The Great Grid Upgrade

North Humber to High Marnham

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North Humber to High Marnham

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1. Introduction

1.1 Background

1.1.1 This Agricultural Land Classification (ALC) Survey Report was prepared as part of the Environmental Statement (ES) to support an Agriculture and Soils assessment (**Application Document 6.13 Chapter 13 Agriculture and Soils**) submitted as part of the Development Consent Order (DCO) application for the North Humber to High Marnham Project (the 'Project').

1.1.2 This report presents the distribution of ALC grades within the Order Limits of the Project, providing baseline information and field survey data to inform the assessment of likely significant effects on agricultural land and soils, as detailed in **Application Document 6.13 Chapter 13 Agriculture and Soils**. In addition, this report has informed the development of **Application Document 7.5 Outline Soil Management Plan**.

1.1.3 The ALC surveys were undertaken between October 2025 and March 2026. Surveyed agricultural land covers 69% of the agricultural land within the Order Limits, with a total of 722 locations surveyed, as identified in Annex A Auger Bore Location and ALC Grade Distribution.

1.2 Policy and Guidance

1.2.1 The Guidance for assessing development proposals on agricultural land is provided by Natural England (Natural England, 2021) and states that:

'1.3 Town and Country Planning (Development Management Procedure (England) Order) (DMPO) 2015 - Planning authorities must consult Natural England on all non-agricultural applications that result in the loss of more than 20 hectares (ha) of BMV land if the land is not included in a development plan.' and;

'6.2 Carry out new surveys - If there's not enough information from previous data, you may need to have a new field survey to plan for development or to inform a planning decision. You should use soil scientists or experienced soil specialists to carry out new surveys.'

1.2.2 This 20 ha threshold functions as a trigger for statutory consultation on developments progressing under the Town and Country Planning consenting regime. While this does not apply directly to Nationally Significant Infrastructure Projects (NSIPs) consented under the Planning Act 2008 (HM Government, 2008) procedures, the 20 ha threshold is commonly applied in the assessment of NSIPs as it: reflects Natural England's role as a statutory consultee; and provides a proportionate benchmark for determining the level of assessment, survey effort and consultation required in relation to effects on BMV land.

1.2.3 The ALC surveys and assessment were undertaken by competent soil scientists who have the competencies as set out in Professional Competency in Soil Science No. 2 – Agricultural Land Classification – England and Wales (British Society of Soil Science, 2018). This states that:

'Professional soil scientists with competence in Agricultural Land Classification will have graduated in a relevant science subject. They will also have a number of years of relevant field experience and will have, or be adequately qualified for, membership of a relevant professional body such as the British Society of Soil Science (BSSS).'

1.2.4 The revised ALC guidelines (Defra & Welsh Government, 2025) grade agricultural land in England and Wales into 6 grades (1, 2, 3a, 3b, 4 and 5) with Grades 1, 2 and 3a classified as the BMV land.

1.2.5 A description of each grade from the ALC guidelines is set out below:

Grade 1 - Excellent Quality Agricultural Land

- Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

Grade 2 - Very Good Quality Agricultural Land

- Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

Grade 3 – Good to Moderate Quality Agricultural Land

- Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown the yields are generally lower or more variable than on land in Grades 1 and 2.

Subgrade 3a - Good Quality Agricultural Land

- Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

Subgrade 3b - Moderate Quality Agricultural Land

- Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

Grade 4 – Poor Quality Agricultural Land

- Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high, but there may be difficulties in utilisation. The grade also includes very droughty arable land.

Grade 5 - Very Poor-Quality Agricultural Land

- Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

2. Survey and Assessment Approach and Methodology

2.1 Approach

2.1.1 The ALC grading of land within the Order Limits was undertaken using a combination of field survey data and desk-based review. Where field survey was not possible, the Predictive ALC Map for England (Defra, 2026) was used to provide indicative ALC information for unsurveyed areas. The resulting ALC grade distribution across the Order Limits is shown in Annex A Auger Bore Location and ALC Grade Distribution.

2.1.2 A preliminary desk study was conducted of the following to gather baseline information for the Project:

- Land use;
- Geology (British Geological Survey, 2025);
- Provisional ALC grades (Department for Environment, Food and Rural Affairs, 2025);
- Previous detailed ALC survey (Department for Environment, Food and Rural Affairs, 2025);
- National Soil Mapping (and detailed data where available) (Cranfield University, 2026);
- Predictive ALC Mapping for England (Defra, 2026);
- Flood risk (Environment Agency, 2026); and
- Climatological data (Meteorological Office, 1989).

