EAST YORKSHIRE SOLAR FARM

East Yorkshire Solar Farm

EN010143

Environmental Statement

Volume 2, Appendix 15-3: Soil and Agricultural Land Classification Survey Report (Land Research Associates)

Document Reference: EN010143/APP/6.2

Regulation 5(2)(a)
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

November 2023
Revision Number: 00

2009

BOOM-POWER.CO.UK

BOOM POWER

AGRICULTURAL QUALITY

EAST YORKSHIRE SOLAR FARM

Report 2047/2

16th October 2023

Land Research ASSOCIATES
www.lra.co.uk

AGRICULTURAL QUALITY

EAST YORKSHIRE SOLAR FARM

M W Palmer PhD, CSci, MISoilSci

Report 2047/2
Land Research Associates Ltd
Lockington Hall,
Lockington,
Derby
DE74 2RH
www.lra.co.uk

16th October 2023

1.0 Introduction

1.1 This report provides information on the agricultural quality of approximately 1102.5 ha of land located between the M62 and A163 north of Howden, East Riding of Yorkshire.

1.2 The land is nominally divided into three blocks, each comprising a number of land parcels, hereafter referred to as Blocks 1, 2 and 3 (areas shown by Maps 1-3 in an appendix to the report). The land is dominantly in use for winter cereal rotation (wheat, barley and oilseed rape or beans) with limited areas of grassland, and some biomass willow in the south of Block 3.

1.3 The site is mainly level at an elevation of approximately 4-5 m AOD, primarily consisting of large fields bordered by drains feeding either the River Foulness to the east or River Derwent to the west. Slightly elevated areas occur (notably in Blocks 2 and 3) which mark sandy deposits (see below), which is important in delineating better quality land, as described in Sections 2.0 and 3.0.

1.4 British Geological Survey 1:50,000 scale information records the underlying geology of the land as Sherwood Sandstone and Mercia Mudstone, but entirely covered by surface drift deposits: the majority of the land is recorded to be underlain by glacio-lacustrine clays of the Hemingborough Formation (in the west identified as the constituent Thorganby Clay Member). This material consists largely of laminated clays and silts. In limited areas in the south-east and south-west, Breighton Sand Formation is recorded to overlie the Hemingborough Formation. This material consists of mainly fine sands and coarse silts, interpreted as originally glacio-fluvial outwash material, often reworked by wind-blow.

1.5 The National Soil Map (published at 1:250,000 scale) records the following:

- Foggathorpe 2 Association accounting for over 90% of the Site. These are dominantly poorly-draining clays. Patches with loamy upper layers are reported in hollows, with sandier soils on elevated areas associated with glacio-fluvial or wind-blown deposits[1].
- Sessay Association covering an area in the south-east (Block 2). These soils form a complex mixture of fine and coarse loams (and some sands) affected

[1]Jarvis, R.A., *et al*., 1984. *Soils and their use in Northern England*. Soil Survey of England and Wales Bulletin No. 10, Harpenden.

by shallow groundwater, formed in glacial outwash deposits[1].

- Fladbury 3 Association covering a minor area in the north-east adjoining The Carr Drain, a tributary of The River Foulness (Block 1): mainly poorly-draining alluvial clays[1].
- Kexby Association covering a minor area (less than 5 ha) in the north-west near Breighton Aerodrome (Block 1): mainly fine sands affected by shallow groundwater, formed in wind-blown deposits[1].

1.6 No detailed Agricultural Land Classification surveys of the land (to the current Guidelines) have previously been published. Provisional mapping from the 1970s shows the land in the north and east as Grade 4 and in the south and west as Grade 3. An area in the south-east identified as Sessay Association on the National Soil Map (as described in paragraph 1.5) is recorded as Grade 2.

2.0 Soils

SURVEY METHODOLOGY

2.1 A semi-detailed soils and Agricultural Land Classification survey was conducted between November 2022 and January 2023 at selected intersections of a 100 m grid, giving an average density of approximately one observation per 4 to 5 hectares. This exercise was conducted to provide provisional estimates of land grade, allowing evaluation of impacts of the proposed development on agricultural land and inform mitigation design[2].

2.2 Following the initial survey, more detailed investigation was conducted. This involved in-filling all areas of the survey at a minimum density of 1 observation per 2 ha. Where variation was detected (in either survey) the detail was increased to 1 observation per hectare. An area added to the north-east of the proposed scheme (east of Gribthorpe) after the initial survey had been completed was fully investigated at 1 observation per hectare detail.

2.3 During the survey soils were investigated via hand auger borings and investigation pits to a maximum depth of 1.2 m. Survey logs are recorded in an appendix to this report.

SURVEY RESULTS

2.4 Soils at the site were found to vary according to underlying geology: most of the land is underlain by clays, but soil variation occurs where surface layers are formed of overlying fine sandy material (Breighton Sands) or alluvial and peat deposits, as described below.

Slowly permeable clays

2.5 The land is dominantly highly uniform, comprising clay soils formed in lacustrine deposits. The topsoils are mainly clays or heavy clay loams, directly over dense poorly-structured clay with evidence of seasonal waterlogging (greyish colours with ochreous mottles). The lower layers are sometimes reddish, but more commonly blueish grey. The climatic data for different localities has an effect on the interpretation of soil drainage conditions for these soils: over 130 Field Capacity Days (FCDs) they are judged poorly-draining (Soil Wetness Class IV); where areas are interpolated to have 130 FCDs or below they fall into Soil Wetness Class III (imperfectly-draining).

[2] Some areas were removed from the design prior to the full survey.

2.6 In places very thin sandy deposits occur, with the material fully incorporated into the topsoil. These areas are characterised by sandy clay loam textured topsoil directly over slowly permeable clay. Occasional silty, coarse loamy or sandy soils occur within the clays, but usually in very narrow linear patches (usually easily identified on aerial images), most likely in-filled creek channels.

Coarse loamy soils

2.7 There are two principal occurrences of these soils: in the south-east (Block 2) and south-west (Block 3). In both instances their location is easily identifiable by slightly raised elevation. These soils occur in sizeable deposits of Breighton Sand. They were also found in the north of Block 1, although detailed investigation showed these are not extensive. They comprise deep permeable fine sandy loams or sandy clay loams, occasionally loamy sands, usually with lower layers indicating shallow groundwater (greyish and pale colours with ochreous mottles). These soils are judged freely-draining (Soil Wetness Class I or II).

Loamy soils over clay

2.8 On the boundary between the soil types described above, intermediate soils occur with sandy clay loam textured topsoil and upper subsoil, over slowly permeable clay at intermediate depth. These soils are judged to be imperfectly-draining (Soil Wetness Class III).

Peat soils

2.9 These soils were only identified on small areas of floodplain land adjoining The River Foulness in the east They either comprise deep humified (fen) peat or organic clays (peaty loams) in places with complex multiple layers of both. Drainage conditions vary from permanently waterlogged (Soil Wetness Class V) in the south to slightly groundwater-affected in the north (Soil Wetness Class II or III).

3.0 Agricultural land quality

3.1. The agricultural climate is an important factor in assessing the agricultural quality of land and has been calculated using the Climatological Data for Agricultural Land Classification[3]. Given the size and geographical spread, use of a single central point for climatic interpolation is not judged appropriate. The approach taken is to calculate climatic information for each land holding. The interpolation points are shown by Maps 1A to 3A and the individual data interpolations are included (both in an appendix to the report). The data range is given below.

- Average annual rainfall: 582-621 mm
- January-June accumulated temperature >0°C 1399-1405 day°
- Field capacity period 125-137 days
- Summer moisture deficits for: wheat: 108-110 mm
  potatoes:100-103 mm

3.2. The survey results were used in conjunction with the agro-climatic data above to classify the site using the revised guidelines for ALC issued in 1988 by MAFF[4]. There are no overriding climatic limitations to agricultural land quality at this locality.

3.3. It is important to note the range in the field capacity period (FCDs): at 130 FCDs and below slowly permeable mineral soils are not eligible for Soil Wetness Class IV (poorly-draining) using the field assessment method outlined in the Agricultural Land Classification Guidelines[4]. This means that areas with medium-textured topsoil directly over slowly permeable clay are graded differently in areas below and above the 130 FCD threshold. This is described further in paragraph 3.12.

RISK OF FLOODING

3.4. Most of the land is at low elevation and flat, lying between drainage watersheds of the Derwent and Foulness, with a ditch network feeding main drains. However, the ditches are generally deep and it appears unlikely that watercourses will cause significant flooding outside of major floods. The land is

[3]Meteorological Office, (1989).*Climatological Data for Agricultural Land Classification*.
[4]MAFF, (1988).*Agricultural Land Classification for England and Wales: Guidelines and Criteria for Grading the Quality of Agricultural Land*.

outside of Environment Agency Flood Zone 3. It is therefore judged that risk of flooding is not a limiting factor for most of the Site.

3.5. An area in the north-east adjoins the River Foulness, which is not protected subject to flood defences and the land appears to be on an active floodplain. Flood risk is considered a limiting factor for this land, as is described below.

3.6. The land was found to be mainly limited for agriculture by wetness/workability, with droughtiness and risk of flooding limiting factors in minor areas. Other factors were assessed but do not limit the land grade. Land of grades 1, 2, 3 and 4 quality has been identified.

LAND GRADES

Grade 1

3.7. This land occurs in patches in the south of the site (and a small area in the north-west) where deep sand deposits overlie glacio-lacustrine clay. The land has coarse loamy or silty soils with no significant drainage issues once land drains are installed. The soils supply adequate moisture to prevent droughtiness restricting crop yields. This land has no significant limitations to agriculture.

3.8. Some observations with slight wetness or droughtiness limitations (otherwise of Grade 2 quality) are included in this grade: they cannot be mapped separately and are judged most appropriately included with the average grade for this land type.

Grade 2

This grade includes small areas with loamy topsoil and slight drainage impedance (Soil Wetness Class II or III). Slight wetness workability limitations apply, usually only restricting field operations in winter.

Also included are limited areas with slightly sub-optimal subsoil moisture storage, either due to sandy or poorly structured clay layers at depth. Yields of arable crops are likely to be reduced in dry summers.

Subgrade 3a

3.9. This land dominantly has medium loamy topsoils and imperfect drainage (Soil Wetness Class III). These soils typically occur on the boundary between deep loamy soils and slowly permeable clays. The moderately high clay content of the topsoil, combined with subsoil drainage restrictions means that wetness/workability limitations usually restrict machinery land access in winter and early spring, although late spring (as well as autumn) cultivations are usually possible.

3.10. Small areas are also included with sandy subsoil which store limited moisture. Moderate summer droughtiness is likely to reduce average yields of arable crops on this land.

3.11. In places patches of slightly better land (otherwise Grade 2) are included: the transition between loamy and clay soils is generally narrow, and it is not possible to map the Grade 2 land with any degree of confidence in most places; it is mainly allocated to either Grade 1 or Subgrade 3a according to the average degree of limitation of the surrounding land.

Subgrade 3b.

3.12. This land has slowly permeable clay soils, either with high topsoil clay content and imperfect or poor drainage (Soil Wetness Class III or IV), or with moderately high topsoil clay content and poor drainage (Soil Wetness Class IV). Poorly draining soils are limited to the northern part of the site (Block 1 and a section of Block 2) where Field Capacity Days exceed 130 in the average year.

3.13. This land is generally too wet and difficult to work in spring, and arable use is therefore limited to a narrow range of crops, chiefly autumn sown cereals, with oilseed rape or beans as break crops. Relatively high yields of these crops can be achieved on a regular basis, but wet autumns cause difficulties with late harvests and sowings and crop failures can occur in these years.

3.14. Patches of slightly lighter soils occur in some areas, which have greater potential but are small and hard to predict. They could not be mapped or managed separately and are judged to be most appropriately graded with the wetter surrounding land.

3.15. The northern section of land on the Foulness floodplain was under arable cropping at the time of survey (September) and had a water table at intermediate depth. It is judged that this land is likely to flood frequently in winter (more than once every three years), mainly when drains back up at high tides, but rarely in summer. This land is judged to be limited to a maximum of Subgrade 3b by risk of flooding.

Grade 4

3.16. The southern area on the Foulness floodplain was uncropped and marshy (in parts inaccessible due to wetness). It is judged risk of flooding (and associated wetness) limit this land to a maximum of Grade 4.

Other land (non-agricultural)

3.17. This land includes metalled tracks and other hard standings, water bodies and wooded areas.

Table 3.1: Land grade areas (ha)

Grade/subgrade	*Block 1*	*Block 2*	*Block 3*	*Total*	*% of land*
Grade 1	0.5	4.0	9.2	13.7	1
Grade 2	-	2.2	-	2.2	<1
Subgrade 3a	28.4	23.8	19.0	71.2	6
Subgrade 3b	507.3	325.1	153.5	985.9	89
Grade 4	9.9	-	-	9.9	1
Other land	16.4	2.0	1.2	19.6	2
Total	562.5	357.1	182.9	1102.5	100

APPENDIX

MAPS AND DETAILS OF OBSERVATIONS

INTERPOLATED CLIMATIC DATA

LABORATORY TESTING DATA

SELECTED DROUGHTINESS CALCULATIONS

East Yorkshire Farm: Soils and ALC survey – Details of observations at each sampling point

