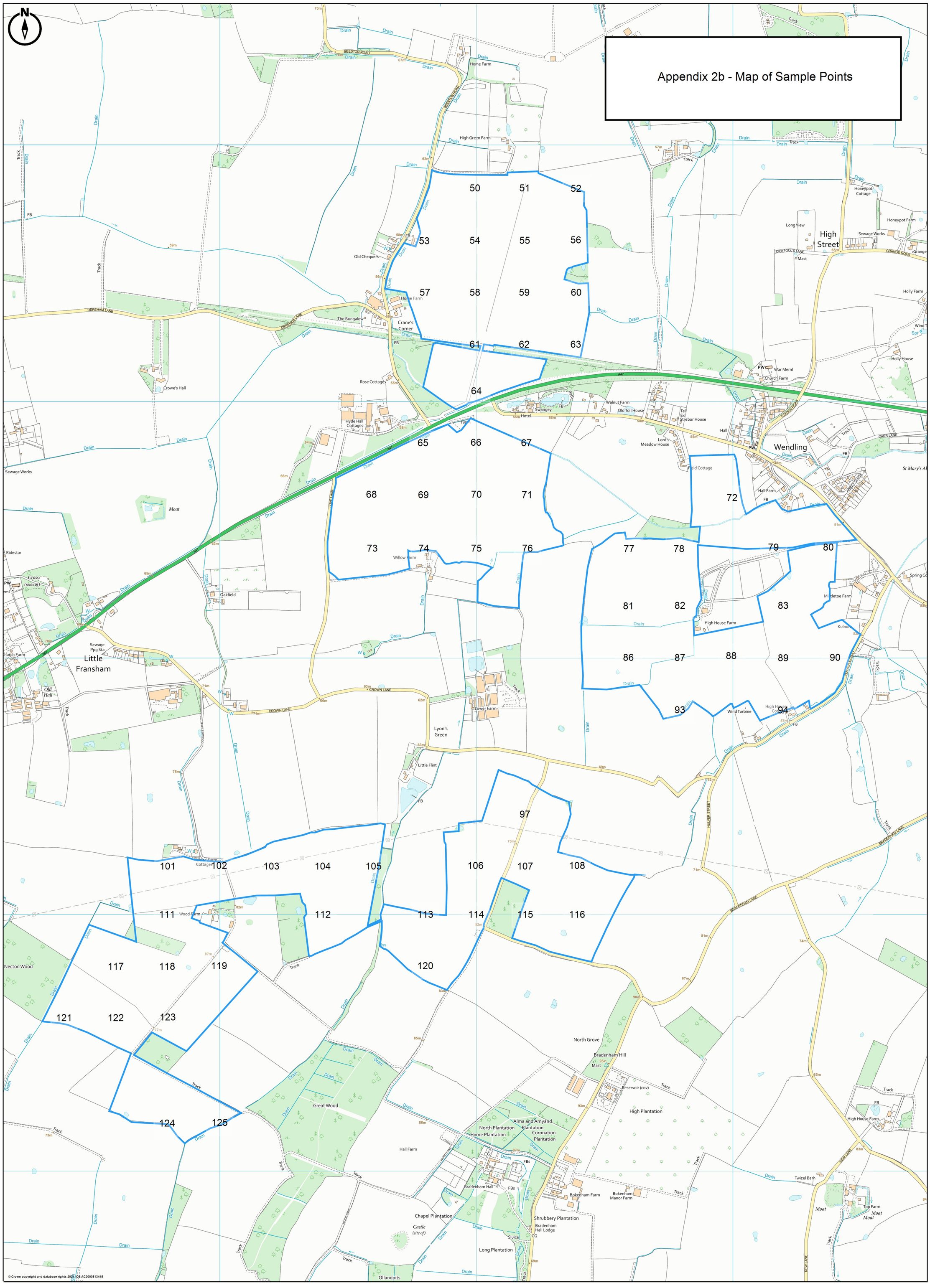
All assistant surveyors have completed the BSSS working with soil course and have been trained to meet the requirements of BSSS Document 1 *Foundation skills in field soil investigation, description, and interpretation.*

Appendix 2a - Map of Sample Points



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Plotted Scale - 1:7500. Paper Size - A2

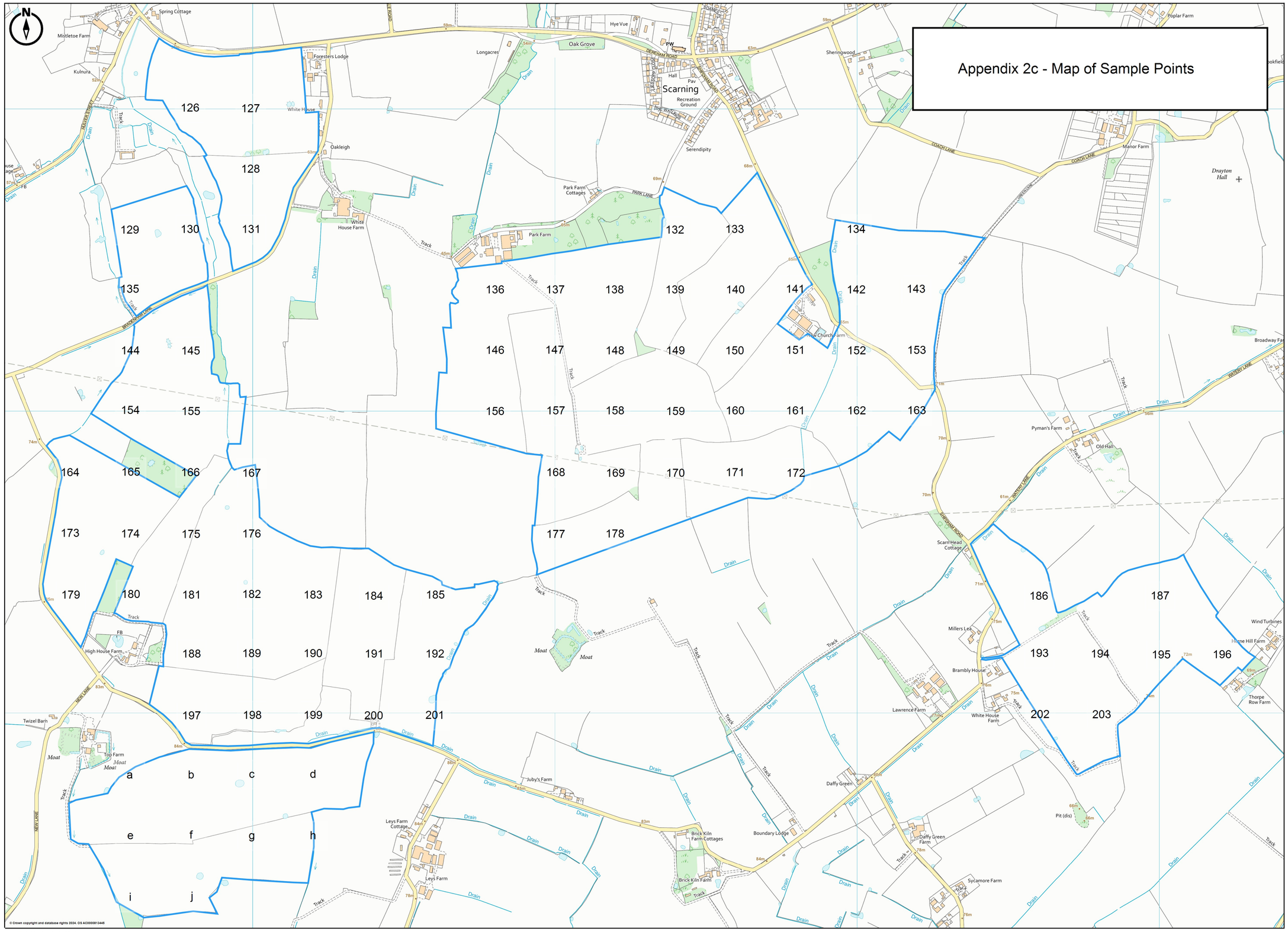
Appendix 2b - Map of Sample Points



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LANDMARK INFORMATION

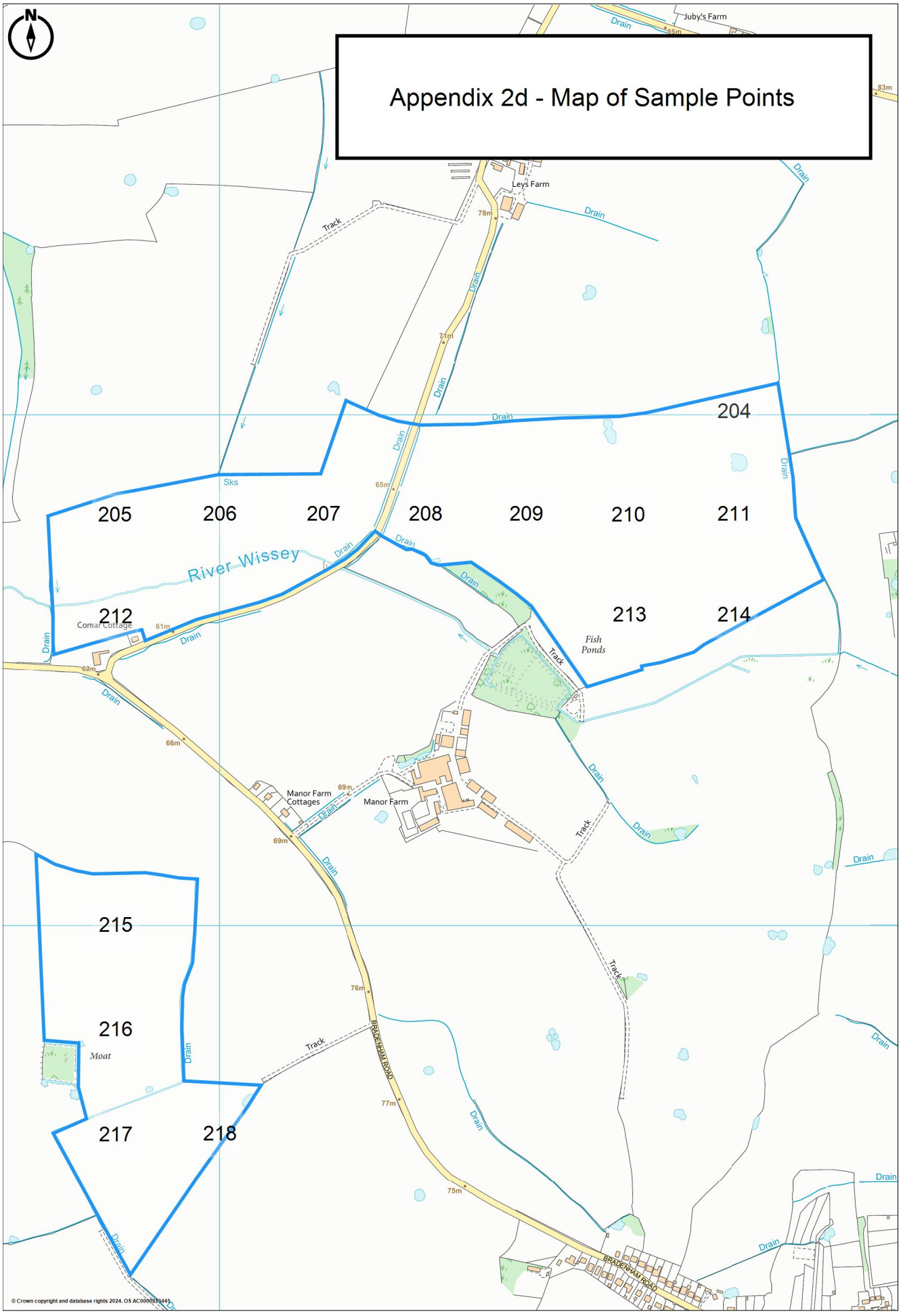
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Appendix 2c - Map of Sample Points



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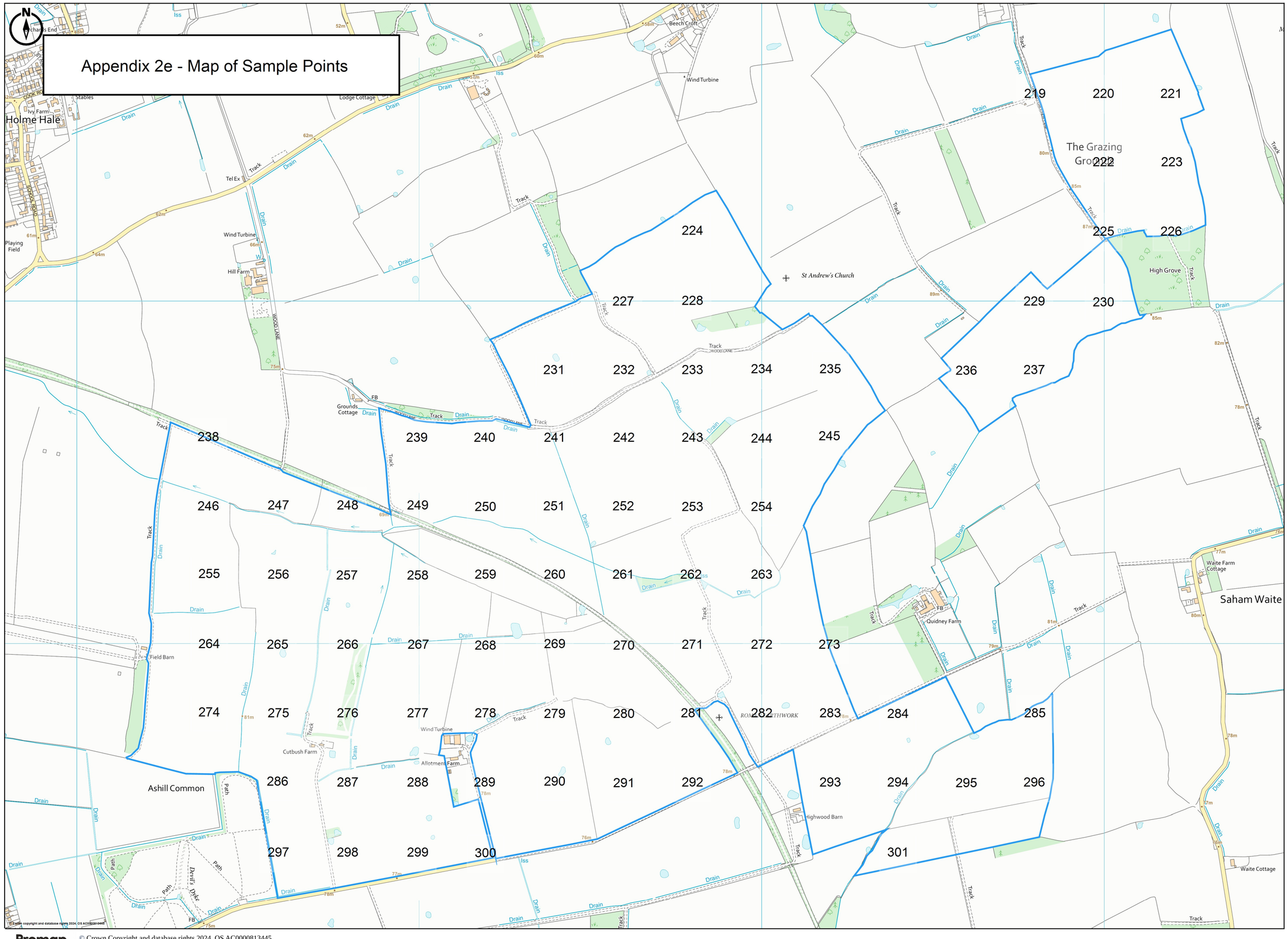
Appendix 2d - Map of Sample Points



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Appendix 2e - Map of Sample Points

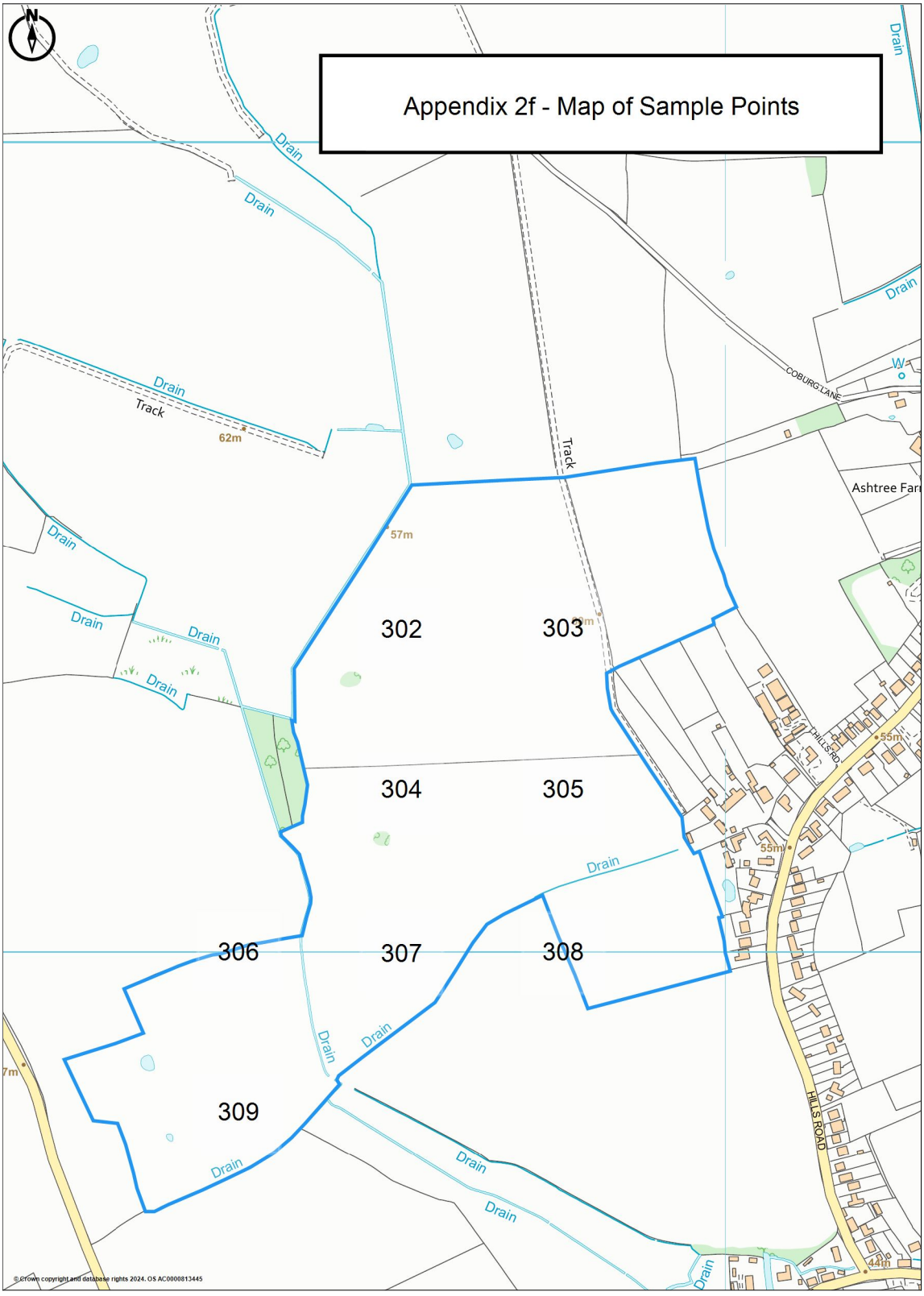


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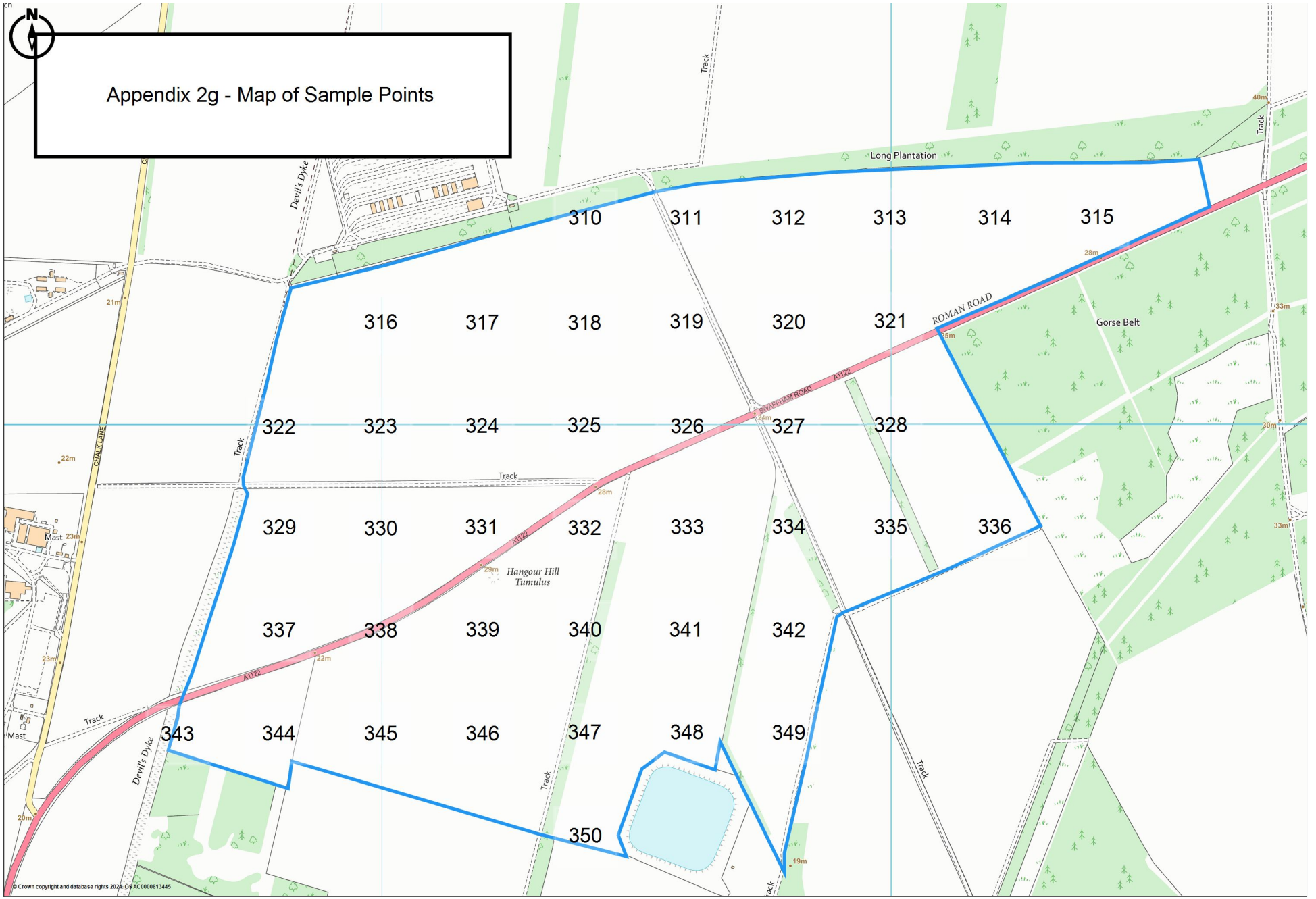
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LANDMARK INFORMATION