2.1.3 The baseline information collected from the desk study is presented in section 3.

2.2 ALC Survey Methodology

2.2.1 The ALC survey and assessment was undertaken in accordance with:

- Soil Survey Field Handbook (Hodgson, 2022);
- ALC Guidelines (Defra & Welsh Government, 2025); and
- Meteorological Office Climatological Data (Meteorological Office, 1989).

2.2.2 The survey was conducted at 100 m intervals along the proposed central overhead line alignment and at a density of a 100 m grid in wider areas (construction compounds, planting areas etc.). Surveys were conducted where land access permitted, and where the condition of the soil and land were suitable for assessment and survey (e.g., very dry ground can prevent the full depth of the soil profile being exposed). The survey density meets the requirements of one auger bore examination per hectare, as detailed in the ALC guidelines (Defra & Welsh Government, 2025).

2.2.3 A total of 1080 auger bores and 16 soil pits (see Annex A Auger Bore Location and ALC Grade Distribution) were plotted in ArcGIS Pro prior to the survey and were accessed using the FieldMaps application on portable tablets for the surveyors to locate the auger bores in the field.

2.2.4 The survey examined 722 soil profiles through the use of a hand auger and 11 soil pits/profiles.

2.2.5 Soil profiles were examined up to a depth of 120 cm using a 5 cm insulated Dutch soil auger, or to a maximum depth of 100 cm for soil pits using an insulated spade.

2.2.6 The following soil properties and site conditions were examined, observed and recorded:

- Soil texture;
- Horizon depth;
- Stoniness content (type, size, and % presence);
- Carbonate content;
- Matrix colour;
- Mottles (presence, size, colour and % presence);
- Soil structure (assessed as part of soil pit examination);
- Land use; and
- Slope.

2.2.7 10% hydrochloric acid was used to determine the presence and quantity of carbonate in the soil.

2.2.8 A Munsell Soil Colour Chart (Munsell, 2022) was used to describe soil matrix and mottle colours.

2.2.9 A number of soil samples were collected during the surveys and sent to NRM Laboratory (UKAS Accredited) for particle size distribution analysis to confirm the soil hand-texturing undertaken as part of the surveys (Annex C Laboratory Results).

2.2.10 A Cable Avoidance Tool and Generator (CAT and Genny) was used to scan each auger bore location and soil pit prior to breaking ground to ensure buried services were avoided.

2.2.11 Soils from each auger bore and soil pit were reinstated immediately following examination and description.

2.2.12 The observed and recorded soil data from the field surveys were collated, analysed and used to determine the following limitations to ALC Grades:

- Climatic limitations
- Site limitations
  - Gradient
  - Microrelief
  - Flooding

- Soil limitations
  - Texture and structure
  - Depth
  - Stoniness
  - Chemical
- Interactive limitations
  - Soil wetness
  - Soil droughtiness
  - Erosion

2.2.13 Based on the most limiting factor, the final ALC Grades and their distribution were subsequently determined and mapped.

2.2.14 Where ALC surveys were not possible due to access constraints or other survey limitations, a desk-based assessment was undertaken using the Predictive ALC Map for England (Defra, 2026). Any areas that remain unsurveyed at the time of submitting the DCO application will be subject to pre-construction surveys, which will record site-specific soil conditions and inform the preparation of detailed Soil Management Plan(s).

2.3 Predictive ALC Mapping

2.3.1 ALC survey coverage was not achieved across all agricultural land within the Order Limits due to access constraints and other limitations on survey suitability at the time of fieldwork. To provide a complete baseline for the assessment, unsurveyed areas were reviewed using the Predictive Agricultural Land Classification Map for England (Defra, 2026).

2.3.2 The Predictive ALC Map for England (Defra, 2026) is a national-scale, desk-based predictive dataset developed in accordance with the ALC guidelines (Defra & Welsh Government, 2025). It provides indicative mapping of likely ALC grades using the best available spatial soil, climate and site data.