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
BLOCK 1													
1	0-32	C	0	32-70+	C	xxx				0	IV	3b	W
2	0-31	C	0	31-60+	C	xxx				0	IV	3b	W
3	0-30	C	0	30-80+	C	xxx				0	IV	3b	W
4	0-32	MCL	0	32-51	MZCL	xxx	51-90+	C	xxx	0	III	3a	W
5	0-38	C	0	38-90+	SCL	xxx				0	II/III	3b	W
6	0-41	C(org)	0	41-64	C	xxx	64-90+	SCL	xxx	0	III/IV	3a/3b	W
7	0-35	C	0	35-80+	C	xxx				0	IV	3b	W
8	0-32	HCL	0	32-90+	C	xxx				0	IV	3b	W
9	0-33	C	0	33-90+	C	xxx				0	IV	3b	W
10	0-30	MCL	0	30-70	MSZL	xx	70-100+	MSZL	xxx	0	I	1	-
11	0-30	SCL	0	30-58	SCL	xxx	58-90+	SCL	xxx	0	III	3a	W
12	0-36	HCL/SCL	0	36-50	SCL	xxx	50-90+	C	xxx	0	III	3b/3a	W
13	0-29	C	0	29-90+	C	xxx				0	IV	3b	W
14	0-34	C	0	34-90+	C	xxx				0	IV	3b	W
15	0-30	HCL	0	30-90+	C	xxx				0	IV	3b	W
16	0-50+	SCL(dist)	0							0	-	-	-
17	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
18	0-33	C	0	33-80+	C	xxx				0	IV	3b	W
19	0-36	C	0	36-90+	C	xxx				0	III/IV	3b	W
20	0-44	C	0	44-56	SCL	x	56-72 72-90+	SCL C	xxx xxx	0	II	3b	W
21	0-35	C	0	35-52	PL	-	52-80+	C	xxx	0	III	3b	W
22	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
23	0-25	C	0	25-90+	C	xxx				0	IV	3b	W
24	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
25	0-29	MCL/SCL	0	29-52	SCL	xxx	52-80+	C	xxx	0	III	3a	W
26	0-31	C	0	31-90+	C	xxx				1	IV	3b	W
27	0-33	C	0	33-90+	C	xxx				0	IV	3b	W
28	0-27	C	0	27-80+	C	xxx				0	IV	3b	W
29	0-26	MSL	0	26-72	MSL	x	72-90+	SCL	xx(x)	2	I	1	-
30	0-30	SCL	0	30-48	SCL	xxx	48-80+	C	xxx	1	III	3a	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
31	0-35	SCL	0	35-80+	C	xxx				0	IV/III	3b	W
32	0-31	C	0	31-60+	C	xxx				0	IV	3b	W
33	0-33	SCL	0	33-52	SCL	xxx	52-90+	C	xxx	0	III	3a	W
34	0-41	HCL(dist)	0	41-80+	C	xxx				1	III	3b	W
35	0-31	HCL	0	31-90+	C	xxx				0	IV	3b	W
36	0-25	HCL	0	25-40	HCL	xxx	40-90+	C	xxx	0	III	3b	W
37	0-30	SCL	0	30-51	SCL	xxx	51-120	C	xxx	0	III	3a	W
38	0-27	HCL	0	27-60+	C	xxx				0	IV	3b	W
39	0-27	HCL	0	27-50+	SCL(dist)	-				1	-	-	-
40	0-28	HCL	0	28-90+	C	xxx				0	IV	3b	W
41	0-30	C	0	30-80+	C	xxx				0	IV	3b	W
42	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
43	0-30	HCL	0	30-90+	C	xxx				0	IV	3b	W
44	0-28	HCL/C	0	28-90+	C	xxx				0	IV	3b	W
45	0-21	C	0	21-90+	C	xxx				0	IV	3b	W
46	0-40	HCL	0	40-90+	C	xxx				0	III	3b	W
47	0-32	C	0	32-80+	C	xxx				0	IV	3b	W
48	0-29	C	0	29-90+	C	xxx				0	IV	3b	W
49	0-28	C	0	28-80+	C	xxx				0	IV	3b	W
50	0-25	HCL	0	25-80+	C	xxx				0	IV	3b	W
51	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
52	0-24	C	0	24-90+	C	xxx				0	IV	3b	W
53	0-21	C	0	21-90+	C	xxx				0	IV	3b	W
54	0-38	C	0	38-70+	C	xxx				0	III/IV	3b	W
55	0-50+	C(dist)	0							0	-	-	-
56	0-35	C	0	35-90+	C	xxx				0	IV/III	3b	W
57	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
58	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
59	0-31	C	0	31-120	C	xxx				0	IV	3b	W
60	0-22	C	0	22-90+	C	xxx				0	IV	3b	W
61	0-32	C	0	32-80+	C	xxx				1	IV	3b	W
62	0-25	C	0	25-90+	C	xxx				0	IV	3b	W
63	0-27	C	0	27-80+	C	xxx				0	IV	3b	W
64	0-25	C	0	25-90+	C	xxx				0	IV	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
65	0-22	C	0	22-90+	C	xxx				0	IV	3b	W
66	0-25	C	0	25-80+	C	xxx				0	IV	3b	W
67	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
68	0-25	HCL	0	25-90+	C	xxx				0	IV	3b	W
69	0-32	C	0	32-80+	C	xxx				0	IV	3b	W
70	0-25	C	0	25-80+	C	xxx				0	IV	3b	W
71	0-22	C	0	22-90+	C	xxx				0	IV	3b	W
72	0-25	C	0	25-80+	C	xxx				0	IV	3b	W
73	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
74	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
75	0-31	C	0	31-50	C	xxx	50+	Wet (stopped)		0	IV	3b	W
76	0-37	HCL	0	37-90+	C	xxx				0	IV	3b	W
77	0-32	C	0	32-80+	C	xxx				0	IV	3b	W
78	0-27	C	0	27-90+	C	xxx				0	IV	3b	W
79	0-25	HCL	0	25-90+	C	xxx				0	IV	3b	W
80	0-31	C	0	31-80+	C	xxx				0	IV	3b	W
81	0-26	HCL	0	26-90+	C	xxx				0	IV	3b	W
82	0-32	HCL	0	32-90+	C	xxx				0	IV	3b	W
83	0-28	SCL/HCL	0	28-90+	C	xxx				0	IV	3b	W
84	0-21	HCL/C	0	21-60+	C	xxx				0	IV	3b	W
85	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
86	0-29	C	0	29-90+	C	xxx				0	IV	3b	W
87	0-35	C	0	35-90+	C	xxx				0	IV	3b	W
88	0-28	C	0	28-90+	C	xxx				0	IV	3b	W
89	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
90	0-28	C	0	28-90+	C	xxx				0	IV	3b	W
91	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
92	0-28	C	0	28-80+	C	xxx				0	IV	3b	W
93	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
94	0-17	HZCL/ZC	0	17-90+	C	xxx				0	IV	3b	W
95	0-32	C	0	32-80+	C	xxx				0	IV	3b	W
96	0-21	C	0	21-90+	C	xxx				0	IV	3b	W
97	0-40+	C(dist)	<5							0	-	-	-
98	0-22	ZC	0	22-90+	C	xxx				0	IV	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
99	Not recorded												
100	0-33	C	0	33-80+	C	xxx				0	IV	3b	W
101	0-26	C	0	26-120	C	xxx				0	IV	3b	W
102	0-26	C	0	26-80+	C	xxx				0	IV	3b	W
103	0-23	C	0	23-80+	C	xxx				0	IV	3b	W
104	0-27	C/HCL	0	27-90+	C	xxx				0	IV	3b	W
105	0-28	C	0	28-90+	C	xxx				0	IV	3b	W
106	0-20	C	0	20-70+	C	xxx				0	IV	3b	W
107	0-27	C	0	27-90+	C	xxx				0	IV	3b	W
108	0-32	C	0	32-80+	C	xxx				0	IV	3b	W
109	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
110	0-23	C	0	23-90+	C	xxx				0	IV	3b	W
111	0-22	C	0	22-90+	C	xxx				0	IV	3b	W
112	0-18	HCL	0	18-58	C	xxx				0	IV	3b	W
113	0-25	C	0	25-90+	C	xxx				0	IV	3b	W
114	0-25	C	0	25-80+	C	xxx				0	IV	3b	W
115	0-21	C	0	21-90+	C	xxx				0	IV	3b	W
116	0-21	C	0	21-90+	C	xxx				0	IV	3b	W
117	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
118	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
119	0-33	C	0	33-90+	C	xxx				1	IV	3b	W
120	0-28	C	0	28-90+	C	xxx				0	IV	3b	W
121	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
122	0-29	C	0	29-90+	C	xxx				0	IV	3b	W
123	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
124	0-22	C	0	22-50	C	xxx	50+	Waterlogged (stopped)		0	IV	3b	W
125	0-27	HCL	0	27-57	ZC	xxx	57-90+	C	xxx	0	IV	3b	W
126	0-26	C/HCL	0	26-80+	C	xxx				0	IV	3b	W
127	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
128	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
129	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
130	0-34	C	0	34-90+	C	xxx				0	IV	3b	W
131	0-28	C	0	28-90+	C	xxx				0	IV	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
132	0-25	C	0	25-90+	C	xxx				0	IV	3b	W
133	0-34	C	0	34-63	C	xxx	63-90+	C(r)	xxx	0	IV	3b	W
134	0-34	C	0	34-90+	C	xxx				0	IV	3b	W
135	0-27	C	0	27-60+	C	xxx				0	IV	3b	W
136	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
137	0-25	C/HCL	0	25-90	C	xxx				0	IV	3b	W
138	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
139	0-22	C	0	22-90+	C	xxx				0	IV	3b	W
140	0-29	C	0	29-90+	C	xxx				0	IV	3b	W
141	0-22	C	0	22-90+	C	xxx				0	IV	3b	W
142	0-30	HCL	0	30-90+	C	xxx				0	IV	3b	W
143	0-28	C	0	28-90+	C	xxx				0	IV	3b	W
144	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
145	0-25	C	0	25-64	C	xxx	64-90+	C(r)	xxx	0	IV	3b	W
146	0-26	C	0	26-80+	C	xxx				0	IV	3b	W
147	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
148	0-33	HCL	0	33-90+	C	xxx				0	IV	3b	W
149	0-24	C	0	24-90+	C	xxx				0	IV	3b	W
150	0-24	C	0	24-90+	C	xxx				0	IV	3b	W
151	0-32	SCL	0	32-90+	C	xxx				0	IV	3b	W
152	0-26	HCL	0	26-62	C	xxx	62+	Waterlogged (stopped)		0	IV	3b	W
153	0-42	C	0	42-90+	C	xxx				0	III	3b	W
154	0-35	C	0	35-66	C	xxx	66-90+	C(r)	xxx	0	IV/III	3b	W
155	0-31	HCL	0	31-44	SCL	xxx	44-90+	C	xxx	0	IV	3b	W
156	0-33	HCL	0	33-43	SCL	xxx	43-80+	C	xxx	0	III	3b	W
157	0-28	HCL	0	28-35	C	xxx	35-90+	C	xxx	0	IV/III	3b	W
158	0-26	HCL	0	26-90+	C	xxx				0	IV	3b	W
159	0-32	C	0	32-80+	C	xxx				0	IV	3b	W
160	0-34	HCL	0	34-90+	C	xxx				0	IV	3b	W
161	0-27	C	0	27-47	HCL	xxx	47-90+	C(r)	xxx	1	III	3b	W
162	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
163	0-27	C	0	27-49	SC	xxx	49-90+	C(r)	xxx	1	III	3b	W
164	0-25	SCL/HCL	0	25-90+	C	xxx				0	IV	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
165	0-31	SCL	0	31-50	MSL	xxx	50-62 62-75 75-90+	SC MSL SCL	xxx xxx xxx	1	III/II	3a/2	W
166	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
167	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
168	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
169	0-28	C	0	28-50+	C(dist)	-				0	IV	3b	W
170	0-29	C	0	29-90+	C	xxx				0	IV	3b	W
171	0-25	HCL	0	25-90+	C	xxx				0	IV	3b	W
172	0-21	C	0	21-90+	C	xxx				0	IV	3b	W
173	0-23	C	0	23-90+	C	xxx				0	IV	3b	W
174	0-33	C	0	33-90+	C	xxx				0	IV	3b	W
175	0-32	C	0	32-60+	C	xxx				0	IV	3b	W
176	0-50+	C(dist)	0							0	-	-	-
177	0-30	C	0	30-47	C	xxx	47-62 62-90+	SCL HCL	xxx xxx	4	III	3b	W
178	0-100+	EP	0							0	IV/V	4	F/W
179	0-22	HCL	0	22-80+	C	xxx				0	IV	3b	W
180	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
181	0-41	PL	0	41-100+	HP	-				0	IV/V	4	F/W
182	Not accessible												
183	0-42	PL	0	42-100+	HP	-				0	IV/V	4	F/W
184	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
185	0-30	C	0	30-60+	C	xxx				2	IV	3b	W
186	0-20	EP	0	20-100+	HP	-				0	IV/V	4	F/W
187	0-90+	HP	0							0	IV/V	4	F/W
188	0-31	C	0	31-80+	C	xxx				0	IV	3b	W
189	0-24	ZC	0	24-65	ZC	xxx	65-90+	C	xxx	0	IV	3b	W
190	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
191	0-27	HCL	0	27-41	SCL	xxx	41-90+	C(r)	xxx	2	III	3b	W
192	0-29	C	0	29-80+	C	xxx				0	IV	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
193	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
194	0-27	HCL	0	27-90+	C	xxx				0	IV	3b	W
195	0-25	C	0	25-90+	C	xxx				0	IV	3b	W
196	0-22	C	0	22-90+	C	xxx				0	IV	3b	W
197	0-34	SCL	0	34-41	SCL	xxx	41-90+	C(r)	xxx	0	III	3a	W
198	0-29	C	0	29-90+	C	xxx				0	IV	3b	W
199	0-27	C	0	27-90+	C	xxx				0	IV	3b	W
200	0-34	C	0	34-90+						0	IV/III	3b	W
201	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
202	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
203	0-34	C	0	34-90+	C	xxx				0	IV/III	3b	W
204	0-25	HCL	0	25-90+	C	xxx				0	IV	3b	W
205	0-28	HCL	0	28-90+	C	xxx				0	IV	3b	W
206	0-20	C	0	20-63	C	xxx	63-90+	C(r)	xxx	0	IV	3b	W
207	0-22	C	0	22-50	C	xxx	50+	Wet (stopped)		0	IV	3b	W
208	0-32	HCL	0	32-90+	C	xxx				0	IV	3b	W
209	0-26	C	0	26-90+	C	xxx				0	IV	3b	W
210	0-25	ZC	0	25-90+	C	xxx				0	IV	3b	W
211	0-29	C	0	29-90+	C	xxx				0	IV	3b	W
212	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
213	0-28	C	0	28-90+	C	xxx				0	IV	3b	W
214	0-25	C	0	25-90+	C	xxx				0	IV	3b	W
215	0-22	C/HCL	0	22-90+	C	xxx				0	IV	3b	W
216	0-23	C	0	23-90+	C	xxx				0	IV	3b	W
217	0-25	C	0	25-90+	C	xxx				0	IV	3b	W
218	0-18	C	0	18-90+	C	xxx				0	IV	3b	W
219	0-28	C	0	28-90+	C	xxx				0	IV	3b	W
220	0-21	C	0	21-90+	C	xxx				0	IV	3b	W
221	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
222	0-30	C	0	28-90+	C	xxx				0	IV	3b	W
223	0-25	C	0	25-90+	C	xxx				0	IV	3b	W
224	0-26	C	0	26-80+	C	xxx				0	IV	3b	W
225	0-27	C	0	27-90+	C	xxx				0	IV	3b	W
226	0-30	C	0	30-80+	C	xxx				0	IV	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
227	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
228	0-29	C	0	29-90+	C	xxx				0	IV	3b	W
229	0-30	HCL	0	30-90+	C	xxx				0	IV	3b	W
230	0-31	C	0	31-90	C	xxx				1	IV	3b	W
231	0-38	C	0	38-61	SCL	xxx	61-90+	FSL	xxx	2	II	3b	W
232	0-36	C	0	36-50	SCL	xxx	50-61 61-90+	LMS C(r)	xxx xxx	1	III	3b	W
233	0-40	HCL/C	0	40-65	SCL	xxx	65-90+	SC	xxx	1	II/III	3a/3b	W
234	0-27	C	0	27-90+	C	xxx				1	IV	3b	W
235	0-31	C	0	31-90+	C	xxx				1	IV	3b	W
236	0-28	C	0	28-90+	C	xxx				0	IV	3b	W
237	0-35	SCL	0	35-48	SCL	xxx	48-90+	C	xxx	1	III	3a	W
238	0-37	SCL	0	37-60	LMS	xxx	60-70 70-90+	SCL MSL	xxx xxx	1	I/II	2	D
239	0-33	C	0	33-90+	C	xxx				0	IV	3b	W
240	0-32	HCL	0	32-64	SCL	xxx	64-90+	SCL	xxx	0	III/II	3b/3a	W
241	0-28	C	0	28-90+	C(r)	xxx				0	IV	3b	W
242	0-26	C	0	36-90+	C	xxx				0	IV	3b	W
243	0-40	C	0	40-68	C	xxx	68-90+	C(r)	xxx	1	III/IV	3b	W
244	0-31	HCL/SCL	0	31-45	LMS	xxx	45-90+	C(r)	xxx	1	III	3b/3a	W
245	0-30	C	0	30-55	SCL	xxx	55-90+	C(r)	xxx	2	III	3b	W
246	0-27	C	0	27-90+	C	xxx				0	IV	3b	W
247	0-30	SCL	0	30-43	SCL	xxx	43-90+	C	xxx	0	III	3a	W
248	0-31	SCL	0	31-43	SCL	xxx	43-90+	C	xxx	0	III	3a	W
249	0-32	PL	0	32-90+	MS	xxx				2	III	3a	W/D
250	0-31	PL	0	31-63	EP	-	63-100+	HP	-	0	II?	3b	F
251	0-28	C	0	28-90+	C	xxx				0	IV	3b	W
252	0-27	C	0	27-55	C	xxx	55-90+	C(r)	xxx	0	IV	3b	W
253	0-31	C	0	31-90+	C(r)	xxx				0	IV	3b	W
254	0-31	C	0	31-52	SCL	xxx	52-90+	C	xxx	0	III	3b	W
255	0-42	C	0	42-58	C	xxx	58-90+	C(r)	xxx	0	III	3b	W
256	0-30	C	0	30-50	C(dist)	-				0	-	-	-
257	0-40	C	0	40-90	C	xxx				0	III	3b	W
258	0-29	C	0	29-38	SCL	xxx	38-80+	C(r)	xxx	1	III/IV	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
259	0-36	C	0	36-63	SCL	xxx	63-90+	C	xxx	1	III/II	3b	W
260	0-31	C	0	31-90+	C(r)	xxx				1	IV	3b	W
261	0-31	SCL	0	31-42	LMS	xxx	42-90+	C	xxx	1	III	3a	W
262	0-40	EP	0	40-65	MS(grey)	o	65-90+	MS	xxx	0	I?	3b	F
263	0-28	C(org)	0	28-70	EP	-	70-100+	HP	-	0	II?	3b	F
264	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
265	0-36	C	0	36-90+	C	xxx				0	IV	3b	W
266	0-25	C	0	25-90+	C	xxx				0	IV	3b	W
267	0-28	C/HCL	0	28-50	SCL	xxx	50-90+	C(r)	xxx	0	III	3b	W
268	0-33	C	0	33-55	SCL	xxx	55-90+	C	xxx	0	III	3b	W
269	0-36	SCL	0	36-51	LMS	xxx	51-80+	C(r)	xxx	0	III	3a	W
270	0-28	C	0	28-65	C	xxx	65-90+	C(r)	xxx	0	IV	3b	W
271	0-32	C	0	32-62	C	xxx	62-90+	C(r)	xxx	1	IV	3b	W
272	0-32	HCL	0	32-52	SCL	xxx	52-90+	SC	xxx	1	III	3b	W
273	0-37	HCL/SCL(org)	0	37-65	SCL	xx	65-100+	MS	xx	3	I	2	D
274	0-27	PL	0	27-78	EP	-	78-100+	HP	-	0	II?	3b	F
275	0-47	C(org)	0	47-100+	EP	-				1	II?	3b	F
276	0-30	SCL	0	30-88	MSL/SCL	xxx	88+	C	xxx	0	II	2	W
277	0-34	SCL	0	34-68	MSL/SCL	xxx	68-90+	C	xxx	0	II	2	W
278	0-25	SCL	0	25-38	SCL	xxx	38-90+	C	xxx	0	III/IV	3a/3b	W
279	0-32	SCL	0	32-78	MSL/SCL	xxx	78-90+	C	xxx	0	II	2	W
280	0-26	C	0	26-62	C	xxx	62-80+	C(r)	xxx	0	IV	3b	W
281	0-29	C	0	29-80+	C	xxx				0	IV	3b	W
282	0-34	C	0	34-47	SCL		47-90+	C(r)		0	III	3b	W
283	0-31	C	0	31-90+	C(r)	xxx				1	IV	3b	W
284	0-31	C(org)	0	31-65	EP	-	65-100+	HP	-	0	II?	3b	F
285	0-35	C	0	35-80+	C					0	IV	3b	W
286	0-50+	C(dist)	0							0	-	-	-
287	0-30	C	0	30-62	C	xxx	62-80+	C(r)	xxx	0	IV	3b	W
288	0-30	C	0	30-44	HCL	xxx	44-90+	C(r)	xxx	0	III	3b	W
289	0-32	C	0	32-90+	C	xxx				0	IV	3b	W
290	0-20	C	0	20-52	C	xxx	52-90+	C(r)	xxx	0	IV	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
291	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
292	0-32	C(org)	0	32-60	EP	-	60-90+	SCL	xxx	0	II?	3b	F
293	0-30	C	0	30-90+	C(org)	xxx				0	II	3b	F
294	0-25	C	0	25-58	C	xxx	58-90+	C(r)	xxx	0	IV	3b	W
295	0-21	C	0	21-80+	C(r)	xxx				0	IV	3b	W
296	0-22	HCL/C	0	22-47	C	xxx	47-90+	C(r)	xxx	0	IV	3b	W
297	0-24	C	0	24-54	C	xxx	54-90+	C(r)	xxx	0	IV	3b	W
298	0-27	C	0	27-62	C	xxx	62-90+	C(r)	xxx	0	IV	3b	W
299	0-30	C	0	30-48	C	xxx	48-90+	C(r)	xxx	0	IV	3b	W
300	0-30	C	0	30-58	C	xxx	58-90+	C(r)	xxx	0	IV	3b	W
301	0-28	C	0	28-45	MSL	xxx	45-80+	C(r)	xxx	0	III	3b	W
302	0-28	SC	0	28-53	C	xxx	53-90+	C(r)	xxx	0	IV	3b	W
303	0-32	C(org)	0	32-90+	C(org)	xxx				0	II?	3b	F
304	0-34	C(org)	0	34-55	PL	-	55-100+	EP	-	1	II?	3b	F
305	0-40	SCL	0	40-55	MSL	xxx	55-76 76-120	SCL C	xxx xxx	0	III	3a	W
306	0-50+	SCL(dist)	0							0	-	-	-
307	0-28	SCL	0	28-80+	C	xxx				0	IV	3b	W
308	0-27	SCL	0	27-58	MSL	xxx	58-90+	C	xxx	0	III	3a	W
309	0-33	C	0	33-90+	C	xxx				0	IV	3b	W
310	0-31	C	0	31-90+	C	xxx				0	IV	3b	W
311	0-32	C	0	32-43	SCL	xxx	43-90+	C	xxx	0	III	3b	W
312	0-31	C	0	31-90+	C(r)	xxx				0	IV	3b	W
313	0-35	C	0	35-80+	C(r)	xxx				0	IV	3b	W
314	0-31	SC	0	31-53	MSL	xxx	53-90+	C(r)	xxx	2	III	3b	W
315	0-25	C(org)	0	25-40	LP	-	40-100+	HP	-	1			
316	0-70	EP	0	70-100+	HP	-				0			
317	0-33	HCL	0	33-80+	C	xxx				0	IV	3b	W
318	0-31	SCL	0	31-43	MSL	xxx	43-90+	SC	xxx	0	III	3a	W
319	0-40	MSL	0	40-60	MS	xxx	60-78 78-90+	MSL C	xxx xxx	0	II	2	D
320	0-31	MSL	0	31-100+	LMS	xxx				0	I	3a	D