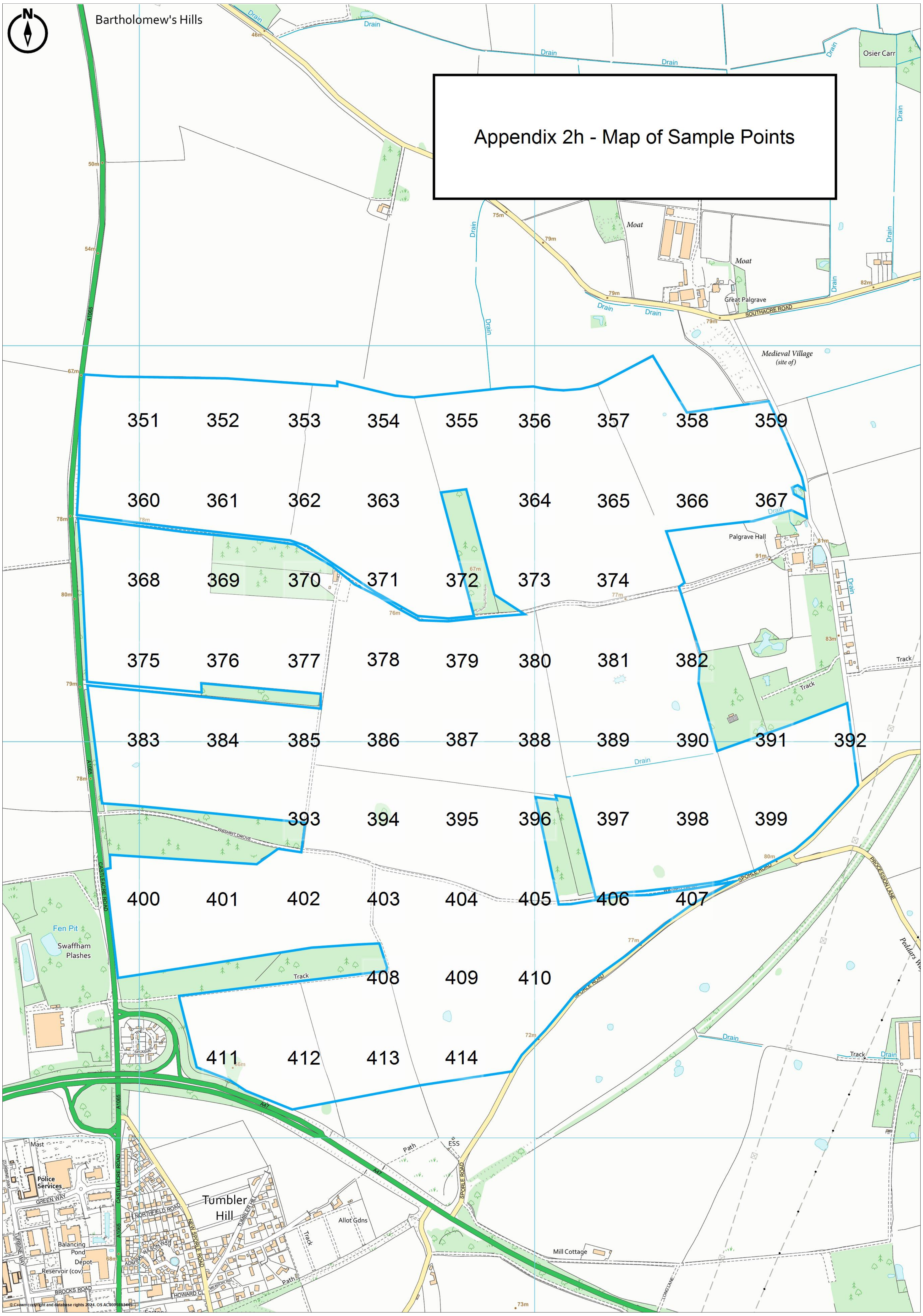
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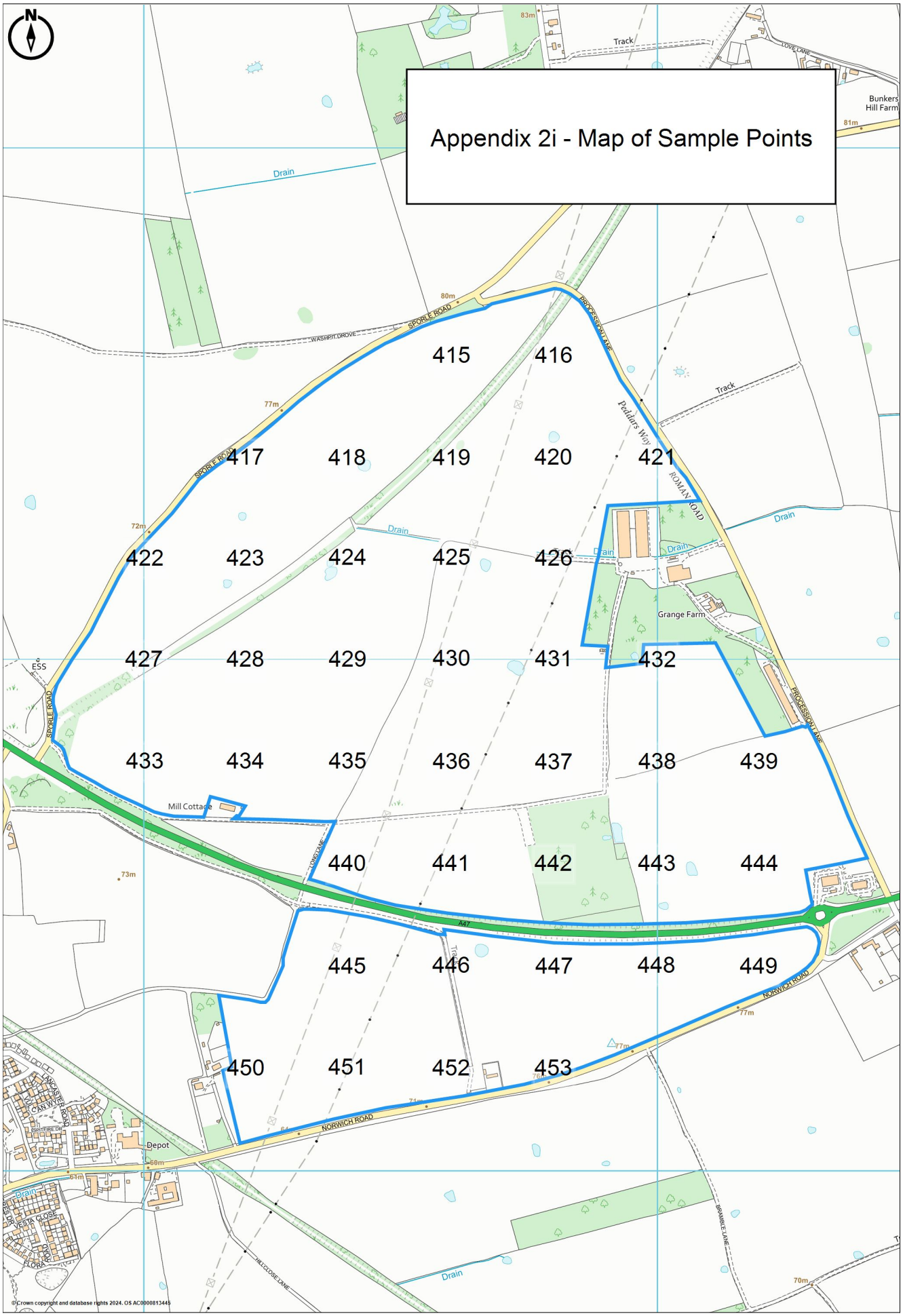
Appendix 2h - Map of Sample Points



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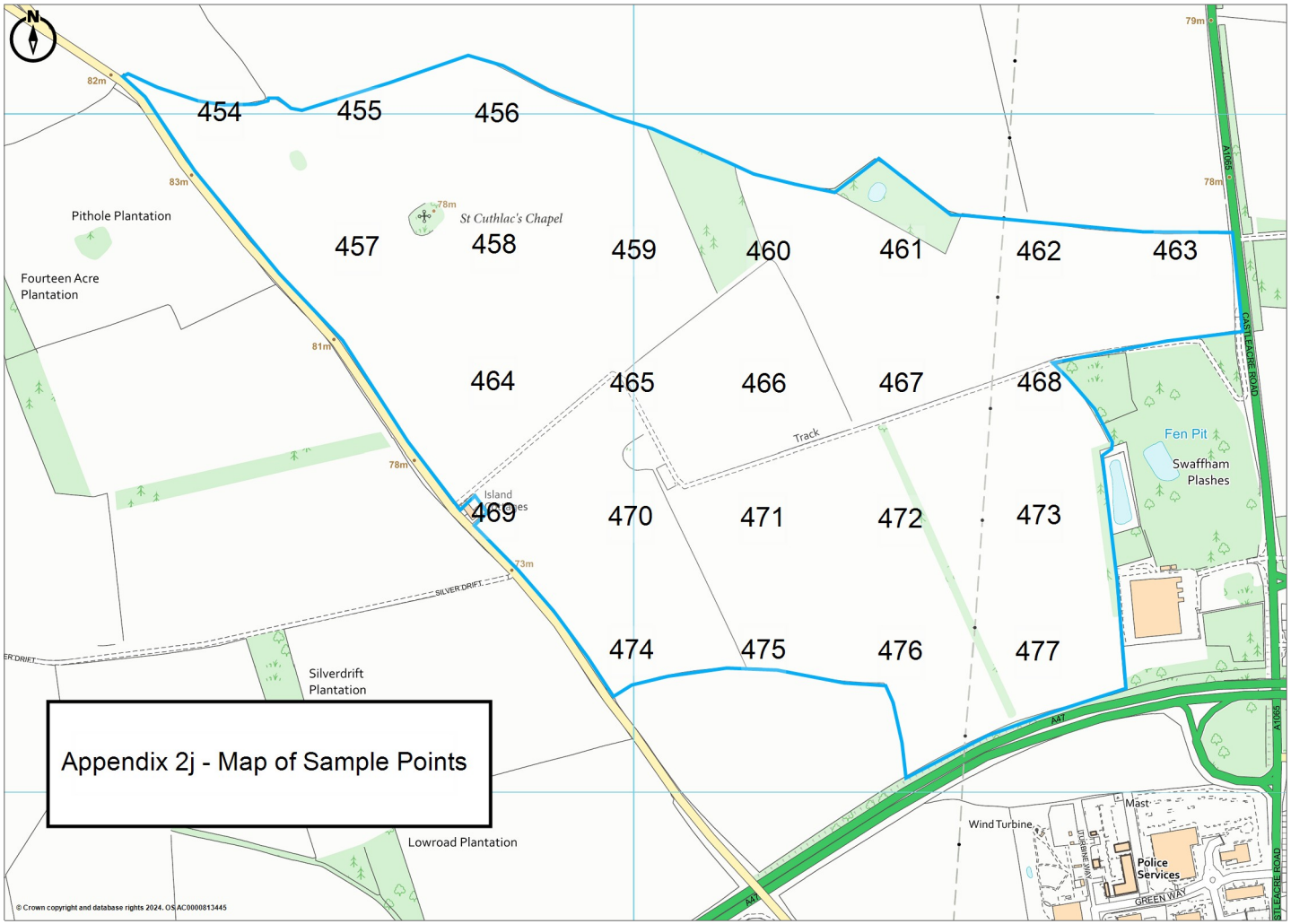
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Appendix 2i - Map of Sample Points



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Appendix 2j - Map of Sample Points

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Appendix 3 – Climatic Data

Site Details: NSIP Norfolk Map a

Grid reference (centre of site): 584958 310874

Altitude: Mean 69.94m AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5800 3100	71	670	1.1	335	1357	2361	105	96	137
5800 3150	29	679	1.1	340	1403	2412	108	101	141
5850 3100	61	702	0.8	355	1367	2374	102	93	148
5850 3150	65	699	0.9	360	1361	2367	100	91	150

Altitude Adjusted

GRID REFERENCE	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5800 3100	71	670	1.1	335	1357	2361	105	96	137
5800 3150	29	679	1.1	340	1403	2412	108	101	141
5850 3100	61	702	0.8	355	1367	2374	102	93	148
5850 3150	65	699	0.9	360	1361	2367	100	91	150

Site Details: NSIP Norfolk Map b

Grid reference (centre of site): 592034 312343

Altitude: Mean 56.35m AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5900 3100	59	700	0.7	350	1368	2377	103	94	148
5900 3150	69	729	0.7	355	1355	2363	101	92	152
5950 3100	82	713	1.2	360	1341	2349	99	89	149
5950 3150	54	699	81.2	340	1371	2383	106	98	144

Altitude Adjusted

GRID REFERENCE	AAR	ATO	FCD	MDW	MDP	PROXIMITY ADJUSTMENT
5900 3100	698.15	1371.02	147.73	103.40	94.53	31.84%
5900 3150	720.15	1369.42	150.72	102.92	94.53	27.38%
5950 3100	682.22	1370.24	144.55	103.79	95.28	21.45%
5950 3150	889.82	1368.32	171.59	92.40	80.50	19.33%

Site Details: NSIP Norfolk Map c

Grid reference (centre of site): 595367 310859

Altitude: Mean 75.92m AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5950 3100	82	713	1.2	360	1341	2349	99	89	149
5950 3150	54	699	1.2	340	1371	2383	106	98	144
6000 3100	57	670	1.6	335	1368	2381	107	99	137
6000 3150	61	659	1.6	315	1362	2375	110	103	133

Altitude Adjusted

GRID REFERENCE	AAR	ATO	FCD	MDW	MDP	PROXIMITY ADJUSTMENT
5950 3100	705.70	1347.93	147.94	100.13	90.49	89.90%
5950 3150	725.30	1346.01	147.80	101.91	92.63	4.54%
6000 3100	700.27	1346.43	141.38	102.94	93.69	3.53%
6000 3150	682.87	1344.99	136.45	106.80	98.81	2.03%

Site Details: NSIP Norfolk Map d

Grid reference (centre of site): 594380 308455

Altitude: Mean 76m AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5900 3050	73	692	0.7	345	1355	2363	103	94	146
5900 3100	59	700	0.7	350	1368	2377	103	94	148
5950 3050	67	715	0.9	345	1360	2371	104	95	153
5950 3100	82	713	1.2	360	1341	2349	99	89	149

Altitude Adjusted

GRID REFERENCE	AAR	ATO	FCD	MDW	MDP	PROXIMITY ADJUSTMENT
5900 3050	694.10	1351.58	146.30	102.55	93.40	6.17%
5900 3100	711.90	1348.62	149.72	100.42	90.60	8.91%
5950 3050	723.10	1349.74	154.17	102.51	93.04	15.59%
5950 3100	705.80	1347.84	147.96	100.12	90.47	69.33%

Site Details: NSIP Norfolk Map e

Grid reference (centre of site): 590810 306651

Altitude: Mean 79.26m AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5900 3050	73	692	0.7	345	1355	2363	103	94	146
5900 3100	59	700	0.7	350	1368	2377	103	94	148
5950 3050	67	715	0.9	345	1360	2371	104	95	153
5950 3100	82	713	1.2	360	1341	2349	99	89	149

Altitude Adjusted

GRID REFERENCE	AAR	ATO	FCD	MDW	MDP	PROXIMITY ADJUSTMENT
5900 3050	696.38	1347.86	146.63	102.05	92.75	63.73%
5900 3100	714.18	1344.90	150.05	99.93	89.95	18.15%
5950 3050	726.03	1346.02	154.60	101.97	92.33	10.63%
5950 3100	709.71	1344.12	148.52	99.51	89.67	7.49%

Site Details: NSIP Norfolk Map f

Grid reference (centre of site): 589640 303143

Altitude: Mean 55.5m AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5850 3000	33	639	0.9	330	1404	2415	110	104	129
5850 3050	46	679	0.8	340	1387	2396	107	99	141
5900 3000	40	650	0.9	330	1395	2407	110	103	134
5900 3050	73	692	0.7	345	1355	2363	103	94	146

Altitude Adjusted

GRID REFERENCE	AAR	ATO	FCD	MDW	MDP	PROXIMITY ADJUSTMENT
5850 3000	659.25	1378.35	131.93	106.27	99.10	7.06%
5850 3050	686.60	1376.17	142.10	105.49	97.02	8.87%
5900 3000	663.95	1377.33	136.02	107.43	99.62	22.14%
5900 3050	679.75	1374.95	144.23	105.65	97.50	61.93%

Site Details: NSIP Norfolk Map g

Grid reference (centre of site): 575531 308907

Altitude: Mean 26.55m AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5750 3050	13	636	1.1	320	1427	2436	114	109	124
5750 3100	22	634	1.1	320	1414	2422	113	107	126
5800 3050	38	649	0.9	325	1397	2405	111	104	131
5800 3100	71	670	1.1	335	1357	2361	105	96	137

Altitude Adjusted

GRID REFERENCE	AAR	ATO	FCD	MDW	MDP	PROXIMITY ADJUSTMENT
5750 3050	650.91	1411.55	126.16	111.57	105.80	7.87%
5750 3100	639.01	1408.81	126.72	112.18	105.93	82.87%
5800 3050	638.70	1410.05	129.51	112.90	106.49	3.47%
5800 3100	621.11	1407.67	129.93	112.98	106.48	5.78%

Site Details: NSIP Norfolk Map h

Grid reference (centre of site): 582840 311068

Altitude: Mean 76.38m AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5800 3100	71	670	1.1	335	1357	2361	105	96	137
5800 3150	29	679	1.1	340	1403	2412	108	101	141
5850 3100	61	702	0.8	355	1367	2374	102	93	148
5850 3150	65	699	0.9	360	1361	2367	100	91	150

Altitude Adjusted

GRID REFERENCE	AAR	ATO	FCD	MDW	MDP	PROXIMITY ADJUSTMENT
5800 3100	675.92	1350.87	137.86	104.03	94.73	29.12%
5800 3150	731.12	1348.99	148.54	99.49	89.83	11.39%
5850 3100	714.30	1349.47	149.78	99.56	89.79	46.17%
5850 3150	709.24	1348.03	151.48	98.12	88.52	13.32%

Site Details: NSIP Norfolk Map i

Grid reference (centre of site): 583649 309957

Altitude: Mean 78.96 AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5800 3050	38	649	0.9	325	1397	2405	111	104	131
5800 3100	71	670	1.1	335	1357	2361	105	96	137
5850 3050	46	679	0.8	340	1387	2396	107	99	141
5850 3100	61	702	0.8	355	1367	2374	102	93	148

Altitude Adjusted

Grid Reference	AAR	ATO	FCD	MDW	MDP	Proximity Adjustment
5800 3050	685.86	1350.31	136.33	104.22	95.08	3.84%
5800 3100	678.76	1347.93	138.27	103.57	94.12	10.94%
5850 3050	705.37	1349.43	144.81	101.77	92.12	5.52%
5850 3100	716.37	1346.53	150.08	99.15	89.25	79.70%
	710.48	1346.98	147.97	99.97	90.17	

Site Details: NSIP Norfolk Map j

Grid reference (centre of site): 581295 310543

Altitude: Mean 73.77 AOD

Climatic data from surrounding locations:

Grid Reference	ALT	AAR	LR_AAR	ASR	ATO	ATS	MDW	MDP	FCD
5800 3050	38	649	0.9	325	1397	2405	111	104	131
5800 3100	71	670	1.1	335	1357	2361	105	96	137
5850 3050	46	679	0.8	340	1387	2396	107	99	141
5850 3100	61	702	0.8	355	1367	2374	102	93	148

Altitude Adjusted

Grid Reference	AAR	ATO	FCD	MDW	MDP	Proximity Adjustment
5800 3050	681.19	1356.22	135.66	105.08	96.21	4.88%
5800 3100	673.05	1353.84	137.44	104.50	95.35	80.27%
5850 3050	701.22	1355.34	144.21	102.60	93.20	3.56%
5850 3100	712.22	1352.44	149.48	99.97	90.33	11.29%

