AGRICULTURAL LAND CLASSIFICATION (REVISION)

PROPOSED GLANFORD BUSINESS PARK SCUNTHORPE, HUMBERSIDE

MAFF Leeds Regional Office

September 1990 File Ref: 2FCS 4751 Project No: 8/90

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AGRICULTURAL LAND CLASSIFICATION REPORT FOR THE PROPOSED GLANFORD BUSINESS PARK, SCUNTHORPE, HUMBERSIDE.

SECTION 1: INTRODUCTION AND SITE CHARACTERISTICS

This report is a revision to that produced in March 1990. As a result of the planning application being subject to a local inquiry further survey work was carried out in September 1990 at the invitation of the landowner. In the light of this work the land grade in some small areas of the site has been changed. A revised agricultural land classification map is appended to this report.

1.1 LOCATION

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The site is located around national grid reference SE 868136, approximately 3 km north west of Scunthorpe Town centre. It covers 163.6 hectares, 93 per cent of which is in agricultural use.

1.2 SURVEY METHOD

Survey work was carried out in February 1990 when soils were examined by hand auger borings at 100 metre intervals pre-determined by the National Grid. Soil profile pits were also dug where necessary to assess stoniness, soil structural characteristics and gley morphology. In September 1990 a further 20 soil pits were examined together with a number of intermediate soil anger borings to refine grade boundaries.

All land quality assessments were made using the methods described in "Agricultural Land Classification of England and Wales: Revised Guidelines and Criteria for Grading the Quality of Agricultural Land" (MAFF 1988).

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1.3 LAND USE

All agricultural land on the site is in an arable use. At the time of survey winter cereals were the main arable crop. Sugar beet, potatoes, vining peas and field beans are also grown.

1.4 CLIMATE

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Average annual rainfall in the area is approximately 617 mm. Accumulated temperature above 0°, between January and June, is 1412 day °C and the land is at field capacity for about 134 days a year. There is thus no overall climatic restriction on ALC grade. Soil moisture deficits of 111 mm for winter wheat and 103 mm for potatoes indicate a moderate drought limitation for the sandy to very coarse loamy profiles that occur in isolated patches across the site and in the extreme north. The fine silty to clayey soils which predominate on the site are not significantly limited by drought.

1.5 RELIEF

The majority of the site is virtually level at a mean altitude of 2 metres above ordnance datum. It gently rises to 8 metres aod in the north east.

1.6 DRAINAGE

Ground water tables are kept low, even in winter, by a network of ditches feeding Lysaght's Drain. This runs east-west to a point north of Neap House (NGR SE 862134) where water is pumped to the River Trent.

Soil wetness problems on the site are chiefly influenced by slowly permeable subsoil horizons. Where present these create a slight to moderate wetness limitation which, depending on topsoil workability characteristics, can restrict ALC grade.

1.7 SOILS AND GEOLOGY

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Most soils have developed over artificially deposited river alluvium (warp) which forms a variable cover over underlying peat and sand.

Soils typically consist of stoneless fine silty topsoils over a clayey subsoil that passes into peaty textures at depth. Topsoils are slightly calcareous except in the north eastern quarter of the site where non-calcareous topsoils are the norm.

Where the alluvium is thin or absent, sand patches occur close to the surface. Soils developing over these deposits mainly consist of non calcareous coarse loamy to medium sandy topsoils over sand to depth. They tend to be stoneless, except near Stather Road where gravelly outwash gives rise to a small area of moderately stony subsoils.

SECTION 2: AGRICULTURAL LAND CLASSIFICATION GRADES

The ALC grades occurring on this site are as follows.

Grade	Hectares	Percentage of Total Site Area
1	10.9	6.5
2	94.2	57.5
3a	38.3	23.5
3Ъ	17.6	11.0
Farm Woodland	1.9	1
Farm Buildings	0.7	0.5
TOTAL	163.6	100%

Grade 1

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Grade 1 land occurs in three areas: the extreme east near Lysaght's Drain, around Neap House and to the south east of Neap House.

Soils in the extreme east have developed over thin calcareous warp and consist of medium silty clay loam topsoils and upper subsoils that pass into loamy peat and peat below about 60 cm depth.