2.3.3 The Predictive ALC Map for England (Defra, 2026) is produced on a 50 m grid, with the final ALC grade for each grid square determined on the basis of the most limiting factor[1] (Hannam, Keay, Mukherjee, Holden, & Liyana Arachchige, 2025). The mapping is intended for strategic and indicative purposes and provides a consistent national view of agricultural land quality across England.

2.3.4 For the purposes of this assessment, the predictive mapping has been used only to inform the likely classification of land in areas where field surveys could not be undertaken. The predictive mapping considered relevant available desk-based information, including published soil mapping, geology, topography, flood risk and climatic data, to support a proportionate understanding of ALC grade distribution.

[1] Limiting factors relate to physical or chemical characteristics which impose long-term limitations on agricultural use. The limitations can operate in one or more of four principal ways: they may affect the range of crops which can be grown, the level of yield, the consistency of yield and the cost of obtaining it. The classification system gives considerable weight to flexibility of cropping, whether actual or potential, but the ability of some land to produce consistently high yields of a somewhat narrower range of crops is also taken into account.

2.3.5 The Predictive ALC Map for England (Defra, 2026) is indicative in nature and does not provide the same level of confidence as a detailed site-specific survey. In line with available guidance, the predictive grades have not been treated as a replacement for field-based ALC surveys. Its use within this report is therefore limited to gap-filling unsurveyed areas for the purposes of the assessment.

3. Baseline Information

3.1 Introduction

3.1.1 The Project has been broken down into six Route Sections; these are described below and presented in **Application Document 6.13.F1 Figure 13.1 Agriculture and Soils Study Area**:

- Section A: between the Birkhill Wood Substation and the River Ouse;
- Section B: between the River Ouse and Crowle;
- Section C: between Crowle and North Moor (M180);
- Section D: between North Moor (M180) and the River Idle;
- Section E: between the River Idle and Darlton; and
- Section F: between Darlton to the High Marnham Substation.

3.1.2 The following summarises the baseline information collated as part of the desk study undertaken prior to the field survey. The information and results are reported with reference to the Route Section in which they are located.

3.2 Land Use

3.2.1 Land within the Order Limits is predominantly agricultural in character, comprising mainly arable land with some areas of grassland. In addition, a variety of other land uses are present within and adjacent to the Order Limits, including areas of willow biomass production, turf cultivation, quarrying, golf courses, transport infrastructure, farmsteads, woodlands, watercourses and other developed or managed land.

3.3 Topography

3.3.1 Topography is variable, reflecting the differing areas of landscape character across the Order Limits. In general, lower lying and relatively level land is associated with floodplains, estuarine margins and other drained lowland areas, while more undulating or locally sloping land occurs elsewhere. These variations in landform influence drainage, soil conditions and, in places, agricultural land quality.

3.4 Geology

3.4.1 The solid geology underlying Route Section A is described as predominately comprising Burnham Chalk Formation, sedimentary bedrock formed between 93.9 and 83.6 million years ago during the Cretaceous period. Much of the remaining area associated with Route Sections B to F is described as being underlain with Mercia Mudstone Group, sedimentary bedrock formed between 252.2 and 201.3 million years ago during the Triassic period (British Geological Survey, 2025).

3.4.2 Within Route Section A, west of Hull and north of the Humber Estuary, superficial deposits are present comprising alluvial and till deposits. South of the Humber Estuary in Route Sections B to F, extensive areas of alluvium and warp silt and clay are present within the floodplains of the River Trent and its tributaries (British Geological Survey, 2025).

3.5 Provisional ALC

3.5.1 Provisional ALC mapping, shown on **Application Document 6.13.F2 Figure 13.2 Provisional Agricultural Land Classification Mapping**, shows that the Order Limits comprises predominantly Grade 2 and Grade 3 land, with a few small areas of Grade 1 land recorded within Route Sections B to D, primarily following the banks of the River Ouse, the River Trent, and the Warping Drain (Department for Environment, Food and Rural Affairs, 2025). The exact locations of the Provisional Grade 1 land are:

- Route Section B: between pylons 4AF78 and 4AF79;
- Route Section C: between the Sheffield and Yorkshire Navigation and A18 Highway; and
- Route Section D: between pylons 4AF160 and 4AF165.

3.5.2 This mapping, at a scale of 1:250,000, does not distinguish between Grades 3a and 3b (and cannot be used to inform site-specific assessments) but provides an indication of the likely land classification.