Appendix 4a - Sample Point Assessment

		Topsoil					Upper Subsoil						Lower Subsoil						Grade	Grade	Grade	Wetness Assesment			Grade	Droughtiness Assessment		Grade	Grade by
																			limit by	limit by	limit by	Depth to		Wetness	limit by	MB	MB	limit by	most limiting
Sample No	Altitude	Depth	Texture	Colour	Stoniness	Mottles	Depth	Texture	Colour	Stoniness	Mottles	Structure	Depth	Texture	Colour	Stoniness	Mottles	Structure	texture	Depth	Stoniness	SPL	Gley	Class	Wetness	Wheat	Potato	Droughtiness	factor
Map a																													
1	81	0-35	mSL	10YR 4/3	5%		35-60	LmS	5YR 4/6		CO	Moderate	60-80	SC	10YR 6/2		MO	Poor				60	60	II	1	23.55	0.97	2	2
2	79	0-35	SCL	10YR 4/2	5%		35-120	C	10YR 6/4		CO	CAB										35	35	IV	3b	24.55	10.97	2	3b
3	80	0-40	SCL	10YR 4/2	5%		40-60	SCL	7.5YR 4/4			Moderate	60-80	SC	10YR 5/3		CO	Poor				60	60	II	2				2
4	81	0-40	SCL	10YR 4/2	5%		40-120	C	10YR 6/2		MO	Poor										40	40	IV	3b				3b
5	82	0-40	SCL	10YR 4/2	5%		40-60	C	10YR 6/2		MO	Poor										40	40	IV	3b				3b
6	81	0-35	SCL	10YR 4/2	5%		35-70	C	10YR 6/4		COB	Poor	70-120	C	10YR 6/2		MO	Poor			2	35	35	IV	3b				3b
7	81	0-40	mSL	10YR 4/2	5%		40-65	mSL	10YR 5/2		COB	Moderate	65-120	C	10YR 5/2		MO	Poor			2			I	1	32.57	15.07	1	2
8	80	0-30	SCL	10YR 4/2	5%		30-120	C	10YR 6/2		MO	Poor										30	30	IV	3b				3b
9	82	0-40	SC	10YR 4/2	2%		40-120	C	10YR 5/2		CO	Poor										40	40	IV	3b				3b
10	81	0-40	SC	10YR 4/2	2%		40-120	C	10YR 5/2		CO	Poor										40	40	IV	3b				3b
11	83	0-35	Calc mSL	10YR 4/2			35-45	mSL	10YR 4/3		CO	Moderate	45-120	mSL	10YR 6/2		MOB	Moderate						I	1	50.57	15.35	1	1
12	82	0-35	Calc SCL	10YR 4/2			35-120	LmS	10YR 5/2		CO	Moderate											35	I	1	14.35	-0.23	2	2
13	83	0-40	mSL	10YR 4/2	5%		40-70	mSL	10YR 4/1		CO	Moderate	70-120	SCL	10YR 5/2		VMOB	Moderate			2			I	1	32.57	15.07	1	2
14	80	0-40	SC	10YR 4/2	2%		40-120	C	10YR 5/2		CO	Poor										40	40	IV	3b				3b
15	77	0-35	SC	10YR 4/2	2%		35-60	SC	7.5YR 5/3		CO	Moderate	60-120	mSL	7.5YR 4/4			Moderate					35	I	3a				3a
16	72	0-30	SCL	10YR 4/2			30-70	Calc C	7.5YR 5/2		MO	Poor	70	IMP								30	30	IV	3b				3b
17	67	0-40	SCL	10YR 4/2	5%		40-70	Calc C	7.5YR 5/2		MO	Poor	70	IMP							2	30	30	IV	3b				3b
18	82	0-40	SCL	10YR 4/2	2%		40-120	C	10YR 5/2		MOB	Poor										40	40	IV	3b				3b
19	80	0-30	SCL	10YR 4/3	5%		30-60	mSL	10YR 5/4	5%	MOB	Poor	60-120	Calc C	10YR 6/2		MOB	Poor		63.39	2	60	60	II	2				2
20	78	0-45	mSL	10YR 4/2			45-60	SCL	10YR 5/3			Poor	60	IMP								45	45	III	2	-14.93	0.2	3a	3a
21	75	0-45	SCL	10YR 4/2			45-65	Calc C	10YR 6/2		MOB	Poor	65	IMP								45	45	III	3a				3a
22	71	0-40	SCL	10YR 4/2	5%		40-60	SCL	7.5YR 4/4			Moderate	60-120	SC	7.5YR 5/3		FO	Poor			2	60	60	II	2				2
23	66	0-40	SCL	10YR 4/2	5%		40-60	SCL	7.5YR 4/4			Moderate	60-120	SC	7.5YR 5/3		FO	Poor			2	60	60	II	2				2
24	81	0-35	Calc SCL	10YR 4/2			35-120	mSL	10YR 4/4		COB	Moderate												I	1	50.57	15.35	1	1
25	78	0-30	SCL	10YR 4/3	5%		30-40	SCL	10YR 4/4	5%		Moderate	40-120	Calc C	2.5Y 6/4		MOB	Poor			2	40	40	IV	3b				3b
26	79	0-40	SCL	10YR 4/2			40-120	LmS	10YR 4/3	10%	MOB	Moderate												I	1	18.35	3.77	2	2
27	76	0-30	SCL	10YR 4/2			30-45	SCL	10YR 6/4		FO	Poor	45-120	Calc C	10YR 6/2		MOB	Poor				30	30	IV	3b				3b
28	74	0-35	Calc SC	10YR 4/2	5%		35-80	C	10YR 5/3		COB	Poor	80	IMP							2	35	35	IV	3b				3b
29	72	0-40	mSL	10YR 4/3	5%		40-60	LmS	7.5YR 4/4	5%		Moderate	60-80	SC	7.5YR 5/3		FO	Poor			2	60	60	II	1	27.15	4.57	2	2
30	71	0-40	mSL	10YR 4/2			30-50	SCL	10YR 5/4			Moderate	50-120	Calc C	10YR 6/4		MO	Poor				50	50	III	2				2
31	67	0-40	mSL	10YR 4/3	5%		40-60	LmS	7.5YR 4/4	5%		Moderate	60-80	SC	7.5YR 5/3		FO	Poor			2	60	60	II	1	27.15	4.57	2	2
32	68	0-40	mSL	10YR 4/3	2%		40-60	mSL	7.5YR 5/6	5%	FO	Moderate	60-80	Calc SCL	10YR 6/2		MO	Poor			2			I	1	22.07	18.49	2	2
33	67	0-35	mSL	10YR 4/3	5%		35-60	mSL	7.5YR 4/4	5%	FO	Moderate	60-120	LmS	10YR 6/2			Moderate			2			I	1	23.87	10.1	2	2
34	66	0-35	mSL	10YR 4/2			35-50	SCL	10YR 3/4	5%	MOB	Moderate	50-120	Calc C	10YR 5/6	5%	FOB	Poor				50	50	III	2				2
35	63	0-40	SCL	10YR 4/2	5%		40-50	SCL	10YR 5/4	5%	MO	Moderate	50-80	mSL	10YR 5/6			Moderate			2			I	1			1	1
36	65	0-40	SCL	10YR 4/2	5%		40-50	SCL	10YR 5/4	5%	MO	Moderate	50-80	mSL	10YR 5/6			Moderate			2			I	1			1	
37	66	0-35	SCL	10YR 4/2	5%		35-70	SCL	10YR 5/3	5%	MO	Poor	70	IMP							2	35	35	IV	3b				3b
38	56	0-35	SCL	10YR 4/2	5%	VFO	35-45	SCL	10YR 4/4	5%	FO	Moderate	45-120	Calc C	10YR 5/6	5%	FOB	Moderate			2			I	1			1	1
39	57	0-50	mSL	10YR 3/2	5%		50-60	mSL	10YR 5/4			Moderate	60	IMP							2			I	1	-7.93	5.49	3a	3a
40	57	0-40	mSL	10YR 4/3	5%		40-50	mSL	10YR 5/4	10%		Moderate	50	IMP							2			I	1	-18.93	-9.51	3a	3a
41	60	0-40	mSL	10YR 4/3	10%		40-60	mSL	10YR 5/4	10%	FOB	Moderate	60	IMP							2			I	1	-7.93	5.49	3a	3a
42	51	0-40	LmS	10YR 4/3	5%		40-60	LmS	10YR 4/4	5%		Moderate	60	IMP							2			I	1	-36.05	-23.63	3b	3b
43	53	0-55	mSL	10YR 4/2	5%		50-120	SCL	10YR 5/3			WMAB									2	50	50	III	2				2
44	55	0-40	SCL	10YR 4/2	5%		40-120	C	10YR 5/3		FOB	Poor									2	40	40	IV	3b				3b
45	50	0-40	mSL	10YR 4/3	5%		40-120	mSL	10YR 5/4	10%		MSAB									2			I	1	61.8	19.8	1	2
46	49	0-30	Calc SCL	10YR 4/2	7%		30-70	Calc C	10YR 6/4	5%		CAB	70	IMP							2	30	30	IV	3b	30.86	17.41	1	3b
47	48	0-50	mSL	10YR 4/2	5%		50-70	mSL	10YR 5/4	5%		Moderate	70-120	LmS	10YR 5/4	5%		Moderate			2			I	1	29.75	18.27	2	2
48	46	0-35	LmS	10YR 4/2	5%		35-70	LmS	10YR 3/6	5%		Moderate	70	IMP							2			I	1	-31.75	-16.33	3b	3b
49	48	0-50	LmS	10YR 4/2	5%		50-70	LmS	10YR 5/4	5%		Moderate	70-120	mS	10YR 5/6			Moderate			2			I	1	-2.25	-12.13	3a	3a
	69.94																												
Map b																													
50	65	0-40	Calc SCL	10YR 4/2	5%		40-120	Calc C	2.5Y 5/2		COB	Poor										40	40	IV	3b				3b
51	68	0-35	SCL	10YR 4/2	5%		35-70	SCL	2.5Y 5/3		CO	Poor	70-120	SC	2.5Y 5/3		CO	Poor				35	35	IV	3b				3b
52	69	0-35	SCL	10YR 4/2	5%		35-60	SCL	2.5Y 5/3		CO	Poor	60-120	Calc C	2.5Y 6/2		CO	Poor				35	35	IV	3b				3b
53	63	0-45	Calc SCL	10YR 4/2	5%		45-120	Calc C	2.5Y 5/3		CO	Poor										45	45	III	3a				3a
54	65	0-40	Calc SCL	10YR 4/2	5%		40-120	Calc C	2.5Y 5/3		COB	Poor										40	40	IV	3b				3b
55	66	0-40	SCL	10YR 4/2	2%		40-70	C	2.5Y 5/3		CO	Poor	70-120	C	2.5Y 5/2		CO	Poor				40	40	IV	3b				3b
56	65	0-35	SCL	10YR 4/2	2%		35-50	C	2.5Y 5/3		CO	Poor	50-120	Calc C	2.5Y 5/3		CO	Poor				35	35	IV	3b				3b
57	60	0-30	SCL	10YR 4/2	5%		30-120	Calc C	2.5Y 6/2		CO	Poor										30	30	IV	3b				3b
58	64	0-30	SCL	10YR 4/2	2%		30-70	C	2.5Y 6/4		COB	Poor	70-120	Calc C	2.5Y 5/2		CO	M Poor				30	30	IV	3b				3b
59	65	0-35	SCL	10YR 4/2	2%		35-60	C	2.5Y 5/3		CO	Poor	60-120	C	2.5Y 5/2		CO	Poor				35	35	IV	3b				3b
60	62	0-35	SCL	10YR 4/2	2%		35-50	SC	2.5Y 6/3		CO	Poor	50-120	C	2.5Y 6/2		CO	Poor				35	35	IV	3b				3b
61	62	0-35	SCL	10YR 4/2	3%		35-70	C	2.5Y 6/4		CO	Poor	70-120	Calc C	2.5Y 5/2		CO	M Poor				35	35	IV	3b				3b
62	64	0-35	SL	10YR 4/2	2%		35-70	C	2.5Y 5/3		CO	Poor	70-120	C	2.5Y 5/2		CO	Poor				35	35	IV	3a				3a
63	62	0-35	SCL	10YR 4/2	2%		35-50	SC	2.5Y 6/3		CO	Poor	50-120	C	2.5Y 6/2		CO	Poor				35	35	IV	3b				3b
64	53	0-30	SCL	10YR 4/2	3%		30-70	C	2.5Y 6/4		FO	CSAB	70-120	Calc C	2.5Y 6/2		CO	Massive				70	30	II	2	31.33	21.58	1	2
65	58	0-45	SCL	10YR 4/2	5%		45-70	SCL	10YR 5/3		CO	Moderate	70-120	Calc SCL	2.5Y 5/4		CO	Poor				70	45	II	2				2
66	54	0-30	SCL	10YR 3/2	3%		30-70	SCL	10YR 5/3		CO	WCSAB	70-120	Calc SCL	2.5Y 5/4		CO	Massive				30	30	IV	3b	38.33	17.58	1	3b
67	52	0-40	SCL	10YR 4/2	5%		40-60	SCL	10YR 5/3	5%	COB	Moderate	60	IMP									35	II	2	-9.23	5.02	3a	3a
68	64	0-35	SCL	10YR 4/2	4%		35-60	SCL	10YR 5/3		COB	Moderate	60-120	Calc C	5Y 6/2		CO	Poor				60	35	III	3a				3a
69	61	0-30	SCL	10YR 4/2	3%		30-60	SCL	2.5Y 5/3		CO	Moderate	60-120	Calc C	5Y 5/3		COB	Poor				60	30	III	3a				3a
70	58	0-40	SCL	10YR 4/2	4%		40-75	SCL	10YR 5/3		CO	Moderate	75-120	Calc C	5Y 5/3		CO	Poor				75	40	II	2				2
71	54	0-30	SCL	10YR 3/2	5%		30-60	SC	10YR 5/3		CO	Moderate	60-120	Calc C	5Y 6/2		CO	Poor				60	30	III	3a				3a
72	64	0-30	SCL	10YR 4/2	4%		30-70	SCL	10YR 5/4			Poor	70-120	Calc C	2.5Y 6/2		CO	Poor				30	30	IV	3b				3b
73	65	0-45	SCL	10YR 4/2	4%		45-120	SCL	10YR 5/6		CO	Poor										45	45	III	3a				3a
74	61	0-35	SCL	10YR 4/2	4%		35-70	C	2.5Y 5/3		CO	Moderate	70-120	Calc C	5Y 5/3		CO	Poor				70	35	II	2				2
75	54	0-30	SCL	10YR 4/2	4%		30-60	SC	2.5Y 5/2		COB	Moderate	60	IMP								30	30	IV	3b				3b
76	51	0-30	SCL	10YR 4/2	6%		30-50	SCL	10YR 4/4	5%		Poor	50	IMP										I	1	-10.23	-0.98	3a	3a
77	51	0-30	SCL	10YR 4/2	4%		30-70	SCL	10YR 5/4			Poor	70-120	Calc C	2.5Y 6/2		CO	Poor				30	30	IV	3b				3b
78	53	0-40	SL	10YR 4/2	4%		40-50	SL	10YR 5/3	5%		Moderate	50	IMP									40	I	1	-18.23	-8.98	3a	3a

		Topsoil					Upper Subsoil						Lower Subsoil						Grade	Grade	Grade	Wetness Assesment			Grade	Droughtiness Assessment		Grade	Grade by
Sample No	Altitude	Depth	Texture	Colour	Stoniness	Mottles	Depth	Texture	Colour	Stoniness	Mottles	Structure	Depth	Texture	Colour	Stoniness	Mottles	Structure	limit by texture	limit by Depth	limit by Stoniness	Depth to SPL	Gley	Wetness Class	limit by Wetness	MB Wheat	MB Potato	limit by Droughtiness	most limiting factor
79	59	0-30	SCL	10YR 4/2	4%		30-65	SCL	10YR 5/3	5%	COB	Poor	65-85	SC	2.5Y 6/3		CO	Poor				30	30	IV	3b				3b
81	57	0-35	SL	10YR 4/2	5%		35-90	SL	2.5Y 6/4	2%	CO	CAB	90-120	C	2.5Y 5/4		COB	Poor				90	35	I	1				1
82	56	0-40	SCL	10YR 4/2	5%		40-50	C	10YR 5/3			Poor	50	IMP								40	40	IV	3b				3b
83	55	0-35	SCL	10YR 4/2	4%		35-70	SCL	10YR 5/3	5%	COB	Poor	70-120	C	2.5Y 6/3		CO	Poor				35	35	IV	3b				3b
86	59	0-35	SCL	10YR 4/2	4%		35-60	CL	2.5Y 5/3			Moderate	60-120	C	2.5Y 5/3		COB	Poor				60	35	III	3a				3a
87	57	0-30	SCL	10YR 4/2	4%		30-120	C	2.5Y 5/3		COB	Poor										30	30	IV	3b				3b
88	56	0-40	SCL	10YR 4/2	3%		40-75	SC	2.5Y 5/2		CO	Poor	75-120	Calc C	2.5Y 6/4		CO	Poor				40	40	IV	3b				3b
89	55	0-35	SCL	10YR 4/2	3%		35-65	SCL	2.5Y 5/3			Poor	65-120	C	2.5Y 6/4		CO	Poor				35	35	IV	3b				3b
90	53	0-40	SL	10YR 4/2	4%		40-60	SCL	10YR 5/3	5%		Poor	60	IMP								40	40	IV	3a				3a
93	64	0-30	SCL	10YR 4/2	4%		30-70	SC	2.5Y 5/3		CO	Moderate	70-120	Calc C	2.5Y 6/4		CO	Poor				70	30	II	2				2
94	60	0-40	SCL	10YR 4/2	3%		40-70	SCL	2.5Y 5/3		CO	Poor	70-120	C	2.5Y 6/4		CO	Poor				40	40	IV	3b				3b
97	68	0-40	SCL	10YR 4/2	10%		40-70	Calc SC	10YR 6/1			CAB	70	IMP								40	40	IV	3b				3b
101	79	0-35	mSL	10YR 4/2	4%		35-80	LmS	10YR 6/4		COB	Moderate	80	IMP									35	I	1	-10.23	-0.98	3a	3a
102	78	0-40	mSL	10YR 4/2	2%	FO	40-70	C	10YR 6/1	2%	COB	Poor	70-120	Calc C	10YR 6/1	5%		Poor				40	40	IV	3a				3a
103	77	0-40	mSL	10YR 4/2	2%		40-120	LmS	10YR 4/4	5%	MOB	Moderate												I	1				1
104	76	0-40	mSL	10YR 4/2	2%		40-120	Calc LmS	10YR 4/4	7%	MOB	Moderate												I	1				1
105	75	0-50	SCL	10YR 4/2	10%		50-65	SCL	10YR 6/1	10%	FOB	Moderate	65-120	SC	10YR 6/2		MOB	Poor				65	50	II	2				2
106	74	0-35	mSL	10YR 4/2	7%		35-120	mSL	10YR 4/2		MOB	Moderate											35	I	1				1
107	74	0-45	SCL	10YR 4/2	10%		45-90	SC	10YR 6/2	5%	MOB	Poor	90	IMP								45	45	III	3a				3a
108	73	0-40	SCL	10YR 4/2	10%		40-120	SC	10YR 4/3	5%	FOB	Poor												I	1				1
111	80	0-30	SCL	10YR 4/3	2%		35-70	LmS	10YR 4/3	5%	MO	Moderate	70	IMP										I	1	-12.23	3.02	3a	3a
112	74	0-45	mSL	10YR 4/2	7%		45-70	SC	10YR 4/4		MOB	Poor	70-120	C	10YR 6/2	10%	MOB	Poor				70	70	II	1				1
113	76	0-40	SCL	10YR 4/2	3%		40-70	SC	10YR 4/4	5%	MO	Poor	70-120	Calc C	10YR 6/4	5%	MOB	Poor				70	70	II	2				2
114	81	0-30	SCL	10YR 4/2	7%		30-65	SC	10YR 4/3	5%	MOB	Poor	65-120	SCL	10YR 4/3		VMOB	Poor				65	65	II	2				2
115	83	0-40	SCL	10YR 4/2	10%		40-80	Calc C	10YR 6/1	10%	CO	Poor	80	IMP								40	40	IV	3b				3b
116	84	0-35	SCL	10YR 4/2	10%		35-90	Calc C	10YR 6/1	5%	CO	Poor	90	IMP								35	35	IV	3b				3b
117	77	0-45	SCL	10YR 4/2	7%		45-120	SCL	10YR 6/2		COB	Poor										45	45	III	3a				3a
118	81	0-35	SCL	10YR 4/1	10%	FO	35-120	SCL	10YR 6/1		COB	Poor										35	35	IV	3b				3b
119	83	0-40	SCL	10YR 4/2			40-120	SCL	10YR 6/1	2%	COB	Poor										40	40	IV	3b				3b
120	82	0-40	SCL	10YR 4/2	8%		40-75	Calc C	10YR 6/4	10%	CO	Massive	75	IMP								40	40	IV	3b				3b
121	74	0-40	SCL	10YR 4/2	5%		40-120	SCL	10YR 6/2		COB	Poor										40	40	IV	3b				3b
122	75	0-35	SCL	10YR 4/2	5%		35-120	SCL	10YR 6/2		COB	Poor										35	35	IV	3b				3b
123	78	0-35	SCL	10YR 4/2			35-120	SCL	10YR 6/2		COB	Poor										35	35	IV	3b				3b
124	70	0-30	SCL	10YR 4/2	7%		30-120	SCL	10YR 4/1		MOB	Poor										30	30	IV	3b				3b
125	70	0-30	SCL	10YR 4/2	8%		30-120	SCL	10YR 4/1		MOB	Poor										30	30	IV	3b				3b
	65.02																												
Map c																													
126	56	0-30	SCL	10YR 4/2	5%		30-55	SC	10YR 5/4			Moderate	55-120	Calc C	10YR 6/2		FOB	Poor			2	55	55	II	2				2
127	61	0-30	SCL	10YR 4/2			30-50	SC	10YR 6/3		CO	CAB	50-120	Calc C	10YR 7/1		MO	Massive				30	30	IV	3b	29.55	16.13	2	3b
128	59	0-35	SCL	10YR 4/2	2%		35-50	SC	10YR 5/3		CO	CAB	50-120	Calc C	10YR 6/2		CO	Poor				35	35	IV	3b				3b
129	61	0-30	SCL	10YR 4/2	2%		30-55	SC	10YR 5/3		COB	Poor	55-120	Calc C	10YR 5/3		CO	Poor				30	30	IV	3b				3b
130	69	0-30	SCL	10YR 4/2	2%		30-70	SC	10YR 5/3		CO	Poor	70-120	Calc C	10YR 5/2		CO	Poor				30	30	IV	3b				3b
131	70	0-30	Calc SCL	10YR 4/2	2%		30-60	Calc SC	10YR 5/3		CO	Poor	60-120	Calc C	10YR 6/2		CO	Poor				30	30	IV	3b				3b
132	69	0-30	SCL	10YR 4/2	2%		30-50	C	10YR 6/2		MOB	Poor	50-120	Calc C	10YR 6/1		MO	Poor				30	30	IV	3b				3b
133	69	0-30	SCL	10YR 4/2	5%		30-60	SC	10YR 6/4		COB	CAB	60-120	Calc C	10YR 6/4		MO	Poor			2	30	30	IV	3b				3b
134	63	0-35	SCL	10YR 4/2	5%		35-50	SC	10YR 6/4		FOB	Poor	50	IMP							2	35	35	IV	3b				3b
135	65	0-40	Calc SCL	10YR 4/2	5%		40-120	Calc C	10YR 6/3		CO	Poor									2	40	40	III	3a				3a
136	70	0-30	SCL	10YR 4/2	5%		30-60	C	10YR 6/4		MO	Poor	60-120	Calc C	10YR 6/2		MOB	Poor			2	30	30	IV	3b				3b
137	70	0-35	SCL	10YR 4/2			35-70	C	10YR 6/4		MO	Poor	70-120	Calc C	10YR 6/3		CO	Poor				35	35	IV	3b				3b
138	71	0-35	SCL	10YR 4/2			35-50	C	10YR 5/4			Poor	50-120	Calc C	10YR 6/1		MO	Poor				50	50	III	3a				3a
139	71	0-35	SCL	10YR 4/2	2%		35-70	SC	10YR 6/4		FO	Poor	70-120	Calc C	10YR 6/1		MOB	Poor				35	35	IV	3b				3b
140	71	0-40	SCL	10YR 4/2	5%		40-120	SC	10YR 6/4		MO	Poor									2	40	40	III	3a				3a
141	71	0-35	SCL	10YR 4/2	5%		35-50	SC	10YR 6/4		MO	Poor	50-120	Calc C	10YR 6/4		MO	Poor			2	35	35	IV	3b				3b
142	71	0-50	SCL	10YR 4/2	5%		50-60	SC	10YR 6/4		FOB	Poor	60-120	Calc C	10YR 6/2		FOB	Poor			2	50	50	III	3a				3a
143	71	0-45	SCL	10YR 4/2	5%		45-120	Calc C	10YR 6/2		FOB	Poor									2	45	45	III	3a				3a
144	65	0-40	Calc SCL	10YR 4/2	5%		40-65	SC	10YR 5/3		FOB	Poor	65	IMP							2	40	40	III	3a				3a
145	65	0-40	SCL	10YR 4/2	5%		40-60	SC	10YR 5/3		CO	CAB	60-90	SC	10YR 6/3		CO	CAB			2	40	40	III	3a	33.35	12.93	1	3a
146	72	0-30	Calc SCL	10YR 4/2			30-120	Calc C	10YR 6/2		MO	Poor										30	30	IV	3b				3b
147	71	0-25	SCL	10YR 4/2			25-60	C	10YR 6/4		MOB	Poor	60-120	Calc C	10YR 6/2		MO	Poor				25	25	IV	3b				3b
148	73	0-35	SCL	10YR 4/2	5%		35-120	C	10YR 6/4		MOB	Poor									2	35	35	IV	3b				3b
149	73	0-40	SCL	10YR 4/2	5%		40-60	C	10YR 5/4		FO	Moderate	60-120	Calc C	10YR 6/2		MO	Poor			2	60	60	II	2				2
150	72	0-40	SCL	10YR 4/2	5%		40-60	SC	10YR 6/4		FOB	Moderate	60-120	Calc C	10YR 6/4		COB	Poor			2	60	40	III	3a				3a
151	71	0-40	SCL	10YR 4/2	5%		40-70	SC	10YR 6/4		COB	Moderate	70-120	Calc C	10YR 6/4		COB	Poor			2	70	40	II	2				2
152	71	0-45	SCL	10YR 4/2	5%		45-50	SC	10YR 6/4		MOB	Moderate	50-120	Calc C	10YR 6/2			Poor			2	50	45	III	3a				3a
153	71	0-40	SCL	10YR 4/2	5%		40-70	SC	10YR 6/4		FO	Moderate	70-120	Calc C	10YR 6/2		FOB	Poor			2	70	40	II	2				2
154	69	0-35	Calc SCL	10YR 4/2	3%		35-70	SC	10YR 5/3		CO	Poor	70	IMP								35	35	IV	3b				3b
155	68	0-40	Calc SCL	10YR 4/2	5%		30-60	SC	10YR 5/4		CO	Moderate	60-70	Calc C	10YR 6/1		CO	Poor			2	60	60	II	2				2
156	80	0-30	Calc SCL	10YR 4/2			30-50	SC	10YR 5/2		MO	Poor	50-120	Calc C	10YR 6/1		MO	Poor				30	30	IV	3b				3b
157	79	0-30	SCL	10YR 4/2	5%		30-50	C	10YR 6/4		MO	Poor	50-120	Calc C	10YR 6/1		MO	Poor			2	30	30	IV	3b				3b
158	78	0-30	SCL	10YR 4/2			30-60	C	10YR 6/4		MO	Poor	60-120	Calc C	10YR 6/2		MO	Poor				30	30	IV	3b				3b
159	77	0-40	SCL	10YR 4/2	10%		40-120	Calc C	10YR 6/1		MO	Poor									2	40	40	III	3a	23.15	9.73	2	3a
160	75	0-40	SCL	10YR 4/2	5%		40-60	SC	10YR 6/4		COB	Moderate	60-120	Calc C	10YR 6/2		COB	Poor			2	60	40	III	3a				3a
161	74	0-30	SCL	10YR 4/2	10%		30-50	SC	10YR 6/4		FOB	Moderate	50-120	Calc C	10YR 6/2		COB	Poor			2	50	30	III	3a				3a
162	73	0-45	SCL	10YR 4/2	5%		45-60	SC	10YR 6/4		FO	Moderate	60-120	Calc C	10YR 6/2		FOB	Poor			2	60	45	II	2				2
163	72	0-40	SCL	10YR 4/2	5%		40-80	SC	10YR 6/4		MOB	Moderate	80-120	Calc C	10YR 6/2		FOB	Poor			2	80	40	II	2				2
164	74	0-35	Calc SCL	10YR 4/2	5%		35-65	Calc C	2.5Y 5/2		CO	Moderate	65-120	SC	10YR 5/2		CO	Poor			2	65	35	III	3a				3a
165	78	0-40	SCL	10YR 4/2	5%		40-60	C	2.5Y 5/2		COB	Moderate	60-120	Calc C	10YR 6/1		CO	Poor			2	60	40	III	3a				3a
166	74	0-40	Calc SCL	10YR 4/2	5%		40-120	Calc SC	10YR 6/2		CO	Poor									2	40	40	III	3a				3a
167	68	0-30	SCL	10YR 4/2			30-60	SC	10YR 6/4		FOB	Poor	60-120	SC	10YR 6/2		MO	Poor				30	30	IV	3b				3b
168	83	0-25	SCL	10YR 4/2	5%		25-50	C	10YR 6/4		MOB	Poor	50	IMP							2	25	25	IV	3b				3b
169	79	0-35	SCL	10YR 4/2	5%		35-50	SC	10YR 5/4		COB	Moderate	50-120	Calc C	10YR 6/2		MOB	Poor			2	50	50	III	3a				3a
170	76	0-35	SCL	10YR 4/2	5%		35-50	SC	10YR 5/3		FO	Moderate	50-120	C	10YR 6/4		COB	Poor			2	50	35	III	3a				3a