The soils around Neap House have developed over thicker deposits and consist of non-calcareous medium silty clay loam or silty loam topsoils over similar subsoils to depth.

The small area to the south east of Neap House has silt loam or medium silty loam topsoil giving way to peat at 30-40 cm depth.

All of these soils fall within wetness class I. They are light to medium in texture, are easily worked for most of the year and have adequate reserves of available water during summer months. There are thus, no significant restrictions on ALC grade.

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Grade 2

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Grade 2 land is widespread throughout the site.

Soils adjacent to the River Trent consist of non-calcareous medium silty clay loam topsoils over heavy silty clay loam and silty clay which becomes gleyed and slowly permeable below 50 to 70 cm depth. Here, soil wetness and workability problems are the overriding restriction to ALC grade.

Elsewhere, profiles typically consist of calcareous heavy silty clay loam topsoils over heavy silty clay loam and silty clay which often pass into peat below 80 cm. These also fall within wetness class II and are similarly restricted by wetness and topsoil workability problems.

Subgrade 3A

The main area of subgrade 3a occurs in the west near Flixborough Parkings. Soils fall within wetness class II and consist of non-calcareous heavy silty clay loam topsoils over silty clay. Workability problems are more restricting than on the adjacent grade 2 land and thus forms the overriding restriction on ALC grade. The isolated area of subgrade 3A east of the centre of the site has calcareous heavy silty clay loams that just fall into wetness class III and therefore causes a workability limitation.

Remaining soils in this subgrade have a patchy distribution along the eastern and southern site boundaries where the warp tends to be superficial or absent. They chiefly consist of medium silty clay loam to sandy loam topsoils, about 30-40 cm thick over medium sand. These fall within wetness class I and are restricted to subgrade 3a by a moderate summer drought risk.

Subgrade 3B

Along the north eastern edge of the site and along a very slight ridge south of Lysaght's Drain soils consist of stoneless to slightly stony loamy medium sand passing into similar or slightly lighter textured subsoils. Soil droughtiness is moderately to severely limiting and forms the overriding restriction on ALC grade.

Remaining areas falling within this subgrade consist of silty clay topsoils over gleyed and slowly permeable silty clay. They fall within wetness classes III or IV and are limited by a combination of soil wetness and workability problems more severe than on adjacent 3a quality land.

Farm Woodland

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Approximately 1.9 hectares of farm woodland occurs at Willow Holt in the north east of the site.

Farm Buildings

This consists of general farm buildings at Flixborough Parkings.

Resource Planning Group Leeds Regional Office March 1990

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						-MOTTLI			PACK.						ORG.
SAMPLE	ALC	DEPTH	TEXTURE	COLOUR	COL	ABUND	CONT	STONY	DENSITY	COM PACTED	CaCO3	PSD	PORCSITY	pH	MATTER
001	3B	0-25 25-100	ms] ms	10YR43 75YR46					2		C				
002	3B	0-35 35-100	lms Ims	10YR43 75yr46							N				
003	3A	0-25 25-50 50-120	scl scl imstone	10YR44 75YR56 0							C C				
004	3A	0-30 30-50	mzcl fsl	10YR42 10YR43							C C				
005	38	0-35 35-100	lms ms	10YR43 75YR46							N				
006	3B	0-35 35-100	ZC ZC	10YR42 75YR42	G	C	D		H		N				
007	3B	0-25 25-90 90-100	hcl c ms	10YR42 10YR52 10YR62		C	D		H		N				
008	3B	0-30 30-60 60-100	lms lms ms	10YR43 75YR46 10YR62							C				
009	3A	0-30 30-35 35-100	msl]ms ms	10YR43 10YR43 75YR46							C				
010	3B	0-25 25-100	hc] c	10YR42 10YR52	0 Og	F C	F D		Ħ		C				
011	3A	0-40 40-60 60-100	hzcl c peat	10YR42 10YR52 5YR32	OG	C	D		Ħ		C				
012	2	0-40 40-60	hzcl hzcl	10YR42 10YR42	00	D	D				C C				
014	3B	0-40 40-100	ZC ZC	10YR42 10YR52	OF Og	F C	F D		H		N				
015	38	0-40 40-100	ZC ZC	10YR42 10YR52	OG	M	P		H		N				
016	2	0-55 55-100	hzc] zc	10YR42 N5	0	M	P				C				