3.5.3 The Provisional ALC mapping available indicates that a large proportion of the Order Limits may comprise BMV land. Nationally, 65.1 percent of land in England (Ministry of Agriculture, Fisheries and Food and ADAS, 1983) is provisionally graded as Grades 1, 2 and 3 (not distinguishing between Grades 3a and 3b), and therefore likely to comprise BMV land.

3.6 Predictive ALC

3.6.1 In addition to the Provisional ALC mapping, reference has also been made to the Predictive ALC Map for England (Defra, 2026), a national-scale desk-based dataset developed in accordance with the ALC Guidelines (Defra & Welsh Government, 2025). The predictive mapping provides and indicative assessment of likely ALC grades using the best available spatial data and applies the most limiting factor to determine land grade.

3.6.2 The parameters taken into account include climate, soil depths, slope, soil wetness, droughtiness, stoniness and other relevant limitations, including flood risk, exposure, bare ground and microrelief where suitable datasets are available.

3.6.3 The predictive mapping correlates closely with the original provisional data, identifying the majority of the land within the Order Limits as Grade 2 and Grade 3a land north of the Ouse. It does however predict greater areas of Grade 1 land within Route Sections B, C, and D (between the southern banks of the River Ouse and Misterton).

3.7 Previous Detailed ALC Survey

3.7.1 Small areas of detailed ALC mapping are available for areas of agricultural land near to the Order Limits (**Application Document 6.13.F3 Figure 13.3 Detailed Agricultural Land Classification Map (Post-1988)**). Outside the northern end of the Order Limits there are areas of Grades 2, 3a and 3b land mapped from surveys conducted at Spring Park Golf Course, Cottingham in 1989. Small areas of Grades 2, 3a and 3b are also recorded near Gilberdyke as surveys conducted in 1992.

3.7.2 For areas of land in proximity to the study area near Crowle, surveys conducted between 1992-1995 identified and mapped further areas of Grades 2, 3a and 3b. This information indicates the presence of BMV land in the landscape surrounding the Order Limits and thus the likelihood that BMV land will be present within the Order Limits.

3.8 Soils

3.8.1 A total of 20 Soil Associations are recorded in the National Soils Map (Cranfield University, 2026). A Soil Association is a group of soils that are recorded as occurring together and are characteristic of a geographic region, they occur together in the landscape typically due to common parent materials, landforms and environmental conditions. The soil distribution is summarised and presented in Table 3.1 and **Application Document 6.13.F6 Figure 13.6 National Soils Map**.

Table 3.1 – Soil Association Distribution

Route Section						
Soil Association	**A**	**B**	**C**	**D**	**E**	**F**
Holderness	X					
Burlingham 2	X					
Hunstanton	X					
Panholes	X					
Andover 1	X					
Landbeach	X					
Aberford	X					
Newchurch 2	X					
Foggathorpe 2	X					
Blacktoft	X		X			
Romney		X	X	X	X	
Blackwood			X	X	X	
Brockhurst 2			X	X	X	

Route Section Soil Association	A	B	C	D	E	F
Newport 1				X		
Worcester				X	X	X
Whimple 3					X	X
Willingham					X	
Isleham 2					X	
Downholland 2					X	
Compton					X	X

