

ASTON CLINTON BY-PASS  
 SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
1.	Upper slopes, stubble	0-25 HZCL, 2-5 Y 5/2 greyish brown, very chalky, 1-2% 2-6 cm stones (mainly chalk) and 5-10 % 2 cm stones (mainly chalk)  25-50 Soft dirty chalk.  50-100+ Harder, whiter chalk.  Drought	3b
2.	Upper slopes, stubble	0-25 HZCL, 2-5 Y 4/2 dark greyish brown. Many small chalky fragments. Even covering of chalk and flints on surface.  25-70+ Soft dirty chalk. Profile becomes wetter 60 cm and harder 70 cm.  Drought	3b
3.	Gentle falls from Nos 1 and 2, stubble	0-28 m/HZCL, 2-5 Y 4/2. Many small chalk stones and occasional flints (4-6 cm)  28-50 Soft dirty chalk (moist and soft at 50 cm)  50-70 Harder chalk.  70+ Hard chalk.  Drought	3b
4.	Very slight slope, stubble	0-30 MZCL, 2-5 Y 5/2. Stone content on surface as Nos 1-3.  30-70 Soft dirty chalk. Moist at 60 cm. Hard to auger at 40 cm.	

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5.	Gentle falls, stubble	70+ Hard white chalk. Drought Stone content at surface: > 2 cm 5% chalk stones. < 2 cm 15% chalk stones. 0-25 MZCL, 2.5 Y 5/2. 25-60 Soft dirty/gritty chalk. 60-70 White, soft moist chalk. 70+ Hard chalk.	3b
6.	Bottom of slight slope, stubble	Drought 0-25 HZCL, 10 YR 5/3 brown. 25-50 HCL 10 YR 6/4 light yellowish brown, chalky fragments 50-70 Dirty chalk (mix of chalk and subsoil) 70+ Chalk, hard at 70 cm. Possible roots to 60-70 cm.	3b
7.	Slightly lower slopes, stubble (sub-soiled)	Drought 0-35 MZCL, 10 YR 4/2 dark greyish brown. Calcar Calcareous. Small chalk fragments as No 4. 35-55 M/HZCL, 10 YR 6/4. Calcareous. Small chalk fragments (15%) 55-65 Dirty chalk - hard. 65+ Hard chalk, impenetrable.	3a/2     3a/2

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8.	Upper slopes, stubble	0-30 MZCL, 10 YR 5/2 greyish brown. Few chalk fragments. 30-65 Soft, dirty, gritty chalk. Dry. 65+ Hard white chalk. Drought	3b
9.	Upper slopes, barley. Subsoiled	0-36 MZCL, 10 YR 5/2. Stone content as No 4. Many small ( 1 cm) chalk fragments. 36-40 Soft, moist dirty chalk. 40-50 White, soft, gritty chalk. 50+ Hard chalk. Drought	3a
10.	Level, cereal (barley)	0-24 HZCL, 10 YR 4/2. Very slightly stony - (chalk) 24-40 HZCL, 10 YR 6/3 pale brown. Large % of chalk fragments. 40-60 HZCL, 10 YR 6/3. Very chalky. 60-70 Hard, dirty chalk. 70+ Hard, white chalk. Drought	2

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11.	Land, cereal	0-25 MZCL, 10 YR 4/2. Occasional flints and small chalk stones.  25-38 m/HZCL, 10 YR 6/3. Common chalky fragments.  38-50 Fairly hard, dry, dirty chalk.  50+ Hard white chalk.  Drought	3a
12.	Level, cereal	0-20 MZCL, 10 YR 5/3.  20-30 MZCL, 10 YR 5/3, chalk and topsoil mix - c 15% chalk  30-50 Hard, dry, dirty chalk.  50-60 Moist, gritty, white chalk.  60-80 Moist, hard chalk.  80+ Moist, hard chalk.  Drought	3a
13.	Gentle rise from No 12, cereal (barley)	0-24 MZCL, 10 YR 5/3. Calcareous. Small chalk fragments.  24-28 MZCL, 10 YR 6/3. Calcareous chalky.  28-70 Dirty, gritty chalk with some hard chalk stones. Moist and harder at 50 cm.  70+ Hard and gritty chalk.  Drought	3b

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14.	Slight slope, cereal	0-25 MZCL, 10 YR 5/3. Very slightly stony. 25-28 MZCL, 10 YR 6/3. Chalky. 28-50 Soft, dirty chalk. 50-60 Moist, white chalk. 60+ Hard, white chalk. Drought	3b
15.	Gentle falls to small valley, stubble (subsoiled)	0-27 MZCL, 10 YR 5/2. Stone content as No 4. Occasional flints, mainly chalk stones. 27-48 Dirty, white chalk; gritty with hard pieces of chalk. 48-60+ Dry hard chalk. Drought	3b
16.	Bottom of slight dip, stubble	0-25 HZCL 10 YR 4/2. 25-75 HCL, 10 YR 5/4 yellowish brown. Chalk fragments. Becoming lighter and more chalky with depth. 75-100 Dirty chalk, reasonably soft. 100+ White chalk. Drought	3a/2

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17.	Very gentle fall, barley	0-35 MZCL, 2.5 Y 5/2. Small chalky fragments (5%). Slightly calcareous. 35-85 MZCL, 10 YR 5/3. Small chalky fragments (20%) increasing to 30% at 60 cm. Calcareous. 85-110+ MZCL 10 YR 4/3 dark brown. Small chalky fragments (30%). Calcareous. Wetness Class I.	1
18.	Slight rise, slopes falling east (6.5 <sup>0</sup> )	0-35 MZCL, 2.5 Y 5/2. Slightly calcareous. 10% small chalky fragments. 40-50% surface stones. 35-40 White, soft chalk with 50% hard broken chalk. 40+ Impenetrable chalk.	3a
19.	Gentle slope north	0-35 MZCL, 2.5 Y 5/2. 25% small calcareous fragments. Slightly calcareous. 35-40 White hard and soft chalk. 40+ Impenetrable chalk.	3b
20.	Downslope facing south	0-30 MZCL, 2.5Y 5/2. 7% small chalky fragments. Slightly calcareous. 30-35 White powdery chalk. 40-50% small chalk fragments.	

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21.	Downslope	35+ Impenetrable chalk. Drought 0-35 MZCL, 2.5 5/2. 5% small chalky fragments. Slightly calcareous. 35-65 HZCL, 10 YR 5/3. 5% small chalky fragments. Slightly calcareous. 65-85 HZCL, 10 YR 5/3. 5% small chalky fragments. Slightly calcareous. 85-110+ ZC, 10 YR 5/3. 5% small chalky fragments. Common feint grey mottles. Slightly calcerous.	3b
22.	5 <sup>0</sup> slope facing north.	Wetness Class I 0-35 HZCL, 2.5Y 5/2. 2% stones (chalk fragments) 5% surface stones. 35-75 HZCL + white chalk. 75+ Impenetrable chalk.	1
23.	Midslope	Drought 0-35 HZCL, 2.5 Y 5/2. 5% small chalky fragments. Slightly calcareous. 35-70 HZCL, 10 YR 5/3. 10% small chalky fragments. Slightly calcareous. 70-110+ MCL chalk mark. Slightly calcareous. Wetness Class I. Topsoil texture.	2

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24.	Midslope	0-35 HZCL, 2.5Y 5/2. 5% small chalky fragments. Slightly calcareous. 35-50 ZC 10 YR 5/3. Small chalk fragments. Slightly calcareous. 50+ Impenetrable hard chalk. Drought	3a
25.	Bottom of slope 5% slope N	0-35 HZCL, 2.5 Y 5/2. 35-50 ZC, 10 YR 5/3. Slightly calcareous. 50-110+ ZC, 2.5 Y 7/2. light grey. Slightly calcareous. Few large broken chalk stones. Wetness Class I. Topsoil texture.	2
26.	Bottom of slope	0-35 HZCL 2.5Y 5/2. Slightly calcareous. 35-110+ HZCL, 2.5 Y 7/2. Chalk mark. Few feint ochreous grey mottles to depth. Wetness Class I. Topsoil texture.	2
27.	Non-agricultural area		
28.		0-25 MZCL, 2.5 Y 5/2. 15% small chalky fragments. Slightly calcareous. 25-45+ ZL, white marly chalk. 40% small broken chalky fragments. Drought	3a