						-NOTTLE	:s		PACK.					ORG.
SAMPLE	ALC	DEPTH	TEXTURE	COLOUR	COL	ABUND	CONT	STONY		COMPACTED	CaCO3	PSD POROSITY	рH	MATTER
017	2	0-40	hzcl	10YR42		-					C			
		40-120	hzcl	10YR41	0	F	D				C			
018	2	0-45	hzcl	10YR41	•	-					C			
		45-1,20	hzcl	10YR43	0	F	D				C			
019	2	0-45	hzcl	10YR42							C			
		45-65 65-120	ZC ZC	10YR52 10YR51	0	F	D				C C			
					-	·	-							
020	2	0-45 45-60	hzcl hzcl	10YR43 10YR32							C			
		60-120	ZC	10YR51	0	F	F							
021	NA	0-0	na	0							C			
022	NA	0-0	non.agri	ñ							C			
~~~	ал		avaralı i	v							v			
023	3B	0-30	lms	10YR43										
		30-120	ms	10YR68										
024	2	0-40	mzcl	10YR32							C			
		40-60	mzcl	10YR33	00	~	n							
		60-100	ZC	10YR52	ÛĞ	C	D							
025	3B	0-40	hzcl	10YR32							N			
		40-60	ZC	10YR51	0	C	D							
026	3A	0-35	hzcl	10YR32							N			
		35-50	hzcl	10YR33	0	F	F							
		50-70	ZC	10YR61	OG	M	P							
027	38	0-30	hzc]	10YR32							N			
		30-45	ZC	10YR51	0	C	P							
		45-80	ZC	10YR52	OG	C	P							
028	2	0-35	mzc]	10YR32										
		35-40	hzcl	10YR33										
		40-80	ZC	10YR52	OG	M	Ρ							
029	3A	0-45	hzcl	10YR32							C			
		45-120	hzc]	10YR41							C			
030	2	0-55	hzc1	10YR42							C			
		55-100	hzcl	10YR52	0	F	F				C			
031	2	0-40	hzc1	10YR43							C			
		40-100		10YR52	0	F	F							

						-MOTTLI	2		PACK.						ORG.
SAMPLE	ALC	DEPTH	TEXTURE	COLOUR				STONY		COMPACTED	CaCO3	PSD	POROSITY	рH	
032	3A	0-45 45-65 65-100	hzcl hzcl ms	10YR42 10YR52 10YR21	0	F	D		;		C				
033	NA	0-0	non.agri	0											
034	NA	0-0	non.agri	0											
035	NA	0-0	non.agri	0											
036	2	0-35 35-50 50-70	mzcl mzcl zc	10YR32 10YR33 10YR52	0 Og	F M	D P				C				
037	3A	0-35 35-40 40-70	mzcl hzcl zc	10YR32 10YR33 10YR51	0 Og	F M	D P				N				
038	38	0-30 30-100	hzcl zc	10YR32 10YR52	OG	М	Ρ				N				
039	3B	0-40 40-70	hzcl zc	10YR32 10YR52	OG	M	р				N				
040	3A	0-40 40-80 80-100	hzcl hzcl mzcl	10YR42 10YR52 10YR53	0 0	F F	F				C C				
041	2	0-40 40-100	hzcl mzcl	10YR43 10YR52	0	C	D				C				
042	1	0-30 30-35 35-46 46-60 60-80 80-100	mzcl msl zł csl mscl mscl	10YR33 10YR33 10YR31 75YR44 75YR44 5YR46	0	C	D				C S				
043	2	0-45 45-80 80-120	mzcl hzcl peat	10YR42 10YR51 5YR251	OG	F	F				C C N				
044	2	0-30 30-60 60-120	mzcl hzcl peat	10YR33 10YR33 5YR251		F	F				C C N				
045	1	0-30 30-55 55-75	mzcl hzcl mls	10YR33 10YR33 10YR31	0	G	F				C C N				
		75-120	ms	10YR46	0	F	F								

## COMPLETE LIST OF PROFILES 24/09/90 Glanford bnss prk Scunth

		DEDTI	TENTURE			-MOTTLE		87641V	PACK.						ORG.