		Topsoil					Upper Subsoil						Lower Subsoil						Grade limit by	Grade limit by	Grade limit by	Wetness Assesment Depth to		Wetness	Grade limit by	Droughtiness Assessment MB	MB	Grade limit by	Grade by most limiting
Sample No	Altitude	Depth	Texture	Colour	Stoniness	Mottles	Depth	Texture	Colour	Stoniness	Mottles	Structure	Depth	Texture	Colour	Stoniness	Mottles	Structure	texture	Depth	Stoniness	SPL	Gley	Class	Wetness	Wheat	Potato	Droughtiness	factor
171	73	0-40	SCL	10YR 4/2	5%		40-60	SC	10YR 6/4		COB	Moderate	60-120	Calc C	10YR 6/2		COB	Poor			2	60	40	III	3a				3a
172	72	0-40	SCL	10YR 4/2	5%		40-60	SC	10YR 6/4		FO	Moderate	60-120	Calc C	10YR 6/2		COB	Poor			2	60	40	III	3a				3a
173	78	0-45	SCL	10YR 4/2	3%		45-60	SCL	10YR 4/3		FO	Moderate	60-120	SC	10YR 5/3		CO	Poor				60	60	II	2				2
174	76	0-40	SCL	10YR 4/2	5%		40-120	Calc SC	10YR 5/3		COB	Poor									2	40	40	III	3a				3a
175	75	0-30	SCL	10YR 4/2	5%		30-70	SC	10YR 6/4		COB	Poor	70-120	Calc C	10YR 6/2		MO	Poor			2	30	30	IV	3b				3b
176	74	0-30	SCL	10YR 4/2	10%		30-120	Calc C	10YR 6/4		MO	Poor									2	30	30	IV	3b				3b
177	84	0-30	SCL	10YR 4/2	10%		30-50	SC	10YR 5/3		FOB	Poor	50-120	C	10YR 6/3		COB	Poor			2	30	30	IV	3b				3b
178	82	0-30	SCL	10YR 4/2	10%		30-120	SC	10YR 5/3		FOB	C Prysm									2	30	30	IV	3b	20.75	7.33	2	3b
179	83	0-40	SCL	10YR 4/2	5%		40-120	Calc SC	10YR 6/2		CO	Poor									2	40	40	III	3a				3a
180	82	0-35	SCL	10YR 4/2			35-120	SC	10YR 5/3		CO	Poor										35	35	IV	3b				3b
181	85	0-35	SCL	10YR 4/2	5%		35-80	SC	10YR 6/3		CO	Poor	80-120	Calc SC	10YR 5/2		CO	Poor			2	35	35	IV	3b				3b
182	82	0-35	SCL	10YR 4/2	5%		35-70	LmS	7.5YR 5/6		COB	Moderate	70	IMP							2			I	1	-16.57	-0.99	3a	3a
183	83	0-35	SCL	10YR 4/2			35-60	SC	10YR 6/4		MO	Moderate	60-120	SC	10YR 6/2		MO	Poor				60	35	III	3a				3a
184	85	0-35	SCL	10YR 4/2			35-60	SC	10YR 6/4		MO	Moderate	60-120	SC	10YR 6/2		MO	Poor				60	35	III	3a				3a
185	86	0-30	SCL	10YR 4/2			30-60	SC	10YR 6/4		MO	Poor	60	IMP								30	30	IV	3b				3b
186	73	0-40	Calc mSL	10YR 4/2	5%		40-120	C	10YR 5/3		MOB	Poor									2	40	40	III	3a				3a
187	69	0-30	mSL	10YR 4/2	5%		30-120	SCL	10YR 4/1	5%	MOB	Moderate									2		30	II	2				2
188	83	0-35	SCL	10YR 4/2	5%		35-100	Calc SC	10YR 5/2		COB	Poor	100-120	C	10YR 5/2			Poor			2	35	35	IV	3b				3b
189	83	0-35	SCL	10YR 4/2	5%		35-70	SC	10YR 6/4		COB	Poor	70-120	SC	10YR 6/2		MOB	Poor			2	35	35	IV	3b				3b
190	84	0-35	SCL	10YR 4/2	5%		35-50	SC	10YR 6/4		FOB	Moderate	50-120	SC	10YR 6/2	2%	MO	Poor			2	50	35	III	3a				3a
191	85	0-35	SCL	10YR 4/2	5%		35-60	SC	10YR 6/4	5%	CO	Moderate	60-120	SC	10YR 6/2		MOB	Poor			2	60	35	III	3a				3a
192	86	0-35	SCL	10YR 4/2			35-60	SC	10YR 6/4		MO	Moderate	60-120	SC	10YR 6/2		MO	Poor				60	35	III	3a				3a
193	75	0-50	mSL	10YR 4/2	5%	FO	50-120	mSL	10YR 5/2		MOB	Moderate									2		50	I	2				2
194	74	0-45	mSL	10YR 4/2			45-120	Calc SCL	10YR 5/2		CO	Poor										45	45	III	3a				3a
195	72	0-40	mSL	10YR 4/2	5%		40-120	mSL	10YR 5/2		MOB	Moderate									2		40	I	2				2
196	70	0-35	Calc mSL	10YR 4/2	5%		35-120	Calc mSL	10YR 5/2		CO	Moderate									2		35	I	2				2
197	84	0-30	SCL	10YR 4/2			30-120	SC	10YR 6/4		FOB	Poor										30	30	IV	3b				3b
198	85	0-35	SCL	10YR 4/2	5%		35-60	SC	10YR 6/4		FOB	Moderate	60-120	SC	10YR 6/2	2%	MO	Poor			2	60	35	III	3a				3a
199	85	0-25	SCL	10YR 4/2	5%		25-60	SC	10YR 5/3		FO	Moderate	60-120	SC	10YR 6/4		COB	Poor			2	60	35	III	3a				3a
200	86	0-35	SCL	10YR 4/2	5%		35-50	Calc C	10YR 7/2	10%	MOB	Poor	50	IMP							2	35	35	IV	3b				3b
201	86	0-40	SCL	10YR 4/2	5%		40-50	SC	10YR 6/4		MO	Moderate	50-60	SC	10YR 6/2		MO	Poor			2	50	40	III	3a				3a
202	75	0-45	mSL	10YR 4/2	5%		45-120	mSL	10YR 4/4	5%	MOB	Moderate									2			I	1	57.43	20.1	1	1
203	75	0-35	mSL	10YR 4/3	2%		35-120	LmS	10YR 4/4	5%	CO	WMSAB												I	1	13.43	-0.99	2	2
a	80	0-30	SC	10YR 4/2	5%		30-60	SCL	7.5YR 5/3		COB	Moderate	60-120	Calc C	10YR 6/1		MO	Poor			2	60	30	III	3a				3a
b	83	0-30	SC	10YR 4/2	5%		30-60	SC	10YR 6/2		MO	Moderate	60-120	Calc C	10YR 6/1		MO	Poor			2	60	30	III	3a				3a
c	83	0-25	SCL	10YR 4/2	5%		25-60	SC	10YR 6/6			Moderate	60-120	Calc C	10YR 6/1		MO	Poor			2	60	25	III	3a				3a
d	83	0-30	SCL	10YR 4/2	5%		30-60	SC	7.5YR 5/3		MO	Poor	60-120	C	10YR 6/2		MO	Poor			2	30	30	IV	3b				3b
e	73	0-35	SCL	10YR 4/2	8%		35-70	Calc C	10YR 5/2		COB	Poor	70	IMP							2	35	35	IV	3b				3b
f	79	0-30	SC	10YR 4/2	5%		30-60	SCL	7.5YR 5/3		COB	Moderate	60-120	Calc C	10YR 6/1		MO	Poor			2	60	30	III	3a				3a
g	80	0-30	SC	10YR 4/2	5%		30-50	SC	10YR 6/4		FO	Moderate	50-120	Calc C	10YR 5/2		MO	Poor			2	50	30	III	3a				3a
h	78	0-35	SC	10YR 4/2	5%		35-50	SC	10YR 6/3		CO	Poor	50-120	Calc C	10YR 6/2		MO	Poor			2	35	35	IV	3b				3b
i	72	0-35	MCL	10YR 4/2			35-60	SCL	7.5YR 5/3		MO	Moderate	60-120	Calc C	10YR 6/2		MO	Poor				60	30	III	3a				3a
j	75	0-35	SC	10YR 4/2	5%		35-50	SC	10YR 6/3		CO	Poor	50-120	Calc C	10YR 6/2		MO	Poor			2	35	35	IV	3b				3b
	75.06																												
Map d																													
204	79	0-40	mSL	10YR 3/2	2%		40-80	LmS	10YR 4/4	5%	MO	Moderate	80	IMP										I	1	-8.59	-1.14	3a	3a
205	62	0-45	mSL	7.5YR 2.5/1	4%		45	IMP												2				I	1	-27.25	-10.8	3b	3b
206	64	0-35	mSL	10YR 3/2	1%		35	IMP												3a				I	1	-43.93	-27.48	3b	3b
207	65	0-55	SCL	10YR 3/2	2%		55	IMP												2				I	1	-10.57	5.88	3a	3a
208	66	0-45	SCL	10YR 3/2	3%		45	IMP												2				I	1	-27.25	-10.8	3b	3b
209	69	0-40	LmS	10YR 3/3	4%		40-75	SC	10YR 4/2	5%	MO	Poor	75	IMP								40	40	III	3a	-5.09	19.86	3a	3a
210	73	0-40	Calc SCL	10YR 4/2	2%		40-90	Calc SC	2.5Y 6/2	5%	CO	Poor	90	IMP								40	40	III	2	5.41	19.86	2	2
211	76	0-45	SCL	10YR 3/2	1%		45-70	Calc SC	10YR 5/3	5%	MOB	Poor	70	IMP								45	45	III	3a	-6.75	21.7	3a	3a
212	60	0-30	mSL	10YR 3/2	2%		30-45	SCL	2.5Y 5/2	5%	MO	Moderate	45	IMP						2			30	II	1	-32.77	-16.32	3b	3b
213	70	0-40	mSL	10YR 4/2	3%		40-85	Calc C	2.5Y 6/3	5%	MO	Poor	85	IMP								40	40	III	2	1.91	19.86	3a	3a
214	71	0-45	SCL	10YR 4/2			45-85	Calc SC	10YR 4/3	5%	CO	Poor	85	IMP								45	45	III	3a				3a
215	74	0-30	SCL	10YR 3/2	2%		30-45	Calc SC	10YR 4/4	3%		Moderate	45-120	Calc SC	10YR 6/2	3%	MOB	Poor				45	45	III	3a				3a
216	77	0-40	SCL	10YR 3/2			30-75	SC	10YR 6/2		MOB	Poor	75	IMP								30	30	IV	3b				3b
217	79	0-40	mSL	10YR 3/2	3%		40-90	mSL	2.5Y 6/2	2%	COB	Moderate	90	IMP									40	I	1	5.41	19.86	2	2
218	79	0-40	SCL	10YR 3/2	1%		40-120	Calc SC	2.5Y 6/2	2%	MOB	Poor										40	40	III	3a				3a
	70.93																												
Map e																													
219	72	0-30	Calc SCL	10YR 4/2	2%		30-65	Calc SC	2.5Y 6/2	2%	MOB	Poor	65-120	Calc C	5Y 6/1		FO	WMSAB				30	30	IV	3b				3b
220	78	0-40	SCL	10YR 4/2	1%		40-85	Calc SC	2.5Y 6/1		MO	Poor	85	IMP								40	40	III	3a				3a
221	76	0-30	Calc mSL	10YR 4/2	2%		30-120	Calc SC	2.5Y 6/1		MOB	Poor										30	30	IV	3a				3a
222	81	0-30	Calc SCL	10YR 4/2	1%		30-70	Calc SC	2.5Y 6/2	2%	MO	Poor	70-120	Calc C	5Y 6/1		FO	Poor				30	30	IV	3b				3b
223	82	0-30	Calc SCL	10YR 4/2	2%		30-65	Calc SC	2.5Y 6/2	2%	MOB	Poor	65-120	Calc C	5Y 6/1		FO	Poor				30	30	IV	3b				3b
224	80	0-30	SC	10YR 4/2	2%		30-50	C	7.5YR 5/2		MOB	Poor	50-120	Calc C	10YR 6/1		MO	Poor				30	30	IV	3b				3b
225	86	0-25	Calc SCL	10YR 4/2	1%		25-70	Calc SC	2.5Y 6/2	1%	MO	Poor	70-120	Calc C	5Y 6/1		FO	Poor				25	25	IV	3b				3b
226	85	0-25	Calc SCL	10YR 4/2	1%		25-65	Calc SC	2.5Y 6/2	2%	MOB	Poor	65-120	Calc C	5Y 6/1		FO	Poor				25	25	IV	3b				3b
227	81	0-30	SCL	10YR 4/2	2%		30-120	Calc C	10YR 5/3	5%	MOB	Poor										30	30	IV	3b				3b
228	84	0-30	SCL	10YR 4/2	2%		30-50	SC	10YR 5/3	5%	MOB	Poor	50-120	Calc C	10YR 6/1		MO	Poor				30	30	IV	3b				3b
229	88	0-30	mSL	10YR 4/2			30-65	SC	10YR 5/3		MOB	Poor	65-120	SC	5Y 6/1		COB	Poor				30	30	IV	3b				3b
230	88	0-40	mSL	10YR 4/2	5%		40-60	mSL	5Y 6/1		MOB	Moderate	60-120	Calc SCL	5Y 6/1		FOB	Poor			2	60	60	II	1				2
231	79	0-35	SCL	10YR 4/2	5%		35-120	Calc C	10YR 5/1	5%	MOB	Poor									2	35	35	IV	3b				3b
232	80	0-35	SC	10YR 4/2	2%		35-50	SC	10YR 5/3	5%	MOB	Poor	50	IMP								35	35	IV	3b				3b
233	84	0-30	SCL	10YR 4/2	2%		30-60	C	10YR 5/2		MO	Poor	60-120	Calc C	10YR 6/1		CO	Poor				30	30	IV	3b				3b
234	86	0-35	SCL	10YR 4/2	2%		35-60	C	10YR 5/1		MO	Poor	60-120	Calc C	10YR 6/1		CO	Poor				35	35	IV	3b				3b
235	88	0-35	SCL	10YR 4/2	2%		35-60	C	10YR 5/2		MO	Poor	60-120	Calc C	10YR 6/1		CO	Poor				35	35	IV	3b				3b
236	87	0-25	mSL	10YR 4/2	5%		25-65	mSL	5Y 6/1		MOB	Moderate	65-120	SCL	5Y 6/1		FO	Poor			2	65	65	II	1				2
237	87	0-30	mSL	10YR 4/2	5%		30-60	mSL	5Y 6/1		MO	Moderate	60-120	SCL	5Y 6/1		FO	Poor			2	60	60	II	1				2
238	64	0-30	SC	10YR 4/2	5%		30-60	Calc C	2.5Y 6/2		FO	Poor	60	IMP							2	30	30	IV	3b				3b