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29.	Mid-Slope (6°)	0-35 MZCL, 2.5 Y 5/2. Small chalky fragments. Slightly calcareous.  35-40 MZCL, 2.5 Y 7/2. Chalk marl/argillaceous chalk.  40+ Impenetrable chalk.  Drought	3a
30.	Sloping, bare (harrowed)	0-32 HZCL, 10 YR 5/2, 10 YR 6/2 light brownish grey, 10 YR 6/3 with depth. Occasional small chalk fragments (< 1 cm) Very calcareous (> 10%)  32-57 HZCL, 2.5 Y 7/2, streaks of 10 YR 7/1 light grey. 2% chalk stones.  57-75 HZCL, 10 YR 6/2 matrix, 10 YR 6/1 grey mottles, 10 YR 5/4. Few very small chalk stones (2%). Very calcareous. Not gleyed.  75-90+ HZCL, as above + occasional 10 YR 5/6 yellowish brown, 10 YR 4/2 (manganese staining). 2% small chalk stones. Very calcareous possibly slightly gleyed.  Wetness Class I. Topsoil texture.	2

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31.	Very gently sloping, cereals	0-25 HCL/MC, 10 YR 4/1 dark grey. 5-10% calcareous. 25-35 C, as above. 35-58 C, 10 YR 5/2 matrix, streaks of 10 YR 7/2 light grey and 10 YR 7/3 very pale brown. Gritty, 2% chalk stones. 10% calcareous. 10 YR 5/6 mottles occasionally below 50 cm. Slightly gleyed (or may be due to weathered stones). 58-90+ Soft dirty chalk.	3a
32.	Very gently sloping, cereals	0-38 m/HZCL, 10 YR 5/2. 10% calcareous. 38-90+ H/FSCl, 2.5 Y 6/2 light brownish grey, becoming 10 YR 6/2 with depth. 2-5% chalk stones. Wetness Class I. Topsoil texture.	1/2
33.	Level, cereals	0-25 ZC, 10 YR 5/2 matrix, streaks of 10 YR 6/4. Much organic material. 3% chalk stones. 25-55 C, 10 YR 7/2 light grey, 10 YR 6/3 matrix, 10 YR 6/6 brownish yellow mottles. Gleyed. Crumbly and dry with much loose chalky material (30%). Very calcareous (>10%)	

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34.	Very slight slope, cereals	55-75 Dirty loose chalk - 10% soil material (C) Ochreous mottles. 75+ Impenetrable hard chalk. Wetness Class II and drought. 0-15 ZC, 10 YR 5/2. 5-10% calcareous. 15-35 HZCL/ZC, 10 YR 5/2. 35-45 ZC, 10 YR 7/2, 10 YR 6/3, 10 YR 6/6. Possibly gleyed. 45-90+ HCL, 10 YR 7/2, 10 YR 6/6 mottles. Marl. Dry and crumbly. 10% calcareous.	3a
35.	Very gently sloping, grassland	Wetness Class II. 0-27 HZCL, 10 YR 4/1. 10% calcareous. 27-45 HZCL/ZC, 10 YR 6/3. 2% chalk stones. 10% calcareous. 45-90+ C, 10 YR 6/3, 10 YR 6/2. 5-10% calcareous.	3a
36.	Very slight slope, cereals	Wetness Class I. Topsoil texture. 0-28 ZC, 10 YR 5/2. 5-10% calcareous. 28-78 ZC, 10 YR 6/3, 10 YR 6/2, occasional streaks of 10 YR 7/2. 2% chalk fragments. 78-85 C, 10 YR 6/4 matrix, streaks of 10 YR 6/8 brownish yellow and 7.5 YR 5/6 strong brown.	2

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37.	Level cereals (2% surface stones)	<p>Much calcareous material. Gleying or weathering?</p> <p>85-100+ HCL/C, 10 YR 7/2 with pockets of 7.5 YR 5/6. 30% chalk. Very calcareous.</p> <p>Wetness Class I. Topsoil texture.</p> <p>0-28 ZC, 10 YR 5/2. 2% chalk stones. 5-10% calcareous.</p> <p>28-45 ZC, 2.5 Y 6/2, 2.5 Y 5/2. 10% chalk stones. 5-10% calcareous.</p> <p>45-90+ HCL, 10 YR 6/8, 10 YR 5/6 including mottling around weathered stones (10 YR 7/1). Matrix 2.5Y 6/2, 2.5Y 7/2. Very slightly stony (2-5%). 5-10% chalk stones. 10% calcareous. Chalk mark. Gleyed from 45 cm.</p>	2
38.	Level/v gently sloping, cereals	<p>Wetness Class I. Topsoil texture.</p> <p>0-28 ZC, 10 YR 4/1. 5-10% calcareous. 2% chalk stones.</p> <p>28-50 ZC, 2.5 Y 6/2, 2.5 Y 5/2. Occasional 10 YR 4/6 dark yellowish brown patches. 5% chalk stones. 5-10% calcarous. 2% flints.</p> <p>50-80+ C/HCL, 30% chalk stones with patches of 5 Y 6/2</p>	2

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39.	Level, cereals	light olive grey 5Y 7/2 light grey, 10 YR 6/8. 10% calcareous. Gleyed.  Wetness Class I. Topsoil texture.	2
		0-28 ZC, 10 YR 4/1. 5-10% calcareous. 2% chalk stones.  28-46 C, 10 YR 5/3, 10 YR 6/3, 10 YR 7/2. Few chalk stones. 2% flints. 5-10% calcareous.  46-60 C, 2-5 Y 7/2, 10 YR 5/2 and occasional patches of 10 YR 6/8. Becoming paler with depth (10 YR 6/3). 10% calcareous; gleyed.  60-80+ HCL/C below 60 cm, 2.5Y 7/2 with patches of 10 YR 6/8. Very calcareous.  Wetness Class I. Topsoil texture.	2

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40.	Level, cereals	0-28 ZC, 10 YR 4/1. 5-10% calcareous. 2% chalk stones. 28-50 ZC, 2.5Y 6/2, 2.5 Y 5/2. 50-80 C, 10 YR 6/1, 10 YR 6/8. Gritty and gravelly. 30-40% chalk stones. 5-10% calcareous. Gleyed. Wet. Becomes greyer with depth. Water table from 55 cm. Wetness Class I. Topsoil texture.	2
41.	Level, water on surface. Surface flints.	0-35 C, 2.5 Y 3/2 very dark greyish brown. Slightly calcareous. 5% small flints. 35-65 C, 2.5 Y 4/2. Slightly calcareous. 10% small flints. 65-90 C, 2.5 Y 5/2 becoming 2.5Y 7/2 with depth. Common and feint ochreous grey mottles. 15% small chalk stones + 5% flints. Gleyed. 90+ Impenetrable stones. Wetness Class I. Topsoil texture.	2
42.	Level, water on surface. Surface flints	0-25 Zc, 2.5 Y 3/2. Slightly calcareous. 5% small flints. 25-110+ ZC, 2.5 Y 7/2. Slightly calcareous. Chalk mark. Drought	2

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43.	Level, water on surface. Surface flints	0-35 HCL, 2.5Y 3/2. Slightly calcareous. 7% small chalk fragments and flints. 35-50 C, 2.5 Y 7/2. Slightly calcareous. 25% small weathered chalk stones. 50+ Impenetrable stones. Drought	2
44.	Level, wheat	0-27 HCL/MC, 10 YR 4/2. 10% calcareous. 1-2% chalk + flints (2-6 cm). 27-50 HC, 10 YR 6/4, 7.5 YR 6/8 reddish yellow. Common and distinct mottling. Many chalky fragments. 10% calcareous. Gleyed. 50-80 HC, 2.5Y 7/2 matrix, 7.5 YR 6/8 many distinct mottles. Many chalky fragments. Gritty. 10% calcareous. Gleyed. 80+ Impenetrable. Wet at bottom. Wetness Class II.	2/3a
45.	Level, Wheat	0-25 HCL/MC, 10 YR 4/2. 1-2% chalk and flints (2-6 cm). 10% calcareous. 25-48 HC, 10 YR 5/3 matrix. Occasional chalky fragment. 10% calcareous.	