SAMPLE	ALC	DEPTH	TEXTURE	COLOOK	GOL	ABUND	CUNT	STONY	DENSITY	COMPACTED	CaCO3	PSD	POROSITY	рн	MATTER
046	2A	0-80	ms]	10YR33					:						
		80-100	msc]	10YR54											
047	3A	0-30	ms]	10YR33											
		30-60	msl	75YR46	0	F	F								
		60-80	mscl	75YR54	0	C	D								
		80-100	mc l	5YR56	0	C	D								
048	2	0-40	MZC]	10YR32							N				
		40-60	mzc]	10YR54	0	F	D								
		60-75	mzcl	10YR52	0	C	D								
		75-100	ZC	10YR52	OG	C	D								
049	3B	0-35	hzcl	10YR32							N				
		35-40	hzcl	10YR42	0	C	D								
		40-80	ZC	10YR52	ÔG	Ċ	P								
050	38	0-30	hzcl	10YR32							N				
		30-100	ZC	10YR51	OG	C	D				N				
		100-120		5Y61	••	·	•								
051	2	0-40	hzcl	10YR32	0						N				
		40-80	hzcl	10YR33	Ō	F	D								
		80-100	zc	10YR52	-	М	P								
052	2	0-45	MZC]	10YR33							C				
	-	45-90	hzcl	10YR41	0	C	D				N				
		90-120	p	5YR251	·	•	·								
053	1	0-40	mzc]	10YR32							C				
	•	40-60	hzc]	75YR32	0	C	D				N				
		60-100	p	5YR251	•	•	-								
054	1	0-30		10YR33							C				
		30-50	z	10YR33	•	-	•				C				
		50-70	mzc1	10YR33	0	F	D				C				
		70-100	p	5YR251											
055	1	0-40	mzcl	10YR32							S				
		40-80	hzcl	10YR33	0	F	F				S S				
		80-100	p	5YR251											
056	1	0-40	mzc]	10YR33							S				
		40-60	zl	10YR43	0	C	D				S				
		60-100	p	5YR251											
057	3A	0-40	zl	10YR32							N				
		40-60	p	5YR251											
		60-100	lms	75YR42											

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SAMPLE	ALC	DEPTH	TEXTURE	COLOUR		-MOTTLI Abund		STONY	PACK. DENSITY	COMPACTED	CaCO3	PSD POROSITY	рH	ORG. MATTER
058	2	0-40 40-60 60-120	hzcl fszl pl	10YR32 10YR53 10YR21		F	D				C			
059	3A	0-50 50-65	ms] ms]	10YR32 75YR34	0	C	F							
060	2	0-40 40-75 75-100	zl mzcl zc	10YR33 10YR33 10YR41	OG O	C C	F P				N			
061	2	0-40 40-55 55-100	mzcl hzcl zc	10YR33 10YR43 10YR41	0 0	C M	D P				N			
062	3A	0-40 40-100	ZC ZC	10YR42 10YR52	OG	M	D		Ħ		C N			
063	2	0-40 40-70 70-100	mzcl c peat	10YR42 10YR52 5YR21	0	C	D				C C			
064	2	0-35 35-60 60-90 90-100	mzcl szl c peat	10YR42 10YR43 10YR53 5YR21	0 Og	C C	F D				C C C			
065	2	0-40 40-80 80-100	hzcl hzcl peat	10YR42 10YR43 5YR21	0	C	D				C C			
066	2	0-40 40-100	hzc] hzc]	10YR42 10YR43	0	C	D				C C			
067	3A	0-45 45-60 60-80	hzc1 zc zc	10YR32 10YR53 10YR52	0 0g	C	Ρ				C			
068	34	0-40 40-60 60-80	hzcl zc zc	10YR54 10YR54 10YR53	0 0G						C C			
069	2	0-40 40-50 50-70 70-120	hzcl zc lms ms	10YR32 10YR33 10YR31 10YR63	0	F	D				C			
070	1	0-50 50-80 80-120	mzcl lp ms	10YR32 10YR21 10YR61	-	·	-				C			