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
321	0-33	SCL	0	33-47	LMS	xxx	47-80+	HCL		0	III	3a	W
322	0-32	C	0	32-80+	C	xxx				0	IV	3b	W
323	0-34	C	0	34-80+	C	xxx				0	IV	3b	W
324	0-28	C	0	28-80+	C	xxx				0	IV	3b	W
325	0-33	C	0	33-65	MSL	xxx	65-90+	C	xxx	0	III/II	3b	W
326	0-30	C	0	30-80+	C	xxx				0	IV	3b	W
327	0-34	SCL	0	34-47	SCL	xxx	47-80+	C	xxx	0	III	3a	W
328	0-32	SCL	0	32-48	LMS	xxx	48-90+	C	xxx	0	III	3a	W
329	Not recorded												
330	0-33	C	0	33-90+	C	xxx				0	IV	3b	W
331	0-31	SCL	0	31-41	SCL/HCL	xxx	41-90+	C	xxx	0	III	3a	W
	BLOCK 2												
1	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
2	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
3	0-32	C	<5	32-100+	C	xxx				0	III	3b	W
4	0-32	C	<5	32-100+	C	xxx				1	III	3b	W
5	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
6	0-28	C	<5	28-95+	C	xxx				0	III	3b	W
7	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
8	0-31	C	<5	31-80+	C	xxx				0	III	3b	W
9	0-36	C	<5	30-90+	C	xxx				0	III	3b	W
10	0-25	C	<5	25-80+	C	xxx				<1	III	3b	W
11	0-30	HCL	<5	30-80+	C	xxx				<1	III	3b	W
12	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
13	0-31	C	<5	31-95+	C	xxx				0	III	3b	W
14	0-32	C	<5	32-90+	C	xxx				0	III	3b	W
15	0-32	C	<5	32-100+	C	xxx				0	III	3b	W
16	0-30	HCL	<5	30-80+	C	xxx				<1	III	3b	W
17	0-30	HCL	<5	30-80+	C	xxx				<1	III	3b	W
18	0-30	HCL / C	<5	30-80+	C	xxx				<1	III	3b	W
19	0-32	C	<5	32-90+	C	xxx				0	III	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
20	0-31	C	<5	31-80+	C	xxx				<1	III	3b	W
21	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
22	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
23	0-29	C	<5	29-100+	C	xxx				1	III	3b	W
24	0-31	C	<5	31-80+	C	xxx				<1	III	3b	W
25	0-29	C	<5	29-80+	C	xxx				<1	III	3b	W
26	0-30	C	<5	30-80+	C	xxx				1	III	3b	W
27	0-32	HCL	<5	32-50+	C	xxx				0	III	3b	W
28	0-25	C	<5	25-80+	C	xxx				<1	III	3b	W
29	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
30	0-30	HCL	<5	30-80+	C	xxx				1	IV	3b	W
31	0-30	HCL/C	<5	30-80+	C	xxx				1	IV	3b	W
32	0-30	HCL	0	30-80+	C	xxx				0	IV	3b	W
33	0-38	C	0	38-90+	C	xxx				0	III/IV	3b	W
34	0-22	HCL	0	22-80+	C	xxx				0	IV	3b	W
35	0-17	MSL/SCL	0	17-28	SCL	xxx	28-70+	C	xxx	0	IV	3a/3b	W
36	0-30	C	0	30-90+	C	xxx				0	IV	3b	W
37	0-30	SCL	<5	30-38	SCL	xxx	38-80+	C	xxx	1	III	3a	W
38	0-32	HCL	<5	32-80+	C	xxx				1	IV	3b	W
39	0-27	HCL	0	27-80+	C	xxx				0	IV	3b	W
40	0-23	HCL	0	23-90+	C	xxx				0	IV	3b	W
41	0-25	HCL	0	25-80+	C	xxx				0	IV	3b	W
42	0-20	HCL	0	20+	Wet (stopped)					0	-	-	-
43	0-43	SCL	0	43-55	SCL	xxx	55-90+	C	xxx	0	III	3a	W
44	0-30	HCL	<5	30-80+	C	xxx				1	IV	3b	W
45	0-30	HCL	<5	30-80+	C	xxx				1	IV	3b	W
46	0-27	SCL	0	27-90+	C	xxx				0	III/IV	3a/3b	W
47	0-26	FSL	0	26-45	MSL	xxx	45-66 66-90+	SCL C	xxx xxx	0	III	2	W
48	0-26	HCL	0	26-46	SCL	xxx	46-80+	C	xxx	0	III	3b	W
49	0-21	HCL	0	21-80+	C	xxx				0	IV	3b	W
50	0-16	MSL/SCL	0	16-33	MSL	x	33-80+	C	xxx	0	IV	3a/3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
51	0-26	C	0	26-45	C	xxx	45-80+	C(r)	xxx	0	IV	3b	W
52	0-30	MCL	<5	30-80+	C	xxx				1	IV	3b	W
53	0-30	HCL	<5	30-80+	C	xxx				1	IV	3b	W
54	0-31	MCL/HCL	0	31-80+	C	xxx				0	IV	3b	W
55	0-30	HCL	<5	30-80+	C	xxx				1	IV	3b	W
56	0-24	C	0	24-80+	C	xxx				0	III	3b	W
57	0-36	C	0	36-90+	C	xxx				0	III	3b	W
58	0-25	C	0	25-90+	C	xxx				0	III	3b	W
59	0-23	C	0	23-70+	C	xxx				0	III	3b	W
60	0-30	C	0	30-90+	C	xxx				0	III	3b	W
61	0-26	C	0	26-90+	C	xxx				0	III	3b	W
62	0-25	HCL	0	25-70+	C	xxx				0	III	3b	W
63	0-33	C	0	33-90+	C	xxx				0	III	3b	W
64	0-32	C	0	32-90+	C	xxx				0	III	3b	W
65	0-50+	C(dist)	0							0	-	-	-
66	0-26	HCL	0	26-70+	C	xxx				0	III	3b	W
67	0-31	C	0	31-70+	C	xxx				0	III	3b	W
68	0-24	HCL	0	24-70+	C	xxx				0	III	3b	W
69	0-26	HCL	0	26-60+	C(dist)	-				0	-	-	-
70	0-27	C	0	27-90+	C	xxx				0	III	3b	W
71	0-31	C	0	31-90+	C	xxx				0	III	3b	W
72	0-25	SCL	0	25-38	MSL	xxx	38-70+	C	xxx	0	III	3a	W
73	0-29	C	0	29-90+	C	xxx				0	III	3b	W
74	0-30	C	0	30-90+	C	xxx				0	III	3b	W
75	0-30	C	0	30-90+	C	xxx				0	III	3b	W
76	0-20	C	0	20-70	C	xxx	70+	Stopped on stones		0	III	3b	W
77	0-31	C	0	31-80+	C	xxx				0	III	3b	W
78	0-21	C	0	21-90+	C	xxx				0	III	3b	W
79	0-30	HCL	<5	30-80+	C	xxx				1	IV	3b	W
80	0-34	HCL	<5	34-100+	C	xxx				0	IV/III	3b	W
81	0-30	HCL	<5	30-80+	C	xxx				1	IV	3b	W
82	0-30	HCL	<5	30-80+	C	xxx				1	IV	3b	W
83	0-30	HCL/C	<5	30-80+	C	xxx				1	IV	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
84	0-33	C	<5	33-90+	C	xxx				0	IV/III	3b	W
85	0-30	C	<5	30-90+	C	xxx				0	IV/III	3b	W
86	0-30	SCL	<5	30-60	SCL	xxx	60-80+	C	xxx	1	III	3a	W
87	0-35	HCL/C	<5	35-80+	C	xxx				1	IV/III	3b	W
88	0-30	SCL	<5	30-50	HCL	xxx	50-80+	C	xxx	1	III	3a	W
89	0-32	C	<5	32-56+	C	xxx				0	IV/III	3b	W
90	0-32	C	<5	32-100+	C	xxx				0	IV/III	3b	W
91	0-31	C	<5	31-65+	C	xxx				0	IV/III	3b	W
92	0-29	C	<5	29-80+	C	xxx				0	IV/III	3b	W
93	0-32	HCL/C	<5	32-80+	C	xxx				1	IV/III	3b	W
94	0-37	C	<5	37-80+	C	xxx				1	III	3b	W
95	0-30	HCL	<5	30-80+	C	xxx				1	IV/III	3b	W
96	0-32	HCL	<5	32-80+	C	xxx				1	IV/III	3b	W
97	0-30	HCL	<5	30-80+	C	xxx				1	IV/III	3b	W
98	0-28	C	<5	28-50+	C	xxx				0	IV/III	3b	W
99	0-32	C	<5	32-100+	C	xxx				0	IV/III	3b	W
100	0-28	C	<5	28-80+	C	xxx				1	IV/III	3b	W
101	0-32	C	<5	32-80+	C	xxx				1	IV/III	3b	W
102	0-30	C	<5	30-55+	C	xxx				0	IV/III	3b	W
103	0-28	C	<5	28-50+	C	xxx				0	IV/III	3b	W
104	0-25	C	<5	25-45+	C	xxx				1	IV/III	3b	W
105	0-30	HCL	<5	30-80+	C	xxx				1	III	3b	W
106	0-30	HCL	<5	30-80+	C	xxx				1	III	3b	W
107	0-33	C	<5	33-100+	C	xxx				0	III	3b	W
108	0-34	MSL/SCL	<5	34-74	MS	xxx	74-100+	C	xxx	0	II	3a	D
109	0-28	C	<5	28-90+	C	xxx				0	III	3b	W
110	0-30	C	<5	30-50+	C	xxx				0	III	3b	W
111	0-40	HCL	<5	40-80+	C	xxx				1	III	3b	W
112	0-30	MCL/HCL	<5	30-80+	C	xxx				1	III	3a/3b	W
113	0-30	C	<5	30-50+	C	xxx				0	III	3b	W
114	0-30	C	<5	30-80+	C	xxx				1	III	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
115	0-31	HCL	<5	31-100+	C	xxx				0	III	3b	W
116	0-30	HCL	<5	30-80+	C	xxx				1	III	3b	W
117	0-31	C	<5	31-95+	C	xxx				0	III	3b	W
118	0-31	C	<5	31-100+	C	xxx				0	III	3b	W
119	0-28	C	<5	28-60+	C	xxx				0	III	3b	W
120	0-29	MCL	<5	29-90+	C	xxx				0	III	3a	W
121	0-31	SCL	<5	31-60	SCL	xxx	60-100+	C	xxx	0	III	3a	W
122	0-27	C	<5	27-90+	C	xxx				0	III	3b	W
123	0-30	SCL	<5	30-45	SCL	xxx	45-80+	C	xxx	1	III	3a	W
124	0-28	HCL	<5	28-90+	C	xxx				0	III	3b	W
125	0-25	MCL	0	25-80+	C	xxx				0	III	3a	W
126	0-34	SCL	<5	34-80+	C	xxx				1	III	3a	W
127	0-29	C	<5	29-100+	C	xxx				0	III	3b	W
128	0-32	HCL	<5	32-58	SCL	xxx	58-80+	C	xxx	1	III	3b	W
129	0-32	C	<5	32-90+	C	xxx				1	III	3b	W
130	0-27	C	0	27-60+	C	xxx				0	III	3b	W
131	0-29	C	<5	29-90+	C	xxx				1	III	3b	W
132	0-30	C	<5	30-80+	C	xxx				1	III	3b	W
133	0-30	HCL	<5	30-80+	C	xxx				1	III	3b	W
134	0-30	HCL/C	<5	30-80+	C	xxx				1	III	3b	W
135	0-28	C	<5	28-80+	C	xxx				1	III	3b	W
136	0-28	HCL	<5	28-80+	C	xxx				1	III	3b	W
137	0-34	C	<5	34-100+	C	xxx				0	III	3b	W
138	0-30	C	<5	30-80+	C	xxx				0	III	3b	W
139	0-28	HCL	<5	28-80+	C	xxx				1	III	3b	W
140	0-31	MCL	<5	31-48	SCL with C bands	xxx	48-100+	C	xxx	0	III	3a	W
141	0-31	HCL/C	<5	31-100+	C	xxx				0	III	3b	W
142	0-28	C	<5	28-50+	C	xxx				0	III	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
143	0-36	HCL	<5	30-50+	C	xxx				0	III	3b	W
144	0-28	C	<5	28-80+	C	xxx				1	III	3b	W
145	0-30	MCL/HCL	<5	30-80+	C	xxx				1	III	3a/b	W
146	0-28	C	<5	28-100+	C	xxx				0	III	3b	W
147	0-30	C	<5	30-80+	C	xxx				1	III	3b	W
148	0-30	MCL/SCL	<5	30-54	FSL	xxx	54-100+	SC	xxx	0	III	3a	W
149	0-30	FSL	<5	30-47	FSL/LFS	xx	47-80 80-100+	LFS SCL	xxx xxx	2	I	1	-
150	0-40	MSL	<5	40-90+	MSL	xxx				0	I	1	-
151	0-30	C	<5	30-90+	C	xxx				0	III	3b	W
152	0-28	C	<5	28-90+	C	xxx				0	III	3b	W
153	0-30	HCL/C	<5	30-95+	C	xxx				0	III	3b	W
154	0-34	MCL	<5	34-70	SCL	xxx	70-100+	C	xxx	0	II	2	W
155	0-33	MCL/SCL	<5	33-90+	MCLr	xx(x)				1	I/II	2/1	W
156	0-38	FSL	<5	38-80	FSL	xxx	80-100+	C	xxx	1	II	1	-
157	0-34	FSL	<5	34-45	FSL	xxx	45-100+	FSL	xxx	1	I	1	-
158	0-29	C	<5	29-100+	C	xxx				0	III	3b	W
159	0-30	C	<5	30-90+	C	xxx				0	III	3b	W
160	0-33	C	<5	33-100+	C	xxx				0	III	3b	W
161	0-32	HCL/C	<5	32-80+	C	xxx				1	III	3b	W
162	0-32	C	<5	32-100+	C	xxx				0	III	3b	W
163	0-30	SCL	<5	30-45	SCL	xxx	45-80+	C	xxx	1	III	3a	W
164	0-30	HCL/C	<5	30-100+	C	xxx				0	III	3b	W
165	0-30	SCL	<5	30-45	SCL	xxx	45-80+	C	xxx	2	III	3a	W
166	0-30	M/SCL	<5	30-51	FSL	xxx	51-100+	C with sand incl.	xxx	0	III	3a	W
167	0-31	MCL	<5	31-100+	C	xxx				0	III	3b	W
168	0-30	SCL	<5	30-75	SCL	xxx	75-100+	C	xxx	1	II	2	W
169	0-30	SCL	<5	30-60	SCL	xxx	60-80+	C	xxx	1	III	3a	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
170	0-32	C	<5	32-100+	C					0	III	3b	W
171	Not surveyed												
172	0-30	C	<5	30-100+	C	xxx				0	III	3b	W
173	0-30	C	<5	30-90+	C	xxx				0	III	3b	W
174	0-27	HCL/C	<5	27-100+	C	xxx				0	III	3b	W
175	0-33	HCL/C	<5	33-100+	C	xxx				0	III	3b	W
176	0-34	SCL	<5	34-72	SCL	xxx	72-100+	C	xxx	0	II	2	W
177	0-35	C	<5	35-80+	C	xxx				2	III	3b	W
178	0-30	C	<5	30-80+	C	xxx				1	III	3b	W
179	0-30	HCL/C	<5	30-80+	C	xxx				1	III	3b	W
180	0-30	HCL	<5	30-80+	C	xxx				1	III	3b	W
181	0-33	HCL	<5	33-80+	C	xxx				1	III	3b	W
182	0-35	C	<5	35-80+	C	xxx				1	III	3b	W
183	0-28	C	<5	28-100+	C	xxx				0	III	3b	W
184	0-32	HCL	<5	32-80+	C	xxx				1	III	3b	W
185	0-30	FSL	<5	30-50	C	xxx	50-100+	FSL	xxx	1	II/III	1/2	W
186	0-30	FSL	<5	30-56	FSL	xxx	56-100+	FSL	xx	1	I	1	-
187	0-30	HCL/C	<5	30-80+	C	xxx				1	III	3b	W
188	0-33	C	<5	33-80+	C	xxx				1	III	3b	W
189	0-31	C	<5	31-100+	C	xxx				0	III	3b	W
190	0-34	HCL	<5	34-100+	C	xxx				0	III	3b	W
191	0-30	HCL	<5	30-40	SCL/HCL	xxx	40-100+	C	xxx	0	III	3b	W
192	0-35	MCL	<5	35-90+	C with sand incl.	xxx				0	III	3a	W
193	0-29	C	<5	29-100+	C	xxx				0	III	3b	W
194	0-28	C	<5	28-95+	C	xxx				0	III	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
195	0-31	C	<5	31-90+	C	xxx				0	III	3b	W
196	0-35	C/HCL	<5	35-90+	C	xxx				0	III	3b	W
197	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
198	0-33	HCL	<5	33-80+	C	xxx				1	III	3b	W
199	0-30	M/SCL	<5	30-52	SCL	xxx	52-100+	C	xxx	0	III	3a	W
200	0-32	MCL	<5	32-42	HCL	xxx	42-80+	C	xxx	1	III	3a	W
201	0-28	C	<5	28-90+	C	xxx				0	III	3b	W
202	0-32	SCL	<5	32-38	SCL	xxx	38-80+	C	xxx	2	III	3a	W
203	0-30	SCL	<5	30-49	SCL	xxx	49-100+	C	xxx	0	III	3a	W
204	0-32	SCL	<5	32-100+	SCL	xxx				1	II	2	W
205	0-32	SCL	<5	32-46	SCL	xx	46-105 105-120	FSL C	xxx xxx	1	I	2	D
206	0-32	SCL	<5	32-50	SCL	xxx	50-70 70-100+	C FSL	xxx xxx	1	II-III	2/3a	W
207	0-33	HCL	<5	33-40	HCL	xxx	40-60 60-80+	SCL C	xxx xxx	1	III	3b	W
208	0-26	SCL	<5	26-42	SCL	xxx	42-80+	C	xxx	<1	III	3a	W
209	0-30	C	<5	30-90+	C	xxx				0	III	3b	W
210	0-31	MCL	<5	31-95+	C	xxx				0	III	3a	W
211	0-32	M/SCL	<5	32-80+	SCL	xxx				0	II	2	W
212	0-33	SCL	<5	33-48	SC	xxx	48-100+	C	xxx	0	III	3a	W
213	0-28	C	<5	28-50+	C	xxx				0	III	3b	W
214	0-30	C	<5	30-80+	C	xxx				<1	III	3b	W
215	0-31	C	<5	31-100+	C	xxx				0	III	3b	W
216	0-32	MCL	<5	32-90+	C	xxx				0	III	3a	W
217	0-30	SCL	<5	30-40	SCL	xxx	40-55 55-75 75-100+	SC C LFS	xxx xxx xxx	1	III	3a	W
218	0-30	FSL	<5	30-45	FSL	xx	45-58 58-63 63-100+	FSL SCL C	xxx xxx xxx	1	II	1	-
219	0-30	SCL	<5	30-50	SCL	xxx	50-80+	C	xxx	1	III	3a	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
220	Not surveyed												
221	0-30	SCL	<5	30-60	SCL	xxx	60-100+	C	xxx	1	III	3a	W
222	0-30	SCL	<5	30-38	SCL	xx	38-80 80-100+	SCL C	xxx xxx	1	II	2	W
223	0-30	SCL	<5	30-40	SCL	xxx	40-60 60-80+	FSL C	xxx xxx	1	III	3a	W
224	0-30	SCL	<5	30-38	SCL	xxx	38-70 70-100+	C LFS	xxx xx	<1	III	3a	W
225	0-30	MCL/HCL	<5	30-50	HCL	xx	50-80+	HCL	xxx	<1	III	3a/b	W
226	0-28	HCL	<5	28-65	C	xxx	65-70 70-100+	FSL C	xxx xxx	1	III	3b	W
227	0-30	SCL	<5	30-37	SCL	xx	37-100+	SCL	xxx	1	II	2	W
228	0-40+	SCL(dist)									-	-	-
229	0-30	SCL	<5	30-45	SCL	xx	45-70 70-100+	SCL / FSL FSL	xxx xxx	1	I	1	-
230	0-28	HCL	<5	28-80+	C	xxx				1	III	3b	W
231	0-30	HCL/SCL	<5	30-47	SCL	xxx	47-60 60-80+	FSL C	xxx xxx	1	III	3a/b	W
232	0-30	FSL	<5	30-40	FSL	xxx	40-50 50-80 80-100+	SC FSL SCL	xxx xxx xxx	1	II	1	-
233	0-32	SCL/ FSL	<5	32-100+	FSL	xxx				1	I	1	-
234	0-32	SCL	<5	32-50	SCL	xxx	50-75 75-100+	FSL C	xxx xxx	1	II	2	W
BLOCK 3													
1	0-32	C	0	32-90+	C	xxx				0	III	3b	W
2	0-26	C	0	26-90+	C	xxx				0	III	3b	W
3	0-35	HCL	0	35-49	HCL/SCL	xxx				0	III	3b	W
4	0-27	C	0	27-51	ZC	xxx	51-90+	C	xxx	0	III	3b	W
5	0-30	C	0	30-90+	C	xxx				0	III	3b	W
6	0-43	C	0	43-90+	C	xxx				0	III	3b	W
7	0-30	C	0	30-90+	C	xxx				0	III	3b	W
8	0-32	HCL/SCL	0	32-90+	C	xxx				0	III	3b/3a	W
9	0-26	C	0	26-90+	C	xxx				0	III	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
10	0-35	C	0	35-90+	C	xxx				0	III	3b	W
11	0-28	HCL/C	0	28-47	ZC	xxx	47-90+	C	xxx	0	III	3b	W
12	0-28	C	0	28-90+	C	xxx				0	III	3b	W
13	0-28	C	0	28-100+	C	xxx				0	III	3b	W
14	0-28	C	0	28-90+	C	xxx				0	III	3b	W
15	0-34	HCL	0	34-60+	C	xxx				0	III	3b	W
16	0-26	C	0	26-65	C	xxx	65-90+	C(r)	xxx	0	III	3b	W
17	0-25	C	0	25-63	C	xxx	63-90+	C(r)	xxx	0	III	3b	W
18	0-32	C	0	32-90+	C	xxx				0	III	3b	W
19	0-27	HCL/C	0	27-68	C	xxx	68+	Stopped on stones		0	III	3b	W
20	0-30	C	0	30+	Stopped on stones					0	-	-	-
21	0-29	C	0	29-90+	C	xxx				0	III	3b	W
22	0-31	C	0	31-90+	C	xxx				0	III	3b	W
23	0-50+	HCL(dist)	0							0	-	-	-
24	0-31	HCL/C	0	31-90+	C	xxx				0	III	3b	W
25	0-27	HCL	0	27-90+	C	xxx				0	III	3b	W
26	0-25	HCL	0	25-90+	C	xxx				0	III	3b	W
27	0-37	C	0	37-80+	C	xxx				0	III	3b	W
28	0-30	C	0	30-90+	C	xxx				0	III	3b	W
29	0-28	C	0	28-90+	C	xxx				0	III	3b	W
30	0-28	C	0	28-90+	C	xxx				0	III	3b	W
31	0-30	HCL	0	30-43	HCL	xxx	43-80+	C	xxx	0	III	3b	W
32	0-29	HCL	0	29-90+	C	xxx				0	III	3b	W
33	0-27	HCL	0	27-90+	C	xxx				0	III	3b	W
34	0-24	HCL	0	24-90+	C	xxx				0	III	3b	W
35	0-23	HCL	0	23-37	HCL	xxx	37-80+	C	xxx	0	III	3b	W
36	0-31	HCL/SC	0	31-38	SCL	xxx	38-80+	C	xxx	0	III	3b	W
37	0-32	HCL/SC	0	32-45	SC	xxx	45-60+	C	xxx	0	III	3b	W
38	0-37	C	0	37-90+	C	xxx				0	III	3b	W
39	0-29	HCL	0	29-60+	C	xxx				0	III	3b	W
40	0-31	C	0	31-90+	C	xxx				0	III	3b	W
41	0-25	C	0	25-90+	C	xxx				0	III	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
42	0-33	C	0	33-90+	C	xxx				0	III	3b	W
43	0-28	C	0	28-70+	C	xxx				0	III	3b	W
44	0-31	C	0	31-70+	C	xxx				1	III	3b	W
45	0-33	C	0	33-67	C	xxx	67-120	C	xxx	0	III	3b	W
46	0-27	C	0	27-80+	C	xxx				0	III	3b	W
47	0-24	C	0	24-80+	C	xxx				0	III	3b	W
48	0-32	C	0	32-80+	C	xxx				0	III	3b	W
49	0-28	HCL	0	28-90+	C	xxx				0	III	3b	W
50	0-35	HCL	0	35-90+	C	xxx				0	III	3b	W
51	0-32	HCL	0	32-80+	C	xxx				0	III	3b	W
52	0-21	C	0	21-90+	C	xxx				0	III	3b	W
53	0-27	C	0	27-80+	C	xxx				0	III	3b	W
54	0-30	C	0	30-90+	C	xxx				0	III	3b	W
55	0-30	HCL	0	30-90+	C	xxx				0	III	3b	W
56	0-33	HCL	0	33-80+	C	xxx				0	III	3b	W
57	0-34	MCL/SCL	0	34-48	MCL/SCL	xxx	48-80+	C	xxx	0	III	3a	W
58	0-28	SCL	0	28-70+	HCL(dist)	xxx				0	III	3a	W
59	0-28	HCL	0	28-90+	C	xxx				0	III	3b	W
60	0-28	HCL	0	28-90+	C	xxx				0	III	3b	W
61	0-32	C	0	32-70+	C	xxx				0	III	3a	W
62	0-31	C	0	31-90+	C(r)	xxx				0	III	3b	W
63	0-23	C	0	23-55	C	xxx	55-90+	C	xxx	0	III	3b	W
64	0-30	HCL	0	30-90+	C	xxx				0	III	3b	W
65	0-28	HCL	0	28-90+	C	xxx				0	III	3b	W
66	0-23	C	0	23-44	C	xxx	44-80+	C(r)	xxx	0	III	3b	W
67	0-22	C	0	22-80+	C	xxx				0	III	3b	W
68	0-25	SCL	0	25-62	C	xxx	62-90+	C(r)	xxx	1	III	3a	W
69	0-22	SCL	0	22-55	C	xxx	55-90+	C	xxxx	0	III	3a	W
70	0-25	C/HCL	0	25-60	C	xxx	60-90+	C(r)	xxx	0	III	3b	W
71	0-23	C	0	23-52	C(r)	xxx	52-80+	C(r)	xxx	0	III	3b	W
72	0-25	HCL	0	25-37	C	xxx	37-53 53-72 72-90+	C FSZL C	xxx xxx xxx	0	III	3b	W
73	0-29	MCL	0	29-90+	C	xxx				0	III	3a	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
74	0-34	MCL	0	34-90+	C	xxx				0	III	3a	W
75	0-24	HCL/MCL	0	24-100+	C	xxx				0	III	3b/3a	W
76	0-31	SCL	0	31-80+	C	xxx				0	III	3a	W
77	0-28	FSL	0	28-50	C	xxx	50-60+	FSL(dist)	-	0	-	-	-
78	0-25	MCL	0	25-40	MCL	xxx	40-72 72-90+	C SCL		0	III	3a	W
79	0-24	HCL	0	24-90+	C	xxx				0	III	3b	W
80	0-21	HCL	0	21-90+	C	xxx				0	III	3b	W
81	0-33	C	0	33-80+	C	xxx				0	III	3b	W
82	0-27	C	0	27-90+	C	xxx				0	III	3b	W
83	0-27	HCL	0	27-41	C	xxx	41-80+	C	xxx	0	III	3b	W
84	0-26	HCL	0	26-90+	C	xxx				0	III	3b	W
85	0-22	HCL	0	22-47	HCL(dist)	-	47-90+	C	xxx	0	III	3b	W
86	0-22	MSL	0	22-42	MSL	xxx	42-80 80-100+	SCL C	xxx xxx	1	II	1	-
87	0-26	FSL	0	26-82	FSL	xxx	82-90+	SCL(r)	xxx	1	I/II	1	-
88	0-31	FSL	0	31-40	SCL	xxx	40-52 52-90+	SC SCL	xxx xxx	0	II	1	-
89	0-50+	SCL(dist)	0							0	-	-	-
90	0-24	SCL/MCL	0	24-80+	C	xxx				0	III	3a	W
91	0-23	ZC	0	23-63	C	xxx	63-90+	C(r)	xxx	0	III	3b	W
92	0-30	C	0	30-90+	C	xxx				0	III	3b	W
93	0-23	C	0	23-65	C	xxx	65-90+	C(r)	xxx	0	III	3b	W
94	0-31	C	0	31-90+	C	xxx				0	III	3b	W
95	0-31	C	0	31-63	C	xxx	63-90+	C(r)	xxx	0	III	3b	W
96	0-28	C	0	28-55	C	xxx	55-90+	C(r)	xxx	0	III	3b	W
97	0-22	C	0	22-55	C	xxx	55-80+	C(r)	xxx	0	III	3b	W
98	0-25	SCL	0	25-72	C	xxx	72-90+	C(r)	xxx	2	III	3a	W
99	Scrub (non-agricultural)												
100	0-20	FSL	0	20-48	FSL	xxx	48-60 60-90+	SCL SCL	xxx xxx	2	II/III	1	-
101	0-25	FSL	0	25-56	FSL	xxx	56-100+	SCL	xxx	0	II	1	-
102	0-28	SCL	0	25-56	SC	xxx	56-90+	C	xxx	0	III	3a	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
103	0-28	FSL	0	28-66	FSL	xxx	66-90+	C	xxx	0			
104	0-26	C	0	26-90+	C	xxx				0	III	3b	W
105	0-23	HZCL	0	23-80+	C	xxx				0	III	3b	W
106	0-25	HCL	0	25-90+	C	xxx				0	III	3b	W
107	0-30	C	0	30-90+	C	xxx				0	III	3b	W
108	0-27	SCL/MCL	0	27-34	SCL	xxx	34-90+	C	xxx	0	III	3a	W
109	0-33	HCL/MCL	0	33-80+	C	xxx				0	III	3b/3a	W
110	0-26	HCL	0	26-90+	C	xxx				0	III	3b	W
111	0-28	C	0	28-90+	C	xxx				0	III	3b	W
112	0-25	MCL	0	25-90+	C	xxx				0	III	3a	W
113	0-25	FSL	0	25-51	FSL	xxx	51-84 84-100+	FSL/FSZL SCL	xxx xxx	1	I/II	1	-
114	0-25	SCL	0	25-37	SCL	xxx	37-80+	SCL/HCL	xxx	1	III	3a	W
115	0-36	HCL	0	36-90+	C	xxx				0	III	3b	W
116	0-26	SCL	0	26-60+	SCL(dist)	-				0	-	-	-
117	0-22	HCL	0	22-90+	C	xxx				0	III	3b	W
118	0-30	HZCL	0	30-35	HZCL	xxx	35-90+	C	xxx	0	III	3b	W
119	0-22	C	0	22-90+	C	xxx				0	III	3b	W
120	0-30	MCL/HCL	0	30-90+	C	xxx				0	III	3a/3b	W
121	0-42	C	0	42-90+	C	xxx				0	III	3b	W
122	0-33	MSZL	0	33-64	SCL	xxx	64-90+	HCL		0	II	1	-
123	0-32	C	0	32-90+	C	xxx				0	III	3b	W
124	0-32	C	O	32-80+	C	xxx				0	III	3b	W
125	0-32	FSL	0	32-72	FSL	xxx	72-90+	C	xxx	1	II	1	-
126	0-30	FSL	0	30-61	HCL	xxx	61-90+	FSL	o	1	II	1	-
127	0-28	HCL	0	28-80+	C	xxx				0	III	3b	W
128	0-26	HCL	0	26-90+	C	xxx				0	III	3b	W
129	0-30	C	0	30-90+	C	xxx				0	III	3b	W
130	0-23	HCL	0	23-80+	C	xxx				0	III	3b	W
131	0-26	HCL	0	26-90+	C	xxx				0	III	3b	W
132	0-29	SCL	0	29-80+	C	xxx				0	III	3a	W
133	0-21	HCL	0	21-90+	C	xxx				0	III	3b	W
134	0-26	HCL	0	26-90+	C	xxx				0	III	3b	W
135	0-32	HZCL	0	32-90+	C	xxx				0	III	3b	W