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46.	Level, wheat	48-85 HC, 2.5 Y 6/4 matrix, common and distinct mottles 7.5 YR 6/8. 10% calcareous. Chalky fragments increasing with depth. Gleyed. Lighter with depth (2.5 Y 7/2).	
		85+ Impenetrable. Wet at bottom.  Wetness Class I. Topsoil texture.	2
		0-27 MC, 10 YR 3/1 very dark grey. 2-3% chalk and flints (2-6 cm). 10% calcareous.	
		27-45 HC, 10 YR 4/2 matrix, occasional mottling 7.5 YR 6/8. Many chalky fragments. 10% calcareous. Gleyed.	
		60-85 HCL 2.5Y 7/2 matrix, common and distinct mottling 10 YR 6/6, 7.5 YR 6/8. More chalky fragments than horizon above. 10% calcareous. Very gritty. Gleyed.	
		85+ Impenetrable - gritty/chalky. Wet sludge at bottom ground water.	
		Wetness Class II.	3a



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47.	Level, wheat	<p>0-28 MC, 10 YR 3/1. 2-3% chalk and flints (2-6 cm). 10% calcareous.</p> <p>28-46 HC, 10 YR 4/2, occasional mottle 7.5 YR 6/8. Many chalky fragments. 10% calcareous.</p> <p>46-60 HC, 2.5 Y 6/2, few feint mottles 10 YR 6/6. Many chalky fragments. Gleyed.</p> <p>60+ Impenetrable. Dirty, very gritty chalk/soil mix.</p>	
48.	Level, wheat	<p>Wetness Class I. <del>Topsoil texture.</del></p> <p>0-30 MC 10 YR 3/1. 1-2% stones (2-6 cm). 10% calcareous.</p> <p>30-68 HC, 10 YR 4/2. Few chalky fragments. 10% calcareous.</p> <p>68-90 HC, 10 YR 4/1 matrix, many prominent ochreous mottles 10 YR 5/6. Gritty. Gleyed. Wet.</p> <p>90+ Impenetrable.</p> <p>Wetness Class I. Topsoil texture.</p>	<p>2</p> <p>2</p>

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49.	Lower slopes, wheat (disturbed profile?)	0-28 C, 10 YR 4/1. Calcareous. Many chalky fragments (15%) + 5% flints. 28-40 Chalk, hard and gritty. 40+ Impenetrable. Drought	3b
50.	Level, wheat	0-28 10 YR 4/1. Calcareous. 28-40 C, 10 YR 5/3. Calcareous. Very chalky. 40-70 C, 10 YR 5/1 grey, 10 YR 6/6, 10 YR 6/4. Few mottles. Becoming more gravelly and paler with depth. 70+ Impenetrable gravel. Wetness Class II	3a
51.	Level, wheat	0-29 MC, 10 YR 3/1, 3-4% stones (2-6 cm). 10% calcareous. 29-45 HC, 10 YR 5/2, occasional mottle 7.5 YR 6/8. Many chalky fragments. 10% calcareous. 45-50 HC, 2.5 Y 6/2. Very gritty. Very wet - sludge. Gleyed. 50+ Impenetrable. Wetness Class I. Topsoil texture.	2
52.	Level, pasture	0-35 C, 10 YR 4/2. 10% chalk fragments. 2% flints. >10% calcareous.	

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53.	Very slight slope, rough grassland	<p>35-39 C, chalk gravel in 2.5 YR 4/2. (30% chalk).</p> <p>39-70+ C, chalk gravel in 2.5 YR 5/2. (50% chalk). 2-5% flints. Few ochreous mottles (10 YR 5/8). Possibly not gleyed but weathered chalk. &gt; 10% calcareous. Few iron stones.</p> <p>Drought</p> <p>0-23 MC, 10 YR 4/1. Many chalk fragments. 5% calcareous.</p> <p>23-28 HC, 10 YR 4/1, 10 YR 5/2, few feint ochreous mottles. 7.5 YR 5/6. Many chalky fragments. 5% calcareous. Gleyed.</p> <p>28-50 M/HC, 10 YR 6/4. 50% chalk. Very calcareous.</p> <p>50+ Dirty chalk.</p>	2
54.	Level, rough grassland	<p>Drought</p> <p>0-23 MC, 10 YR 4/1. Many chalky fragments. 5% calcareous.</p> <p>23-38 HC, 10 YR 5/2 dominant, few distinct ochreous mottles 7.5 YR 4/4. Many chalky fragments. Mottled. Gleyed.</p> <p>38-70 H/MC, 10 YR 6/4, few distinct ochreous mottles. 50% chalk.</p>	3a

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55.	Level, meadow	<p>Very calcareous ( 10%). Gleyed.</p> <p>70-80 Dirty chalk.</p> <p>80+ Impenetrable.</p> <p>Wetness Class II &amp; Drought.</p> <p>0-36 C/HCL, 2.5 Y 4/2. 10% chalk fragments. 10% calcareous.</p> <p>36-55 M/HCL, 50% chalk gravel. 2.5 Y 6/2 matrix. Few mottles 10 YR 5/8 yellowish brown. Gleyed from ground water.</p> <p>55+ Impenetrable chalk.</p>	3a
56.	Level, cereal (1-2% surface flints)	<p>Drought</p> <p>0-28 C, 2.5 Y 4/2, 10 YR 3/2 very dark greyish brown. 3% hard stones. 10% calcareous.</p> <p><del>20-35 C, 2.5 Y 5/2,</del></p> <p>28-35 C, 2.5 Y 5/2, 2.5 Y 5/4 light olive brown. 20% chalk. 10% calcareous.</p> <p>35-80+ C, 2.5 Y 5/2, 2.5 Y 5/4, with mottles 10 YR 5/6. 20% chalk stones, 2-5% flints. Increasingly ochreous and paler with depth. Manganese concretions and staining below 50 cm. Gleyed.</p> <p>Wetness Class II.</p>	3a

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57.	Level, cereals (1-2% surface flints)	0-30 C, 10 YR 3/2. 1-2% flints. 5-10% calcareous. Much organic material. 30-60 C, 2.5 Y 5/2. 5% chalk stones. 2% flints below 40 cm. 10% calcareous. 60+ HCL/C, 10 YR 6/4 matrix, mottles 10 YR 7/2, 10 YR 5/6. 20% chalk stones, 2% flints. Gleyed.	2
58.	Level, cereals (1-2% surface flints)	Wetness Class I. Topsoil texture. 0-29 C, 10 YR 3/2. 1-2% chalk stones. Few brick fragments. 10% calcareous. 29-65 C, 2.5 YR 5/2. 2% chalk stones. Gritty. Few iron concretions, 10% calcareous. 65-70 C, 2.5 Y 5/2 matrix, mottles 10 YR 6/2, 10 YR 4/6 dark yellowish brown. 2-5% flints, 10% chalk stones. 70-90+ C, 2.5 Y 7/2 matrix, mottles 2.5 Y 6/6 olive yellow, 10 YR 6/8. 2-5% flints. Manganese concretions. Gravel. 25% chalk stones.	2
59.	Level - v gently slope, cereals (1-2% surface flints)	Wetness Class I. Topsoil texture. 0-29 C, 10 YR 3/2. 1-2% chalk stones. Few brick fragments. 10% calcareous.	2

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60.	Level - gently sloping, cereals (1-2% surface flints)	<p>29-55 C, 2.5 Y 5/2. 2% chalk stones. Gritty. Few iron concretions. 10% calcareous.</p> <p>55-80+ C/HCL. 2.5 Y 7/2 matrix, 10 YR 7/1, 10 YR 5/6 mottles. 5% chalk stones. Very slightly stony (2-5%). Gleyed.</p> <p>Wetness Class I. <i>Topsail texture</i></p> <p>0-25 C, 10 YR 3/2 (wet). 2% chalk stones, 1-2% hard stones. Very calcareous.</p> <p>25-40 C, 10 YR 5/3 matrix (wet), 10 YR 5/2, 10 YR 4/6 mottles. Gleyed. Many manganese concretions. 5-10% chalk stones. Gritty. 2% hard stones.</p> <p>40-90+ C with 30% chalk gravel. Very wet. 2.5 Y 6/2 matrix, 10 YR 5/8 mottles. Very slightly stony (2%). Gritty. Very calcareous - calcareous.</p>	2
61.	Level, cereals	<p>Wetness Class II.</p> <p>0-29 C, 10 YR 3/2. 2% chalk stones, 2% hard stones. Calcareous.</p> <p>29-45 C, 2.5 Y 5/2. 2-5% chalk stones, 2% hard stones. Very calcareous.</p> <p>45-80+ C/HCL, 2.5 Y 7/2, 2.5 Y 6/2 matrix. 10 YR 5/8, 10 YR 6/2 mottles.</p>	3a

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62.	Pasture, surface water	<p>Manganese concretions. 10-20% chalk stones, 2% hard stones. <del>bec</del>                      Becoming paler and more mottled, together with more chalk stones with depth. Wet below 70 cm with more ochreous mottles and manganese concretions.</p> <p>Wetness Class I.  <del>Topsail texture.</del></p> <p>0-25 ZC, 2.5Y 3/2. Moderately calcareous.</p> <p>25-65 ZC, 2.5Y 5/2. Slightly calcareous. Possibly gleyed. 5% small flint stones. SPL.</p> <p>65-110+ ZC, 2.5Y 7/2. Slightly calcareous. Few distinct ochreous mottles becoming common at 100 cm.</p>	2
63.	Level, pasture	<p>Wetness Class IV.</p> <p>0-29 C, 10 YR 3/2. Some organic material. 1% calcareous.</p> <p>29-57 C, 10 YR 5/3. 2% calcareous. Very slightly stony, with few small chalk stones.</p> <p>57-70 C with chalky gravel, 10 YR 6/3. 25% stones.</p> <p>70-80 C with chalky gravel, 10 YR 6/3 matrix. 10 YR 6/1, 10 YR 5/6 mottles. Gleyed. Wet from 70 cm.</p>	3b