						-MOTTLI	ES		PACK.					ORG,
SAMPLE	ALC	DEPTH	TEXTURE	COLOUR				STONY		COMPACTED	CaCO3	PSD POROSITY	рH	
071	1	0-45	ms]	10YR31						1	N			
		45-80	msl	10YR31										
		80-120	pl	10YR21										
072	2	0-55	zl	10YR33							N			
		55-80	MZC ]	10YR41	0	C	D							
		80-100	hzcl	10YR41		M	D							
073	2	0-50	zl	10YR33	-		-				N			
		50-80	hzcl	10YR42	0	C	D							
		80-100	ZC	10YR42	0	C	P							
074	2	0-35	hzc1	10YR42							C C			
		35-60	hzcl	10YR43	0	C	F				Ç			
		60-100	G	N6	0	C	D							
075	2	0-40	hzcl	10YR42							C			
		40-65	ZC	10YR43	0	C	D				C C			
		65-100	C	N5	OG	C	D		H					
076	2	0-35	hzc1	10YR42							C			
		35-90	hzcl	10YR43	0	C	D				C C			
		90-100	peat	5YR21										
077	2	0-40	ZC	10YR42							C			
		40-90	ZC	10YR43	0	C	D				C C			
		90-100	peat	5YR21										
078	2	0-35	ZC	10YR42							C			
		35-100	ZC	10YR43	0	C	F				C			
079	3A	0-45	hzc1	10YR42							C			
		45-80	ZC	10YR42	0	C	D							
		80-100	p	5YR251										
080	3A	0-45	ZC	10YR42							C			
		45-60	hzcl	10YR42	0 0	C C	F D							
		60-90	ZC	10YR42	0	C	D							
		90-100	p	5YR251										
081	3A	0-45	hzcl	10YR33							C			
		45-75	ZC	10YR42	OG	C	F							
		75-100	۹S	10YR53										
082	2	0-45	hzcl	10YR33							C			
		45-60	zl	5YR251										
		60-80	MS	10YR54										
		80-100	ms	75YR56										

# COMPLETE LIST OF PROFILES 24/09/90 Glanford bnss prk Scunth

SAMPLE	ALC	DEPTH	TEXTURE	COLOUR		-MOTTLE ABUND		STONY	PACK. DENSITY	COMPACTED	CaCO3	PSD	POROSITY	рH	ORG. MATTER
			, and other	002001		1.54115	VVNT	<b>VIV</b> AI	020010	4410 104 ED	00000	1.00	10000111	hu	11611168
083	3A	0-55 55-70 70-100	ZC ZC P	10YR33 10YR42 5YR251	OG	C	F		:		S				
084	1	0-50 50-100	z] z]	10YR33 10YR43							N				
085	2	0-45 45-70 70-100	z] mzc] zc	10YR33 10YR52 10YR42	0 0	C M	D P				N				
086	3A	0-35 35-40	hzcl hzcl	10YR42 10YR43							C C				
		40-60	ZC	10YR53	OG	M	D		H		L.				
		60-100	n5	N5	0	M C	D		H H						
087	2	0-40	hzc1	10YR42							C				
		40-70	hzc]	10YR43							C C				
		70-100	C	10YR51	OG	C	D		Н						
088	2	0-35	hzc1	10YR42							С				
		35-70	hzcl	10YR43	0	C	D				C C				
		70-95	C	10YR51	0	М	D		H						
		95-100	peat	5YR21											
089	2	0-35	hzcl	10YR42							C				
		35-90	hzc1	10YR43	0	C C	D				C C C				
		90-100	₩ZC]	10YR53	0	C	f				C				
090	2	0-35	hzc1	10YR42							C				
		35-60	hzc1	10YR43	0	C	F				C C C				
		60-100	mzcl	10YR54	0	C	D				C				
091	2	0-35	mzc1	10YR33							C				
		35-90	hzc1	10YR31	0	F M	F D				C S S				