Obs	Topsoil			Upper subsoil			Lower subsoil			Slope	Wetness	Agricultural quality	
No	Depth (cm)	Texture	Stones >20 mm (%)	Depth (cm)	Texture and stoniness	Mottling	Depth (cm)	Texture and stoniness	Mottling	(°)	Class	Grade	Main limitation
136	0-32	C	0	32-43	C	xxx	43-60+	C	xxx	0	III	3b	W
137	0-28	C	0	28-80+	C	xxx				1	III	3b	W
138	0-20	HCL	0	20-80+	C	xxx				1	III	3b	W
139	0-29	FSL	0	29-67	FSL	xxx	67-120	SCL	xxx	1	II	1	-
140	0-30	SCL	0	30-55	C	xxx				1	III	3a	W
141	0-28	C	0	28-90+	C	xxx				0	III	3b	W
142	0-24	C	0	24-80+	C	xxx				0	III	3b	W
143	0-24	SCL	0	24-90+	C	xxx				0	III	3a	W
144	0-26	HZCL	0	26-50	ZC	xxx	50-90+	C	xxx	0	III	3b	W
145	0-30	SCL	0	30-37	SCL	xxx	37-80+	C	xxx	0	III	3a	W
146	0-30	MCL	0	30-58	C	xxx	58-90+	ZC	xxx	0	III	3a	W
147	0-28	MCL	0	28-52	MCL/HCL	xxx	52-90+	C	xxx	0	III	3a	W
148	0-25	C	0	25-80+	C	xxx				0	III	3b	W
149	0-25	C	0	25-90+	C	xxx				1	III	3b	W
150	0-33	C	0	33-80+	C	xxx				0	III	3b	W
151	0-31	LMS	0	31-90+	LMS	xxx				2	I	3a	D
152	0-30	SCL	0	30-90+	C	xxx				0	III	3a	W
153	0-27	HCL	0	27-80+	C	xxx				0	III	3b	W
154	0-32	MCL	0	32-47	HCL	xxx	47-90+	C	xxx	0	III	3a	W
155	0-20	SCL	0	20-34	SCL	xxx	34-70+	C	xxx	0	III	3a	W
156	0-27	HCL	0	27-80+	C	xxx				0	III	3b	W
157	0-19	HCL	0	19-80+	C	xxx				0	III	3b	W
158	0-27	SCL	0	27-53	C	xxx	53-90+	C	xxx	0	III	3a	W
159	0-38	C	0	38-90+	C	xxx				1	III	3b	W
160	0-32	FSL	0	32-79	FSL	xxx	79-90+	SCL	xxx	0	II	1	-
161	0-31	SCL/HCL	0	31-80+	C	xxx				0	III	3a/3b	W
162	0-60+	C(dist)	0							1	-	-	-
163	0-23	C	0	23-80+	C	xxx				0	III	3b	W
164	0-25	HCL/SCL	0	25-42	SC	xxx	42-90+	C	xxx	0	III	3b/3a	W
165	0-36	SCL/HCL	0	36-80+	SCL	xxx				0	III	3a/3b	W
166	0-35	C	0	35-80+	C	xxx				0	III	3b	W
167	0-30	HCL	0	30-80+	C	xxx				0	III	3b	W
168	0-30	C	0	30-80+	C	xxx				0	III	3b	W

Soil survey log key

Gley indicators[1]

o	unmottled
x	1-2% ochreous mottles and brownish matrix (or a few to common root mottles (topsoils))[3]
xx	>2% ochreous mottles and brownish matrix and/or dull structure faces (slightly gleyed horizon)
xxx	>2% ochreous mottles and greyish or pale matrix (gleyed horizon) or reddish matrix and >2% greyish, brownish or ochreous mottles and pale ped faces
xxxx	mottles or f-m concentrations (gleyed horizon) dominantly blueish matrix, often with some ochreous mottles (gleyed horizon)

Texture[2]

C – clay
ZC - silty clay
SC - sandy clay
CL - clay loam (H-heavy, M-medium)
ZCL - silty clay loam (H-heavy, M-medium)
SZL - sandy silt loam (F-fine, M-medium,C-coarse)
LS - loamy sand (F-fine, M-medium, C-coarse)
SL - sandy loam (F-fine, M-medium, C-coarse)
S - sand (F-fine, M-medium, C-coarse)
SCL - sandy clay loam
P - peat (H-humified, SF-semi-fibrous, F-fibrous, E - earthy)
LP - loamy peat; PL - peaty loam

Limitations:

W - wetness/workability
D - droughtiness
De - depth
F - flooding
St – stoniness
Sl – slope
T – topography/microrelief
C - Climate
Te – sandy topsoil texture

Suffixes & prefixes:

org - organic

(vsl, sl, m, v, x)st – (very slightly, slightly, moderately, very, extremely) stony[6]

(vsl, sl, m, v, x)ca
(very slightly, slightly, moderately, very, extremely) calcareous[7]

Slowly permeable layers[4]

a depth underlined (e.g. 50) indicates the top of a slowly permeable layer

A wavy underline (e.g. 50 indicates the top of a layer borderline to slowly permeable

Wetness Class[5]

I (freely drained) to VI (very poorly drained)

Other abbreviations

fmn - ferri-manganiferous concentrations
dist - disturbed soil layer;
R – bedrock (CH – chalk, SST – sandstone LST – limestone, MST – Mudstone)
r-reddish, gn – greenish

[1]Gley indicators in accordance with Hodgson, J.M., 1997. Soil Survey Field Handbook (third edition). Soil survey technical monograph No. 5

[2]Texture in accordance with particle size classes in Hodgson (1997)

[3] Occasionally recorded in the texture box

[4]Permeability is estimated for auger borings and must be confirmed by full pit observations in accordance with the definitions in: Revised Guidelines for grading the quality of Agricultural Land (Maff 1988)

[5]Soil Wetness Classes are defined in Hodgson (1997)

[6]stoniness classes as defined in Hodgson (1997)

[7]calcareous classes as defined in Hodgson (1997)

Observations recorded as borderline (e.g. **3a**/3b) are close to ALC grade boundaries. The first grade (shown here in bold) indicates which side of the boundary the grade is judged to be.