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
64.	Level, pasture (near linear mound)	80+ Impenetrable stones (chalk).  Wetness Class I. <i>Topsoil texture.</i>  0-25 HC, 2.5 Y 4/2. 10% calcareous. Few chalk fragments.  25-50 MC, 2.5 Y 6/4 light yellowish brown (matrix), 10 YR 6/6 common and distinct ochreous mottles. 10% calcareous. Becoming lighter in colour with depth. Gritty/stony. Possibly gleyed.  50-120+ FSCL, 2.5Y 5/4, 10 YR 5/6 common and distinct ochreous mottles. 10% calcareous. Possibly gleyed. Many chalky fragments.	3a
65.	Very gentle slope, grass (wet underfoot)	Wetness Class II.  0-25 HCL, 10 YR 3/2. Very calcareous ( 10%). 1-2% chalk stones.  25-35 HCL/C, 10 YR 3/2. Very calcareous. 1-2% chalk stones.  35-80+ C, 10 YR 6/4 matrix. 2.5 Y 7/0 light grey, 10 YR 5/8 mottles. Gleyed. 5-10% calcareous. 1-2% chalk stones. Very slightly stony/gritty.	3a
66.	Next to small hollow	Wetness Class II.  0-25 HCL (organic)/possibly silty. 10 YR 3/2.	2/3a



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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
67.	Slight slope	<p>Calcareous.</p> <p>25-70 C, 2.5 Y 3/2. 3% small flints. SPL.</p> <p>70-110+ ZC, 5Y 5/2 olive grey. Common and distinct ochreous grey mottles. Slightly calcareous.</p> <p>Wetness Class III.</p> <p>0-25 HZCL, 10 YR 3/2. Slightly calcareous.</p> <p>25-45 C, 2.5 Y 4/2. Slightly calcareous. Slightly calcareous. SPL.</p> <p>45-65 ZC, 2.5Y 5/2. Slightly calcereous.</p> <p>65-110+ ZC, 2.5Y 7/2. Common and distinct ochreous mottles. Slightly calcereous.</p>	3a
68.	Pasture	<p>Wetness Class III.</p> <p>0-35 HZCL, 10 YR 3/2. Moderately calcareous.</p> <p>35-55 FSC, 10 YR 4/2. Slightly calcereous.</p> <p>55-75 FSHCL, 10 YR 5/3. Few distinct ochreous grey mottles. Slightly calcareous. 5% small chalk fragments. Gleyed.</p> <p>75-85 FSHCL, 10 YR 5/2. Common and distinct ochreous grey mottles. Few manganese concretions. 3% small chalk fragments. Slightly calcareous.</p>	3a

SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
69.	Pasture	85-105 FSMCL, 5Y 5/3 olive. 3% small chalk fragments. Few distinct ochreous mottles. Slightly calcareous. 105-110+ FSHCL, 5Y 5/3. Slightly calcareous. Wetness Class I. Topsoil texture.	2
70.	Pasture, upslope from drier land	0-25 ZC, 2.5Y 3/2. Slightly calcareous. 25-90 ZC, 2.5Y 4/2. Moderately calcareous. Slightly flinty. Possibly gleyed. SPL. 90-110+ ZC, 2.5Y 5/2. Slightly calcareous. Wetness Class IV.	3b
71.	Slight slope, pasture	0-50 HCL, 10 YR 3/2. 25% small chalk fragments. Strongly calcareous. 50-90 MZCL, 10 YR 5/3. 40% small chalk fragments. Strongly calcareous. 90-110+ VFSZL, 10 YR 7/2. 3% small chalk fragments. Weathered chalk fragments. Wetness Class I. Topsoil texture.	2
		0-35 ZC, 10 YR 3/2. Moderately calcareous. 35-45 ZC, 2.5Y 4/2. Gleyed. Common and distinct ochreous mottles. Calcareous.	

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
72.	Pasture, extremely waterlogged (Juncus)	45-55 ZC, 2.5 Y 5/2. Few small weathered chalk fragments. Few distinct ochreous grey mottles. Slightly calcareous.  55-95 ZC, 2.5Y 7/2. Few distinct ochreous grey mottles. Slightly calcareous. Chalk marl.  95-110+ ZC, 2.5Y 7/2. Chalk marl. Common and distinct ochreous grey mottles.  Wetness Class II	3a
73.	Pasture, extremely waterlogged	0-35 ZC, 2.5 Y 4/2.  35-100 ZC, 5Y 5/3. Few ochreous grey mottles. SPL.  100-110+ ZC, 5Y 5/3. Slightly calcareous.  Wetness Class IV.	3b
		0-25 ZC, 2.5Y 3/2. Very slightly calcareous.  25-35 ZC, 2.5Y 4/2. Very slightly calcareous. 2% small flint stones.  35-90 ZC, 5Y 5/2. Few small ochreous streaks. Possibly gleyed. Slightly calcareous of 75 cm. SPL.  90-100 HZCL, 5 Y 5/2. Few distinct ochreous mottles. Slightly calcareous.	

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
74.	Slight slope, cereals	100+ Impenetrable.  Wetness Class IV.  0-35 ZC, 2.5 Y 4/2. Very slightly calcareous.  35-55 ZC, 2.5 Y 4/4 olive brown. Common and feint ochreous grey mottles.  55-90 ZC, 5 Y 6/2. Common and distinct ochreous grey mottles. Slightly calcareous. SPL.  90-110+ ZC, 5 Y 6/2. Common and distinct ochreous grey mottles. Few weathered chalky fragments. Slightly calcareous.	3b
75.	Pasture (+ Juncus)	Wetness Class III.  0-35 HZCL (organic), 10 YR 3/2. Fibrous roots and root mottles.  35-45 ZC, 2.5 Y 4/2. Common and distinct ochreous grey mottles. 5% flints. Very slightly calcareous. SPL.  45-65 ZC, 5 Y 5/2. Few feint ochreous mottles. Moderately calcareous.  65-110+ ZC, 5 Y 5/3. Common and feint ochreous grey mottles. Slightly calcareous. Few weathered chalky fragments.  Wetness Class IV.	3b

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
76.	Pasture (+ Juncus)	0-20 ZC (organic), 10 YR 3/1. Few ochreous root mottles. 20-45 ZC, 2.5 Y 4/2. Common and distinct ochreous grey mottles. Few shell fragments. SPL. 45-65 ZC, 5 Y 4/2 olive grey. Common and distinct ochreous grey mottles. Slightly calcareous. 65-110+ ZC (S?) 5 Y 5/2. Common and distinct ochreous grey mottles. 5% small chalky fragments. Slightly calcareous. Wetness class IV	3b
77.	Pasture, waterlogged	0-25 ZC, 10 YR 3/2. Common and distinct ochreous root mottles. Many fibrous roots. 25-35 ZC, 2.5 Y 4/2. Common and distinct ochreous grey mottles. SPL. 35-75 ZC, 10 YR 5/3. Common and distinct ochreous grey mottles. Few manganese concretions. Slightly calcareous. 20% small hard chalky fragments. 75-110+ ZC, 5 Y 7/2. Common and distinct ochreous grey mottles. Few small weathered chalk fragments. 5% calcareous. Wetness Class IV.	3b

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 SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
78.	Pasture, waterlogged	0-25 ZC, 2.5 Y 3/2. Very slightly calcareous.  25-35 ZC, 2.5 Y 3/2. Common and distinct ochreous brown mottles. SPL.  35-45 ZC, 2.5 Y 4/2. Common and feint ochreous grey mottles.  45-55 ZC, 2.5 Y 5/2. Common and distinct ochreous grey mottles. Occasional chalk fragment. Slightly calcareous.  55-110+ ZC, 2.5 Y 6/2. Common and distinct ochreous grey mottles. Few manganese concretions. Slightly calcareous. Few weathered chalk fragments.  Wetness Class IV.	3b
79.	Pasture, waterlogged	0-25 ZC, 2.5 Y 3/2.  25-70 ZC, 10 YR 5/2. Common and distinct ochreous grey mottles. 10% small flints. Calcareous bands at 70 cm +. SPL.  70-110+ ZC, 2.5 Y 6/2. Common and distinct ochreous grey mottles. Few weathered chalk fragments. Slightly calcareous.  Wetness Class IV.	3b
80.	Pasture	0-25 ZC, 2.5 Y 4/2. Common and distinct ochreous rot mottles.	