3.8.2 The published description of each Soil Association is as follows:

- Aberford: Shallow, locally brashy, well drained calcareous fine loamy soils over limestone. Parent material: Permian, Jurassic, and Eocene limestone.
- Andover 1: Shallow well drained calcareous silty soils over chalk on slopes and crests. Deep calcareous and non-calcareous fine silty soils in valley bottoms. Striped soil patterns locally. Parent material: chalk.
- Blackwood: Deep permeable sandy and coarse loamy soils. Parent material: Glaciofluvial drift.
- Blacktoft: Deep stoneless permeable calcareous fine and course silty soils. Some calcareous clayey soils. Groundwater controlled by ditches and pumps. Flat land. Parent material: marine alluvium.
- Brockhurst 2: Slowly permeable seasonally waterlogged reddish fine loamy over clayey and clayey soils. Some reddish clayey alluvial soils affected by groundwater. Parent material: Permo-Triassic reddish mudstone and alluvium.
- Burlingham 2: Deep fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging. Some slowly permeable seasonally waterlogged fine loamy soils. Some well drained fine and coarse loamy soils. Parent material: chalky till.
- Compton: Seasonally wet deep stoneless mostly reddish clayey soils affected by groundwater. Parent material: Reddish river alluvium.
- Downholland 2: Deep, stoneless clayey or calcareous silty soils, mainly with a humose surface horizon. Parent material: Marine alluvium.
- Foggathorpe 2: Slowly permeable seasonally waterlogged stoneless clayey and fine loamy over clayey soils. Parent material: Glaciolacustrine clay.
- Holderness: Slowly permeable seasonally waterlogged fine loamy soils and similar soils with only slight waterlogging. Some narrow strips of clayey alluvial soils. Parent material: chalky till.
- Hunstanton: Deep well drained often reddish fine loamy and course loamy soils. Some similar calcareous soils over chalk. Parent material: Till and glaciofluvial drift over chalk.

- Isleham 2: Deep permeable sandy and peaty soils affected by groundwater. Parent materials: Glaciofluvial drift and peat.
- Landbeach: Permeable calcareous coarse loamy soils affected by groundwater over chalky gravel. Parent material: Glaciofluvial sand and gravel.
- Newchurch 2: Deep stoneless mainly calcareous clayey soils. Groundwater controlled by ditches and pumps. Flat land. Risk of flooding in places. Parent material: marine alluvium.
- Newport 1: Deep well drained sandy and coarse loamy soils. Parent material: Glaciofluvial drift.
- Panholes: Well drained calcareous fine silty soils over chalk. Associated similar shallow soils and deeper non-calcareous fine silty soils. Parent material: chalk.
- Romney: Deep stoneless permeable calcareous course and fine silty soils. Flat land. Groundwater controlled by ditches and pumps. Parent material: marine alluvium.
- Whimple 3: Reddish fine loamy or fine silty over clayey soils with slowly permeable subsoils and slight seasonal waterlogging. Some similar clayey soils on brows. Slowly permeable seasonally waterlogged fine loamy and fine silty over clayey soils on lower slopes. Parent material: Drift over Permo-Triassic and Carboniferous reddish mudstone.
- Willingham: Extremely calcareous silty and clayey soils, in places humose, and often over peat. Parent material: Lake marl tufa and peat.
- Worcester: Slowly permeable non-calcareous and calcareous reddish clayey soils over mudstone, shallow on steeper slopes. Associated with similar noncalcareous fine loamy over clayey soils. Slight risk of water erosion. Parent material: Permo-Triassic reddish mudstone.

3.9 Flooding

3.9.1 Flood risk is an important consideration in ALC grading. The frequency and extent of flooding can act as a limitation on agricultural land quality, influencing the range of crops that can be grown reliably.

3.9.2 Flood Zone mapping (Environment Agency, 2026) identifies land with different probabilities of flooding from rivers or the sea:

- Flood Zone 2 identifies land with a medium probability of flooding, defined as land having between 0.1% and 1% annual probability of river flooding, or between 0.1% and 0.5% annual probability of sea flooding.
- Flood Zone 3 identifies land with a high probability of flooding, defined as land having a 1% or greater annual probability of river flooding, or a 0.5% or greater annual probability of sea flooding.

3.9.3 While these categories are a useful indicator of potential flood-related limitation, they do not in themselves determine ALC grade.

3.9.4 Large parts of the Order Limits fall within, or are adjacent to, areas classified as Flood Zone 3, the distribution of which is summarised below:

- Route Section A: the southern half between the A613 and the River Ouse are in Flood Zone 3;
- Route Section B: all in Flood Zone 3;
- Route Section C: all in Flood Zone 3;
- Route Section D: large sections bordering on areas of Flood Zone 3;
- Route Section E: majority of this Route Section is outside of any Flood Zone area;
- Route Section F: majority of this Route Section is outside of any recorded Flood Zone area; however, areas of Flood Zone 3 are noted following the route of Fledborough Beck.

3.10 Climatological Data

3.10.1 Climatological data from the Met Office (Meteorological Office, 1989) was consulted to gather the following climatological parameters for land within the Order Limits:

- Altitude;
- Average Annual Rainfall (AAR);
- Accumulated Temperature (AT0) (day degrees);
- Moisture deficit for wheat (mm);
- Moisture deficit for potatoes (mm); and
- Field Capacity Days (FCD)[2].