		90-120	ZĊ	10YR52	OG	М	D				S				
092	1	0-100	mzcl	10YR43					N		С				
093	2	0-50	hzc]	10YR32							C				
		50-60	hzcl	10YR33	0	F	D								
		60-120	p	5YR251											
094	2	0-50	hzc1	10YR33							s				
		50-65	hzcl	10YR33		F	F								
		65-100	p	100											
095	1	0-40	zl	10YR33							C				
		40-100	<b>z</b> ]	10YR44											

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SAMPLE	ALC	DEPTH	TEXTURE	COLOUR		-MOTTLI Abund		STONY	PACK. DENSITY	COMPACTED	CaCO3	PSD POROSITY	рH	ORG. MATTER
096	2	0-45 45-65 65-100	zl mzcl mzcl	10YR33 10YR44 10YR51	0	C	D				N			
097	2	0-30 30-65	mzc] hzcl	10YR42 10YR42	0	M	F				C			
098	2	0-30 30-60 60-90 90-120	mzc] mzc] hzc] zc	10YR42 10YR42 10YR43 10YR51	0 0 0G	F F C	F F D				C			
099	2	0-32 32-60 60-100 100-120	mzcl hzcl zc peat	10YR42 10YR43 10YR51 5YR251	O Og	F M	F D				Ċ			
100	2	0-30 30-45 45-80 80-100	mzcl mzcl zc P	10YR33 10YR42 10YR41 5YR251	0	C	P				C C N			
101	3B	0-30 30-60 60-120	lms cs cs	10YR31 75YR32 75YR46							N N N			
102	2	0-30 30-45 45-70 70-120	mzcl hzcl zc peat	10YR42 10YR43 10YR51 5YR251	OG	F C	F D				C N N			
103	2	0-60 60-80 80-100	mzcl hzcl p	10YR42 10yr52 Black	0	C	D		N		C C			
104	2	0-50 50-55 55-100	hzcl zc p	10YR42 10YR31 2.5Y40	0 0	F C	D D				C			
105	2	0-60 60-100	hzc] p	10YR42 2.5Y40							C			
106	1	0-35 35-75 75-100	ms) scl hzcl	10YR22 10YR32 10YR42	0	C	F				N			
107	1	0-60 60-100	mzc] P	10YR33 5yr251							C			

SAMPLE	ALC	DEPTH	TEXTURE	COLOUR		-MOTTLE Abund		STONY	PACK. DENSITY	COMPACTED	CaCO3	PSD POROSITY	рH	ORG. MATTER
108	1	0-50 50-80 80-100	mzcl hzcl p	10YR33 10YR33 5YR251	OG	F	F		;		S			
109	1	0-50 50-100	mzc] mzc]	10YR33 10YR44	OG	C	F				N			
110	1	0-40 40-80 80-100	mzc] hzc] mzc]	10YR33 10YR33 10YR41	0	F	D				S N N			
111	2	0-30 30-45 45-60 60-100	mzcl zl mzcl p	10YR33 10YR53 10YR41 5YR251	0 0	C C	D D				S C N			
112	3A	0-30 30-45 45-120	mzcl hzcl p	10YR32 10YR41 5YR251	0	C	D				S N			
113	3B	0-30 30-120	lms Ims	10YR33 10YR54	0	F	F				N N			
114	1	0-35 35-60 60-100	mzcl hzcl P	10YR32 10YR33 5YR251	0	F	D				C S			
115	2	0-60 60-80 80-100	mzcl hzcl P	10YR42 10yr43 10yr31	0 0	C C	D D				C C			
116	2	0-40 40-65 65-100	mzc] hzc] p	10YR42 10YR41 2.5Y40	0	F	D				C			
117	2	0-33 33-50 50-100	mzcl hzcl hcl	10YR32 10YR33 10YR54	0	F	D				C			
118	2	0-35 35-50 50-100	hzcl zc pt	10YR32 75YR32 75YR20	OG	C	D				С			
119	2	0-35 35-50 50-100	zc zc pt	10YR32 10YR53 25YR21	OG	C	D				C			
120	1	0-33 33-90 90-100	mzc] fsz] pt	10YR32 10YR54 25YR21	OG	C	D							