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
81.	Pasture	<p>25-45 ZC, 2.5 Y 5/2. Common and feint ochreous, grey mottles. 5% small flints. SPL.</p> <p>45-55 ZC, 2.5 Y 5/2. Common and feint ochreous grey mottles. 15% small flints.</p> <p>55-90 ZC, 2.5 Y 5/2. Common and distinct ochreous grey mottles.</p> <p>90-110+ ZC, 2.5 Y 6/2. Common and distinct ochreous grey mottles. Few weathered chalk fragments.</p> <p>Wetness Class IV.</p> <p>0-25 ZC, 2.5 Y 4/2.</p> <p>25-45 ZC, 2.5 Y 5/2. 5% small flints.</p> <p>45-55 ZC, 2.5 Y 5/2. Common and feint ochreous grey mottles. Few distinct ochreous mottles. Slightly calcareous. 5% small flints. SPL.</p>	3b
82.	Pasture, unimproved	<p>55-110+ ZC, 2.5 Y 6/2 becoming 5 Y 7/2 at 80 cm. Common and distinct ochreous grey mottles. Few small weathered chalk fragments. Slightly calcareous.</p> <p>Wetness Class III.</p> <p>0-35 ZC, 10 YR 3/2. Few grey streaks with distinct ochreous mottles.</p>	3b

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
83.	Level, pasture	<p>35-55 ZC, 2.5 Y 4/2. Common and distinct ochreous grey mottles. 5% small flints. Slightly calcareous. SPL.</p> <p>55-110+ ZC, 2.5 Y 5/2. Many prominent ochreous grey mottles. Slightly calcareous. Few weathered chalk fragments. Increasingly grey and wet with depth.</p> <p>Wetness Class IV.</p> <p>0-27 (M) C 10 YR 4/2; 1% calc.</p> <p>27-55 (H) C matrix 2.5 Y 6/2; mottles 10 YR 6/6; gleyed; SPL; 5%; chalk fragments.</p> <p>55-90+ (H) c matrix 10 YR 5/3; mottles 10 YR 6/6; SPL; 5% calc; gravel layer at 50 cm.</p>	3b
84.	Level,	<p>Wetness Class IV.</p> <p>0-27 (M) C matrix 10 YR 4/2; mottles 10 YR 6/2; 1% calc.</p> <p>27-60 (H) C matrix 5 Y 7/2; mottles 10 YR 7/2, 10 YR 6/6; gleyed; SPL: 5% calc.</p> <p>60-90+ (H) C matrix 10 YR 6/1; mottles - ochreous + grey; SPL.</p> <p>Wetness Class IV.</p>	3b



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 SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
85.	Level, pasture	0-25 (M/H) C matrix 10 YR 3/2 and 6/2; mottles ochreous; gleyed; 1% calc.  25-55 (H) c matrix 10 YR 5/2; mottles 10 YR 5/6; gleyed; SPL; 5% calc.  55-90+ (H) C matrix 10 YR 6/1; mottles 10 YR 5/1, 10 YR 5/6; SPL; 5% calc; few chalk fragments.  Wetness Class IV.	3b
86.	Level, pasture	0-25 (M) C matrix 10 YR 4/2; mottles 10 YR 6/2; 1% calc.  25-50 (H) C matrix 10 YR 6/4; mottles 10 YR 6/1, 10 YR 6/6; gleyed; SPL; gritty.  50-100+ (H) C matrix 10 YR 5/3; mottles 10 YR 6/6; gleyed; SPL.  Wetness Class IV.	3b
87.	Pasture	0-35 ZC 2.5 Y 4/2.  35-45 ZC 2.5 Y 5/2.  45-55 ZC matrix 2.5 Y 5/2; mottles - common distinct ochreous; gleyed; SPL; 5% calc.  55-110 ZC matrix 2.5Y 6/2; mottles - common distinct ochreous; Mn concretions; SPL; strongly calc.  Wetness Class IV.	3b

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
88.	Level, pasture	0-27 (H) CL/(M) C matrix 10 YR 4/2; mottles 10 YR 5/1; 1% calc.  27-50 (H) C matrix 10 YR 6/4; mottles 10 YR 7/2, 10 YR 6/6; gleyed; SPL.  50-95+ (H) c matrix 7.5 YR 7/0 light grey mottles 10 YR 6/4, 10 YR 5/8; SPL.  Wetness Class IV.	3b
89.	Level, pasture (standing water)	0-23 (M) C matrix 10 YR 3/2; mottles 10 YR 5/1; 1% calc.  23-35 (H) c matrix 10 YR 5/2; mottles 10 YR 4/2; SPL; 5% calc.  35-90+ (H) c matrix 2.5 Y 5/2; mottles 10 YR 6/6; gleyed; SPL; 5% calc.  Wetness Class IV.	3b
90.	Level, grass	0-28 (H) C matrix 10 YR 4/1; mottles 10 YR 6/4; gleyed; Mn concretions; 0.5% calc.  28-58 (H) C matrix 10 YR 6/3; mottles 10 YR 5/6; gleyed; SPL; Mn concretions; 1% calc.  58-90+ (H) C matrix 2.5 Y 6/4; mottles 10 YR 6/6; gleyed; SPL; 2% chalk stones  Wetness Class IV.	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
91.	Level, grass	0-25 (M) ZC 10 YR 4/1 matrix; mottles 10 YR 6/3, 10 YR 5/8; gleyed.  25-55 (H) ZC matrix 2.5 YR 5/2; mottles 10 YR 6/1, 10 YR 6/6; gleyed; SPL; Mn concretions.  55-80+ (H) ZC matrix 10 YR 7/1; mottles 10 YR 6/6; SPL.  Wetness Class IV.	3b
92.	Level, grass	0-25 (M) ZC matrix 10 YR 4/1; mottles 5/3; non- calc.  25-50 (H) ZC matrix 10 YR 5/3; mottles 10 YR 5/6; gleyed; SPL.  50-90+ (H) ZC matrix 10 YR 6/2; mottles 10 YR 5/6, 10 YR 5/8; SPL.  Wetness Class IV.	3b
93.	Level, grass	0-25 (M) ZC 10 YR 3/2.  25-40 (H) ZC matrix 2.5 Y 6/2; mottles 10 YR 5/8; gleyed; SPL; Mn concretions.  40-80+ (H) ZC matrix 10 YR 7/1; mottles 10 YR 6/8; SPL.  Wetness Class IV.	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
94.	Level, grass. Squelchy underfoot	0-18 HZCL 10 YR 3/2; much organic matter; non-calc.  18-90+ (H) C matrix 10 YR 5/1; mottles 10 YR 6/6, 10 YR 5/4; gleyed; SPL; calc.  Wetness Class IV.	3b
95.	Level, grass	0-25 (H) C matrix 10 YR 5/2; mottles 10 YR 7/4; very pale brown 10 YR 5/6; gleyed; SPL?  25-80+ (H)C/ZC matrix 2.5 Y 6/2 - 5/2; mottles 10 YR 5/8; gleyed; SPL; mn concretions.  Wetness Class IV.	3b
96.	Level, grass	0-22 HZCL 10 YR 3/2; non-calc.  22-30 (M) C matrix 2.5 Y 4/2; mottles 5Y5/1 gray, 10 YR 6/8; Mn concretions; gleyed; SPL; 0.5% calc.  30-75 (H) C matrix 2.5Y 5/2; mottles 10 YR 6/8, 10 YR 6/2; SPL; mn concretions.  75-110 (H) C matrix 10 YR 6/2; mottles 5Y6/1 gray; 10 YR 6/8; SPL.  Wetness Class IV.	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
97.	Level, grass	0-22 (M) C 10 YR 3/2; non-calc. 22-60 (H) C matrix 2.5Y 4/2; mottles 5Y51, 10 YR 6/8; gleyed; SPL; 2% calc. 60-110 (H) c matrix 10 YR 6/2; mottles 5Y6/1, 10 YR 6/8, SPL; chalky fragments; increasingly 2.5Y 7/0. Wetness Class IV.	3b
98.	Level, cereals	0-27 (H) C 10 YR 4/2; few ochreous mottles; non-calc. 27-80+ (H) c matrix 10 YR 5/1; mottles 10 YR 7/4, 10 YR 5/8, 10 YR 6/1; gleyed; SPL; Mn concretions; slightly stony; chalk stones; increasingly grey and ochreous with depth. Wetness Class IV.	3b
99.	Level, cereals	0-20 (M) C matrix 10 YR 4/1; mottles 10 YR 6/4, 10 YR 5/8, 7.5 YR 5/6, Mn, gleyed, SPL. 20-80+ (H) C matrix 10 YR 6/3; mottles 10 YR 5/6, 10 YR 6/1; Mn concretions; SPL. Wetness Class IV.	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
100.	Level, cereals	0-28 (M) C 10 YR 4/2. 28-52 (H) C matrix 10 YR 5/3; mottles 10 YR 5/8, 10 YR 6/4; gleyed; SPL; FS and few stones from 30 cm; Mn concretions. 52-78 (H) SC matrix 10 YR 6/2; mottles 7.5 YR 5/6; Mn concretions; SPL. 78-90+ SC with chalk gravel 70% SC; wet; water table from 78 cm. Wetness Class IV.	3b
101.	Gentle falls, wheat	0-27 C 2.5Y 4/2; non-calc. 27-60 C matrix 10 YR 6/4; mottles 10 YR 6/6, 10 YR 5/4; gleyed; SPL; non-calc; very gravelly at 45 cm. 60-80+ C matrix 2.5 Y 7/0; chalky stones. Wetness Class IV.	3b
102.	Very gentle slopes, wheat	0-25 C 2.5 Y 4/2. 25-80+ C matrix 2.5Y 6/2; mottles 2.5Y 5/6 light olive brown 7.5 YR 5/8 strong brown; gleyed; SPL. Wetness Class IV.	3b