Soil pit descriptions
Block 1

Pit at observation 37 (see Map 1A)

0-30 cm	Dark greyish brown (10YR 4/2) sandy clay loam; stoneless; weakly developed coarse sub-angular blocky structure; friable; non-calcareous; smooth clear boundary to:
30-51 cm	Grey (10YR 5/1) sandy clay loam with 20% distinct fine strong brown (7.5YR 5/6) mottles; stoneless; weakly developed very coarse sub-angular blocky structure; friable; medium packing density; non-calcareous; smooth gradual boundary to:
51-120 cm	Grey (5YR 5/1) clay with reddish brown (5YR 4/3) ped interiors and 20% faint yellowish red (5YR 5/6_) mottles; stoneless; weakly developed very coare prismatic structure to structureless (massive) very firm; no macropores; high packing density; non-calcareous.

Pit at observation 59 (see Map 1A)

0-31 cm	Dark greyish brown (10YR 4/2) clay; stoneless; weakly developed very coarse sub-angular blocky structure; very firm; non-calcareous; smooth clear boundary to:
31-63 cm	Grey (10YR 5/1) clay with 40% prominent medium reddish yellow (7.5YR 6/8) mottles; stoneless; weakly developed very coarse prismatic structure; very firm; no macropores; non-calcareous; smooth diffuse boundary to:
63-120 cm	Grey (Gley 1 5/N) clay with 20% reddish yellow (7.5YR 6/8) and reddish brown (5YR 5/4) mottles; stoneless; structureless (massive) very firm; no macropores; non-calcareous.

Pit at observation 101 (see Map 1A)

0-26 cm	Dark greyish brown (10YR 4/2) heavy silty clay loam/silty clay; stoneless; moderately developed coarse sub-angular blocky structure; firm; non-calcareous; smooth clear boundary to:
26-52 cm	Grey (10YR 6/1) clay with 40% prominent medium and coarse reddish yellow (7.5YR 6/8) mottles; stoneless; moderately developed coarse to very coarse prismatic structure; firm; <0.5% macropores; non-calcareous; smooth diffuse boundary to:
52-100 cm+	Blueish grey (5B 5/1) clay with 50% prominent coarse yellowish brown (10YR 5/8) mottles; stoneless; moderately developed very coarse angular blocky structure firm; no macropores; non-calcareous.

Pit at observation 148 (see Map 1A)

0-28 cm	Dark greyish brown (10YR 4/2) heavy clay loam; stoneless; moderately developed very coarse sub-angular blocky structure; firm; non-calcareous; smooth clear boundary to:
28-58 cm	Grey (7.5YR 6/1) clay with 30% distinct medium reddish yellow (7.5YR 6/8) mottles; stoneless; weakly developed very coarse prismatic structure; very firm; <0.5% macropores; high packing density; non-calcareous; smooth diffuse boundary to:
58-120 cm	Blueish grey (5B 5/1) clay with 40% diffuse medium strong brown (7.5YR 4/6) mottles stoneless; weakly developed very coarse prismatic structure; very firm; high packing density; no macropores; non-calcareous.

Pit at observation 178 (see Map 1A)

0-38 cm	Very dark brown (10YR 2.5/2) humified peat; stoneless; moderately developed medium sub-angular blocky structure; friable; common fine fibrous roots; smooth clear boundary to:
38-100 cm+	Black (5YR 2.5/1) hiumified peat; stoneless; medium sub-angular blocky structure; friable; few fine fibrous roots.

Pit at observation 180 (see Map 1A)

0-28 cm	Dark greyish brown (10YR 4/2) clay; stoneless; weakly developed very coarse sub-angular blocky structure; firm; non-calcareous; smooth clear boundary to:
28-54 cm	Grey (10YR 5/1) clay with 30% distinct medium strong brown and reddish yellow (7.5YR 5/8 & 6/8) mottles; stoneless; weakly developed very coarse angular blocky structure; very firm; no macropores; high packing density; non-calcareous; smooth diffuse boundary to:
54-120 cm	Reddish grey (5YR 5/2) clay with 5% fine reddish yellow (7.5YR 6/8) mottles and grey (5YR 5/1) ped faces; stoneless; moderately developed very coarse prismatic structure; very firm; high packing density no macropores; non-calcareous.

Pit at observation 284 (see Map 1A)

0-31 cm	Very dark grey (10YR 3/1) organic clay; stoneless; moderately developed coarse sub-angular blocky structure; friable; smooth gradual boundary to:
31-65 cm	Black earthy peat; stoneless; moderately developed medium sub-angular blocky structure; friable; smooth diffuse boundary to:
65-100 cm+	Black humified peat; stoneless; amorphous; wet.

Pit at observation 298 (see Map 1A)

0-25 cm	Very dark greyish brown (10YR 3/2) clay; stoneless; weakly developed very coarse angular blocky structure; very firm; non-calcareous; smooth clear boundary to:
25-58 cm	Grey (10YR 5/1) clay with 25% distinct fine and medium yellowish brown (10YR 5/8) mottles; stoneless; weakly developed very coarse prismatic structure; very firm; no macropores; high packing density; non-calcareous; smooth gradual boundary to:
58-120 cm	Dark blueish grey (10B 4/1) clay with 25% fine red (5YR 5/6) and reddish brown (2.5YR 4/6) mottles; stoneless; weakly developed very coarse prismatic structure; very firm; no macropores; high packing density.

Pit at observation 305 (see Map 1A)

0-40 cm	Very dark greyish brown (10YR 3/2) sandy clay loam; stoneless; moderately developed coarse sub-angular blocky structure; friable; non-calcareous; smooth clear boundary to:
40-55 cm	Pale grey (7.5YR 6/2) medium sandy loam with 15% distinct fine and medium strong brown (7.5YR 5/6) mottles; stoneless; moderately developed medium sub-angular blocky structure; friable; smooth gradual boundary to:
55-76 cm	Grey (7.5YR 5/1) sandy clay loam with 25% distinct strong brown (7.5YR 5/6) mottles; stoneless; weakly developed very coarse sub-angular blocky structure; firm; <0.5% macropores; medium packing density; smooth gradual boundary to:
76-120 cm	Blueish grey (10B 5/1) clay with 30% fine and medium yellowish red (5YR 5/6) and reddish brown (5YR 5/4) mottles; stoneless; weakly developed very coarse prismatic structure; very firm; no macropores; high packing density.

Soil pit descriptions
Block 2

Soil pit at observation 24 (see Map 2A)

0-31 cm	Dark greyish brown (10YR 4/2) clay; stoneless; weakly developed coarse subangular blocky structure; firm; common fine fibrous roots; non-calcareous; smooth clear boundary to:
31-46 cm	Pale brown (10YR 6/3) and grey (10YR 6/1) clay with many medium yellowish brown (10YR 5/8) mottles; stoneless; massive structure; very firm; <0.5% macropores; common fine fibrous roots; non-calcareous; wavy clear boundary to:
46-70+ cm	Reddish grey (5YR 5/1), grey (5YR 5/2) and bluish grey (5B 5/1) clay with many fine strong brown (7.5YR 5/8) mottles; stoneless; weakly developed coarse angular blocky structure; very firm; <0.5% macropores; a few fine fibrous roots; non-calcareous.

Pit at observation 38 (see Map 2A)

0-32 cm	Dark grey (10YR 4/1) heavy clay loam; stoneless; weakly developed coarse subangular blocky structure; firm; a few fine fibrous roots; non-calcareous; smooth clear boundary to:
32-65+ cm	Greyish brown (10YR 5/2 + 2.5Y 5/2) clay with many medium strong brown (7.5YR 5/8) mottles and dark grey (10YR 4/1) ped faces; stoneless; weakly developed coarse angular blocky to coarse prismatic structure; very firm; <0.5% macropores; a few very fine fibrous roots; non-calcareous.

Soil pit at observation 126 (see Map 2A)

0-34 cm	Dark greyish brown (10YR 4/2) sandy clay loam; stoneless; weakly developed coarse subangular blocky structure; friable; a few fine fibrous roots; non-calcareous; abrupt wavy boundary to:
32-60+ cm	Grey (10YR 5/1) clay with many medium strong brown (7.5YR 5/8) mottles and greyish brown (2.5Y 5/2) becoming grey (5YR 6/1) ped faces; stoneless; moderately developed very coarse angular blocky structure; very firm; <0.5% macropores; a few very fine fibrous roots; non-calcareous.

Pit at observation 173 (see Map 2A)

0-30 cm	Dark greyish brown (10YR 4/2); stoneless; weakly developed coarse subangular blocky structure; firm; few fine fibrous roots; non-calcareous; smooth clear boundary to:
30-100+ cm	Grey (10YR 5/1) clay with 10% large distinct reddish yellow (7.5YR 6/8) mottles; stoneless; weakly developed very coarse prismatic structure; very firm; <0.5% macropores; non-calcareous.

Soil pit at observation 203 (see Map 2A)

0-31cm	Brown (7.5YR 5/3) sandy clay loam; stoneless; moderately developed medium subangular blocky structure; friable; non-calcareous; clear smooth boundary to:
31-49 cm	Greyish brown (10YR 5/2) sandy clay loam with common large distinct reddish yellow (7.5YR 6/8) mottles; stoneless; moderately developed coarse subangular blocky structure; friable; non-calcareous; clear smooth boundary to:
49-100 cm+	Palebrown (10YR 6/3) clay with common large distinct grey (10YR 6/1) and brownish yellow (10YR 6/8) mottles; stonesless weakly developed coarse prismatic structure; firm; <0.5% macropores.

Soil pit at observation 205 (see Map 2A)

0-32 cm	Dark grey (10YR 4/1) sandy clay loam; stoneless; weakly developed coarse subangular blocky structure; friable; a few fine fibrous roots; non-calcareous; clear smooth boundary to:
32-46 cm	Grey (7.5YR 5/1) sandy clay loam with common medium dark reddish grey (5YR 4/2) mottles; stoneless; weakly developed coarse subangular blocky structure; friable; >0.5% macropores; a few fine fibrous roots; non-calcareous; clear wavy boundary to:
46-105 cm	Greyish brown (10YR 5/2) and grey (10YR 5/1) sandy clay loam with many medium strong brown (7.5YR 5/6) mottles, and common coarse clayier pockets; stoneless; weakly developed coarse subangular blocky structure; firm; >0.5% macropores; a few fine fibrous roots; non-calcareous; to:
105-120 cm	Reddish brown (5YR 5/3) plastic clay with many coarse grey (N 5/1) and common medium strong brown (7.5YR 5/6) mottles; stoneless; non-calcareous.

Soil pit descriptions
Block 3

Pit 13 (see Map 3A)

0-28 cm	Dark greyish brown (10YR 4/2) clay; stoneless; moderately developed very coarse sub-angular blocky structure; firm; non-calcareous; smooth clear boundary to:
28-60 cm	Grey (10YR 6/1) clay with 30% distinct medium strong brown (7.5YR 5/8) mottles; stoneless; weakly developed very coarse prismatic structure; very firm; high packing ensity; <0.5% macropores; non-calcareous; smooth gradual boundary to:
60-100 cm+	Dark blueish grey (5B 4/1) clay with 15% distinct strong brown (7.5YR 4/6) mottles; stoneless; weakly developed very coarse prismatic structure to structureless (massive) very firm; high packing density; no macropores; non-calcareous.

Pit 46 (see Map 3A)

0-33 cm	Dark greyish brown (10YR 4/2) clay; stoneless; weakly developed very coarse sub-angular blocky structure; firm; non-calcareous; smooth clear boundary to:
33-67 cm	Grey (10YR 5/1) clay with 30% distinct medium reddish yellow (7.5YR 6/8) mottles; stoneless; weakly developed very coarse angular blocky structure; very firm; high packing ensity; no macropores; non-calcareous; smooth diffuse boundary to:
67-120 cm	Grey (Gley 1 5/N) clay with 40% distinct medium and coarse strong brown (7.5YR 4/6 & 5/8) mottles; stoneless; weakly developed very coarse prismatic structure to structureless (massive) very firm; high packing density; no macropores; non-calcareous.

Pit 75 (see Map 3A)

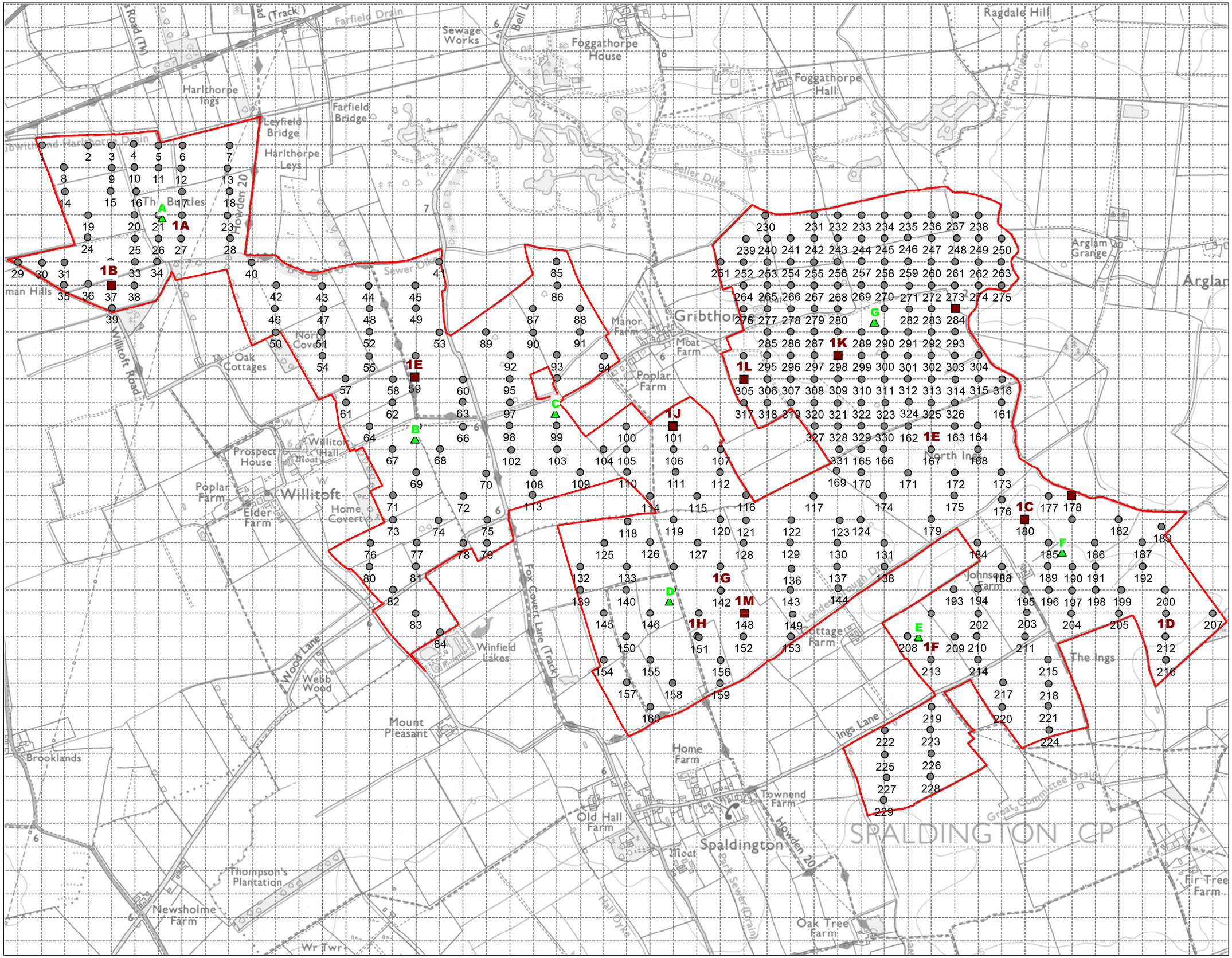
0-24 cm	Dark greyish brown (10YR 4/2) heavy clay loam/medium clay loam; stoneless; weakly developed very coarse sub-angular blocky structure; firm; non-calcareous; smooth clear boundary to:
24-100 cm+	Grey (10YR 6/1) clay with 30% prominent fine and medium reddish yellow (7.5YR 6/8) mottles; stoneless; weakly developed very coarse prismatic structure to structureless (massive); very firm; high packing density; no macropores; non-calcareous.

Pit 117 (see Map 3A)

0-30 cm	Dark greyish brown (10YR 4/2) heavy clay loam/clay; stoneless; moderately developed very coarse sub-angular blocky structure; firm; non-calcareous; smooth clear boundary to:
30-100 cm	Grey (10YR 5/1) clay with 25% distinct brownish yellow (10YR 6/8) mottles; stoneless; weakly developed very coarse prismatic to structureless (massive); very firm; high packing ensity; <0.5% macropores; non-calcareous.