		Topsoil					Upper Subsoil						Lower Subsoil						Grade	Grade	Grade	Wetness Assesment		Grade	Droughtiness Assessment		Grade	Grade by
Sample No	Altitude	Depth	Texture	Colour	Stoniness	Mottles	Depth	Texture	Colour	Stoniness	Mottles	Structure	Depth	Texture	Colour	Stoniness	Mottles	Structure	limit by texture	limit by Depth	limit by Stoniness	Depth to SPL	Gley	Wetness Class	limit by Wetness	MB Wheat	MB Potato	limit by Droughtiness	most limiting factor
239	74	0-35	SCL	10YR 4/2	5%		35-120	Calc C	10YR 5/2		MO	Poor									2	35	35	IV	3b				3b
240	76	0-35	SC	10YR 4/2	5%		35-120	Calc C	10YR 5/2	5%	MOB	Poor									2	35	35	IV	3b				3b
241	80	0-30	SC	10YR 4/2	2%		30-120	Calc C	10YR 5/2	5%	MOB	Poor										30	30	IV	3b				3b
242	82	0-30	MCL	10YR 4/2			30-50	C	10YR 5/2		CO	Poor	50-120	C	10YR 6/1		MO	Poor				30	30	IV	3b				3b
243	83	0-30	mSL	10YR 4/2			30-120	C	10YR 5/1		MO	Poor										30	30	IV	3b				3b
244	84	0-40	MCL	10YR 4/2	5%		40-60	SC	10YR 5/1		MO	Poor	60-120	LmS	10YR 6/2		CO	Moderate			2	40	40	III	3a				3a
245	86	0-35	MCL	10YR 4/2	5%		35-60	C	10YR 5/2		MO	Poor	60-120	Calc C	10YR 6/1		CO	Poor			2	35	35	IV	3b				3b
246	64	0-35	SC	10YR 4/2	3%		35-70	Calc C	2.5Y 6/1		FOB	Poor	70	IMP								35	35	IV	3b				3b
247	67	0-35	SC	10YR 4/2	5%		35-50	Calc C	2.5Y 5/3		FOB	Poor	50-120	Calc C	10YR 6/1			Poor			2	35	35	IV	3b				3b
248	69	0-30	SC	10YR 3/2			30-70	Calc C	2.5Y 5/3		FOB	Poor	70-120	Calc C	10YR 6/1			Poor				30	30	IV	3b				3b
249	70	0-30	SC	10YR 4/2	5%		30-50	C	10YR 5/3		CO	Poor	50-120	Calc C	10YR 6/2		MO	Poor			2	30	30	IV	3b				3b
250	72	0-30	SCL	10YR 4/2	5%		30-50	mSL	10YR 5/6			Moderate	50-120	Calc C	10YR 6/1		MO	Poor			2	50	50	III	3a				3a
251	74	0-30	SC	10YR 4/2	5%		30-50	C	10YR 5/3		CO	Poor	50-120	Calc C	10YR 6/2		MO	Poor			2	30	30	IV	3b				3b
252	79	0-30	SC	10YR 4/2			30-60	C	10YR 5/3		CO	Poor	60-120	C	10YR 6/1		MO	Poor				30	30	IV	3b				3b
253	80	0-35	SCL	10YR 4/2			35-60	SC	10YR 5/2		MO	C Platey	60-120	Calc C	10YR 5/1		MO	Massive				35	35	IV	3b	26.69	12.14	2	3b
254	84	0-30	mSL	10YR 4/2	2%		30-50	SC	10YR 5/1		MO	Poor	50-120	LmS	10YR 5/1		CO	Moderate				30	30	IV	3b				3b
255	72	0-35	SC	10YR 4/2	3%		35-60	C	10YR 6/2		CO	Poor	60-120	Calc C	2.5Y 6/1			Poor				35	35	IV	3b				3b
256	71	0-35	SC	10YR 4/1	5%		35-60	C	10YR 4/2		FOB	Poor	60	IMP							2	35	35	IV	3b				3b
257	72	0-35	SCL	10YR 4/2	5%		35-80	SC	10YR 5/1		COB	Poor	80-120	Calc C	2.5Y 6/1		CO	Poor			2	35	35	IV	3b				3b
258	74	0-30	SCL	10YR 4/2	5%		30-120	Calc C	2.5Y 6/3		CO	Poor									2	30	30	IV	3b				3b
259	74	0-35	mSL	10YR 3/3			35-80	mSL	10YR 4/4			Moderate	80-120	mS	10YR 5/6			Moderate						I	1	24.13	92.6	2	2
260	75	0-30	mSL	10YR 4/2	10%		30-60	SCL	10YR 5/2	10%	FO	Poor	60	IMP							2	30	30	IV	3b				3b
261	76	0-35	SCL	10YR 4/2	2%		35-60	C	10YR 5/2		CO	Poor	60-120	C	10YR 5/1		MO	Poor				35	35	IV	3b				3b
262	79	0-35	SCL	10YR 4/2			35-60	C	10YR 5/3		CO	Poor	60-120	C	10YR 5/1		MO	Poor				35	35	IV	3b				3b
263	80	0-35	SCL	10YR 4/2	5%		35-50	C	10YR 5/2		CO	Poor	50-120	Calc C	10YR 6/1		CO	Poor			2	35	35	IV	3b				3b
264	79	0-30	SC	10YR 4/2	5%		30-50	SC	10YR 5/2		CO	Poor	50-70	C	10YR 5/4		CO	Poor			2	30	30	IV	3b				3b
265	78	0-30	SCL	10YR 4/1	3%		30-50	SCL	10YR 5/3		FO	Poor	50-65	Calc C	10YR 5/2		COB	Poor				30	30	IV	3b				3b
266	77	0-35	SCL	10YR 4/2	5%		35-45	SC	10YR 5/3		CO	Poor	45	IMP							2	35	35	IV	3b				3b
267	77	0-40	mSL	10YR 4/2	1%		40-50	SCL	2.5Y 5/4		CO	Moderate	50-120	Calc C	10YR 5/4		FO	Poor				50	50	III	2				2
268	78	0-30	mSL	10YR 4/2	3%		30-120	LmS	10YR 5/6			Massive												I	1	-2.43	-13.93	3a	3a
269	79	0-45	SCL	10YR 3/2	3%		45-120	SCL	2.5Y 6/4		CO	Poor										45	45	III	3a				3a
270	79	0-30	mSL	10YR 3/2	5%		30-70	mSL	10YR 3/2		FB	Moderate	70-120	SCL	10YR 5/3		FOB	Moderate			2			I	1				2
271	79	0-30	mSL	10YR 4/3	2%		30-70	mSL	10YR 5/3		FO	CAB	70-120	LmS	7.5YR 4/4			Massive					30	I	1	29.73	17.18	2	2
272	79	0-35	mSL	10YR 4/2	5%		35-50	mSL	10YR 5/4		FO	Moderate	50-120	SCL	10YR 5/2		CO	Poor			2	70	70	II	1				2
273	79	0-30	mSL	10YR 3/2	5%		30-50	mSL	10YR 4/3	5%	FO	Moderate	50-120	LmS	10YR 5/1	5%	FO	Moderate		79.26	2			I	1	12.13	0.63	2	2
274	80	0-45	SCL	10YR 4/2	5%		45-70	C	5Y 5/1		CO	Poor	70-120	Calc C	2.5Y 5/1		CO	Poor			2	45	45	III	3a				3a
275	80	0-35	SCL	10YR 3/1	2%		35-55	SCL	10YR 4/3			Moderate	55-120	Calc C	10YR 5/2		CO	Poor				55	55	II	2				2
276	80	0-45	SCL	10YR 4/2	5%		45-70	C	5Y 5/1		CO	Poor	70-120	Calc C	2.5Y 5/1		CO	Poor			2	45	45	III	3a				3a
277	80	0-30	mSL	10YR 4/2	5%		30-60	SCL	2.5Y 5/4		COB	Moderate	60-80	C	10YR 5/3		CO	Poor			2	60	60	II	1				2
278	80	0-35	mSL	10YR 3/2	5%		35-70	mSL	10YR 5/4		FO	Moderate	70-120	SCL	10YR 3/3		FOB	Moderate			2			I	1				2
279	79	0-35	mSL	10YR 4/2	5%		30-50	mSL	10YR 5/2		FO	Moderate	50-70	mS	2.5Y 5/4		CO	Moderate			2		35	I	1	12.13	0.63	2	2
280	78	0-35	mSL	10YR 3/2	3%		35-75	mSL	10YR 5/3		FO	Moderate	75-120	S	10YR 3/3			Poor				35	35	IV	3b				3b
281	78	0-35	mSL	10YR 3/2	5%		35-70	mSL	10YR 5/4		FO	Moderate	70-120	SCL	10YR 3/3		FOB	Moderate			2			I	1				2
282	77	0-30	SCL	10YR 4/2	2%		30-50	mSL	10YR 4/3			Moderate	50	IMP										I	1	-22.87	-13.37	3b	3b
283	77	0-35	SCL	10YR 4/2	5%		35-50	SCL	10YR 6/4		CO	Poor	50-120	Calc C	10YR 5/1		CO	Poor			2	35	35	IV	3b				3b
284	77	0-35	SC	10YR 4/2	5%		35-120	C	10YR 5/1		CO	Poor									2	35	35	IV	3b				3b
285	80	0-30	SC	10YR 4/1	10%		30-120	C	10YR 6/1		MO	Poor									2	30	30	IV	3b				3b
286	79	0-30	SCL	10YR 4/1	5%		30-50	SCL	10YR 4/2		FOB	Moderate	50-80	SCL	10YR 5/2		FO	Poor			2	50	30	III	3a				3a
287	78	0-35	SCL	10YR 4/2	2%		35-70	SC	2.5Y 6/2		CO	Poor	70-120	S	10YR 5/4			Poor				35	35	IV	3b				3b
288	77	0-40	SCL	10YR 4/2	2%		40-70	SC	2.5Y 6/2		CO	Poor	70-120	S	10YR 5/4			Poor				40	40	III	3a				3a
289	76	0-35	SCL	10YR 4/2	5%		35-80	SCL	2.5Y 5/6		CO	Moderate	80-120	Calc C	2.5Y 6/3		CO	Poor			2	80	80	I	1				2
290	76	0-35	mSL	10YR 4/2	5%		35-55	mSL	10YR 5/2		FO	Moderate	55-70	mS	2.5Y 5/4			Moderate			2		35	I	1	12.13	0.63	2	2
291	78	0-30	mSL	10YR 4/2	5%		30-65	C	10YR 5/1		COB	Poor	65-120	Calc C	2.5Y 6/3		CO	Poor			2	30	30	IV	3b				3b
292	79	0-35	mSL	10YR 4/2	5%		35-70	C	2.5Y 5/1		COB	Poor	70-90	S	2.5Y 5/4			Poor			2	35	35	IV	3b				3b
293	77	0-35	SCL	10YR 4/2	5%		35-60	mSL	10YR 6/2			Moderate	60-120	Calc C	10YR 6/3		CO	Poor			2	60	60	II	2				2
294	77	0-40	SCL	10YR 4/2	5%		40-60	mSL	10YR 6/6	10%		Moderate	60	IMP							2			I	1	-11.87	1.63	3a	3a
295	78	0-35	SC	10YR 4/2	5%		35-60	C	10YR 5/2		CO	Poor	60-120	Calc C	10YR 6/3		CO	Poor			2	30	30	IV	3b				3b
296	79	0-35	SCL	10YR 4/2	5%		35-120	C	10YR 6/1		MO	Poor									2	35	35	IV	3b				3b
297	78	0-45	SCL	10YR 4/2	5%		45-70	C	2.5Y 6/1		CO	Poor	70-120	C	2.5Y 6/2		CO	M Poor			2	45	45	III	3a				3a
298	79	0-40	SCL	10YR 4/2	2%		40-60	SCL	2.5Y 6/3		CO	CSAB	60-80	LmS	10YR 5/3		CO	Massive					40	II	2	19.41	10.86	2	2
299	77	0-40	SCL	10YR 4/2	2%		40-70	SCL	2.5Y 6/4		CO	Moderate	70-120	Calc C	5Y 5/3		COB	Poor				70	40	II	2				2
300	76	0-40	SCL	10YR 4/2	2%		40-70	SCL	2.5Y 6/4		CO	Moderate	70-120	Calc C	5Y 5/3		COB	Poor				70	40	II	2				2
301	72	0-30	SC	10YR 4/2	5%		30-60	C	10YR 5/3		CO	Poor	60-120	Calc C	10YR 6/3		CO	Poor			2	30	30	IV	3b				3b
	78.30																												
Map f																													
302	57	0-45	mSL	10YR 3/2	5%		45-120	Calc mSL	10YR 5/3	5%	MO	Moderate									2		45	I	1	51.32	12.36	1	2
303	59	0-45	mSL	10YR 3/2	5%		45-120	mSL	10YR 4/3	5%	VMO	MAB									2			I	1	51.32	12.36	1	2
304	57	0-50	Calc SCL	10YR 4/3	5%		50-70	Calc mSL	10YR 4/3		MO	Moderate	70	IMP							2			I	1	-3.68	12.36	3a	3a
305	57	0-45	LmS	10YR 3/2	5%		45-70	Calc LmS	10YR 4/3		MO	Moderate	70	IMP							2			I	1	-3.68	12.36	3a	3a
306	54	0-40	mSL	10YR 3/2	5%		40-65	Calc SCL	10YR 5/3	2%	MO	Moderate	65	IMP							2		40	II	1	-9.18	4.86	3a	3a
307	53	0-30	mSL	10YR 3/2	5%		30-50	LmS	10YR 4/3	3%	MO	Moderate	50	IMP						2	2			I	1	-25.68	-17.64	3b	3b
308	56	0-40	mSL	10YR 3/2	5%		40-50	Calc SCL	10YR 5/3		MO	Moderate	50	IMP						2	2		40	II	1	-25.68	-17.64	3b	3b
309	51	0-45	mSL	10YR 3/2	5%		45-70	Calc SCL	10YR 5/3	2%	MO	Moderate	70	IMP							2		45	I	1	-3.68	12.36	3a	3a
	55.50																												
Map g																													
310	27	0-35	Calc LmS	10YR 5/3			35-50	Calc LmS	7.5YR 4/4	3%	VMO	Moderate	50-120	LmS	10YR 5/6	2%	MO	Moderate	2					I	1	-14.29	-32.05	3a	3a
311	31	0-40	Calc LmS	10YR 3/3	1%		40-120	Chalk											2					I	1	-1.65	-25.41	3a	3a
312	30	0-40	Calc LmS	10YR 3/3	2%		40-120	LmS	7.5YR 4/4	1%	MO	Moderate							2					I	1	-10.65	-28.41	3a	3a
313	29	0-40	Calc LmS	10YR 2/2	3%		40-120	Calc LmS	7.5YR 4/4	1%	MO	Moderate							2					I	1	-10.65	-28.41	3a	3a
314	29	0-45	Calc LmS	10YR 2/2	1%		45-120	Chalk											2					I	1	-0.33	-24.09	3a	3a
315	35	0-35	Calc LmS	10YR 3/3	1%		35-120	Chalk											2					I	1	-2.97	-26.73	3a	3a
316	23	0-30	Calc mSL	10YR 5/3	2%	FO	30-120	Chalk											2					I	1	-4.29	-28.05	3a	3a

		Topsoil					Upper Subsoil						Lower Subsoil						Grade	Grade	Grade	Wetness Assesment			Grade	Droughtiness Assessment		Grade	Grade by
Sample No	Altitude	Depth	Texture	Colour	Stoniness	Mottles	Depth	Texture	Colour	Stoniness	Mottles	Structure	Depth	Texture	Colour	Stoniness	Mottles	Structure	limit by texture	limit by Depth	limit by Stoniness	Depth to SPL	Gley	Wetness Class	limit by Wetness	MB Wheat	MB Potato	limit by Droughtiness	most limiting factor
317	23	0-35	Calc mSL	10YR 4/2	3%		35-120	Chalk											2					I	1	-2.97	-26.73	3a	3a
318	26	0-30	Calc LmS	10YR 5/3	3%		30-120	Chalk											2					I	1	-4.29	-28.05	3a	3a
319	29	0-40	Calc LmS	10YR 3/3	4%	FO	40-120	Chalk											2					I	1	-1.65	-25.41	3a	3a
320	26	0-35	Calc LmS	10YR 3/3	2%		35-120	Calc LmS	7.5YR 4/4	2%	VMO	Moderate							2					I	1	-12.74	-30.23	3a	3a
321	27	0-40	Calc LmS	10YR 2/2	3%		40-120	Calc LmS	7.5YR 4/4	1%	MO	Moderate							2					I	1	-10.65	-28.41	3a	3a
322	22	0-30	Calc MCL	10YR 5/3	2%		30-120	Chalk																I	1	-4.29	-28.05	3a	3a
323	24	0-30	Calc MCL	10YR 5/3	2%		30-120	Chalk																I	1	-4.29	-28.05	3a	3a
324	27	0-30	Calc MCL	10YR 4/2	4%		30-120	Chalk											2					I	1	-4.29	-28.05	3a	3a
325	30	0-45	LmS	10YR 2/2			45-120	LmS	7.5YR 4/4	2%	VMO	Moderate							2					I	1	-8.83	-26.59	3a	3a
326	27	0-35	LmS	10YR 2/2	1%		35-120	Chalk											2					I	1	-2.97	-26.73	3a	3a
327	25	0-35	LmS	10YR 2/2	1%		35-120	Chalk											2					I	1	-2.97	-26.73	3a	3a
328	27	0-40	Calc LmS	10YR 3/2	3%	FO	40-120	Chalk									26.55							I	1	-1.65	-25.41	3a	3a
329	23	0-40	Calc mSL	10YR 4/2	2%		40-120	Chalk																I	1	-1.65	-25.41	3a	3a
330	25	0-45	Calc mSL	10YR 5/3	4%		45-120	Chalk																I	1	-0.33	-24.09	3a	3a
331	28	0-45	Calc mSL	10YR 5/3	4%		45-120	Chalk																I	1	-0.33	-24.09	3a	3a
332	28	0-35	Calc LmS	10YR 4/3	2%	FO	35-120	Chalk											2					I	1	-2.97	-26.73	3a	3a
333	25	0-30	Calc LmS	10YR 3/2	1%	FO	30-60	Calc LmS	10YR 5/3	3%	FO	Moderate	60-120	Chalk					2					I	1	-7.29	-31.05	3a	3a
334	24	0-30	Calc LmS	10YR 2/2	2%		30-45	Calc LmS	7.5YR 3/3	2%	SG structure	Moderate	45-120	IMP					2					I	1	-6.79	-29.55	3a	3a
335	26	0-40	LmS	10YR 3/2	1%		40-55	LmS	10YR 4/3		MO	Moderate	55-120	Chalk					2					I	1	-4.15	-26.91	3a	3a
336	35	0-45	LmS	10YR 3/2	2%	FO	45-55	LmS	10YR 4/3		VMO	Moderate	55-120	Chalk					2					I	1	-4.15	-26.91	3a	3a
337	23	0-50	Calc mSL	10YR 4/2	2%		50-120	Chalk																I	1	0.99	-22.77	3a	3a
338	23	0-40	Calc mSL	10YR 5/3	5%		40-120	Chalk																I	1	-1.65	-25.41	3a	3a
339	26	0-50	Calc mSL	10YR 5/3	3%		50-120	Chalk																I	1	0.99	-22.77	3a	3a
340	27	0-35	Calc LmS	10YR 4/3	2%	FO	35-120	Chalk											2					I	1	-2.97	-26.73	3a	3a
341	23	0-30	Calc LmS	10YR 4/3	2%		30-60	Calc LmS	7.5YR 3/3	1%	CO	Moderate	60-120	Chalk					2					I	1	-7.29	-31.05	3a	3a
342	23	0-35	LmS	10YR 2/2	3%		35-50	LmS	7.5YR 3/3	2%	CO	Moderate	50-120	Chalk					2					I	1	-3.65	-26.41	3a	3a
343	22	0-35	Calc LmS	10YR 3/2	1%	FO	35-55	Calc LmS	7.5YR 3/3		CO	Moderate	55-120	Chalk					2					I	1	-5.97	-29.73	3a	3a
344	21	0-35	Calc LmS	10YR 3/2	1%	FO	35-55	Calc LmS	7.5YR 3/3		CO	Moderate	55-120	Chalk					2					I	1	-5.97	-29.73	3a	3a
345	23	0-40	Calc mSL	10YR 5/3	4%		40-120	Chalk																I	1	-1.65	-25.41	3a	3a
346	27	0-35	Calc mSL	10YR 4/3	3%		35-120	Chalk																I	1	-2.97	-26.73	3a	3a
347	24	0-35	Calc LmS	10YR 4/3	2%		35-120	Chalk											2					I	1	-2.97	-26.73	3a	3a
348	22	0-40	Calc LmS	10YR 4/3	2%		40-120	Chalk											2					I	1	-1.65	-25.41	3a	3a
349	21	0-40	LmS	10YR 2/2	3%		40-55	LmS	7.5YR 3/3	2%	CO	Moderate	55-120	Chalk					2					I	1	-4.15	-26.91	3a	3a
350	26	0-40	Calc LmS	10YR 4/3	2%		40-120	Chalk											2					I	1	-1.65	-25.41	3a	3a
	25.90																												
Map h																													
351	69	0-40	Calc LmS	10YR 4/2	1%		40-70	Calc LmS	10YR 4/4	2%		Moderate	70-120	LmS	10YR 6/4	2%	CO	Moderate	2							-0.86	-16.86	3a	3a
352	67	0-30	Calc mSL	10YR 4/2	1%		30-50	Calc LmS	7.5YR 4/4	2%		Moderate	50	Chalk												13.34	-6.06	2	2
353	63	0-35	Calc mSL	10YR 4/2	2%		35-70	Calc mSL	7.5YR 4/4	3%	FOB	Moderate	70	Chalk												11.34	-9.66	2	2
354	65	0-35	mSL	10YR 4/2	3%	B	35-70	LmS	10YR 4/3	2%	FOB	Single Grain	70-120	LmS	10YR 4/6	2%	MO	Moderate								13.22	-1.18	3a	3a
355	62	0-40	Calc SCL	10YR 4/2	1%		40-120	Chalk																		23.14	3.74	2	2
356	67	0-30	Calc SCL	10YR 4/2	1%		30-40	Calc SCL	10YR 4/4	2%	FO		40	Chalk												20.54	1.14	2	2
357	69	0-40	mSL	10YR 4/2	1%		40-60	LmS	7.5YR 4/3	1%		Moderate	60	IMP												4.5	-21.9	3a	3a
358	73	0-35	mSL	10YR 4/2	5%	B	35-50	mSL	10YR 4/3	2%	FOB	Moderate	50-120	Calc mSL	10YR 5/2	1%	FO	Moderate			2								2
359	76	0-35	mSL	10YR 4/2	5%		35-50	SCL	10YR 5/4	2%	COB	Moderate	50-120	Calc SCL	10YR 5/6	1%	COB	Moderate			2								2
360	76	0-35	LmS	10YR 4/2	1%		35-50	LmS	10YR 4/3	2%	CO	Moderate	50-120	Calc SCL	10YR 5/6	3%	COB	Moderate	2							-0.5	-14.9	3a	3a
361	73	0-35	SCL	10YR 5/3	2%		35	Chalk																					
362	71	0-40	Calc mSL	10YR 4/2	1%		40-55	Calc SCL	10YR 6/4	3%	MOB	Moderate	55	Chalk												28.24	9.14	2	2
363	69	0-30	mSL	10YR 4/2	2%		30-50	Calc SCL	10YR 4/2	2%	FO	Poor	50-120	Calc SC	10YR 5/6	2%	COB	Moderate				30	30	IV	3a				3a
364	66	0-40	mSL	10YR 4/3	5%		40	IMP													2								2
365	68	0-35	mSL	10YR 4/3	5%		35-120	SCL	7.5YR 4/4	2%	FO	Moderate									2								2
366	72	0-35	Calc mSL	10YR 4/2	1%	B	35-75	SCL	10YR 5/4	2%	FOB	Moderate	75-120	SCL	7.5YR 5/6	4%	COB	Moderate								46.44	13.24	1	1
367	78	0-30	mSL	10YR 4/2	2%	B	30-75	SCL	10YR 6/4	2%	FOB	Poor	75-120	SCL	7.5YR 5/6	4%	COB	Moderate				30	30	IV	3a				3a
368	79	0-30	LmS	10YR 4/3	2%		30-50	LmS	10YR 5/4	2%	FO	Single Grain	50-120	SCL	10YR 6/6	1%	B	MASS	2							8.94	-11.46	3a	3a
369	78	non agricultural																											
370	79	non agricultural																											
371	71	0-35	mSL	10YR 4/2	2%		35-50	Calc SCL	10YR 6/4	1%	FOB	Poor	50-120	Calc SC	10YR 5/6	2%	COB	Moderate				35	35	IV	3a				3a
372	72	non agricultural																											
373	73	0-40	mSL	10YR 4/3	3%		40-70	SCL	10YR 5/4	3%	FO	Poor	70	Chalk												3.74	-15.66	3a	3a
374	77	0-35	mSL	10YR 4/3	5%		35-70	SCL	7.5YR 4/4	2%	FO	Moderate	70	IMP							2								2
375	79	0-40	LmS	10YR 4/3	1%	B	40-50	LmS	10YR 6/4	2%	FO	Moderate	50	IMP					2							-13.38	-34.78	3a	3a
376	78	0-30	LmS	10YR 4/3	2%		30-40	LmS	10YR 4/3	3%	FO	Moderate	40	Chalk					2							3.74	-15.66	3a	3a
377	77	0-35	LmS	10YR 4/3	1%	FO	35-60	LmS	10YR 6/4	3%	COB	Moderate	60-120	SCL	10YR 6/8	1%	B	Moderate	2							-0.5	-14.9	3a	3a
378	77	0-35	LmS	10YR 4/2	2%		35-45	LmS	10YR 4/3	1%	COB	Moderate	45-120	LmS	10YR 6/4	1%	FOB	Moderate	2							-0.5	-14.9	3a	3a
379	77	0-30	LmS	10YR 4/2	3%		30-60	LmS	10YR 4/3	1%	CO	Moderate	60-120	LmS	10YR 6/4	1%	FOB	Moderate	2							-5.06	-21.06	3a	3a
380	78	0-30	mSL	10YR 4/2	1%		30-45	Calc mSL	10YR 5/4	1%	FOB	Moderate	45-70	SC	10YR 6/1	2%	COB	Moderate								4.5	-21.9	3a	3a
381	78	0-35	mSL	10YR 4/2	5%		35-65	mSL	10YR 5/2	2%	FOB	Moderate	65-120	LmS	10YR 6/3		COB	Moderate			2								2
382	78	0-30	mSL	10YR 4/2	2%		30-60	Calc SCL	10YR 5/2	2%	COB	Poor	60-120	Calc SCL	10YR 6/1	4%	COB	Moderate				30	30	IV	3a				3a
383	76	0-30	LmS	10YR 4/2	2%		30-60	mS	7.5YR 4/4	5%		Moderate	60-80	mS	10YR 6/4			Moderate	2							-13.38	-34.78	3a	3a
384	76	0-35	LmS	10YR 4/2	2%		35-120	mS	10YR 4/4	5%		Moderate							2							-10.5	-21.9	3a	3a
385	78	0-35	LmS	10YR 4/2			35-120	mS	7.5YR 4/4	10%		Moderate							2		2					-10.5	-21.9	3a	3a
386	78	0-30	mSL	10YR 4/3	5%		30-60	C	10YR 6/4			Poor	60	IMP							2	30	30	IV	3a				3a
387	80	0-40	mSL	10YR 4/2	5%		40-60	LmS	10YR 6/2		CB	Moderate	60-120	C	10YR 6/1		MO	Poor			2	60	30	III	2				2
388	79	0-40	mSL	10YR 4/2	5%		40-60	LmS	10YR 6/2		CB	Moderate	60-120	C	10YR 6/1		MO	Poor			2	60	30	III	2				2
389	82	0-40	mSL	10YR 4/2	5%		40-120	C	10YR 6/4		COB	Poor									2	40	40	III	2				2
390	84	0-35	mSL	10YR 4/2	5%		35-60	C	10YR 6/4		COB	Poor	60-120	C	10YR 6/1		MO	Poor			2	35	35	IV	3a				3a
391	82	0-30	SCL	10YR 4/1	5%	FO	30-120	SCL	10YR 6/4		FO	WCSAB									2	30	30	IV	3a				3a
392	82	0-30	mSL	10YR 4/2	5%		30-120	C	10YR 5/3		MO	Poor									2	30	30	IV	3a				3a
393	78	0-35	LmS	10YR 4/2	2%		35-60	mS	10YR 6/6			Moderate	60-120	SC	10YR 6/6			Moderate	2							7.5	-15.9	3a	3a
394	79	0-30	LmS	10YR 4/2	2%		30-70	mS	7.5YR 4/4			Moderate	70-120	mS	10YR 6/4			Moderate	2					II	1	-13.38	-34.78	3a	3a
395	81	0-35	LmS	10YR 4/2	2%		35-60	mS	7.5YR 4/4			Moderate	60-120	C	10YR 5/1		MO	Poor	2			60	60	II	1	7.5	-15.9	3a	3a
396	81	0-35	LmS	10YR 4/2	2%		35-60	mS	7.5YR 4/4			Moderate	60-120	C	10YR 5/1		MO	Poor	2			60	60			7.5	-15.9	3a	3a
397	80	0-35	mSL	10YR 4/2	5%		35-120	C	10YR 5/3		COB	Poor									2	35	35	IV	3a				3a
398	80	0-35	mSL	10YR 4/2	5%		35-120	C	10YR 5/3		COB	Poor									2	35	35	IV	3a				3a