3.10.2 Table 3.2 provides an overview of the climatological data across the Order Limits, by Route Section. These parameters and their corresponding values were used to determine soil wetness class, calculate moisture balances to assess droughtiness class, and to determine climate grade.

[2] Field Capacity Days (FCD) is a meteorological parameter which estimates the duration of the period when the soil moisture deficit is zero.

Table 3.2 – Climatological Data

British National Grid Reference[3]	Route Section	Altitude (m)	AAR (mm)	AT0 (day degrees)	Moisture deficit for wheat (mm)	Moisture deficit for potatoes (mm)	FCD (days)	Climate Grade
TA024351	A	33.36	678.19	1362.39	102.66	92.96	153.62	1
TA003341		72.12	701.10	1319.54	96.56	84.80	158.75	1
SE988325		84.66	693.28	1306.57	96.58	84.60	157.11	2
SE965317		114.51	694.17	1273.51	95.83	82.99	158.45	2
SE943310		134.02	694.67	1252.23	96.11	82.85	157.99	2
SE928292		22.22	648.94	1380.67	110.77	102.66	147.10	1
SE902286		2.89	634.27	1402.90	112.55	105.74	141.96	1
SE880276		1.82	611.97	1405.41	116.45	110.26	134.18	1
SE857264		1.80	602.04	1406.81	121.60	116.25	128.17	1
SE835252		3.32	601.48	1405.67	121.13	115.66	126.83	1
SE824232	B	3.52	612.46	1406.80	118.23	112.40	128.83	1
SE827219		1.46	615.98	1409.59	118.45	112.86	129.95	1
SE831207		1.28	618.19	1410.04	117.52	111.89	130.92	1
SE835194		1.11	619.68	1410.78	116.08	110.25	132.14	1
SE839181		3.12	619.86	1408.92	115.41	109.35	132.71	1
SE843168		1.25	619.59	1411.74	114.18	107.76	134.14	1
SE838156		2.48	619.88	1410.65	113.24	106.55	134.93	1
SE826151		2.84	617.15	1410.45	115.06	108.74	132.99	1
SE814145		1.29	609.27	1413.16	116.05	109.86	130.21	1
SE801140		1.13	608.64	1413.38	116.78	110.76	129.78	1
SE798133	C	2.25	604.41	1412.67	116.84	110.88	128.21	1
SE797129		1.24	601.43	1414.14	116.60	110.61	127.34	1
SE797125		2.34	598.96	1413.16	115.94	109.78	126.55	1
SE796120		1.83	595.35	1414.07	115.28	108.96	125.54	1

[3] There are 10 British National Grid Reference points provided for each Route Section, these have been assessed to provide a spatial overview of the Route Section and correlate to proposed auger locations identified for the ALC assessment.

British National Grid Reference[3]	Route Section	Altitude (m)	AAR (mm)	AT0 (day degrees)	Moisture deficit for wheat (mm)	Moisture deficit for potatoes (mm)	FCD (days)	Climate Grade
SE796116		1.49	592.81	1414.64	114.71	108.24	124.87	1
SE796112		2.15	591.26	1414.01	114.08	107.42	124.43	1
SE795107		1.63	589.57	1414.68	113.71	106.94	124.03	1
SE795102		2.14	589.21	1414.12	113.40	106.53	123.91	1
SE795097		0.87	587.93	1415.66	113.46	106.63	123.61	1
SE795093		1.62	588.13	1414.93	113.35	106.52	123.53	1
SE799084		1.57	587.24	1415.48	113.31	106.56	122.93	1
SE803070		10.60	595.88	1405.80	111.09	103.75	123.96	1
SE806054		2.63	587.76	1415.72	112.46	105.62	121.84	1
SE804039		1.43	586.25	1417.35	112.62	105.87	121.58	1
SE801025	D	24.93	605.43	1391.32	108.80	100.89	124.23	1
SE797010		15.56	595.66	1403.19	110.70	103.34	121.67	1
SK794996		8.37	590.46	1411.59	111.89	104.89	120.84	1
SK787982		2.45	582.86	1419.50	113.62	107.31	118.14	1
SK775972		2.13	579.56	1420.88	114.25	108.21	115.97	1
SK761968		2.18	576.07	1421.57	114.44	108.47	113.67	1
SK750953		3.54	574.74	1421.10	114.68	108.58	111.12	1
SK743928		5.22	573.57	1420.09	115.14	108.73	110.85	1
SK754905		47.06	575.23	1373.26	112.16	104.26	111.32	1
SK766883		30.90	577.00	1392.01	113.31	106.13	112.60	1
SK777860	E	11.84	575.32	1414.37	114.98	108.65	113.00	1
SK775838		18.40	569.71	1408.04	115.06	108.61	111.51	1
SK765817		41.16	565.64	1383.23	113.72	106.64	110.06	1
SK772796		27.49	566.04	1399.77	115.75	109.38	110.02	1
SK767770		28.61	571.39	1399.57	115.44	109.34	110.61	1
SK773746		20.92	573.23	1409.63	115.95	110.37	111.21	1