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
103.	Gently sloping, wheat	0-25 (M) C 2.5 Y 4/2 and 5/2; calc. 25-70+ C matrix 2.5 Y 6/2; mottles 7.5 YR 5/8, 2.5 Y 5/6; chalky inclusions; calc SPL. Wetness Class IV.	3b
104.	Gently sloping, wheat	0-25 (M) C 2.5 Y 4/2 and 5/2; calc. 25-70+ C matrix 2.5 Y 6/2; mottles 2.5 Y 5/6, 7.5 YR 5/8; Mn concretions; SPL; calc. Wetness Class IV.	3b
105.	Gently sloping, wheat	0-25 (M) C 2.5 Y 4/2 and 5/2; calc. 25-70+ C matrix 2.5 Y 6/2; mottles 2.5 Y 5/6, 7.5 YR 5/8; gleyed; SPL; calc Wetness Class IV.	3b
106.	Gentle falls, wheat	0-20 (M) C 2.5Y 4/2; non-calc. 20-95 C matrix 2.5 Y 6/2; mottles 2.5 Y 5/4, 7.5 YR 5/8; non-calc; gleyed; SPL. Wetness class IV.	3b

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
110.	Gently undulating, wheat	0-27 (M) C 2.5 Y 4/2; non-calc. 27-38 C matrix 2.5Y 5/4; faint ochreous mottles; non calc; gleyed. 38-45 C matrix 2.5 Y 5/4; mottles 7.5 YR 5/8; SPL; calc. 45-70 C matrix 2.5 Y 5/2; mottles 7.5 YR 5/8; gleyed; SPL; calc. 70-80+ C matrix 2.5 Y 5/2; matrix 5G 4/2, 10 YR 5/6; gleyed; SPL; calc. Wetness Class IV.	3b
111.	Gentle slopes, wheat	0-20 (M) C 2.5 Y 4/2; non-calc. 20-65 C matrix 2.5 Y 5/2 and 5/4; mottles 7.5 YR 5/8; gleyed; SPL; non-calc; few chalk stones; Mn concs below 50 cm. 65-75 C matrix 2.5 Y 7/2; mottles 10 YR 7/8 yellow Mn concs; calc; SPL. 75-100+ C matrix 10 YR 7/1; mottles 10 YR 7/8; few chalk frags; calc. Wetness Class IV.	3b



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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
112.	Gentle slopes, wheat	0-25 (M) C 2.5 Y 4/2; non-calc. 25-60 (H) C Matrix 2.5 Y 6/2; mottles 7.5 Y 5/8; non-calc; few chalk lumps. 60-90+ (H) C matrix 2.5 Y 5/4; mottles 2.5 Y 5/6; 2.5 Y 5/6; 2.5 Y 6/0 gray; calc; slightly stony. Wetness Class IV.	3b
113.	Level, cereals	0-30 (M) C 10 YR 4/1-4/2. 30-80+ (H) C/ZC matrix 2.5 Y 5/2; mottles 10 YR 5/6; 16 YR 6/1; gleyed; SPL.	
114.	Flat/very gently sloping, wheat	0-28 C 2.5 Y 4/2; slightly calc 1%. 28-70+ C matrix 2.5 Y 5/3; light olive brown mottles 10 YR 6/6, 5Y 6/2 v pale olive; slightly calc; gleyed; SPL. Wetness Class IV.	3b
115.	Gently undulating, wheat	0-20 HCL 2.5 Y 4/2; non calc. 20-57 C matrix 2.5 Y 5/2; mottles - ochreous; calc; small lumps of chalk. 57-80+ C matrix 2.5 Y 8/2; white mottles 2.5 Y 7/8; yellow calc. Wetness Class IV.	3b
116.	Very gentle falls, wheat	0-25 C 2.5 Y 3/2; slightly calc.	

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
117.	Flat, wheat	25-60+ C matrix 5Y 5/3; olive mottles 7.5 YR 5/8; gleyed; SPL; slightly calc.  Wetness Class IV.  0-25 C 2.5 Y 4/2; non-calc.	3b
118.	Very gentle slopes, wheat	25-70+ C matrix 2.5 Y 5/2; mottles 7.5 YR 5/8; gleyed; SPL.  Wetness Class IV.  0-20 C 2.5 Y 4/2; few ochreous mottles; slight slightly calc.	3b
119.	Very gentle slopes, wheat	20+ C matrix 5Y 5/3; mottles 5Y 5/1, 2.5 Y 6/4, 10 YR 5/6; v plastic and wet; 1% calc.  Wetness Class IV.  0-25 C 2.5 Y 4/2; few ochreous mottles; slightly calc 1%.  25-45 C matrix 5Y 5/3; mottles 5Y 5/1, 7.5 YR 5/8; gleyed; SPL; calc 71%.  45-70 C matrix 5Y 5/3; mottles 2.5 Y 6/4, 7.5 YR 5/8; SPL.  70+ C; as above; very chalky  Wetness Class IV.	3b

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SCHEDULE OF AUGER BORINGS

Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
120.	Very gentle slopes, wheat	0-25 HCL 2.5 Y 3/2; slightly calc. 25-60 C 5Y 5/3; few ochreous mottles; gleyed; SPL. 60-75 C matrix 5Y 6/2; mottles 7.5 YR 5/8; very plastic; SPL. 75+ C matrix 5 Y 6/2; few ochreous mottles; very plastic; SPL. Wetness Class IV.	3b
121.	Ridge and furrow, pasture	0-25 Organic ZC 2.5 Y 3/2; few distinct root mottles. 25-110 ZC matrix 2.5 Y 5/2; mottles - ochreous and grey; SPL; Mn concretions; strongly calc; 5% hard chalk stones. Wetness Class IV.	3b
122.	Level, pasture	0-15 (M) C 10 YR 3/2; organic; 2% calc. 15-25 (H) C matrix 10 YR 3/2; mottles 10 YR 6/1; 2% calc; SPL. 25-90+ (H) C matrix 2.5 Y 6/2; mottles 10 YR 6/1 - prominent; Mn concretions; some chalk fragments. Wetness Class IV.	3b
123.	Very gentle slopes, wheat	0-25 C 2.5 Y 4/2; slightly calc.	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
124.	Very gentle slope, wheat	25-70+ C matrix 5Y 5/3; mottles 10 YR 5/6, 5Y 5/1; gleyed; SPL; calc.  Increasingly grey with depth.  Wetness Class IV.	3b
125.	Level, pasture	0-30 C 2.5 Y 4/2; slightly calc; some distinct ochreous mottles.  30-70+ C matrix 5Y 5/3; mottles 10 YR 5/6, 5 Y 5/1; calc; occasional chalky inclusions.  Wetness Class IV.	3b
126.	Grassland, level	0-17 (M/H) C 10 YR 3/2, very organic topsoil; 2% calc.  17-50 (H) c matrix 2.5 Y 5/2; many prominent grey mottles 2.5 Y 6/2; chalk fragments; 2-5% calc; SPL.  50-90+ (H) C matrix 2.5 Y 5/2; mottles 10 YR 7/8; gleyed; SPL.  Wetness Class IV.	3b
		0-25 Organic (H) C 2.5 Y 3/2; common distinct ochreous root mottles.  25-110 ZC matrix 2.5 Y 5/2; mottles - ochreous and grey; gleyed; SPL; calc; 5% small chalk stones; wet and sticky.  Wetness Class IV.	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
127.	Level pasture, very wet - standing water with water buttercup	0-25 Organic (H) C - anaerobic; matrix 10 YR 4/2; mottles 10 YR 5/1, 10 YR 4/6; gleyed; 2% chalk stones.  25-35 (H) C N4 dark gray; serious wetness problems; SPL.  35-80+ (H) C matrix 10 YR 6/4; mottles N5 gray 7.5 YR 5/6; gleyed; SPL; 15% chalk stones; increasingly chalky and Mn concretions with depth.  Wetness Class IV.	3b
128.	Level, pasture	0-35 C slightly silty and with much organic matter 2.5 YR 4/0 dark grey with 10 YR 4/2; 2% chalk stones.  35-67 C matrix 10 YR 5/2; mottles 10 YR 5/6; gleyed; 5% chalk stones.  67-85 Chalk with some small flints in a matrix - 2.5 Y 6/2.  85+ Impenetrable chalk and flint stones.  Wetness Class IV.	3b
129.	Level, pasture	0-10 (L) C organic 10 YR 3/2; 5% calc.  10-25 (L) C 10 YR 3/2; < 1% stones; small chalk fragments; > 5% calc.	