		Topsoil					Upper Subsoil						Lower Subsoil						Grade	Grade	Grade	Wetness Assesment			Grade	Droughtiness Assessment		Grade	Grade by
Sample No	Altitude	Depth	Texture	Colour	Stoniness	Mottles	Depth	Texture	Colour	Stoniness	Mottles	Structure	Depth	Texture	Colour	Stoniness	Mottles	Structure	limit by texture	limit by Depth	limit by Stoniness	Depth to SPL	Gley	Wetness Class	limit by Wetness	MB Wheat	MB Potato	limit by Droughtiness	most limiting factor
399	82	0-35	mSL	10YR 4/2	5%		35-120	C	10YR 5/3		COB	Poor									2	35	35	IV	3a				3a
400	71	0-30	LmS	10YR 4/2	2%		30-120	mS	10YR 6/3			Moderate							2							-13.38	-34.78	3a	3a
401	74	0-30	LmS	10YR 4/2	2%		30-120	mS	10YR 6/3			Moderate							2							-13.38	-34.78	3a	3a
402	75	0-35	LmS	10YR 4/2	2%		35-120	mS	10YR 6/2			Moderate							2							-10.5	-21.9	3a	3a
403	77	0-40	mSL	10YR 4/2	2%		40-120	mS	10YR 5/2		CO	Moderate														-13.38	-34.78	3a	3a
404	77	0-35	LmS	10YR 4/2	2%		35-50	mS	7.5YR 4/4			Moderate	50-120	C	10YR 6/2		CO	Poor	2							10.5	-9.9	2	2
405	77	0-30	mSL	10YR 3/2	5%		30-50	mS	7.5YR 4/4			Moderate	50	IMP							2					-13.38	-34.78	3a	3a
406	78	0-35	mSL	10YR 4/2	5%	FO	35-70	LmS	10YR 5/4			Moderate	70-120	LmS	10YR 6/2		MO	Moderate			2					13.22	-1.18	3a	3a
407	77	0-35	mSL	10YR 4/2	5%		35-60	mSL	10YR 5/4	5%		CAB	60-120	C	10YR 5/3		MOB	Massive			2	60	60	II	1	32.17	16.07	1	2
408	73	0-30	LmS	10YR 4/2	5%		30-120	mS	7.5YR 4/4			Moderate							2		2					-13.38	-34.78	3a	3a
409	74	0-35	mSL	10YR 4/2	5%		35-120	C	10YR 5/2		MO	Poor									2	35	35	IV	3a				3a
410	72	0-35	mSL	10YR 4/2	5%		35-60	C	10YR 5/3		MO	Poor	60-120	Calc C	10YR 6/2		MO	Poor			2	35	35	IV	3a				3a
411	73	0-40	LmS	10YR 4/2	5%		40-70	mS	7.5YR 4/4			Moderate	70-120	C	10YR 5/4		FO	Poor	2		2					4.5	-21.9	3a	3a
412	76	0-40	LmS	10YR 4/2	5%		40-70	mS	7.5YR 4/4			Moderate	70	IMP					2		2					4.5	-21.9	3a	3a
413	74	0-40	LmS	10YR 4/2	5%		40-70	mS	7.5YR 4/4			Moderate	70-120	C	10YR 5/4		FO	Poor	2		2					4.5	-21.9	3a	3a
414	71	0-30	mSL	10YR 4/2	5%		30-120	SC	10YR 6/4	10%	CO	VCAB									2	30	30	IV	3a				3a
	75.19																												
Map i																													
415	77	0-30	SCL	10YR 4/2	5%		30-70	C	2.5Y 5/3		COB	Moderate	70-120	C	10YR 5/1		CO	Poor				70	30	II	2				2
416	80	0-35	SCL	10YR 4/2	5%		35-90	SC	10YR 5/3		CO	Moderate	90-120	mS	10YR 5/1		FB	Moderate					35	II	2				2
417	74	0-35	SCL	10YR 4/2	5%		35-70	SCL	2.5Y 5/3		COB	Moderate	70-120	C	10YR 5/2		COB	Poor				70	30	II	2				2
418	75	0-40	SCL	10YR 4/2	5%		40-60	SCL	2.5Y 5/3		CO	Moderate	60-120	C	10YR 5/2		CO	Poor				60	40	III	3a				3a
419	76	0-35	SCL	10YR 4/2	10%		35-50	C	10YR 5/3		CO	Poor	50-120	C	5Y 5/1		CO	Poor				35	35	IV	3b				3b
420	76	0-30	SCL	10YR 4/2	10%		30-60	C	5Y 5/3		COB	Poor	60-120	C	10YR 5/2		COB	Poor				30	30	IV	3b				3b
421	76	0-40	SCL	10YR 4/2	5%		40-60	SCL	2.5Y 5/4		FO	Moderate	60-120	C	10YR 5/3		CO	Poor				60	60	II	2				2
422	71	0-40	mSL	10YR 4/2	5%		40-65	C	2.5Y 5/3		COB	Moderate	65-120	C	10YR 5/2		COB	Poor				65	40	III	2				2
423	74	0-30	mSL	10YR 4/2	5%		30-50	C	2.5Y 5/3		COB	Moderate	50-120	C	10YR 5/2		CO	Poor				50	30	III	2	26.23	15.63	2	2
424	75	0-30	mSL	10YR 4/3	3%		30-80	LmS	10YR 4/2			Moderate	80-120	mS	10YR 5/4			Moderate						I	1	7.03	-3.17	2	2
425	72	0-30	SCL	10YR 4/2	5%		30-50	C	2.5Y 5/3		FO	Poor	50-75	C	2.5Y 5/6		CO	Poor				30	30	IV	3b				3b
426	75	0-25	mSL	10YR 4/2	5%		25-50	SCL	2.5Y 5/4		FO	Moderate	50-120	C	10YR 6/4		CO	Poor				50	50	III	2				2
427	70	0-40	mSL	10YR 3/2	5%		40-70	SCL	2.5Y 5/3		FO	Moderate	70	IMP									40	II	1	-2.77	15.63	3a	3a
428	72	0-30	mSL	10YR 4/3	3%		30-60	mSL	10YR 4/4			Moderate	60-120	C	10YR 5/3		COB	Poor				60	60	II	1	29.23	14.33	2	2
429	72	0-30	mSL	10YR 4/3	2%		30-80	LmS	10YR 4/2			Moderate	80-120	mS	10YR 5/4			Moderate						I	1	7.03	-3.17	2	2
430	71	0-30	SCL	10YR 4/2	5%		30-70	SCL	2.5Y 4/4		FO	Moderate	70-120	C	10YR 5/4		FO	Moderate						I	1	22.43	8.03	2	2
431	74	0-30	mSL	10YR 4/2	5%		30-80	LmS	10YR 4/6		FO	CSAB	80-120	SC	10YR 5/3		COB	Poor				80	80	I	1	19.03	-3.17	2	2
432	77	0-40	mSL	10YR 4/2	5%		40-70	C	10YR 6/4		COB	Poor	70-120	C	10YR 6/3		COB	Poor				40	40	III	2				2
433	71	0-40	SCL	10YR 3/2	5%		40-60	C	10YR 4/6		COB	Moderate	60-120	C	10YR 6/6		CO	Moderate						I	1	18.63	4.23	2	2
434	72	0-40	LmS	10YR 4/2	2%		40-120	mS	10YR 6/3			Moderate							2					I	1	-6.93	-18.13	3a	3a
435	69	0-35	LmS	10YR 4/2	2%		35-120	mS	10YR 6/3			Moderate							2					I	1	-9.81	-21.01	3a	3a
436	71	0-50	mSL	10YR 4/2	5%		50-70	SCL	10YR 5/4		FO	Moderate	70	IMP										I	1	3.23	15.63	3a	3a
437	73	0-40	mSL	10YR 4/3	5%		40-50	LmS	10YR 3/2		FO	Moderate	50-120	SCL	10YR 5/4		FO	Moderate						I	1	29.03	4.83	2	2
438	77	0-30	mSL	10YR 4/3	5%		30-60	SCL	10YR 5/4		FO	Moderate	60-120	C	2.5Y 5/6		CO	Poor				60	60	II	1	29.23	14.33	2	2
439	77	0-30	mSL	10YR 4/3	5%		30-75	mSL	10YR 5/4		FO	Moderate	75-120	SCL	10YR 6/4		CO	Moderate					75	I	1	29.03	4.83	2	2
440	67	0-40	mSL	10YR 3/2	2%		40-120	C	10YR 5/8			Poor												I	1	26.23	11.83	2	2
441	73	0-35	mSL	10YR 3/2	2%		35-50	LmS	10YR 5/6			Moderate	50	IMP										I	1	-18.97	-9.17	3a	3a
442	80	non agricultural																											
443	80	0-40	SCL	10YR 4/3	10%		40-55	SCL	10YR 5/4		FO	Moderate	55-120	C	2.5Y 6/4		CO	Poor				55	55	II	2				2
444	78	0-40	SCL	10YR 4/3	10%		40-70	SCL	10YR 5/4		FO	Moderate	70-120	SC	7.5YR 6/4		FOB	Poor				70	70	II	2				2
445	68	0-30	mSL	10YR 3/2	5%		30-50	SCL	10YR 4/2	5%		Moderate	50-120	SCL	10YR 5/6			Moderate						I	1	29.43	8.03	2	2
446	73	0-20	mSL	10YR 4/3	10%		20-45	SCL	2.5Y 3/2	5%		MAB	45-120	C	2.5Y 5/6	20%	CO	Poor						I	1	23.68	10.48	2	2
447	76	0-20	mSL	10YR 4/3	10%		20-50	SCL	2.5Y 3/2	5%	FO	Moderate	50-120	SCL	2.5Y 6/4		COB	Poor						I	1	24.33	11.13	2	2
448	78	0-30	SCL	2.5Y 4/2	5%		30-70	LmS	10YR 5/4			Moderate	70-120	mS	10YR 5/4			Moderate						I	1	2.83	-7.17	3a	3a
449	76	0-35	LmS	10YR 4/3	10%		35-50	LmS	10YR 5/4			Moderate	50-120	C	10YR 6/4		CO	Poor	2			50	50	III	2				2
450	64	0-45	mSL	10YR 3/2	5%		45-120	LmS	10YR 4/3			Moderate												I	1	19.23	4.23	2	2
451	69	0-40	mSL	10YR 3/2	5%		40-120	LmS	10YR 4/3			Moderate												I	1	15.43	0.43	2	2
452	73	0-40	mSL	10YR 3/2	5%		40-120	LmS	10YR 5/4			Moderate												I	1	15.43	0.43	2	2
453	75	0-35	SCL	2.5Y 4/2	10%		35-70	SCL	2.5Y 4/3			Moderate	70-120	C	2.5Y 6/3		CO	Poor				70	70	II	2				2
	73.77																												
Map j																													
454	85	0-40	LmS	10YR 4/3	5%		40-120	LmS	10YR 4/3		FO	Moderate							2					I	1	0.63	-13.57	3a	3a
455	84	0-40	LmS	10YR 4/3			40-80	LmS	10YR 5/4		FO	Moderate	80-120	mSL	7.5YR 5/6		FOB	Moderate	2					I	1	28.03	-11.17	2	2
456	82	0-40	LmS	10YR 4/3			40-120	LmS	7.5YR 4/3			Moderate							2					I	1	0.63	-13.57	3a	3a
457	82	0-40	LmS	10YR 4/2	5%		40-120	LmS	10YR 5/6		FO	Moderate							2					I	1	0.63	-13.57	3a	3a
458	81	0-30	LmS	10YR 4/3			30-50	LmS	7.5YR 5/4			Moderate	50-120	HCL	7.5YR 6/4		FOB	Moderate	2					I	1	34.03	-1.17	2	2
459	81	0-30	LmS	10YR 4/3			30-120	mS	7.5YR 5/3			Moderate							2					I	1	-11.97	8.83	3a	3a
460	80	0-40	LmS	10YR 4/3	5%		40-120	mS	10YR 6/3		FOB	Moderate							2				40	I	1	-5.97	14.83	3a	3a
461	78	0-30	LmS	10YR 3/1	10%		30-50	mS	7.5YR 5/4	5%	FO	Moderate	50-120	HCL	10YR 5/6		COB	Moderate	2		2			I	1	23.03	-5.17	2	2
462	75	0-30	LmS	10YR 4/1	5%		30-60	mS	10YR 5/6	5%	FO	Moderate	60-120	HCL	10YR 6/2		FO	Moderate	2					I	1	18.03	-27.18	3b	3b
463	76	0-40	LmS	10YR 4/2	10%		40	IMP											2	3a				I	1	-47.97	38.17	3b	3b
464	77	0-30	mSL	10YR 4/2	15%		30-60	C	10YR 6/4		CO	Poor	60-70	LmS	7.5YR 5/8		CO	Moderate			3a	30	30	III	2	-17.17	1.63	3a	3a
465	79	0-45	LmS	10YR 4/3	10%		45-60	LmS	7.5YR 5/3			Moderate	60	IMP					2		2		45	I	1	-32.17	-19.37	3b	3b
466	79	0-40	LmS	10YR 4/3	5%		40	IMP											2	3a				I	1	-47.97	38.17	3b	3b
467	79	0-40	LmS	10YR 4/3	10%		40	IMP											2	3a	2			I	1	-47.97	38.17	3b	3b
468	77	0-40	LmS	10YR 4/3	10%		40-60	mS	7.5YR 5/4	5%	FO	Moderate	60	IMP					2		2			I	1	-43.17	-31.37	3b	3b
469	75	0-30	mSL	10YR 4/3	10%		30-50	HCL	10YR 5/3	5%	FO	Moderate	50-120	C	7.5YR 5/3		FOB	Poor			2	50	30	III	2	27.23	14.03	2	2
470	78	0-45	mSL	10YR 4/3	5%		45-70	SCL	7.5YR 5/3	5%		Moderate	70	IMP										I	1	-7.77	14.03	3a	3a
471	80	0-35	LmS	10YR 4/3	5%		35-120	mS	7.5YR 5/4	10%		Moderate							2					I	1	2.93	-22.27	3a	3a
472	80	0-35	mSL	10YR 4/3	5%		35-50	mSL	10YR 5/3	5%	FO	Moderate	50-120	C	10YR 6/2		FO	Poor				50	35	III	2	28.23	15.03	2	2
473	79	0-35	LmS	10YR 4/3			35-50	mS	10YR 6/4		FO	Moderate	50-120	HCL	10YR 5/6		FO	Moderate	2				35	I	2	2.93	-10.27	3a	3a
474	74	0-30	mSL	10YR 4/3	5%		30-45	SCL	10YR 5/4	5%		Moderate	45-120	C	10YR 6/2		COB	Poor				45	45	II	1	23.63	10.43	2	2
475	77	0-30	LmS	10YR 4/3	5%		30-40	LmS	10YR 4/4	5%		Moderate	40-120	mS	7.5YR 4/4			Moderate	2					I	1	-11.77	-22.97	3a	3a
476	78	0-35	mSL	10YR 4/3	5%		35-70	SCL	10YR 6/6	5%		Moderate	70-120	C	10YR 6/4		FO	Poor				70	70	II	1	25.23	12.03	2	2
477	79	0-35	mSL	10YR 4/2			35-60	LmS	7.5YR 4/3	5%		Moderate	60-120	mS	7.5YR 4/3	10%	FO	Moderate						I	1	6.23	-3.97	2	2
	78.96																												

Appendix 4b – Trial Pit Descriptions

Map a

Sample Point No. 2		
Horizon 1	0-35cm Dark greyish brown (10YR 4/2) Sandy Clay Loam with 5% small and medium, hard, subrounded and subangular stones.	
Horizon 2	35-120cm light yellowish brown (10YR 6/4) Clay with a coarse angular blocky structure, very firm consistence and common ochreous mottles. Very few roots and biopores.	
Horizon 3		
Pictures		
Horizon 1 	Horizon 2 	Horizon 3
Slowly permeable layer	Starts at 35cm – evidenced by firm coarse angular blocky structure with less than 0.5% biopores >0.5mm.	
Gleying	Starts at 35cm evidenced by pale colours and ochreous mottles.	
Wetness Class	IV	
Wetness limitation	3b	
MB Wheat	24.55	
MB potatoes	10.97	
Droughtiness Limitation	2	
Stoniness Limitation	2	