British National Grid Reference[3]	Route Section	Altitude (m)	AAR (mm)	AT0 (day degrees)	Moisture deficit for wheat (mm)	Moisture deficit for potatoes (mm)	FCD (days)	Climate Grade
SK783736	F	16.15	569.53	1414.99	116.35	110.99	110.73	1
SK783732		11.50	568.47	1420.49	116.93	111.74	110.79	1
SK784728		9.21	567.96	1423.30	117.21	112.10	110.92	1
SK786725		8.93	567.98	1423.75	117.24	112.15	111.06	1
SK789720		9.23	568.40	1423.65	117.21	112.15	111.36	1
SK790718		13.49	570.26	1418.89	116.67	111.44	111.72	1
SK792714		19.28	572.84	1412.46	115.94	110.51	112.24	1
SK794711		19.16	572.86	1412.71	115.99	110.61	112.32	1
SK797709		18.66	572.65	1413.33	116.09	110.76	112.33	1
SK801708		10.45	569.26	1422.59	117.11	112.13	111.74	1

4. ALC Assessment

4.1 Climatic Limitations

4.1.1 Prior to the commencement of the field survey, the climatic data from Table 3.2 were analysed to assess potential limitations to land grade based on the climate parameters. The analysis concluded that across the majority of the Order Limits climate was not a limiting factor and, in the absence of any other limitation, the land would be classified as Grade 1.

4.1.2 There is a small area within Route Section A (67 locations between augers 39 and 117) where the climatic grade, in the absence of any other limitations, would classify the land as Grade 2. These areas are noted of being at higher altitude and thus affecting their overall climatic grade.

4.2 Site Limitations

Topography

4.2.1 Field surveys confirmed that the topography of agricultural land within the Order Limits is predominantly level (0-1 degrees) with gently sloping (2-3 degrees) land in places and moderately (4-7 degrees) sloping land present occasionally.

4.2.2 Small areas of strongly sloping (8-11 degrees), moderately steeply sloping (12-15 degrees) and steeply sloping (16-25 degrees) were recorded with Route Section A. Of these, 10 auger locations were recorded with slope as a contributing major limiting factor.

Flooding

4.2.3 While Flood Zone mapping provides an important strategic indication of the probability of flooding, it has not been assumed in this assessment that all land within Flood Zone 3 should automatically be limited to Subgrade 3b. Such an approach would represent a broad-brush assumption and, within the Order Limits, would result in extensive areas being classified as non-BMV on the basis of Flood Zone designation alone.

4.2.4 Within the ALC system, flooding is one of a number of site limitations considered in determining land grade. In addition, the influence of excess water on soil function and agricultural versatility is also reflected through the assessment of soil wetness, which takes account of factors such as gleying, the presence and depth of slowly permeable layers, and the relevant climatic regime. These factors are therefore already incorporated within ALC grading calculations rather than being inferred solely from mapped flood extent.

4.2.5 This is also consistent with the approach taken in the Predictive ALC Map for England (Defra, 2026) which applies the ALC framework using the best available spatial soil, climate and site datasets, including flooding-related information, and determines the final grade on the basis of the most limiting factor. The predictive mapping is strategic and indicative in nature, but it does provide a more nuanced assessment than the blanket application of a Flood Zone 3 threshold.