Pit 139 (see Map 3A)

0-29 cm	Dark greyish brown (10YR 4/2) fine sandy loam; stoneless; moderately developed medium sub-angular blocky structure; friable; smooth sharp boundary to:
29-67 cm	Light brownish grey (10YR 6/2) fine sandy loam with 30% distinct fine and medium strong brown (7.5YR 5/8) mottles; stoneless; weakly developed very coarse sub-angular blocky structure; friable; smooth diffuse boundary to:
67-120 cm	Grey (10YR 5/1) sandy clay loam with 30% diffuse medium strong brown (7.5YR 5/8) mottles; stoneless; weakly developed very coarse sub-angular blocky structure; friable; porous.



KEY

- Auger observation
- Pit investigation
- A Lab testing sample
- Climate interpolation point
- Site boundary

Site:

East Yorkshire Solar Farm

Map title:

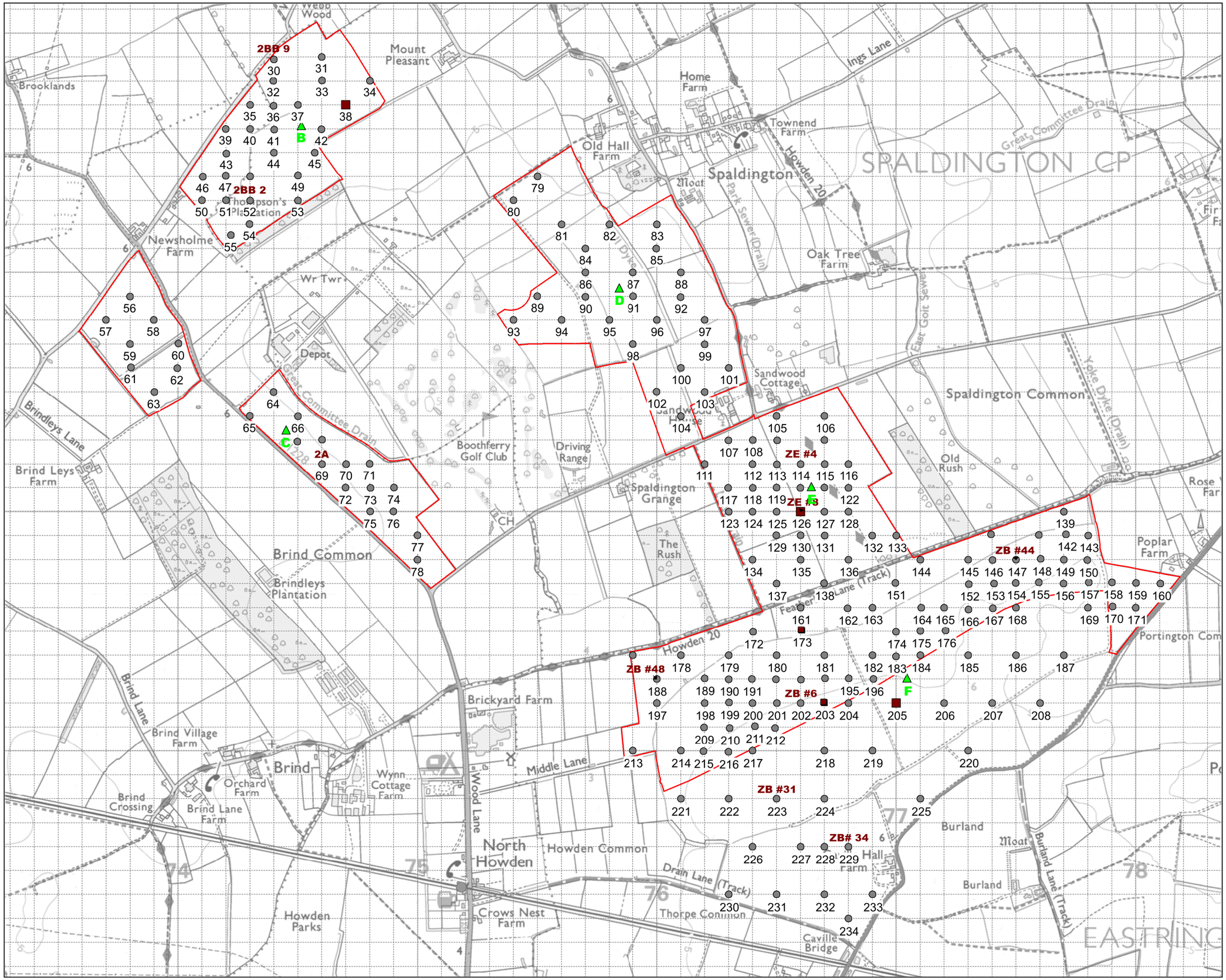
MAP 1A Observations

Land Research Associates

Lockington Hall
Lockington
Derby
DE74 2RH
www.lra.co.uk

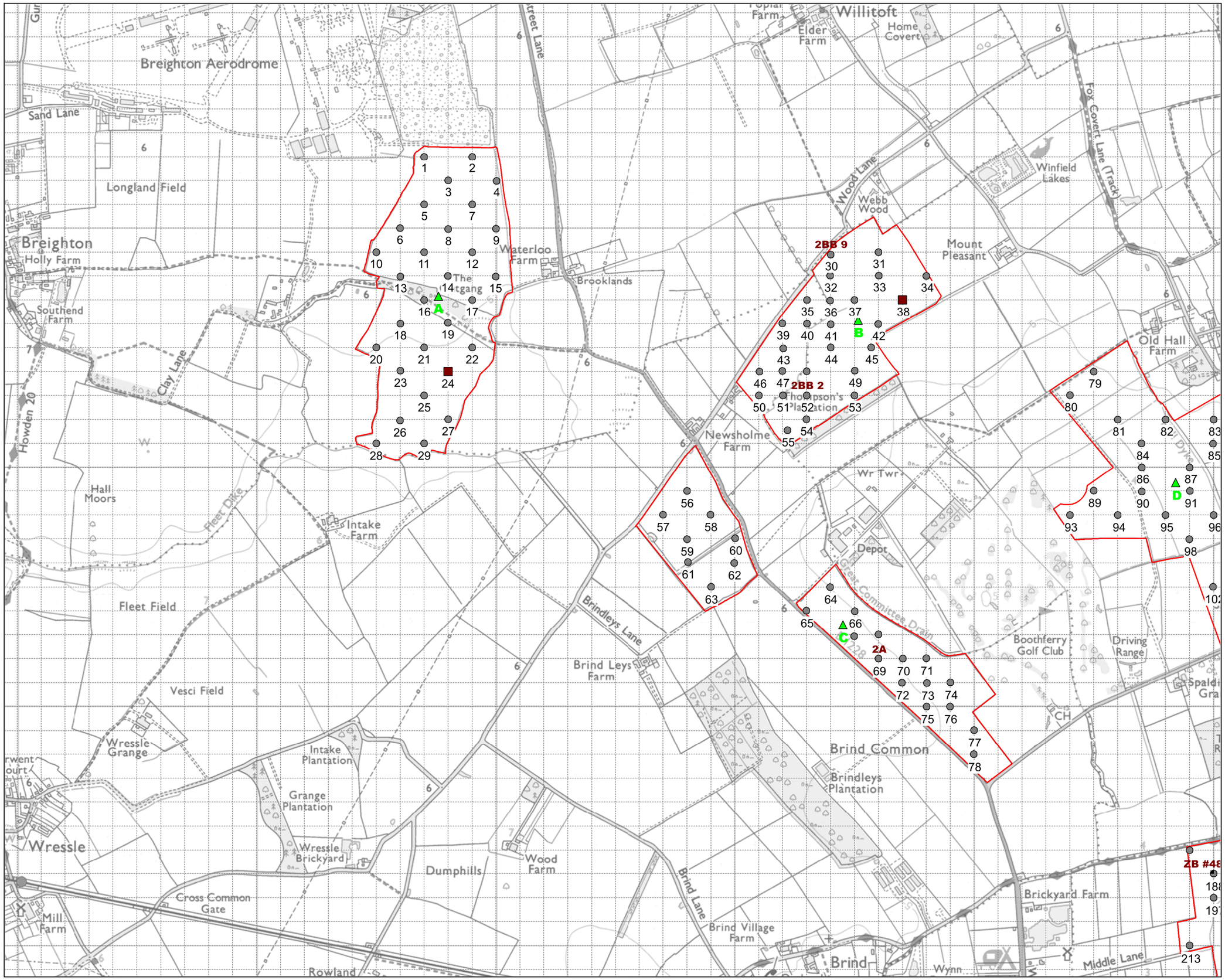
Date: 10/10/2023

Scale: 1:15,000@A3



KEY

- Auger observations
- Pits
- Climate interpolation point
- 1A Laboratory sample ID
- Site boundary



KEY

- Auger observations
- Pits
- Climate interpolation point
- 1A Laboratory sample ID
- Site boundary

Site:

East Yorkshire Solar Farm

Map title:

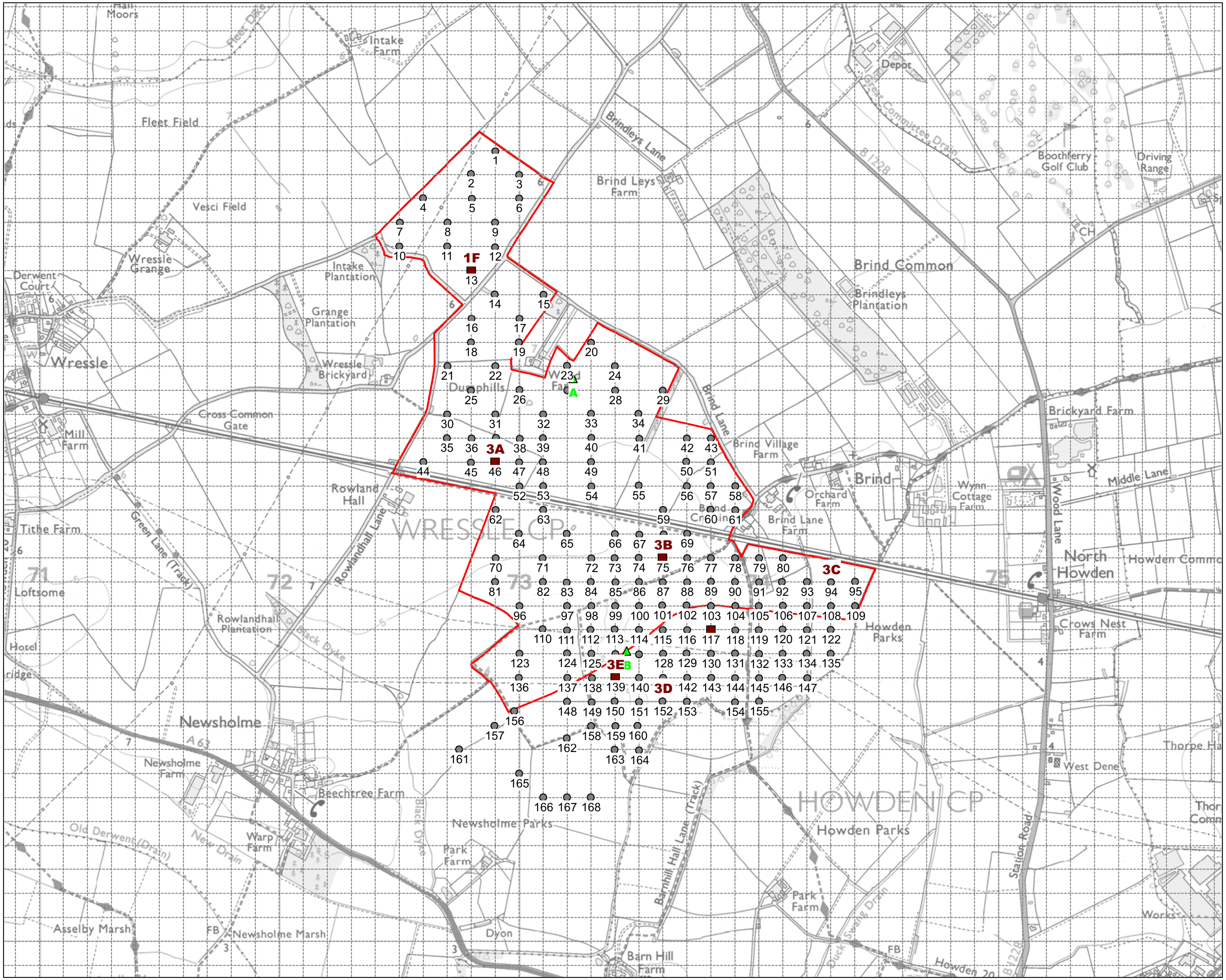
MAP 2A(i)) Observations

Land Research Associates

Lockington Hall
Lockington
Derby
DE74 2RH
www.lra.co.uk

Date: 10/10/2023

Scale: 1:15,000@A3



Fleet Field
Vesci Field
Wressle Grange
Intake Farm
Intake Plantation
Grange Plantation
Derwent Court
Wressle
Wressle Brickyard
Dunghills
Cross Common Gate
Mill Farm
Rowland Hall
Rowlandhall Lane
Tithe Farm
Green Lane (Track)
Loftsome
Rowlandhall Plantation
Black Dyke
Hotel
Newsholme
Newsholme Farm
Beechtree Farm
Newsholme Parks
Park Farm
Warp Farm
Old Derwent (Drain)
New Drain
Asselby Marsh
Newsholme Marsh
Dyon
Barn Hill Farm
WRESSLE CP
HOWDEN CP
Howden Parks
Barnhill Hall Lane (Track)
Brindleys Lane
Brind Leys Farm
Brind Common
Brindleys Plantation
Depot
Great Committee Drain
Boothferry Golf Club
Driving Range
Brind Lane
Brind Village Farm
Brind
Orchard Farm
Brind Lane Farm
Wynn Cottage Farm
Brickyard Farm
Middle Lane
Wood Lane
North Howden
Howden Common
Crows Nest Farm
Howden Parks
Thorpe Hall
West Dene
Station Road
Duck Swang Drain
Works
Howden
1F
3A
3B
3C
3D
3E
A
B

KEY

- Auger observations
- Pit investigations
- Climate interpolation point
- 3A Laboratory sample ID
- Site boundary

Site:

East Yorkshire Solar Farm

Map title:

MAP 3A Observations

Land Research Associates
Lockington Hall
Lockington
Derby
DE74 2RH
www.lra.co.uk

Date: 10/10/2023

Scale: 1:15,000@A3

KEY

- Grade 1
- Subgrade 3a
- Subgrade 3b
- Grade 4
- Site boundary

Site:

East Yorkshire Solar Farm

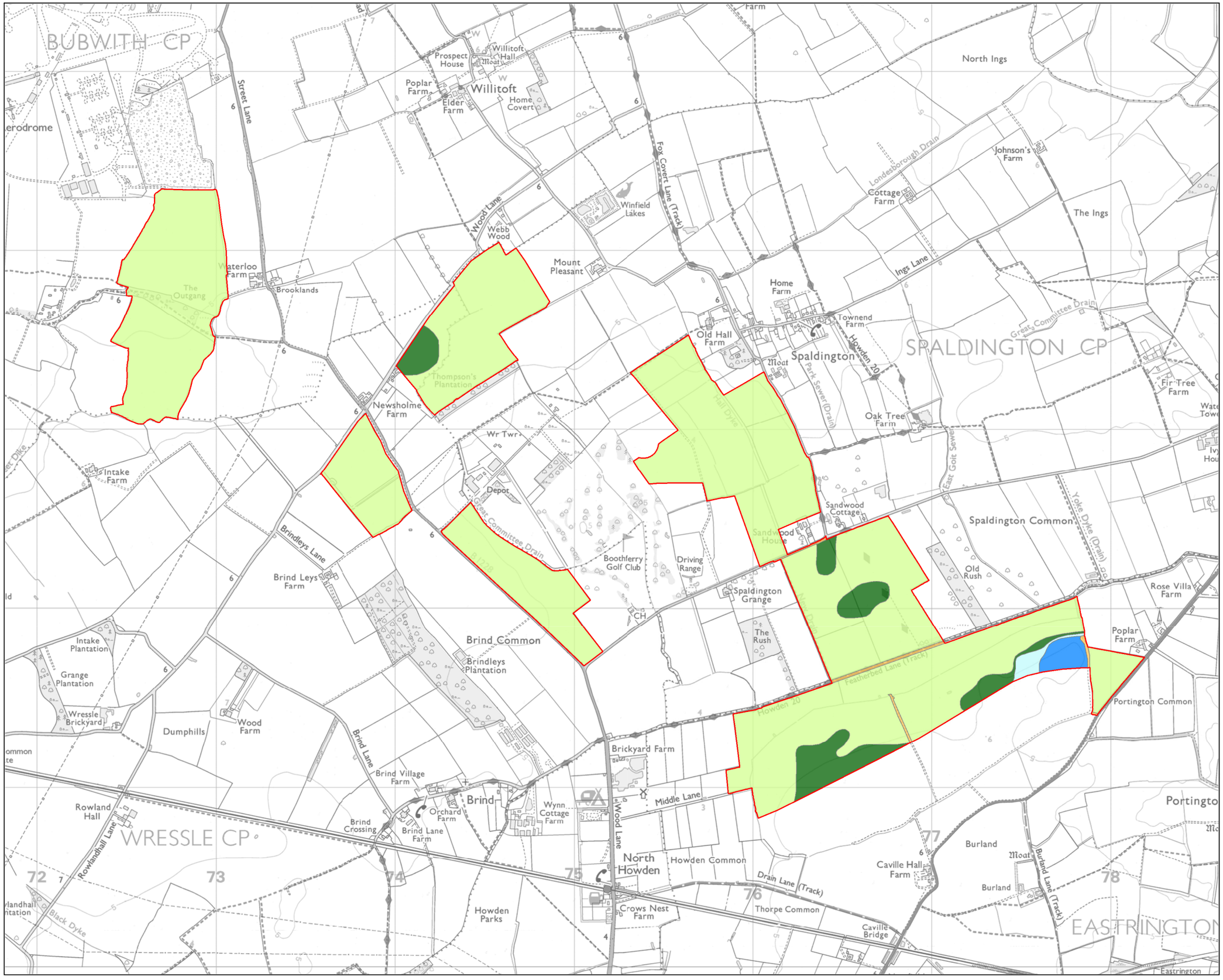
Map title:

MAP 1B
Agricultural Land Classification

Land Research Associates
Lockington Hall
Lockington
Derby
DE74 2RH
www.lra.co.uk

Date: 10/10/2023

Scale: 1:15,000@A3



KEY

- Grade 1
- Grade 2
- Subgrade 3a
- Subgrade 3b
- Other land
- Site boundary

Site:

East Yorkshire Solar Farm

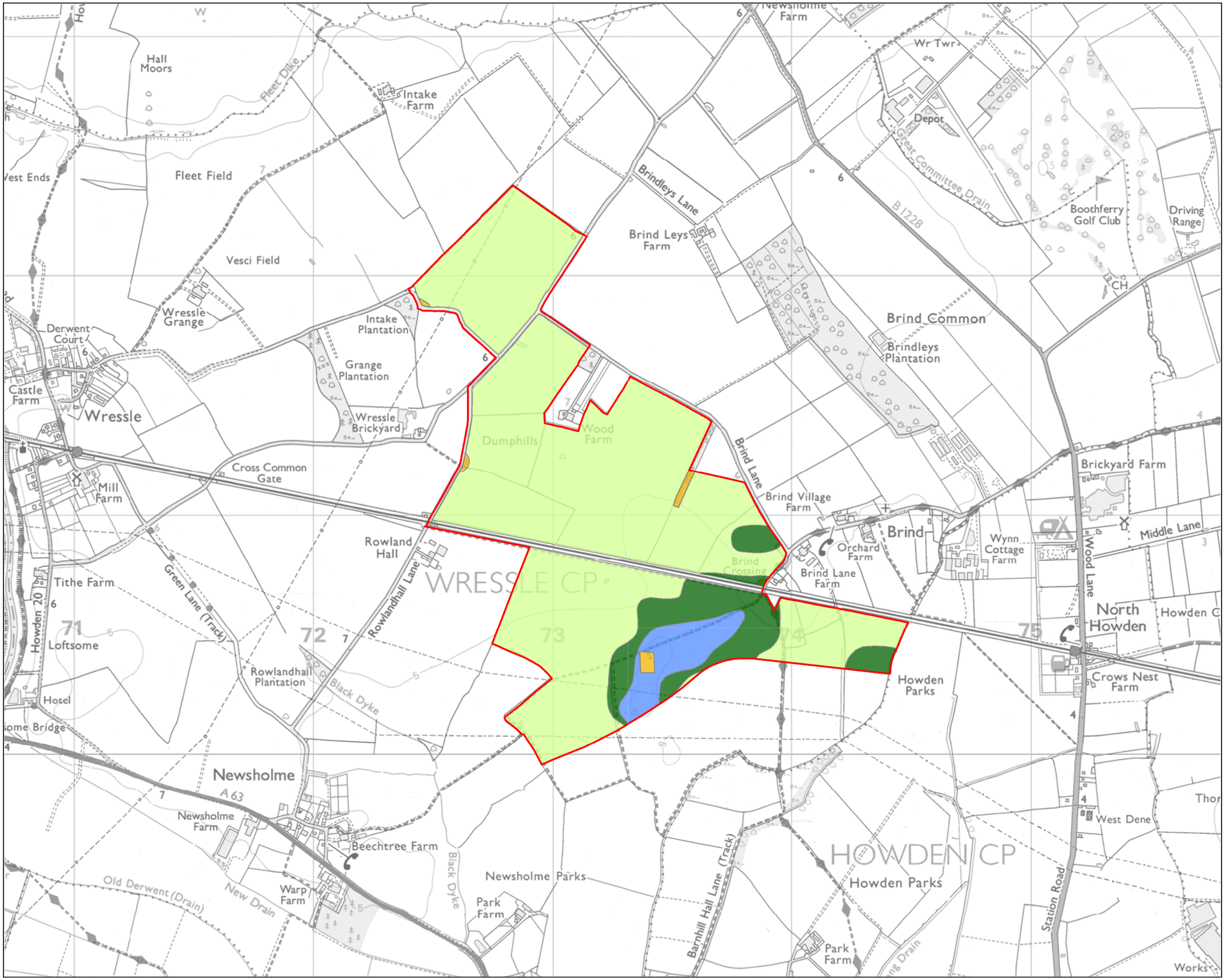
Map title:

MAP 2B
Agricultural Land Classification

Land Research ASSOCIATES
Lockington Hall
Lockington
Derby
DE74 2RH
www.lra.co.uk

Date: 10/10/2023

Scale: 1:20,000@A3



KEY

- Grade 1
- Subgrade 3a
- Subgrade 3b
- Other land
- Site boundary

Site:

East Yorkshire Solar Farm

Map title:

MAP 3B
Agricultural Land Classification

Land Research Associates
Lockington Hall
Lockington
Derby
DE74 2RH
www.lra.co.uk

Date: 10/10/2023

Scale: 1:15,000@A3

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 1A				
Grid Ref:	SE739361 (as alpha numeric e.g SK123456)				
	SE739361				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	6	8	4	4	7
AAR	590	636	591	615	**616**
LR_AAR	1.3	2.5	0.1	1.2	
AT0	1399	1396	1404	1403	**1399**
FCD	128	143	125	134	**134**
Easting*	700	750	700	750	
Northing*	400	400	350	350	
Md wheat	109	107	110	108	**108**
Md potatoes	102	99	102	100	**100**

SE7392,3609

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 1B				
Grid Ref:	SE750351 (as alpha numeric e.g SK123456)				
	SE750351				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	8	8	4	4	6
AAR	636	660	615	608	**617**
LR_AAR	2.5	2.2	1.2	2.2	
AT0	1396	1395	1403	1401	**1401**
FCD	143	152	134	136	**134**
Easting*	750	800	750	800	
Northing*	400	400	350	350	
Md wheat	107	106	108	110	**108**
Md potatoes	99	98	100	102	**100**

SE7500,3514

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 1C				
Grid Ref:	SE756353 (as alpha numeric e.g SK123456)				
	SE756353				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	8	8	4	4	6
AAR	636	660	615	608	**618**
LR_AAR	2.5	2.2	1.2	2.2	
AT0	1396	1395	1403	1401	**1401**
FCD	143	152	134	136	**135**
Easting*	750	800	750	800	
Northing*	400	400	350	350	
Md wheat	107	106	108	110	**108**
Md potatoes	99	98	100	102	**100**

SE7559,3525

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 1D				
Grid Ref:	SE761345	(as alpha numeric e.g SK123456)			
	SE761345				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	615	608	579	590	**612**
LR_AAR	1.2	2.2	0	0.9	
AT0	1403	1401	1405	1404	**1403**
FCD	134	136	125	129	**133**
Easting*	750	800	750	800	
Northing*	350	350	300	300	
Md wheat	108	110	110	111	**108**
Md potatoes	100	102	103	104	**100**

SE7608,3445

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 1E				
Grid Ref:	SE771343 (as alpha numeric e.g SK123456)				
	SE771343				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	615	608	579	590	**607**
LR_AAR	1.2	2.2	0	0.9	
AT0	1403	1401	1405	1404	**1403**
FCD	134	136	125	129	**133**
Easting*	750	800	750	800	
Northing*	350	350	300	300	
Md wheat	108	110	110	111	**109**
Md potatoes	100	102	103	104	**101**

SE7714,3430

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 1F				
Grid Ref:	SE778346	(as alpha numeric e.g SK123456)			
	SE778346				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	615	608	579	590	**606**
LR_AAR	1.2	2.2	0	0.9	
AT0	1403	1401	1405	1404	**1402**
FCD	134	136	125	129	**134**
Easting*	750	800	750	800	
Northing*	350	350	300	300	
Md wheat	108	110	110	111	**109**
Md potatoes	100	102	103	104	**102**

SE7776,3466

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 1G				
Grid Ref:	SE770356 (as alpha numeric e.g SK123456)				
	SE770356				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	8	8	4	4	6
AAR	636	660	615	608	**621**
LR_AAR	2.5	2.2	1.2	2.2	
AT0	1396	1395	1403	1401	**1400**
FCD	143	152	134	136	**137**
Easting*	750	800	750	800	
Northing*	400	400	350	350	
Md wheat	107	106	108	110	**108**
Md potatoes	99	98	100	102	**100**

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 2A				
Grid Ref:	SE728337 (as alpha numeric e.g SK123456)				
	SE728337				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	591	615	580	579	**598**
LR_AAR	0.1	1.2	0.6	0	
AT0	1404	1403	1406	1405	**1404**
FCD	125	134	123	125	**129**
Easting*	700	750	700	750	
Northing*	350	350	300	300	
Md wheat	110	108	110	110	**109**
Md potatoes	102	100	102	103	**101**

SE7275,3374

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 2B				
Grid Ref:	SE745336 (as alpha numeric e.g SK123456)				
	SE745336				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	591	615	580	579	**607**
LR_AAR	0.1	1.2	0.6	0	
AT0	1404	1403	1406	1405	**1403**
FCD	125	134	123	125	**132**
Easting*	700	750	700	750	
Northing*	350	350	300	300	
Md wheat	110	108	110	110	**109**
Md potatoes	102	100	102	103	**101**

SE7451,3361

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 2C				
Grid Ref:	SE745323 (as alpha numeric e.g SK123456)				
	SE745323				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	591	615	580	579	**593**
LR_AAR	0.1	1.2	0.6	0	
AT0	1404	1403	1406	1405	**1404**
FCD	125	134	123	125	**128**
Easting*	700	750	700	750	
Northing*	350	350	300	300	
Md wheat	110	108	110	110	**109**
Md potatoes	102	100	102	103	**102**

SE7445,3234

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 2D				
Grid Ref:	SE759329 (as alpha numeric e.g SK123456)				
	SE759329				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	615	608	579	590	**601**
LR_AAR	1.2	2.2	0	0.9	
AT0	1403	1401	1405	1404	**1403**
FCD	134	136	125	129	**131**
Easting*	750	800	750	800	
Northing*	350	350	300	300	
Md wheat	108	110	110	111	**109**
Md potatoes	100	102	103	104	**101**

SE7589,3294

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 2E				
Grid Ref:	SE766321 (as alpha numeric e.g SK123456)				
	SE766321				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	615	608	579	590	**595**
LR_AAR	1.2	2.2	0	0.9	
AT0	1403	1401	1405	1404	**1404**
FCD	134	136	125	129	**130**
Easting*	750	800	750	800	
Northing*	350	350	300	300	
Md wheat	108	110	110	111	**110**
Md potatoes	100	102	103	104	**102**

SE7661,3206

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 2F				
Grid Ref:	SE770313	(as alpha numeric e.g SK123456)			
	SE770313				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	615	608	579	590	**591**
LR_AAR	1.2	2.2	0	0.9	
AT0	1403	1401	1405	1404	**1404**
FCD	134	136	125	129	**129**
Easting*	750	800	750	800	
Northing*	350	350	300	300	
Md wheat	108	110	110	111	**110**
Md potatoes	100	102	103	104	**103**

SE7704,3130

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 3A				
Grid Ref:	SE732314 (as alpha numeric e.g SK123456)				
	SE732314				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	591	615	580	579	**586**
LR_AAR	0.1	1.2	0.6	0	
AT0	1404	1403	1406	1405	**1405**
FCD	125	134	123	125	**126**
Easting*	700	750	700	750	
Northing*	350	350	300	300	
Md wheat	110	108	110	110	**110**
Md potatoes	102	100	102	103	**102**

SE7322,3135

Interpolation of AAR, AT0 , FCD and MD from MAFF data

Enter data into white cells

Site	E Yorks 3B				
Grid Ref:	SE735302 (as alpha numeric e.g SK123456)				
	SE735302				
	Gridpoint A SE	Gridpoint B SE	Gridpoint C SE	Gridpoint D SE	This site
Elevation	4	4	4	4	4
AAR	591	615	580	579	**582**
LR_AAR	0.1	1.2	0.6	0	
AT0	1404	1403	1406	1405	**1405**
FCD	125	134	123	125	**125**
Easting*	700	750	700	750	
Northing*	350	350	300	300	
Md wheat	110	108	110	110	**110**
Md potatoes	102	100	102	103	**103**

SE7345,3021

ANALYTICAL REPORT

Report Number	**46364-22**	**H579**	**MR MIKE PALMER**
Date Received	**24-NOV-2022**		**LAND RESEARCH ASSOCIATES**
Date Reported	**06-DEC-2022**		**LOCKINGTON HALL**
Project	**SOIL**		**LOCKINGTON**
Reference	**EAST YORKSHIRE**		**DERBY**
Order Number			**DE74 2RH**

Laboratory Reference		**SOIL594801**	**SOIL594802**	**SOIL594803**	**SOIL594804**	**SOIL594805**	**SOIL594806**	**SOIL594807**			
Sample Reference		**1A**	**1B**	**1C**	**1D**	**1E**	**2A**	**3A**			
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**			
Sand 2.00-0.063mm	% w/w	19	57	27	37	10	66	36			
Silt 0.063-0.002mm	% w/w	29	22	24	25	40	14	28			
Clay <0.002mm	% w/w	52	21	49	38	50	20	36			
Textural Class **		C	SCL	C	C	C	SCL	C			

Notes

Analysis Notes

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

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

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

Reported by

Linaben Patel

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

Cawood
Supporting a safer, healthier planet
www.cawood.co.uk

ANALYTICAL REPORT

Report Number	**50664-23**	**H579**	**MR MIKE PALMER**
Date Received	**04-JAN-2023**		**LAND RESEARCH ASSOCIATES**
Date Reported	**11-JAN-2023**		**LOCKINGTON HALL**
Project	**SOIL**		**LOCKINGTON**
Reference	**E YORKS**		**DERBY**
Order Number			**DE74 2RH**

Laboratory Reference		**SOIL601267**	**SOIL601268**	**SOIL601269**	**SOIL601270**	**SOIL601271**					
Sample Reference		**1F**	**1G**	**1H**	**1I**	**1J**					
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**					
Sand 2.00-0.063mm	% w/w	18	44	59	25	20					
Silt 0.063-0.002mm	% w/w	39	27	22	36	44					
Clay <0.002mm	% w/w	43	29	19	39	36					
Textural Class **		C	HCL	SCL	C	C					

Notes

Analysis Notes

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

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

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

Reported by

Myles Nicholson

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

Supporting a safer, healthier planet
www.cawood.co.uk

ANALYTICAL REPORT

Report Number	**49905-22**	**H579**	**MR MIKE PALMER**
Date Received	**19-DEC-2022**		**LAND RESEARCH ASSOCIATES**
Date Reported	**03-JAN-2023**		**LOCKINGTON HALL**
Project	**SOIL**		**LOCKINGTON**
Reference	**MR MIKE PALMER**		**DERBY**
Order Number			**DE74 2RH**

Laboratory Reference		**SOIL600416**	**SOIL600417**
Sample Reference		**2BB 2 TOPSOIL**	**2BB 9 TOPSOIL**
Determinand	**Unit**	**SOIL**	**SOIL**
Sand 2.00-0.063mm	% w/w	47	27
Silt 0.063-0.002mm	% w/w	28	42
Clay <0.002mm	% w/w	25	31
Textural Class **		MCL	HCL

Notes

Analysis Notes

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

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

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

Reported by

Myles Nicholson

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

Supporting a safer, healthier planet
www.cawood.co.uk

ANALYTICAL REPORT

Report Number	**48549-22**	**H579**	**MR MIKE PALMER**
Date Received	**08-DEC-2022**		**LAND RESEARCH ASSOCIATES**
Date Reported	**05-JAN-2023**		**LOCKINGTON HALL**
Project	**SOIL**		**LOCKINGTON**
Reference	**MR MIKE PALMER**		**DERBY**
Order Number			**DE74 2RH**

Laboratory Reference		**SOIL598223**	**SOIL598224**	**SOIL598225**	**SOIL598226**	**SOIL598227**	**SOIL598228**				
Sample Reference		**ZB 6 TOPSOIL**	**ZB 31 TOPSOIL**	**ZB 44 TOPSOIL**	**ZB 48A TOP SOIL**	**ZE 4 TOPSOIL**	**ZE 8 TOPSOIL**				
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**	**SOIL**				
Sand 2.00-0.063mm	% w/w	57	63	23	29	25	58				
Silt 0.063-0.002mm	% w/w	23	18	20	30	33	21				
Clay <0.002mm	% w/w	20	19	57	41	42	21				
Textural Class **		SCL	SCL	C	C	C	SCL				

Notes

Analysis Notes

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

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

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

Reported by

Myles Nicholson

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

Supporting a safer, healthier planet
www.cawood.co.uk

ANALYTICAL REPORT

Report Number	**52496-23**	**H579**	**MR MIKE PALMER**	**Client**	**MR MIKE PALMER**
Date Received	**16-JAN-2023**		**LAND RESEARCH ASSOCIATES**		
Date Reported	**23-JAN-2023**		**LOCKINGTON HALL**		
Project	**SOIL LATE REQUEST**		**LOCKINGTON**		
Reference	**MR MIKE PALMER**		**DERBY**		
Order Number			**DE74 2RH**		

Laboratory Reference		**SOIL603797**
Sample Reference		**ZB 34 TOPSOIL**
Determinand	**Unit**	**SOIL**
Sand 2.00-0.063mm	% w/w	66
Silt 0.063-0.002mm	% w/w	14
Clay <0.002mm	% w/w	20
Textural Class **		SCL

Notes

Analysis Notes

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

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

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

Reported by

Linaben Patel

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

Supporting a safer, healthier planet
www.cawood.co.uk

ANALYTICAL REPORT

Report Number	**50190-22**	**H579**	**MR MIKE PALMER**
Date Received	**20-DEC-2022**		**LAND RESEARCH ASSOCIATES**
Date Reported	**03-JAN-2023**		**LOCKINGTON HALL**
Project	**SOIL**		**LOCKINGTON**
Reference	**EAST YORKS**		**DERBY**
Order Number			**DE74 2RH**

Laboratory Reference		**SOIL600743**	**SOIL600744**	**SOIL600745**							
Sample Reference		**3B**	**3C**	**3D**							
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**							
Sand 2.00-0.063mm	% w/w	48	25	58							
Silt 0.063-0.002mm	% w/w	25	39	23							
Clay <0.002mm	% w/w	27	36	19							
Textural Class **		HCL	C	SCL							

Notes

Analysis Notes

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

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

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

Reported by

Myles Nicholson

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

Supporting a safer, healthier planet
www.cawood.co.uk

ANALYTICAL REPORT

Report Number	**50192-22**	**H579**	**MR MIKE PALMER**
Date Received	**20-DEC-2022**		**LAND RESEARCH ASSOCIATES**
Date Reported	**16-JAN-2023**		**LOCKINGTON HALL**
Project	**SOIL**		**LOCKINGTON**
Reference	**EAST YORKS**		**DERBY**
Order Number			**DE74 2RH**

Laboratory Reference		**SOIL600747**
Sample Reference		**3E**
Determinand	**Unit**	**SOIL**
Very Coarse Sand 1.0 - 2.0mm	% w/w	3
Sand 2.00-0.063mm	% w/w	80
Coarse Sand 0.5 - 1.0mm	% w/w	1
Medium Sand 0.25 - 0.50mm	% w/w	7
Fine Sand 0.15 - 0.25mm	% w/w	31
Very Fine Sand 0.05 - 0.15mm	% w/w	38
Silt 0.063-0.002mm	% w/w	9
Silt 0.002 - 0.05mm	% w/w	9
Clay <0.002mm	% w/w	11
Textural Class [UK] **		SL

Notes

Analysis Notes

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

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

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

Reported by

Joe Cherrie

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

Cawood
Supporting a safer, healthier planet
www.cawood.co.uk

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.