Map a

Sample Point No. 45		
Horizon 1	0-40cm Brown (10YR 4/3) medium sandy loam with 5% small and medium, hard, subrounded and subangular stones.	
Horizon 2	40-120cm yellowish brown (10YR 5/4) medium sandy loam with a medium sub angular blocky structure, friable consistence. 10% medium subangular stones.	
Pictures		
Horizon 1 	Horizon 2 	Surface Picture 
Slowly permeable layer	Not present	
Gleying	Not present	
Wetness Class	I	
Wetness Limitation	1	
MB Wheat	61.80	
MB potatoes	19.77	
Droughtiness Limitation	1	
Stoniness Limitation	2	

Map a

Sample Point No. 46		
Horizon 1	0-30cm Dark greyish brown (10YR 4/2) calcareous Sandy Clay Loam with 7% small and medium, hard, subrounded and subangular stones.	
Horizon 2	30-70cm light yellowish brown (10YR 6/4) calcareous Clay with a coarse angular blocky structure, firm consistence. Very few roots and biopores and 5% stoniness.	
Horizon 3	70cm Impenetrable	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3
Slowly permeable layer	Starts at 30 cm – evidenced by medium angular blocky structure with less than 0.5% biopores >0.5mm.	
Gleying	Starts at 30cm evidenced by pale colours.	
Wetness Class	IV	
Wetness limitation	3b	
MB Wheat	30.86	
MB potatoes	17.41	
Droughtiness Limitation	1	
Stoniness Limitation	2	

Map b

Sample Point No. 64		
Horizon 1	0-30cm Dark greyish brown (10YR 4/2) sandy clay loam with 3% small, hard, subrounded and subangular stones.	
Horizon 2	30-70cm light olive brown (2.5Y 6/4) clay with a coarse sub angular blocky structure and few ochreous mottles. Very few roots and biopores.	
Horizon 3	70-120cm light brownish Gray (2.5Y 6/2) calcareous clay with a massive structure and common ochreous mottles. Very few roots and biopores.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3 
Slowly permeable layer	Starts at 70 cm – evidenced by medium angular blocky structure with less than 0.5% biopores >0.5mm.	
Gleying	Starts at 30cm evidenced by pale colours and ochreous mottles.	
Wetness Class	II	
Wetness limitation	2	
MB Wheat	31.33	
MB potatoes	21.58	
Droughtiness Limitation	1	

Map b

Sample Point No. 66		
Horizon 1	0-30cm very dark greyish brown (10YR 3/2) sandy clay loam with 3% small, hard, subrounded and subangular stones.	
Horizon 2	30-70cm brown (10YR 5/3) sandy clay loam with a weak coarse sub angular blocky structure and common ochreous mottles. Very few roots and biopores.	
Horizon 3	70-120cm light olive brown (2.5Y 5/4) calcareous sandy clay loam with a massive structure and common ochreous mottles. Very few roots and biopores.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3
Slowly permeable layer	Starts at 30 cm – evidenced by weak coarse sub angular blocky structure with less than 0.5% biopores >0.5mm.	
Gleying	Starts at 30cm evidenced by pale colours and ochreous mottles.	
Wetness Class	IV	
Wetness limitation	3b	
MB Wheat	38.33	
MB potatoes	17.58	
Droughtiness Limitation	1	

Map c

Sample Point No. 127		
Horizon 1	0-30cm dark greyish brown (10YR 4/2) sandy clay loam.	
Horizon 2	30-50cm pale brown (10YR 6/3) sandy clay with common ochreous mottles and a coarse angular blocky structure. Few roots and biopores.	
Horizon 3	50-120cm light grey (10YR 7/1) calcareous clay with a massive, poor structure and many ochreous mottles. Very few roots and biopores.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3 
Slowly permeable layer	Starts at 30 cm – evidenced by sandy clay loam with a coarse angular blocky structure and less than 0.5% biopores >0.5mm.	
Gleying	Starts at 30cm evidenced by pale colours and ochreous mottles.	
Wetness Class	IV	
Wetness limitation	3b	
MB Wheat	29.55	
MB potatoes	16.13	
Droughtiness Limitation	2	

Map c

Sample Point No. 145		
Horizon 1	0-40cm dark greyish brown (10YR 4/2) sandy clay loam with 5% small and medium, hard, subrounded and subangular stones.	
Horizon 2	40-60cm brown (10YR 5/3) sandy clay with common ochreous mottles and a coarse angular blocky structure, friable constinence. Few roots and biopores.	
Horizon 3	60-120cm pale brown (10YR 6/3) sandy clay with a coarse angular blocky, moderate structure and common ochreous mottles. Very few roots and biopores.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3 
Slowly permeable layer	Starts at 40 cm – evidenced by sandy clay loam with a coarse angular blocky structure and less than 0.5% biopores >0.5mm.	
Gleying	Starts at 40cm evidenced by pale colours and ochreous mottles.	
Wetness Class	III	
Wetness limitation	3a	
MB Wheat	33.35	
MB potatoes	12.93	
Droughtiness Limitation	1	
Stoniness Limitation	2	

Map c

Sample Point No. 159		
Horizon 1	0-40cm dark greyish brown (10YR 4/2) sandy clay loam with 10% small and medium, hard, subrounded and subangular stones.	
Horizon 2	40-120cm grey (10YR 6/1) calcareous clay with many ochreous mottles. Very few roots and biopores. The soil was too wet to be certain of structure but it was very firm, definitely poor and slowly permeable.	
Horizon 3	Picture of hole, exhibiting wetness.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3 
Slowly permeable layer	Starts at 40 cm – evidenced by poor structure, firm consistence and the presence of water sitting above this horizon.	
Gleying	Starts at 40cm evidenced by pale colours and ochreous mottles.	
Wetness Class	III	
Wetness limitation	3a	
MB Wheat	23.15	
MB potatoes	9.73	
Droughtiness Limitation	2	
Stoniness Limitation	2	

Map c

Sample Point No. 178		
Horizon 1	0-30cm dark greyish brown (10YR 4/2) sandy clay loam with 10% small to medium, hard, subrounded and subangular stones.	
Horizon 2	30-120cm brown (10YR 5/3) sandy clay with few ochreous black mottles and a coarse prismatic structure, firm continence. Very few roots and biopores.	
Horizon 3		
Pictures		
Horizon 1 	Horizon 2 	Horizon 3
Slowly permeable layer	Starts at 30 cm – evidenced by sandy clay texture with a coarse prismatic structure and with less than 0.5% biopores >0.5mm.	
Gleying	Starts at 30cm evidenced by pale colours and ochreous mottles.	
Wetness Class	IV	
Wetness limitation	3b	
MB Wheat	20.75	
MB potatoes	7.33	
Droughtiness Limitation	1	
Stoniness limitation	2	

Map e

Sample Point No. 253		
Horizon 1	0-35cm dark greyish brown (10YR 4/2) sandy clay loam.	
Horizon 2	35-60cm greyish brown (10YR 5/2) sandy clay with many ochreous mottles and a coarse platy structure which is very firm. Few roots and biopores. The structure is likely caused by mechanical compaction rather than being naturally occurring.	
Horizon 3	60-120cm grey (10YR 5/1) calcareous clay with a massive, very firm structure and many ochreous mottles. Very few roots and biopores.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3 
Slowly permeable layer	Starts at 35 cm – evidenced by sandy clay texture, with coarse platy structure and with less than 0.5% biopores >0.5mm.	
Gleying	Starts at 35cm evidenced by pale colours and ochreous mottles.	
Wetness Class	IV	
Wetness limitation	3b	
MB Wheat	26.69	
MB potatoes	12.14	
Droughtiness Limitation	2	

Map e

Sample Point No. 268		
Horizon 1	0-30cm dark greyish brown (10YR 4/2) medium sandy loam with 3% small, hard, subrounded and subangular stones.	
Horizon 2	30-120cm yellowish brown (10YR 5/6) loamy medium sand with a massive structure. Some roots and biopores.	
Horizon 3		
Pictures		
Horizon 1 	Horizon 2 	Horizon 3
Slowly permeable layer	Not present	
Gleying	Not present	
Wetness Class	I	
Wetness limitation	1	
MB Wheat	-2.43	
MB potatoes	-13.93	
Droughtiness Limitation	3a	

Map e

Sample Point No. 271		
Horizon 1	0-30cm brown (10YR 4/3) medium sandy loam with 2% small, hard, subrounded and subangular stones.	
Horizon 2	30-70cm brown (10YR 5/3) medium sandy loam with few ochreous mottles and a coarse angular blocky structure which is firm. Some roots and biopores.	
Horizon 3	70-120cm brown (7.5YR 4/4) loamy medium sand with a massive, firm structure. Some roots and biopores.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3
Slowly permeable layer	Not present	
Gleying	Starts at 30cm evidenced by pale colours and ochreous mottles.	
Wetness Class	II	
Wetness limitation	1	
MB Wheat	29.73	
MB potatoes	17.18	
Droughtiness Limitation	2	

Map e

Sample Point No. 298		
Horizon 1	0-40cm dark greyish brown (10YR 4/2) sandy clay loam with 2% small, hard, subrounded and subangular stones.	
Horizon 2	40-60cm brown (2.5Y 6/3) sandy clay loam with common ochreous mottles and a coarse subangular blocky structure. Some roots and biopores.	
Horizon 3	60-120cm light olive brown (10YR 5/3) sand with a massive structure. Some roots and biopores.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3 
Slowly permeable layer	Not present	
Gleying	Starts at 40cm evidenced by pale colours and ochreous mottles.	
Wetness Class	II	
Wetness limitation	2	
MB Wheat	19.41	
MB potatoes	10.86	
Droughtiness Limitation	2	

Map g

Sample Point No. 317		
Horizon 1	0-35cm dark greyish brown (10YR 4/2) calcareous medium sandy loam with 3% small and medium, hard, subrounded and subangular stones.	
Horizon 2	35-120cm Chalk	
Horizon 3		
Pictures		
Horizon 1 	Horizon 2 	Horizon 3
Slowly permeable layer	Not present	
Gleying	Not present	
Wetness Class	I	
Wetness limitation	1	
MB Wheat	-2.97	
MB potatoes	-26.73	
Droughtiness Limitation	3a	

Map h

Sample Point No. 407		
Horizon 1	0-35cm dark greyish brown (10YR 4/2) medium sandy loam with 5% small and medium, hard, subrounded and subangular stones.	
Horizon 2	35-60cm yellowish brown (10YR 5/4) medium sandy loam with 5% stoniness and a coarse angular blocky structure. Some roots and biopores.	
Horizon 3	60-120cm brown (10YR 5/3) clay with many ochreous mottles black and a massive structure. Some roots and biopores.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3 
Slowly permeable layer	Starts at 60cm – evidenced by massive structure and clay texture and a firm consistence with less than 0.5% biopores >0.5mm.	
Gleying	Starts at 60cm evidenced by pale colours.	
Wetness Class	II	
Wetness limitation	1	
MB Wheat	32.17	
MB potatoes	16.07	
Droughtiness Limitation	1	
Stoniness limitation	2	

Map h

Sample Point No. 414		
Horizon 1	0-30cm dark greyish brown (10YR 4/2) medium sandy loam with 5% small and medium, hard, subrounded and subangular stones.	
Horizon 2	30-120cm yellowish brown (10YR 6/4) sandy clay with 10% stoniness including small, medium and large stones and common ochreous mottles. The structure is naturally very coarse angular blocky, however, due to mechanical compaction there are areas where the structure starts to appear platy. Some roots and biopores.	
Horizon 3	Shows natural angular blocky structure.	
Pictures		
Horizon 1 	Horizon 2 	Horizon 3 
Slowly permeable layer	Starts at 30cm – evidenced by very coarse angular blocky structure and sandy clay texture (which consists of over 18% clay) with less than 0.5% biopores >0.5mm.	
Gleying	Starts at 30cm evidenced by pale colours and common ochreous mottles.	
Wetness Class	IV	
Wetness limitation	3a	
MB Wheat	27.54	
MB potatoes	4.74	
Droughtiness Limitation	1	
Stoniness limitation	2	

ANALYTICAL REPORT

Report Number	**18736-24**	**W250**	**AMET PROPERTY**
Date Received	**24-JAN-2024**		**HENWICK BARN**
Date Reported	**05-FEB-2024**		**BULWICK**
Project	**SOIL**		**CORBY**
Reference	**RWE**		**NORTHANTS**
Order Number			**NN17 3DU**

Laboratory Reference		**SOIL675410**	**SOIL675411**
Sample Reference		**NORFOLK 64**	**NORFOLK 75**
Determinand	**Unit**	**SOIL**	**SOIL**
Coarse Sand 2.00-0.63mm	% w/w	5	5
Medium Sand 0.63-0.212mm	% w/w	36	34
Fine Sand 0.212-0.063mm	% w/w	19	13
Silt 0.063-0.002mm	% w/w	16	18
Clay <0.002mm	% w/w	24	30

Notes

Analysis Notes

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

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ANALYTICAL REPORT

Report Number	**21111-24**	**W250**	**AMET PROPERTY**
Date Received	**08-FEB-2024**		**HENWICK BARN**
Date Reported	**23-FEB-2024**		**BULWICK**
Project	**SOIL**		**CORBY**
Reference	**RWE**		**NORTHANTS**
Order Number			**NN17 3DU**

Laboratory Reference		**SOIL677196**	**SOIL677197**	**SOIL677198**	**SOIL677199**	**SOIL677200**	**SOIL677201**				
Sample Reference		**NORFOLK 2**	**NORFOLK 46**	**NORFOLK 205**	**NORFOLK 240**	**NORFOLK 259**	**NORFOLK 294**				
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**				
Coarse Sand 2.00-0.63mm	% w/w	6	10	14	6	6	8				
Medium Sand 0.63-0.212mm	% w/w	35	32	38	29	40	27				
Fine Sand 0.212-0.063mm	% w/w	23	18	15	18	24	17				
Silt 0.063-0.002mm	% w/w	14	22	15	18	13	15				
Clay <0.002mm	% w/w	22	18	18	29	17	33				
Textural Class **		SCL	SCL/mSL	SCL/mSL	SCL	mSL	SC				

Notes

Analysis Notes

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

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ANALYTICAL REPORT

Report Number	**17879-24**	**W250**	**AMET PROPERTY**
Date Received	**17-JAN-2024**		**HENWICK BARN**
Date Reported	**25-JAN-2024**		**BULWICK**
Project	**SOIL**		**CORBY**
Reference	**RWE**		**NORTHANTS**
Order Number			**NN17 3DU**

Laboratory Reference		**SOIL674418**	**SOIL674419**	**SOIL674420**	**SOIL674421**						
Sample Reference		**NORFOLK 120**	**NORFOLK 101**	**NORFOLK 111SS**	**NORFOLK 112SS**						
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**						
Coarse Sand 2.00-0.63mm	% w/w	7	4	5	2						
Medium Sand 0.63-0.212mm	% w/w	34	52	51	46						
Fine Sand 0.212-0.063mm	% w/w	17	20	22	19						
Silt 0.063-0.002mm	% w/w	17	13	13	14						
Clay <0.002mm	% w/w	25	11	9	19						
Textural Class **		SCL	mSL	LmS	SCL						

Notes

Analysis Notes

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ANALYTICAL REPORT

Report Number	**13510-23**	**W250**	**AMET PROPERTY**
Date Received	**04-DEC-2023**		**HENWICK BARN**
Date Reported	**11-DEC-2023**		**BULWICK**
Project	**SOIL**		**CORBY**
Reference	**JBM**		**NORTHANTS**
Order Number			**NN17 3DU**

Laboratory Reference		**SOIL669274**	**SOIL669275**	**SOIL669276**	**SOIL669277**						
Sample Reference		**NORFOLK 127**	**NORFOLK 132**	**NORFOLK 166**	**NORFOLK 185**						
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**						
Coarse Sand 2.00-0.63mm	% w/w	5	4	3	2						
Medium Sand 0.63-0.212mm	% w/w	45	41	39	44						
Fine Sand 0.212-0.063mm	% w/w	15	13	13	15						
Silt 0.063-0.002mm	% w/w	17	17	18	15						
Clay <0.002mm	% w/w	18	25	27	24						
Textural Class **		SCL/mSL	SCL	SCL	SCL						

Notes

Analysis Notes

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ANALYTICAL REPORT

Report Number	**21174-24**	**W250**	**AMET PROPERTY**
Date Received	**09-FEB-2024**		**HENWICK BARN**
Date Reported	**23-FEB-2024**		**BULWICK**
Project	**SOIL**		**CORBY**
Reference	**RWE**		**NORTHANTS**
Order Number			**NN17 3DU**

Laboratory Reference		**SOIL677315**	**SOIL677316**
Sample Reference		**NORFOLK 315**	**NORFOLK 322**
Determinand	**Unit**	**SOIL**	**SOIL**
Coarse Sand 2.00-0.63mm	% w/w	12	11
Medium Sand 0.63-0.212mm	% w/w	46	21
Fine Sand 0.212-0.063mm	% w/w	28	16
Silt 0.063-0.002mm	% w/w	6	33
Clay <0.002mm	% w/w	8	19
Textural Class **		LmS	MCL

Notes

Analysis Notes

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ANALYTICAL REPORT

Report Number	**41934-24**	**W250**	**AMET PROPERTY**
Date Received	**01-JUL-2024**		**HENWICK BARN**
Date Reported	**15-JUL-2024**		**BULWICK**
Project	**SOIL**		**CORBY**
Reference	**NORFOLK**		**NORTHANTS**
Order Number			**NN17 3DU**

Laboratory Reference		**SOIL703264**	**SOIL703265**	**SOIL703266**	**SOIL703267**						
Sample Reference		**NORFOLK 424**	**NORFOLK 425**	**NORFOLK 432**	**NORFOLK 446**						
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**						
Coarse Sand 2.00-0.63mm	% w/w	3	5	4	3						
Medium Sand 0.63-0.212mm	% w/w	43	31	40	39						
Fine Sand 0.212-0.063mm	% w/w	32	28	30	34						
Silt 0.063-0.002mm	% w/w	10	15	12	12						
Clay <0.002mm	% w/w	12	21	14	12						
Textural Class **		mSL	SCL	mSL	mSL						

Notes

Analysis Notes

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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 6a - Map of ALC Grade

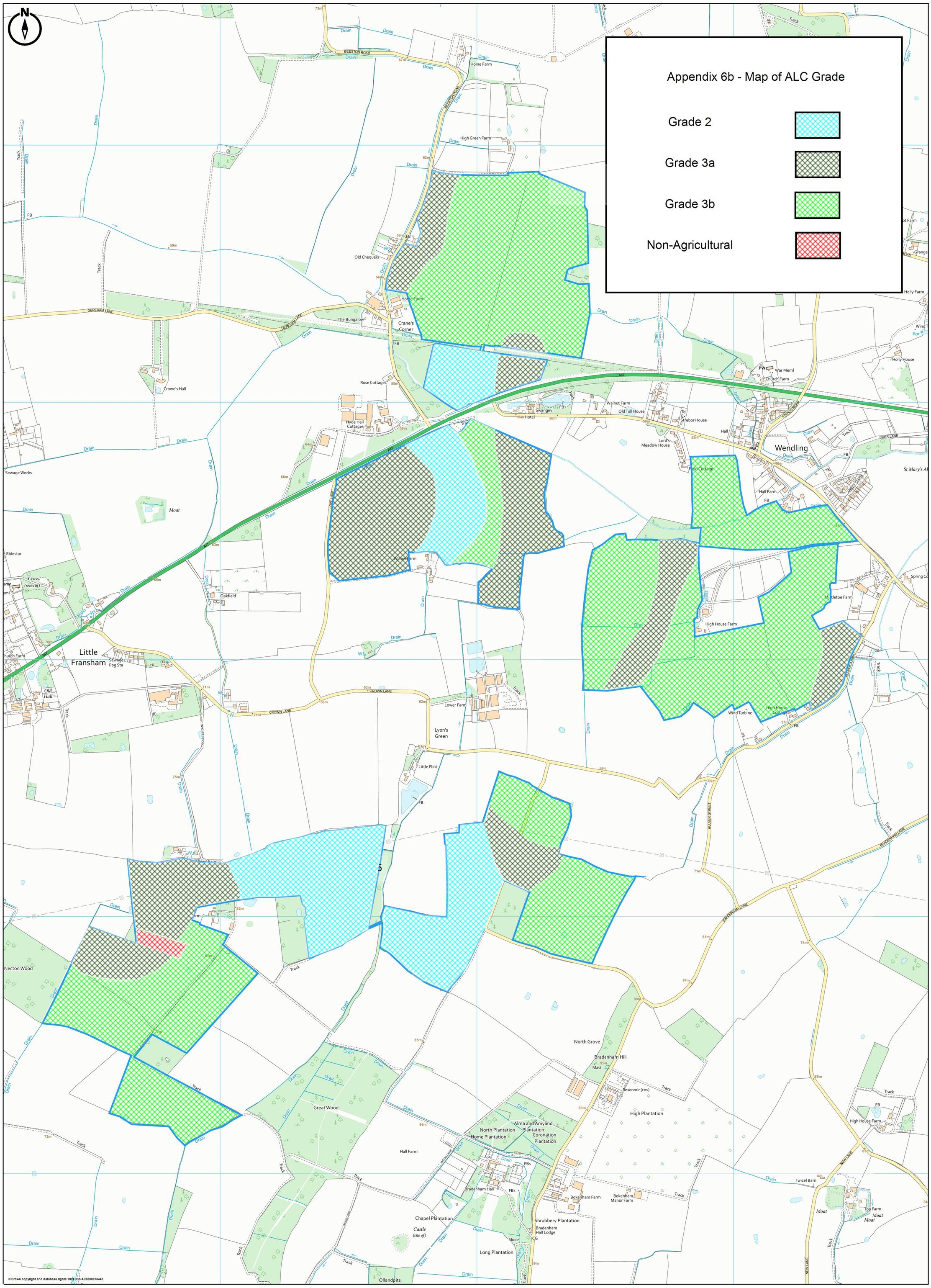
Grade 2

Grade 3a

Grade 3b

Non-Agricultural

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Appendix 6c - Map of ALC Grade