# COMPLETE LIST OF PROFILES 24/09/90 Glanford bnss prk Scunth

SAMPLE	ALC	DEPTH	TEXTURE	COLOUR		-MOTTLI Abund		STONY	PACK. DENSITY	COMPACTED	CaCO3	PSD	POROSITY	рH	ORG. MATTER
121	1	0-40 40-70 70-100	mzcl mzcl zl	10YR33 10YR43 10YR44	OG	C	D		:		N				
122	t	0-80 30-70 70-120	mzcl hzcl peat	10YR33 10YR43 5YR251	OG	М	D				S N N				
123	2	0-30 30-45 45-70 70-120	mzcl hzcl zc peat	10YR42 10YR42 10YR51 5YR251	0 0	F M	F D				N				
124	3A	0-30 30-40 40-65 65-120	mzc] hzc] zc pt	10YR42 10YR43 10YR41 5YR251	0 0g	F M	F D				N N				
125	3A	0-40 40-80 80-120	ms 1 ms ms	10YR33 10YR46 10YR64	R	F	D				N				
126	1	0-35 35-65 65-120	mzcl hzcl p	10YR33 10YR33 5YR251							C C				
127	3A	0-40 40-70 70-100	hzcl hzcl p	10YR42 10YR52 2.5Y50	0	C	D				C				
128	2	0-40 40-65 65-100	hzcl mzcl p	10YR42 10YR41 2.5Y40	0 0	F	D				C				
129	2	0-40 40-60 60-100	hzc] hzc] pt	10YR32 10YR53 75YR20	OG	C	D				C				
130	3A	0-38 38-100	ZC MS	10YR32 75YR68							C				
131	2	0-37 37-65 65-100	mzcl zc pt	10YR32 10YR52 75YR20	OG	C	D				C				
132	1	0-32 32-60 60-100	mzc] zc pt	10YR32 10YR33 75YR20	OG	C	D								

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SAMPLE	AL 0	DEPTH	TEXTURE	201 OUD		-MOTTLI		STONY	PACK.	COMBACTER	CaCO3	ne n	DODOCITY	- Nil	ORG.
OAMPLE	ALU	DELIU	IEAIURE	COLUUK	UUL	ASUNU	CONT	STUNT	DENGIN	COMPACTED	68603	Pau	POROSITY	рH	MATTER
133	2	0-55 55-65 65-100	mzcl c pl	10YR33 10YR42 5YR251	0	M	D		;		N				
		44 144	þ.	GINEGI											
134	1	0-38	mzc]	10YR33							N				
		38-90 90-100	pl p	5YR251 5YR251											
135	2	0-55 55-100	hzcl pl	10YR33 5yr251							N				
		00 100	μı I	J17201											
136	1	0-35	mzc1	10YR33							N				
		35-70 70-100	msl Ims	10YR34 10YR34											
			TAIQ	(VIX47											
137	2	0-35	zl	10YR34							C	•			
		35-80 80-100	lms ms	10YR34 10YR46											
		00-100	110	101740											
138	1	0-35	mzc1	10YR42							C				
		35-100	vfszl	10YR52	0	C	D								
139	1	0-40	mzcl	10YR42	0	C	D				C				
		40-100	vfszl	10YR52	0	C F									
140	3A	0-37	hzcl	10YR32							0				
140	JH.	37-65	7201 ZC	107R52	OG	C	D				C				
		65-100	1p	75YR20	••	•	•								
141	1	0-40	hzc1	10YR32							C				
171	I	40-45	20	10YR32							U U				
		45-60	hzc1	10YR42	OG	C	D								
		60-100	MS	10YR63											
		100-120	pt	75YR20	OG	C	D								
142	2	0-35	mzcl	10YR32							C				
		35-60	hzcl	10YR33											
		60-80	ZC	10YR52	OG	C	D								
		80-100	pt	75YR20											
143	3A	0-35	hzc1	10YR32							C				
		35-100	MS	10YR62											