ANALYTICAL REPORT

Report Number	**90191-23**	**H579**	**MR MIKE PALMER**
Date Received	**13-SEP-2023**		**LAND RESEARCH ASSOCIATES**
Date Reported	**03-OCT-2023**		**TAPTON PARK INNOVATION**
Project	**SOIL**		**CENTRE**
Reference	**EAST YORKS**		**BRIMINGTON ROAD**
Order Number			**CHESTERFIELD S41 0TZ**

Laboratory Reference		**SOIL650403**	**SOIL650404**
Sample Reference		**IK**	**IL**
Determinand	**Unit**	**SOIL**	**SOIL**
Sand 2.00-0.063mm	% w/w	25	61
Silt 0.063-0.002mm	% w/w	26	19
Clay <0.002mm	% w/w	49	20
Textural Class **		C	SCL

Notes

Analysis Notes

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

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

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

Reported by

Teresa Clyne

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

Cawood
Supporting a safer, healthier planet
www.cawood.co.uk

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.

ANALYTICAL REPORT

Report Number	**91062-23**	**H579**	**MR MIKE PALMER**
Date Received	**18-SEP-2023**		**LAND RESEARCH ASSOCIATES**
Date Reported	**04-OCT-2023**		**TAPTON PARK INNOVATION**
Project	**SOIL**		**CENTRE**
Reference	**EAST YORKS**		**BRIMINGTON ROAD**
Order Number			**CHESTERFIELD S41 0TZ**

Laboratory Reference		**SOIL651699**	**SOIL651700**	**SOIL651701**							
Sample Reference		**1M**	**2B**	**3F**							
Determinand	**Unit**	**SOIL**	**SOIL**	**SOIL**							
Sand 2.00-0.063mm	% w/w	36	67	21							
Silt 0.063-0.002mm	% w/w	32	14	36							
Clay <0.002mm	% w/w	32	19	43							

Notes

Analysis Notes

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

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.

Reported by

Gabrielle Parkes

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

Supporting a safer, healthier planet
www.cawood.co.uk

SITE:	E Yorks B1
Location:	10

Layer	*Lower depth* (cm)	*Texture symbol* (or stop)	*Structure* (Good, Moderate or Poor)	*% stones*	*Stone type* (see table)
Topsoil	30	mcl	g	0	1
Subsoil 1	51	mszl	g	0	1
Subsoil 2	120	mszl	p	0	1
Subsoil 3	120	stop			

(Lowest horizon depth must be 120 and topsoil cannot be greater than 70 cm (potatoes) or 50 cm (wheat))

DATA USED FROM MASTER TABLE

	Fine earth	*Stones*
Topsoil Av	18	1
Subsoil 1 TAv	19	1
Subsoil 1 EAv	13	0.5
Subsoil 2 TAv	19	1
Subsoil 2 EAv	13	0.5
Subsoil 3 TAv	0.1	1
Subsoil 3 EAv	0.1	0.5
	(ERR = no data)	

Stone codes	
0	No stones
1	Hard rocks or stones
2	Soft, medium or coarse grained sdst
3	Soft weathered ign or metamorph
4	Soft oolitic or dolomitic limestones
5	Soft fine-grained sandstone
6	Soft argillaceous or silty
7	Chalk
8	Gravel with non-porous stones
9	Gravel with porous stones

PROFILE CALCULATIONS

	Ap potatoes	*Ap wheat*
Topsoil	540.0	540.0
Subsoil 1	0.0	0.0
Subsoil 1	399.0	393.0
Subsoil 2	361.0	0.0
Subsoil 2	0.0	897.0
Subsoil 3	0.0	0.0
TOTAL AP (mm)	130	183
MD (mm)	100	108
AP-MD (mm)	30	75

AGRICULTURAL LAND GRADE

Class	*Potatoes*	*Wheat*
1	*	*
2		
3a		
3b		
4		

SITE:	E Yorks B1
Location:	12

Layer	*Lower depth* (cm)	*Texture symbol* (or stop)	*Structure* (Good, Moderate or Poor)	*% stones*	*Stone type* (see table)
Topsoil	36	scl	m	0	1
Subsoil 1	50	scl	m	0	1
Subsoil 2	120	c	p	0	1
Subsoil 3	120	stop	p	0	1

(Lowest horizon depth must be 120 and topsoil cannot be greater than 70 cm (potatoes) or 50 cm (wheat))

DATA USED FROM MASTER TABLE

	Fine earth	*Stones*
Topsoil Av	17	1
Subsoil 1 TAv	15	1
Subsoil 1 EAv	10	0.5
Subsoil 2 TAv	13	1
Subsoil 2 EAv	7	0.5
Subsoil 3 TAv	0.1	1
Subsoil 3 EAv	0.1	0.5
	(ERR = no data)	

Stone codes	
0	No stones
1	Hard rocks or stones
2	Soft, medium or coarse grained sdst
3	Soft weathered ign or metamorph
4	Soft oolitic or dolomitic limestones
5	Soft fine-grained sandstone
6	Soft argillaceous or silty
7	Chalk
8	Gravel with non-porous stones
9	Gravel with porous stones

PROFILE CALCULATIONS

	Ap potatoes	*Ap wheat*
Topsoil	612.0	612.0
Subsoil 1	0.0	210.0
Subsoil 1	210.0	0.0
Subsoil 2	260.0	0.0
Subsoil 2	0.0	490.0
Subsoil 3	0.0	0.0
TOTAL AP (mm)	108	131
MD (mm)	100	108
AP-MD (mm)	8	23

AGRICULTURAL LAND GRADE

Class	*Potatoes*	*Wheat*
1		
2	*	*
3a		
3b		
4		

SITE:	E Yorks B1
Location:	29

Layer	*Lower depth* (cm)	*Texture symbol* (or stop)	*Structure* (Good, Moderate or Poor)	*% stones*	*Stone type* (see table)
Topsoil	26	msl		0	1
Subsoil 1	72	msl	g	0	1
Subsoil 2	120	scl	m	0	1
Subsoil 3	120	stop	m	0	1

(Lowest horizon depth must be 120 and topsoil cannot be greater than 70 cm (potatoes) or 50 cm (wheat))

DATA USED FROM MASTER TABLE

	Fine earth	*Stones*
Topsoil Av	17	1
Subsoil 1 TAv	17	1
Subsoil 1 EAv	13	0.5
Subsoil 2 TAv	15	1
Subsoil 2 EAv	10	0.5
Subsoil 3 TAv	0.1	1
Subsoil 3 EAv	0.1	0.5
	(ERR = no data)	

Stone codes	
0	No stones
1	Hard rocks or stones
2	Soft, medium or coarse grained sdst
3	Soft weathered ign or metamorph
4	Soft oolitic or dolomitic limestones
5	Soft fine-grained sandstone
6	Soft argillaceous or silty
7	Chalk
8	Gravel with non-porous stones
9	Gravel with porous stones

PROFILE CALCULATIONS

	Ap potatoes	*Ap wheat*
Topsoil	442.0	442.0
Subsoil 1	748.0	0.0
Subsoil 1	0.0	694.0
Subsoil 2	0.0	0.0
Subsoil 2	0.0	480.0
Subsoil 3	0.0	0.0
TOTAL AP (mm)	119	162
MD (mm)	100	108
AP-MD (mm)	19	54

AGRICULTURAL LAND GRADE

Class	*Potatoes*	*Wheat*
1	*	*
2		
3a		
3b		
4		

SITE: E Yorks B1
Location: 320

Layer	*Lower depth* (cm)	*Texture symbol* (or stop)	*Structure* (Good, Moderate or Poor)	*% stones*	*Stone type* (see table)
Topsoil	31	MSL		0	1
Subsoil 1	120	LMS	m	0	1
Subsoil 2	120	stop	m	0	1
Subsoil 3	120	stop	p	0	1

(Lowest horizon depth must be 120 and topsoil cannot be greater than 70 cm (potatoes) or 50 cm (wheat))

DATA USED FROM MASTER TABLE

	Fine earth	*Stones*
Topsoil Av	17	1
Subsoil 1 TAv	9	1
Subsoil 1 EAv	6	0.5
Subsoil 2 TAv	0.1	1
Subsoil 2 EAv	0.1	0.5
Subsoil 3 TAv	0.1	1
Subsoil 3 EAv	0.1	0.5
	(ERR = no data)	

Stone codes	
0	No stones
1	Hard rocks or stones
2	Soft, medium or coarse grained sdst
3	Soft weathered ign or metamorph
4	Soft oolitic or dolomitic limestones
5	Soft fine-grained sandstone
6	Soft argillaceous or silty
7	Chalk
8	Gravel with non-porous stones
9	Gravel with porous stones

PROFILE CALCULATIONS

	Ap potatoes	*Ap wheat*
Topsoil	527.0	527.0
Subsoil 1	351.0	591.0
Subsoil 1	0.0	0.0
Subsoil 2	0.0	0.0
Subsoil 2	0.0	0.0
Subsoil 3	0.0	0.0
TOTAL AP (mm)	88	112
MD (mm)	100	108
AP-MD (mm)	-12	4

AGRICULTURAL LAND GRADE

Class	*Potatoes*	*Wheat*
1		
2		
3a	*	*
3b		
4		

SITE: E Yorks B2
Location: 205

Layer	*Lower depth* (cm)	*Texture symbol* (or stop)	*Structure* (Good, Moderate or Poor)	*% stones*	*Stone type* (see table)
Topsoil	32	SCL	m	0	1
Subsoil 1	46	SCL	m	0	1
Subsoil 2	120	SCL	p	0	1
Subsoil 3	120	C		0	1

(Lowest horizon depth must be 120 and topsoil cannot be greater than 70 cm (potatoes) or 50 cm (wheat))

DATA USED FROM MASTER TABLE

	Fine earth	*Stones*
Topsoil Av	17	1
Subsoil 1 TAv	15	1
Subsoil 1 EAv	10	0.5
Subsoil 2 TAv	15	1
Subsoil 2 EAv	10	0.5
Subsoil 3 TAv	13	1
Subsoil 3 EAv	7	0.5
	(ERR = no data)	

Stone codes	
0	No stones
1	Hard rocks or stones
2	Soft, medium or coarse grained sdst
3	Soft weathered ign or metamorph
4	Soft oolitic or dolomitic limestones
5	Soft fine-grained sandstone
6	Soft argillaceous or silty
7	Chalk
8	Gravel with non-porous stones
9	Gravel with porous stones

PROFILE CALCULATIONS

	Ap potatoes	*Ap wheat*
Topsoil	544.0	544.0
Subsoil 1	0.0	210.0
Subsoil 1	210.0	0.0
Subsoil 2	360.0	0.0
Subsoil 2	0.0	740.0
Subsoil 3	0.0	0.0
TOTAL AP (mm)	111	149
MD (mm)	103	110
AP-MD (mm)	8	39

AGRICULTURAL LAND GRADE

Class	*Potatoes*	*Wheat*
1		*
2	*	
3a		
3b		
4		

SITE: E Yorks B3
Location: 122

Layer	*Lower depth* (cm)	*Texture symbol* (or stop)	*Structure* (Good, Moderate or Poor)	*% stones*	*Stone type* (see table)
Topsoil	29	MSZL	m	0	1
Subsoil 1	67	SCL	m	0	1
Subsoil 2	120	CL	p	0	1
Subsoil 3	120	stop	g	0	1

(Lowest horizon depth must be 120 and topsoil cannot be greater than 70 cm (potatoes) or 50 cm (wheat))

DATA USED FROM MASTER TABLE

	Fine earth	*Stones*
Topsoil Av	19	1
Subsoil 1 TAv	15	1
Subsoil 1 EAv	10	0.5
Subsoil 2 TAv	12	1
Subsoil 2 EAv	7	0.5
Subsoil 3 TAv	0.1	1
Subsoil 3 EAv	0.1	0.5
	(ERR = no data)	

Stone codes	
0	No stones
1	Hard rocks or stones
2	Soft, medium or coarse grained sdst
3	Soft weathered ign or metamorph
4	Soft oolitic or dolomitic limestones
5	Soft fine-grained sandstone
6	Soft argillaceous or silty
7	Chalk
8	Gravel with non-porous stones
9	Gravel with porous stones

PROFILE CALCULATIONS

	Ap potatoes	*Ap wheat*
Topsoil	551.0	551.0
Subsoil 1	0.0	0.0
Subsoil 1	570.0	485.0
Subsoil 2	36.0	0.0
Subsoil 2	0.0	371.0
Subsoil 3	0.0	0.0
TOTAL AP (mm)	116	141
MD (mm)	102	110
AP-MD (mm)	14	31

AGRICULTURAL LAND GRADE

Class	*Potatoes*	*Wheat*
1	*	*
2		
3a		
3b		
4		

SITE: E Yorks B3
Location: 125

Layer	*Lower depth* (cm)	*Texture symbol* (or stop)	*Structure* (Good, Moderate or Poor)	*% stones*	*Stone type* (see table)
Topsoil	22	FSL	g	0	1
Subsoil 1	72	FSL	p	0	1
Subsoil 2	120	C	p	0	1
Subsoil 3	120	STOP	p	0	1

(Lowest horizon depth must be 120 and topsoil cannot be greater than 70 cm (potatoes) or 50 cm (wheat))

DATA USED FROM MASTER TABLE

	Fine earth	*Stones*
Topsoil Av	18	1
Subsoil 1 TAv	22	1
Subsoil 1 EAv	17	0.5
Subsoil 2 TAv	13	1
Subsoil 2 EAv	7	0.5
Subsoil 3 TAv	0.1	1
Subsoil 3 EAv	0.1	0.5
	(ERR = no data)	

Stone codes	
0	No stones
1	Hard rocks or stones
2	Soft, medium or coarse grained sdst
3	Soft weathered ign or metamorph
4	Soft oolitic or dolomitic limestones
5	Soft fine-grained sandstone
6	Soft argillaceous or silty
7	Chalk
8	Gravel with non-porous stones
9	Gravel with porous stones

PROFILE CALCULATIONS

	Ap potatoes	*Ap wheat*
Topsoil	396.0	396.0
Subsoil 1	1056.0	0.0
Subsoil 1	0.0	990.0
Subsoil 2	0.0	0.0
Subsoil 2	0.0	336.0
Subsoil 3	0.0	0.0
TOTAL AP (mm)	145	172
MD (mm)	102	110
AP-MD (mm)	43	62

AGRICULTURAL LAND GRADE

Class	*Potatoes*	*Wheat*
1	*	*
2		
3a		
3b		
4		

SITE: E Yorks B3
Location: 139

Layer	*Lower depth* (cm)	*Texture symbol* (or stop)	*Structure* (Good, Moderate or Poor)	*% stones*	*Stone type* (see table)
Topsoil	29	FSL		0	1
Subsoil 1	67	FSL	g	0	1
Subsoil 2	120	SCL	m	0	1
Subsoil 3	120	stop	g	0	1

(Lowest horizon depth must be 120 and topsoil cannot be greater than 70 cm (potatoes) or 50 cm (wheat))

DATA USED FROM MASTER TABLE

	Fine earth	*Stones*
Topsoil Av	18	1
Subsoil 1 TAv	22	1
Subsoil 1 EAv	17	0.5
Subsoil 2 TAv	15	1
Subsoil 2 EAv	10	0.5
Subsoil 3 TAv	0.1	1
Subsoil 3 EAv	0.1	0.5
	(ERR = no data)	

Stone codes	
0	No stones
1	Hard rocks or stones
2	Soft, medium or coarse grained sdst
3	Soft weathered ign or metamorph
4	Soft oolitic or dolomitic limestones
5	Soft fine-grained sandstone
6	Soft argillaceous or silty
7	Chalk
8	Gravel with non-porous stones
9	Gravel with porous stones

PROFILE CALCULATIONS

	Ap potatoes	*Ap wheat*
Topsoil	522.0	522.0
Subsoil 1	0.0	0.0
Subsoil 1	836.0	751.0
Subsoil 2	45.0	0.0
Subsoil 2	0.0	530.0
Subsoil 3	0.0	0.0
TOTAL AP (mm)	140	180
MD (mm)	102	110
AP-MD (mm)	38	70

AGRICULTURAL LAND GRADE

Class	*Potatoes*	*Wheat*
1	*	*
2		
3a		
3b		
4		

SITE: E Yorks B3
Location: 151

Layer	*Lower depth* (cm)	*Texture symbol* (or stop)	*Structure* (Good, Moderate or Poor)	*% stones*	*Stone type* (see table)
Topsoil	31	LMS		0	1
Subsoil 1	72	LMS	m	0	1
Subsoil 2	120	LMS	m	0	1
Subsoil 3	120	STOP	m	0	1

(Lowest horizon depth must be 120 and topsoil cannot be greater than 70 cm (potatoes) or 50 cm (wheat))

DATA USED FROM MASTER TABLE

	Fine earth	*Stones*
Topsoil Av	13	1
Subsoil 1 TAv	9	1
Subsoil 1 EAv	6	0.5
Subsoil 2 TAv	9	1
Subsoil 2 EAv	6	0.5
Subsoil 3 TAv	0.1	1
Subsoil 3 EAv	0.1	0.5
	(ERR = no data)	

Stone codes	
0	No stones
1	Hard rocks or stones
2	Soft, medium or coarse grained sdst
3	Soft weathered ign or metamorph
4	Soft oolitic or dolomitic limestones
5	Soft fine-grained sandstone
6	Soft argillaceous or silty
7	Chalk
8	Gravel with non-porous stones
9	Gravel with porous stones

PROFILE CALCULATIONS

	Ap potatoes	*Ap wheat*
Topsoil	403.0	403.0
Subsoil 1	351.0	0.0
Subsoil 1	0.0	303.0
Subsoil 2	0.0	0.0
Subsoil 2	0.0	288.0
Subsoil 3	0.0	0.0
TOTAL AP (mm)	75	99
MD (mm)	102	110
AP-MD (mm)	-27	-11

AGRICULTURAL LAND GRADE

Class	*Potatoes*	*Wheat*
1		
2		
3a	*	*
3b		
4		