Grade 2

Grade 3a

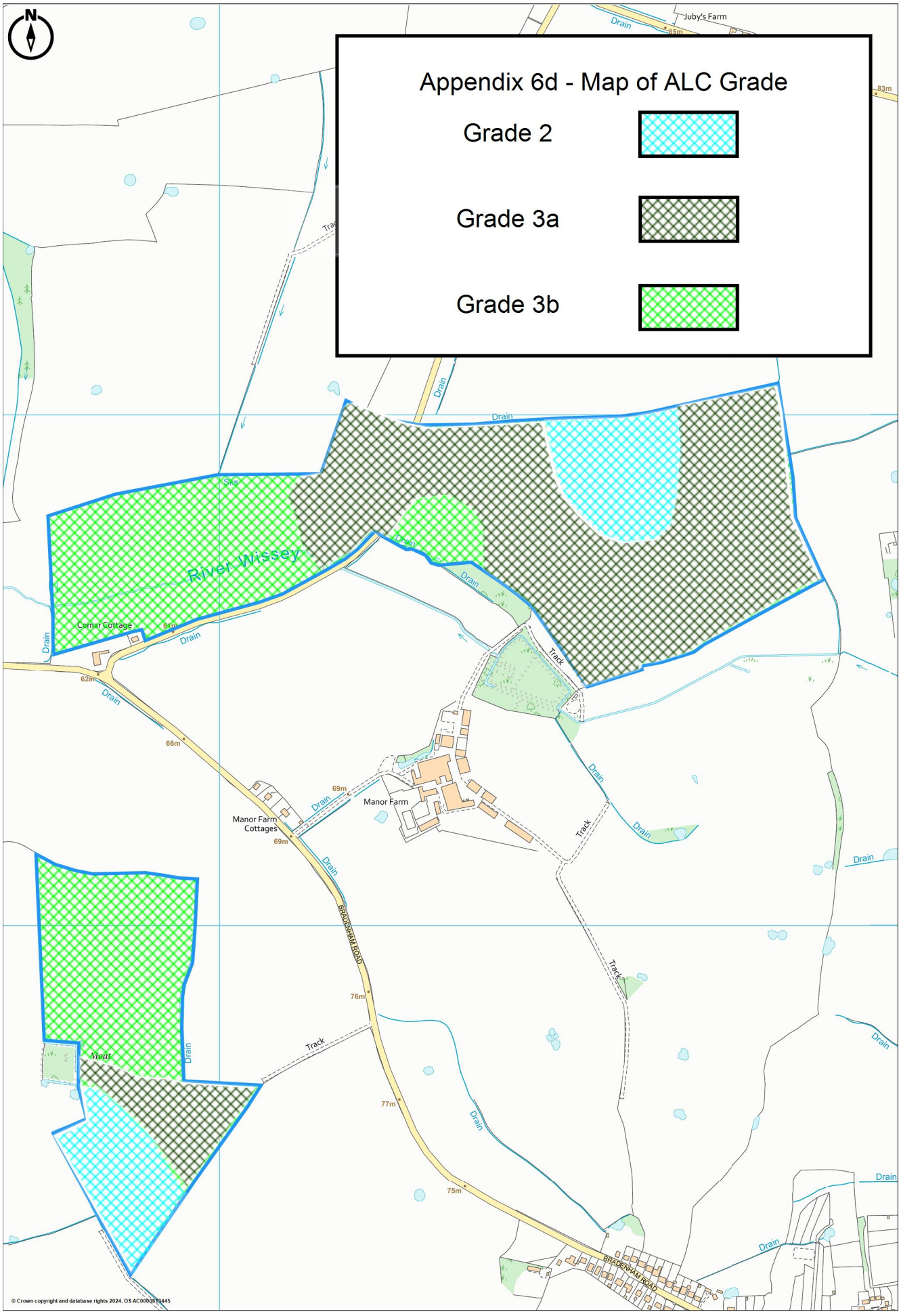
Grade 3b

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Appendix 6e - Map of ALC grade

Grade 2

Grade 3a

Grade 3b

The Grazing Grounds

High Grove

Ashill Common

Saham Waite

Waite Farm Cottage

Waite Cottage

Quidney Farm

Field Barn

Grounds Cottage

Beech Croft

Wind Turbine

St Andrew's Church

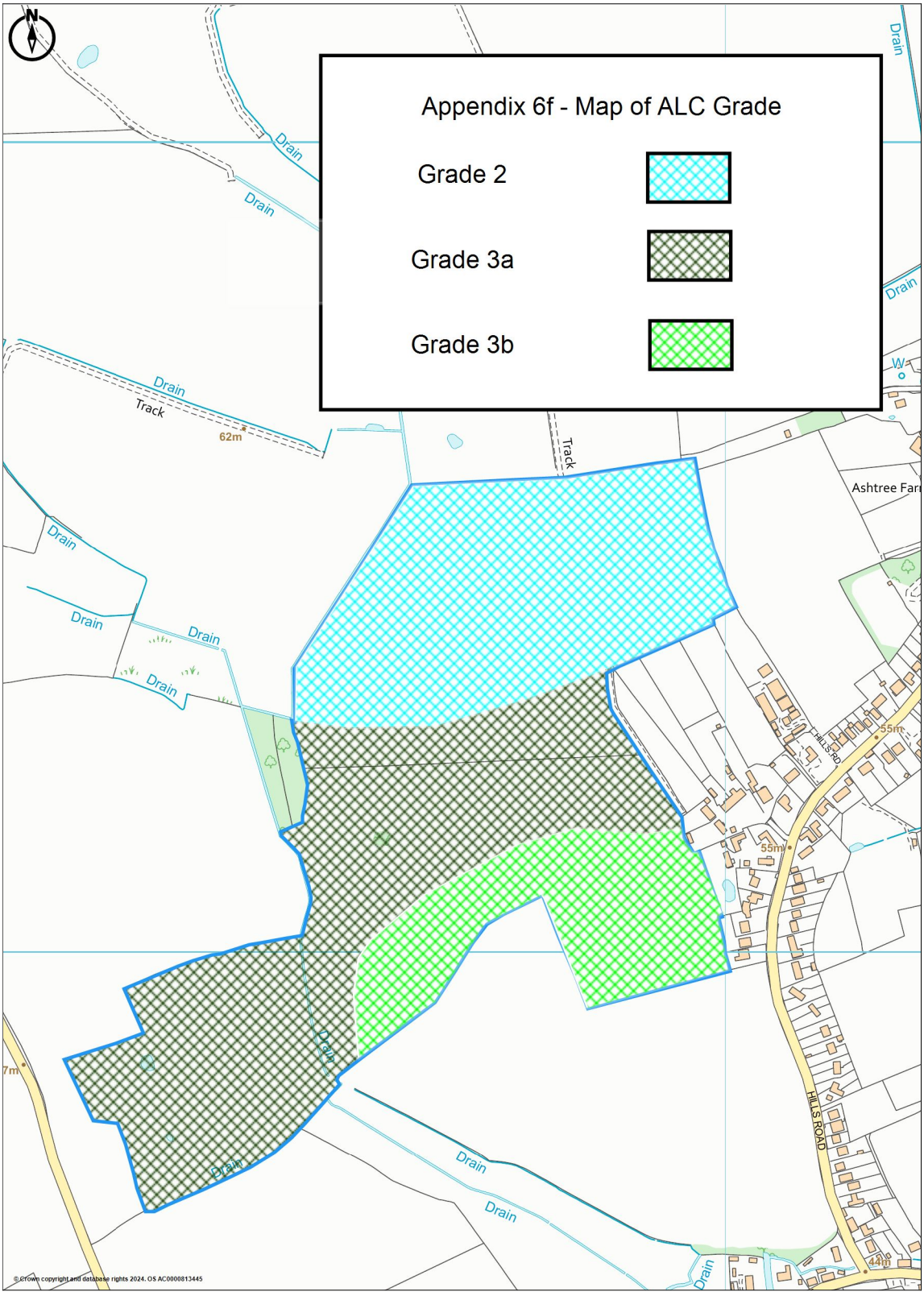
ROMAN EARTHWORK

Devil's Dyke

Playing Field

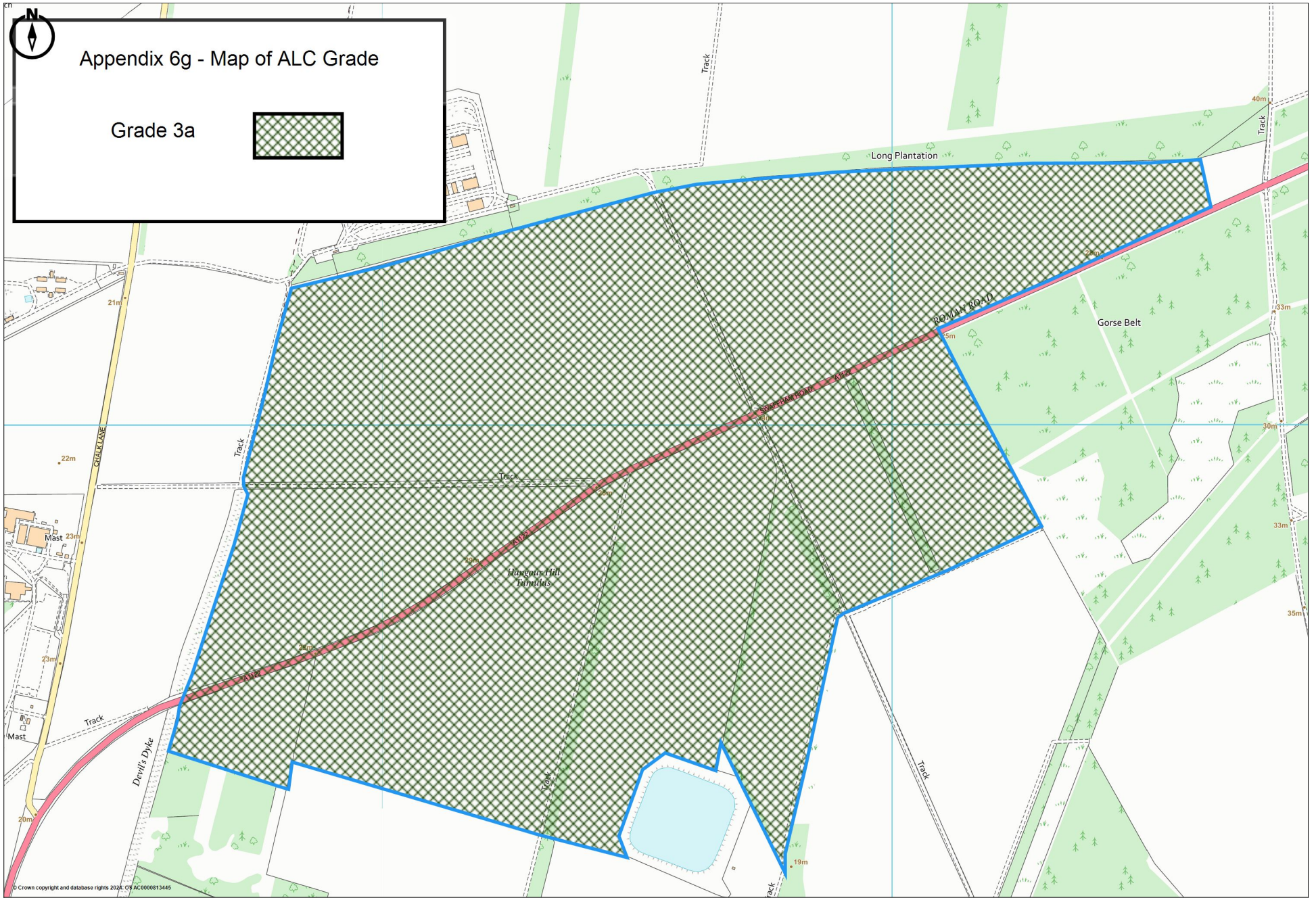
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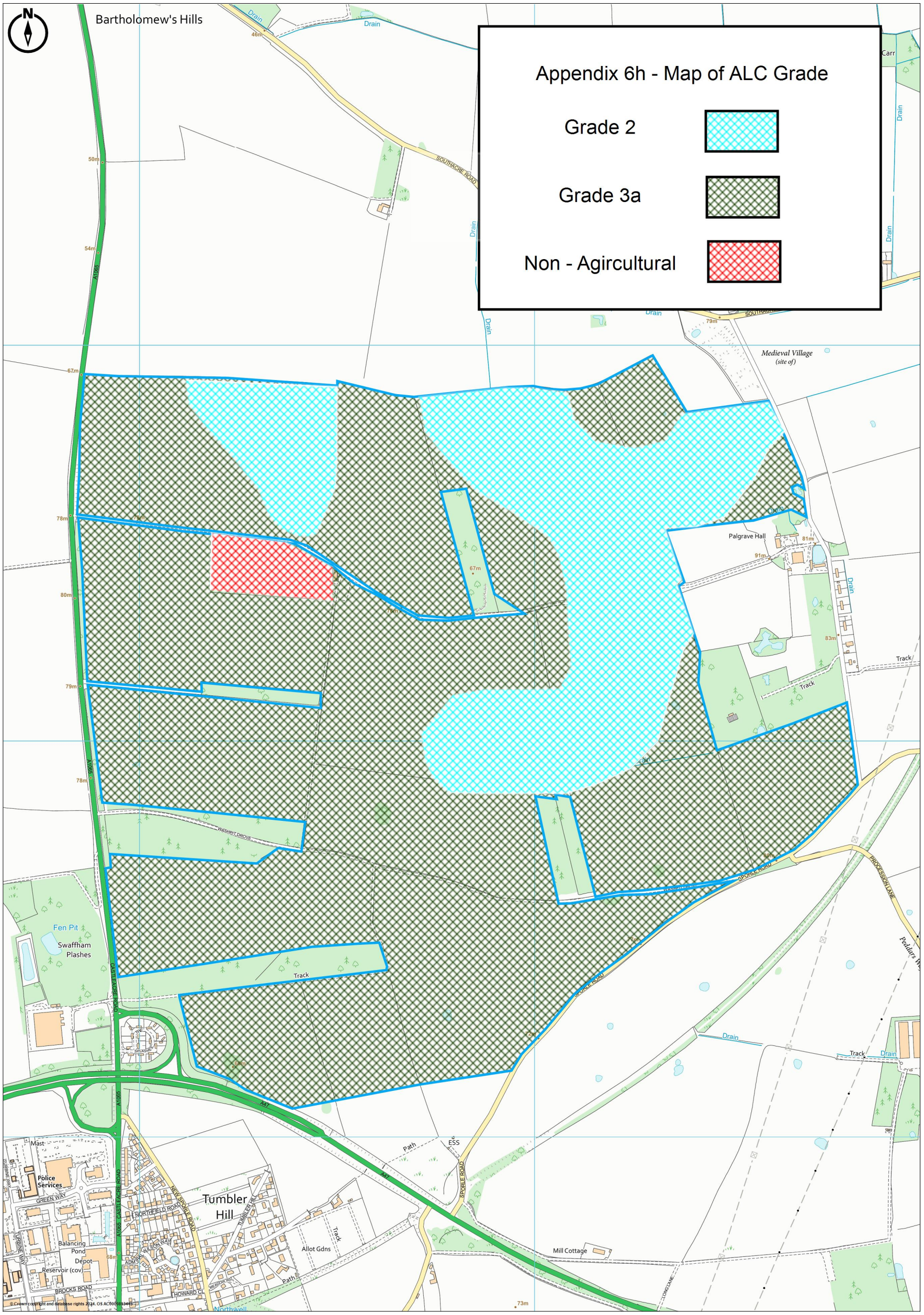
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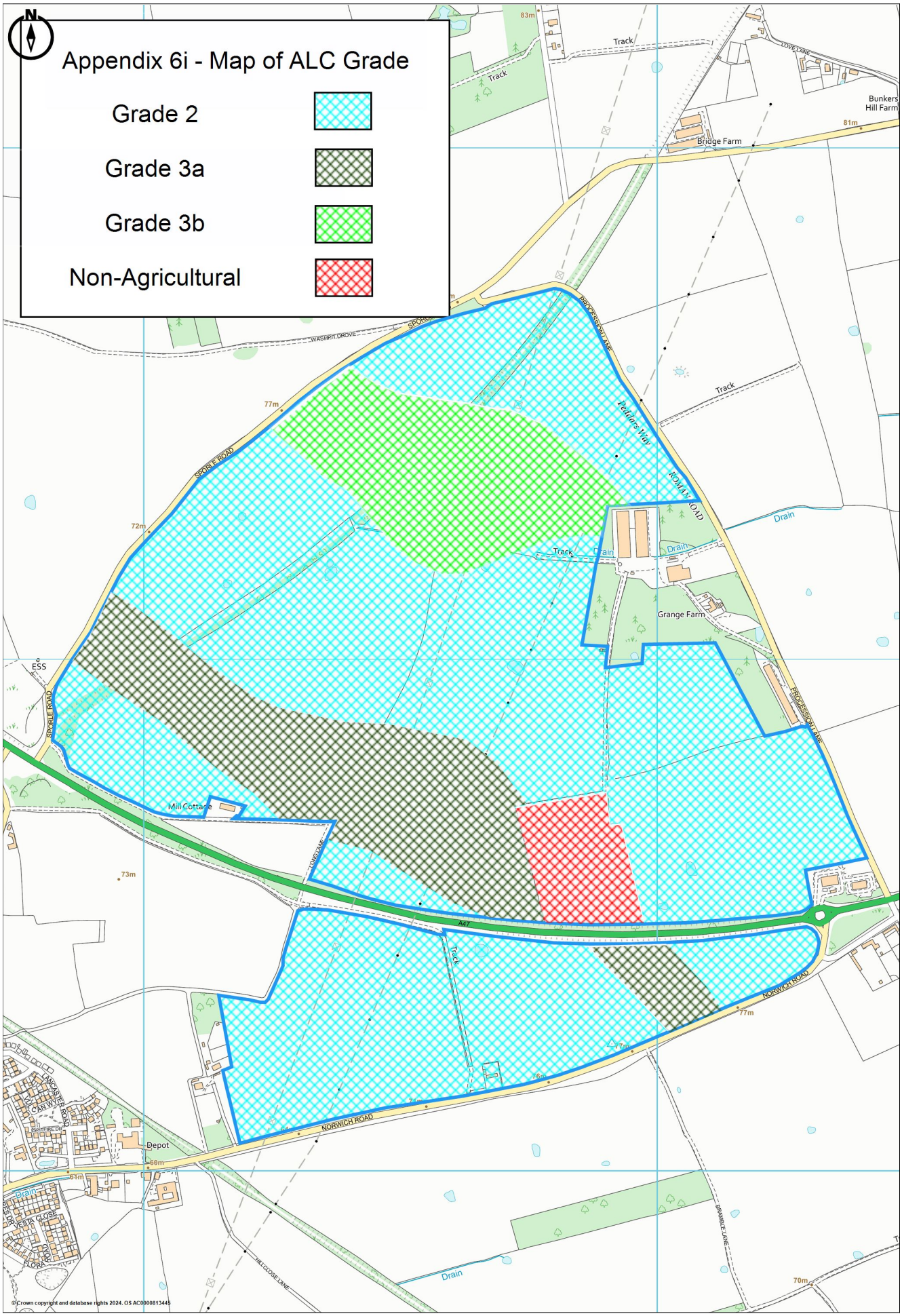
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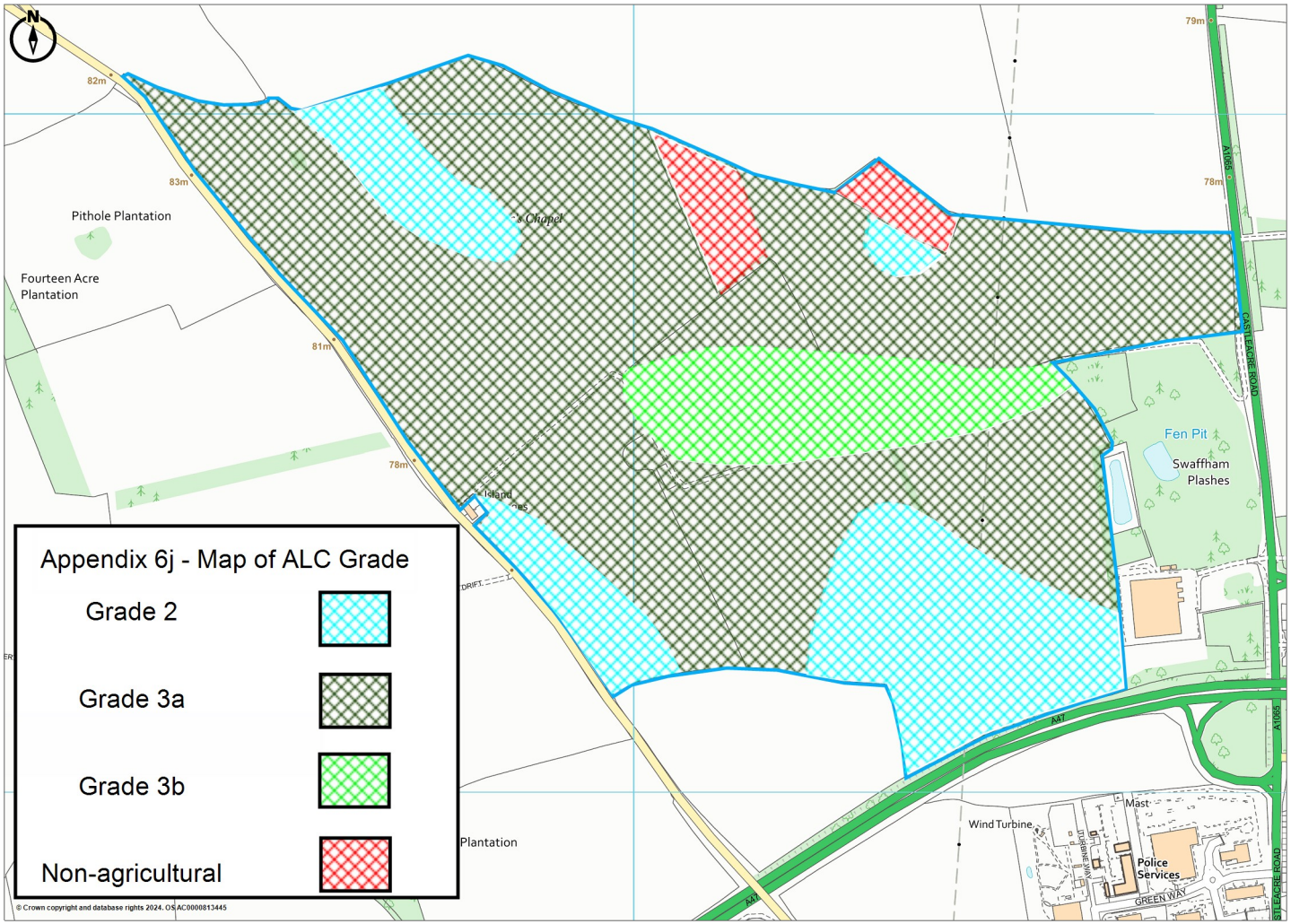
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