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
130.	Level, pasture	<p>10-25 (L) C 10 YR 3/2; &lt;1% stones; small chalk fragments; &gt;5% calc.</p> <p>25-75 (H) c matrix 10 YR 5/1; mottles 10 YR 6/6; becoming paler and greyer with depth; few chalk fragments; 5% calc.</p> <p>75+ Impenetrable chalky slurry; very wet. Wetness Class IV.</p> <p>0-10 (L) C very organic topsoil</p> <p>10-20 (L) C 10 YR 3/2; 5% calc.</p> <p>20-70 (H) C 10 YR 5/1 matrix; mottles 10 YR 6/6; gleyed; SPL; occasional chalky fragments and shells; paler and greyer with depth 5Y 6/1.</p> <p>70+ Dirty wet chalk mixture. Wetness Class IV.</p>	3b
131.	Gently undulating, grass	<p>0-20 C 2.5 Y 3/2; root mottles.</p> <p>20-45 C; matrix 5 Y 5/3; common faint ochreous mottles; very slightly calc gleyed; SPL.</p> <p>45-70 C matrix 2.5 Y 6/2; mottles 7.5 YR 5/8; inc 2.5 Y 6/2; sandstone lumps. Wetness Class IV.</p>	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
132.	Undulating, wet, grass	0-10 Organic C/HCL 10 YR 3/2; root mat. 10-25 C 10 YR 4/2; common faint ochreous mottles; gleyed. 25-55 C matrix 5 Y 5/3; mottles 7.5 YR 5/8; gleyed; SPL. 55-70+ C matrix 2.5 Y 6/2; mottles 7.5 YR 5/8; gleyed; calc. Wetness Class IV.	3b
133.	Level, wheat	0-26 (M) C 10 YR 4/1; many chalky fragments; 5% calc. 26-35 (H) C matrix 10 YR 4/1; mottles 10 YR 5/2; many chalky fragments. 35-45 (H) C 10 YR 5/2; many chalky fragments. 45-95+ (H) C matrix 10 YR 5/2; mottles 10 YR 5/6, 5Y6/1; gleyed; few chalk fragments; SPL. Wetness Class IV.	3b
134.	Level, wheat	0-28 (H)CL/(M) C 10 YR 4/1; many chalk fragments; 2-5% calc. 28-48 (H) C matrix 10 YR 4/1; mottles 10 YR 5/2; many chalk fragments. 48-68 (M)/(H) C matrix 10 YR 5/2; mottles 5Y 6/1; 10 YR 5/6; gleyed; many chalk fragments.	

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
135.	Very slightly sloping, rough grassland	68-95+ Dirty white chalk.	2/3a
		Wetness Class I. Topsoil texture.	
		0-18 (H)CL 10 YR 4/1; some chalky fragments; 5% calc.	
		18-40 (M) C 10 YR 5/2; many chalky fragments.	
		40-55 (M) CL matrix 10 YR 6/2; mottles 10 YR 6/6; many chalky fragments v calc; gleyed.	
136.	Level, orchard with pasture	55-90+ ZCL matrix 10 YR 7/2; mottles 10 YR 7/6 yellow; gleyed; 40% chalk; 10% calc.	2
		Wetness Class II.	
		0-19 C 10 YR 4/2; 10% calc; few chalk stones; some organic matter.	
		19-36 (H) C 2.5 Y 5/2; some chalk stones; calc 5-10%.	
		36-60 (H) C matrix 2.5 Y 5/2; mottles 10 YR 5/1, 10 YR 5/6; gleyed; SPL; few chalk stones; calc 5-10%.	
136.	Level, orchard with pasture	60-80+ (H) C matrix 2.5Y 6/2; mottles 10 YR 5/8, N6 gray; gleyed; SPL; calc 10% few chalk stones.	3b
		Wetness Class IV.	



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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
137.	Level, pasture under orchard	<p>0-18 C 10 YR 4/2; much organic matter; few och root mottles; 10% calc.</p> <p>18-47 (H) C matrix 10 YR 5/2; mottles 10 YR 4/6; gleyed; SPL; 5-10% calc; few chalk fragments; much organic matter; increasingly 10 YR 5/1.</p> <p>47-58 (H) C matrix 10 YR 5/2; mottles 10 YR 4/6; gleyed; SPL; inc 10 YR 5/1; wet; chalk stones 20%.</p> <p>58-90+ Wet chalk gravel in grey day. 90% gravel; Greyish white (WT).</p> <p>Wetness Class IV.</p>	3b
138.	Level, orchard with pasture	<p>0-35 (H) C 10 YR 4/2; v calc 10%; few chalk stones; much organic matter.</p> <p>35-55 (H) C matrix 2.5 Y 4/2; mottles 10 YR 5/1, 10 YR 4/6; gleyed; SPL; 10% calc.</p> <p>55-95+ (H) C matrix 2.5 Y 5/2; mottles 10 YR 4/6; gleyed; SPL; 10% calc; inc sandy.</p> <p>Wetness Class IV.</p>	3b
139.	Level, orchard with pasture	<p>0-18 (L) C; much organic matter; few chalk stones; 10% calc;</p>	

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
140.	Level, pasture	18-35 (H) C matrix 10 YR 5/2; mottles 10 YR 5/1, 10 YR 4/6; gleyed; SPL; 10% calc.  35-85+ (VH) C matrix N5/ mottles 7.5 YR 4/6 strong brown gleyed; SPL; calc 5-10%; few chalk sts.  Wetness Class IV.	3b
141.	Level, pasture	0-18 (L) C matrix 10 YR 3/2; mottles 10 YR 5/1; 2% calc.  18-40 (H) C matrix 10 YR 3/2; mottles 2.5 Y 5/2, 10 YR 6/6; gleyed; SPL; few chalky fragments.  40-100 (H) C matrix 2.5 Y 5/2; mottles 10 YR 6/4; gleyed; SPL.  Wetness Class IV.	3b
142.	Level, pasture	0-19 (L) C 10 YR 3/2 matrix; mottles 10 YR 5/2; 5% calc.  19-100+ (H) C matrix 2.5 Y 5/2; mottles 10 YR 3/2, 10 YR 5/6; gleyed; SPL; few chalk fragments; 5% calc.  Wetness Class IV.	3b
		0-25 (H) ZCL 10 YR 4/1; much organic matter; ochreous root mottles.  25-90+ ZC matrix 10 YR 5/2; mottles 10 YR 6/1;	