144	3A	0-38	msl	10YR32							C				
		38-100	MS.	10YR73							•				
145	3A	0-45	hzcl	10YR33							N				
140	μų	45-75	ZC	107R33	OG	C	D				н				
		75-100	lp	5YR251	~~	¥	٣								

SAMPLE	ALC	DEPTH	TEXTURE	COLOUR		MOTTLE Abund		STONY	PACK. DENSITY	COMPACTED	CaCO3	PSD POROSITY	рH	ORG. MATTER
146	1	0-40 40-100	mzcl 1p	10YR33 5YR251					:		N			
147	2	0-45 45-100	hzcl ]p	10YR33 5YR251							N			
148	2	0-55 55-75 75-120	hzcl lp ms	10YR33 5YR251 10YR63							N			
149	3A	0-45 45-80 80-120	msi Ms Ms	10YR33 10YR46 10YR64	0	F	D				N			
150	2	0-40 40-65 65-100	mzcl hzcl p	10YR42 10YR52 2.5Y40	0 0	۶	F				C			
151	3A	0-40 40-55 55-100	hzcl hzcl P	10YR43 10YR52 2.5Y50	0	F	F				C			
153	3A	0-40 40-50 50-100	zc zc pt	10YR32 10YR52 75YR20	ZG	C	D				C			
154	2	0-40 40-60 60-100	hzcl zc pt	10YR32 10YR52 75YR20	0	C					C			
155	34	0-38 38-50 50-70 70-100	ms] ms] 1ms ms	10YR32 10YR33 10YR51 10YR52	0	C	D				C			
156	3A	0-35 35-55 55-100	hzcl zc p	10YR33 10YR42 5YR251	OG	C	D				N			
157	1	0-60 60-80 80-95 95-100	mzc1 msz1 ms ms	10YR33 10YR33 75YR44 10YR64	R	F	D				Ņ			
158	3A	0-40 40-120	ms] fs	10RY42 10YR68							N			
159	2	0-60 60-100	hzcl hzcl	10YR43 10YR41	0	F	F				C			

SAMPLE	ALC	DEPTH	TEXTURE	COLOUR		-MOTTLI Abund		STONY	PACK. DENSITY	COMPACTED	CaCO3	PSD	POROSITY	рH	ORG. MATTER
160	3A	0-33 33-120	mzc1 Ms	10YR42 10YR68					:		C			·	
161	3A	0-40 40-80 80-100	ms 1 Ms Ms	10YR32 10YR62 75YR66							N				
162	3A	0-30 30-45 45-60 60-100 100-120	nzcl nzcl peat ns ns	10YR42 10YR33 5YR251 5YR251 10YR22							C N N				
163	1	0-30 30-45 45-55 55-100	mzcl hzcl lp ms	10YR33 10YR33 5yR251 10YR64							S				
164	2	0-40 40-100	mzcl hzcl	10YR32 10YR52							C				
165	3Å	0-33 33-120	ms 1 Ms	10YR43 10YR68							N				
166	38	0-35 35-40 40-100	hcl zc zc	10YR33 10YR53 5GY51	0 0	F C	D P				N				
167 .	3B	0-32 32-70	ZC ZC	10YR33 75YR52	OG	M	P				N				
168	3B	0-32 32-40 40-60	C C C	10YR32 10YR52 75YR52	0 Og	C M	P								
169	38	0-35 35-48 48-80	hzc1 zc zc	10YR33 10YR51 25Y50	0 0	C C	P P				N				
170	3B	0-33 33-80	ZC ZC	10YR32 25Y50	0	C	P				N				
171	38	0-35 35-60	hzcl zc	10YR33 10YR52	0	C	D				N				
172	3B	0-35 35-80	hzc] zc	10YR33 25Y50	0	C	P				C				

## COMPLETE LIST OF PROFILES 24/09/90 Glanford bnss prk Scunth

SAMPLE	ALC	DEPTH	TEXTURE	COLOUR		- <b>Ho</b> ttli Abund		STONY	PACK. DENSITY	COMPACTED	CaCO3	PSD	POROSITY	рH	ORG. MATTER
173	1	0-40 40-60 60-120	mzcl zl hzcl	10YR33 10YR43 10YR33	0 0	F C	F				C				
174	3B	0-35 35-100	hzc1 zc	10YR33 25Y50	0	C	P				N				