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
143.	Level, pasture	<p>10 YR 5/6; gleyed; SPL.</p> <p>Wetness Class IV.</p> <p>0-18 (L) C 10 YR 3/1; much organic matter.</p> <p>18-100+ (H) C matrix 10 YR 6/1; mottles 10 YR 6/6; gleyed; SPL; 5% calc few chalk fragments; becoming 10 YR 7/1 with depth.</p>	3b
144.	Level, pasture	<p>Wetness Class IV.</p> <p>0-22 (H) CL 10 YR 3/2; much organic matter; ochreous root mottles.</p> <p>22-30 C matrix 10 YR 3/2; few mottles 10 YR 4/4.</p> <p>30-48 C matrix 10 YR 5/2; mottles N4/1, 10 YR 4/6, 10 YR 5/6; gleyed; SPL; few chalk stones.</p> <p>48-77 (H) C matrix 10 YR 5/3; mottles 10 YR 6/1, 10 YR 5/6; gleyed; SPL. 30% chalk sts.</p> <p>77-100+ (H) C matrix N6/; mottles 10 YR 5/6; gleyed; SPL.</p> <p>Wetness Class IV.</p>	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
145.	Gently undulating pasture/hay meadow	0-25 (H)CL/(M) C 10 YR 4/1; much organic matter. 25-80+ (H) C matrix 10 YR 5/2; mottles 10 YR 6/1, 10 YR 5/6. Wetness Class IV.	3b
146.	Level, pasture	0-20 (M) C 10 YR 3/2. 20-50 (H) C matrix 2.5 Y 5/2; mottles 10 YR 3/2, 10 YR 5/6; gleyed; SPL. 50-100+ (H) C as above plus more 10 YR 6/4.	
147.	Level, pasture	0-25 (H)CL/(M) C 10 YR 4/1; much organic matter. 25-90+ (H) C matrix 10 YR 5/2; mottles 10 YR 6/1, 10 YR 5/6; gleyed; SPL; occasional chalk fragments. Wetness Class IV.	3b
148.	Level, pasture	0-28 (H) CL/(M) C matrix 10 YR 3/2; mottles 10 YR 5/2; much organic 28-100 (H) C matrix 10 YR 5/2; mottles 10 YR 4/6; 10 YR 6/1; increasing pale and grey; few Mn concretions; gleyed; SPL. Wetness Class IV.	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
149.	Level, pasture	0-23 (H) CL 10 YR 3/2. 23-70 (H) C matrix 2.5 Y 5/2; mottles 10 YR 5/6, 10 YR 3/2; gleyed; SPL. 70+ (H) CL 10 YR 6/1. Wetness Class IV.	3b
150.	Level, pasture	0-22 (L) C 10 YR 3/2; mottles 10 YR 5/2; much organic matter. 22-100+ (H) C matrix 2.5 Y 5/2; mottles 10 YR 6/6; gleyed; SPL; paler and greyer with depth. Wetness Class IV.	3b
151.	Level, pasture	0-25 (H) CL matrix 10 YR 3/1; mottles 10 YR 5/2; 5% calc. 25-50 (H) C matrix 10 YR 3/1; mottles 10 YR 5/2, 10 YR 5/6; 5% calc; gleyed; SPL. 50-80+ (H) C matrix 2.5 Y 5/2; mottles 10 YR 5/6; g gleyed; Wetness Class IV.	3b
152.	Uneven, permanent grass	0-25 HCL/C 10 YR 3/2. 25-40 C 2.5 Y 5/4; calc. 40-80+ C matrix 5 Y 5/2; mottles 5G 5/1 greenish gray, 10 YR 5/8. SPL. Wetness Class IV.	3b

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
153.	Permanent pasture	0-25 Organic HCL/C 10 YR 3/2; calc. 25-80 C/ZC; matrix 5Y 5/1; mottles 7.5 YR 4/6; gleyed; v calc; SPL. Wetness Class VV.	3b
154.	Level, cereals	0-30 (L) C matrix 10 YR 4/1; mottles 10 YR 5/2; 5% calc. 30-60 (H) C matrix 2.5 Y 6/2; mottles 10 YR 6/6; gleyed; 5% calc. 60-100+ (H) C matrix 5Y 6/1; mottles 10 YR 6/6; gleyed; chalky fragments. Wetness Class II.	3a
155.	Level, cereal	0-27 (L) C matrix 10 YR 4/2; mottles 10 YR 6/1; 5% calc. 27-65 (H) C matrix 2.5 Y 6/2; mottles 10 YR 7/8; gleyed. 65+ (H) C matrix 5 Y 6/1; paler and greyer with depth; gleyed. Wetness Class II.	3b
156.	Level, gentle falls, grass drainage may be difficult due to lack of falls	0-20 Organic (M) ZCL/(H) ZCL; 10 YR 3/2; calc; root mat. 20-30 C 2.5 Y 5/2. 30-80+ C matrix 5 Y 5/1; mottles 7.5 YR 5/8; v calc. Wetness Class II.	2

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
157.	Level, gentle falls. Grass	0-20 Organic (H) ZCL; calc. 20-50 SCL matrix 2.5 Y 5/2; mottles 2.5 Y 6/6, 10 YR 5/8; gleyed; calc; gritty/gravelly. 50-100 C matrix 5Y 5/2; mottles 10 YR 5/8; gleyed; gleyed; calc. Wetness Class II.	2
158.	Level, cereals	0-30 (H) CL/(M) C 10 YR 4/2. 30-65 (H) C matrix 2.5 Y 5/2; mottles 10 YR 5/6, 10 YR 5/2; gleyed; few chalky fragments and shells. 65-80 (H) CL matrix 10 YR 4/2; mottles 10 YR 6/1, 10 YR 5/6; gleyed; many chalky fragments; very gritty; wetter with depth. 80+ <i>Impermeable.</i> Wetness Class II.	3a
159.	Level, cereals	0-30 (H)CL/(M) C matrix 10 YR 4/1; mottles 10 YR 5/2. 30-55 (H) C matrix 10 YR 5/2; mottles 10 YR 5/6; gleyed; some chalky fragments. 55-100+ (L) C matrix 10 YR 8/2 white mottles 10 YR 6/1, 10 YR 5/6; gleyed. Wetness Class II.	3a

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
160.	Level; very gentle falls, permanent pasture. Drainage may be difficult	0-20 Organic C/HCL; calc. 20-45 C matrix 2.5 Y 5/2; occasional small ochreous mottles; gleyed calc. 45-80+ C matrix 2.5 Y 5/2; mottles 10 YR 5/8; gleyed. Wetness Class II.	2/3a
161.	Level, wheat	0-30 (H) CL 10 YR 3/2; 1% calc; few stones; much organic matter. 30-38 (H) CL/(M) C 10 YR 3/2; 1% calc; slightly stony 38-58 (H) CL(M) C 10 YR 4/2; slightly stony 2%. 58-85 C matrix 10 YR 5/2; mottles 7.5 YR 4/6; gleyed; gritty and many chalky fragments; calc 5-10%. 85+ Impenetrable chalk gravel. Wetness Class II.	3a
162.	Level, cereals	0-33 (L) C matrix 10 YR 4/2; mottles 10 YR 4/6, 10 YR 5/2; 5% calc; gleyed. 33-65 (H) C matrix 2.5 Y 6/2; mottles 10 YR 4/6, 10 YR 4/2; 5% calc; gleyed SPL. 65-80 (H) C matrix 10 YR 7/3; mottles 10 YR 6/6; 5% calc; gleyed; SPL.	



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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
163.	Level, wheat	80+ Impenetrable stones; wet and slushy.  Wetness Class IV.  0-26 (H) CL 10 YR 3/2.  26-70 (H) C matrix 10 YR 5/2; mottles 10 YR 5/6, 10 YR 5/1; gleyed; SPL.  70-90+ (M) C Increasingly ochreous with sandy patches; matrix 10 YR 5/1 mottles 10 YR 5/8.	3b
164.	Level, wheat	Wetness Class IV.  0-25 (H) CL 10 YR 3/2; few chalk stones; calc 0.5%.  25-50 (M) C Matrix 10 YR 4/2; mottles 7.5 YR 5/6, 10 YR 5/8; gleyed; very stoney 30-50%.  50-90+ (M) C Matrix 10 YR 4/2; mottles 7.5 YR 5/6, 10 YR 5/2; gleyed.	3b
165.	Level, wheat	Wetness Class II.  0-25 (M) C 10 YR 4/1; chalky fragments; 3% calc.  25-45 (H) C matrix 10 YR 4/2; mottles 10 YR 5/1, 10 YR 4/6; gleyed; many chalky fragments; stoney at 30 cm - few flints.	3a

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Boring/Pit No and Grid Ref.	Land Use and Relief	Soil Profile Description	ALC Grade
166.	Level, barley	45-95+ (H) C matrix 2.5 Y 6/2; mottles 10 YR 6/6; gleyed; few chalk fragments; not stoney.  Wetness Class II.	3a
167.	Level, wheat	0-25 (H) CL 10 YR 4/1; 3% stone on surface; 1% calc.  25-35 (H) CL/(M) C 10 YR 4/1.  35-65 (M)/(H) C matrix 10 YR 4/2; mottles 10 YR 5/2, 10 YR 6/6; gleyed; stony at 40 cm.  65+ Impenetrable stones.  Wetness Class II.	3a
		0-47 (H) CL 10 YR 3/2; Few chalk stones; 5% calc.  47-55 (H) CL 10 YR 4/1 with 10 YR 4/6 mottles; gleyed; few chalk stones; 5% calc.  55-80+ C Matrix 10 YR 4/1; mottles 7.5 YR 4/6; gleyed; few chalk stones; gritty; 1-5% calc.  Wetness Class I. Topsoil texture.	2