4.2.6 In addition, parts of the Order Limits in the Humber and Ouse corridor are influenced by tidal or estuarine flood processes. These conditions may differ materially from prolonged inland fluvial flooding in terms of frequency, duration and agricultural effect, and it would therefore be inappropriate to assume an equivalent degree of ALC limitation across all such areas solely on the basis of Flood Zone extent.

4.3 Soil Limitations

4.3.1 The surveys identified areas of the Order Limits, primarily within Route Section A, where soil depths were noted as being less than 60 cm and thus having the potential to present a limiting factor. Depth was recorded as being a major limiting factor in two instances, auger 88 and auger 115, limiting the point to Grade 3a and Grade 5 respectively.

4.3.2 Across Route Sections B to E, the topsoils mostly contain few hard stones (1-5%) with common stones (6-15%) in places and moderate stones (16-35%) occasionally noted. Areas of Route Sections A and F were recorded as having areas limited by stoniness, often in combination with a droughtiness limitation. In Route Section A this correlates with an area of the Order Limits recorded as shallow soils over stoney chalk bedrock. Route Section A also contains the only locations limited by a combination of stoniness and slope.

4.3.3 Auger locations 890-892 were recorded as having a loamy medium sand topsoil texture and as such were not eligible for Grade 1 (in the absence of any further limitations).

4.3.4 No chemical limitation on soil physical conditions, crop yield, or crop growth was observed from the field surveys.

4.3.5 Details regarding soil depths, stone content, and textures for each auger bore are provided in Annex A Auger Bore Location and ALC Grade.

4.4 Interactive Limitations

4.4.1 Gleying layers and slowly permeable layers (SPL) were most frequently observed on deep clay and clay loam profiles. The wetness class for these soils typically ranges from II to IV depending on the depths of the gleying layer and SPL. Details regarding gleying depth, wetness class, grade and SPL are provided in Annex A.

4.4.2 Moisture balance values for wheat and potato were calculated and are presented in Annex A.

4.5 Most Limiting Factors

4.5.1 Wetness and droughtiness were noted as being the most limiting factors for the agricultural land within the Order Limits, with wetness being the most dominant, followed by a combination of both wetness and droughtiness.

4.5.2 Full details regarding the limiting factors for each surveyed auger are detailed in Annex A, with an overview summary provided in Table 4.1.

Table 4.1 – Distribution of Limiting Factors

Limiting Factor Combination	Number of Surveyed Augers	Percentage of locations surveyed
Wetness	454	62.9%
Droughtiness	98	13.6%
Depth	1	0.1%
Wetness + Droughtiness	116	16.1%
Droughtiness + Stoniness	18	2.5%
Droughtiness + Depth	1	0.1%
Droughtiness + Texture	1	0.1%
Droughtiness + Slope	2	0.3%
Droughtiness + Stoniness + Slope	8	1.1%
No Limitations	23	3.2%
TOTAL	**722**	**100%**

5. ALC Grade Distribution

5.1.1 Table 5.1 summarises the resultant individual grades of the 722 surveyed auger bores for each Route Section.

Table 5.1 – Grade Distribution by Surveyed Auger Bore

Route Section	No. of Augers & Percentage (%)						Subtotal	
	1	2	3a	3b	4	5	BMV	Non-BMV
A	3 1.4%	17 8.0%	42 19.8%	130 61.3%	19 9.0%	1 0.5%	62 29.2%	150 70.8%
B	9 9.6%	38 40.4%	19 20.2%	28 29.8%	0 0.0%	0 0.0%	66 70.2%	28 29.8%
C	5 5.9%	22 25.9%	39 45.9%	16 18.8%	3 3.5%	0 0.0%	66 77.6%	19 22.4%
D	3 2.4%	19 15.4%	33 26.8%	67 54.5%	1 0.8%	0 0.0%	55 44.7%	68 55.3%
E	3 1.7%	71 40.3%	32 18.2%	70 39.8%	0 0.0%	0 0.0%	106 60.2%	70 39.8%
F	0 0.0%	26 81.3%	4 12.5%	2 6.3%	0 0.0%	0 0.0%	30 93.8%	2 6.2%
TOTAL	**23** **3.1%**	**193** **26.8%**	**169** **23.4%**	**313** **43.5%**	**23** **3.1%**	**1** **0.1%**	**385** **53.3%**	**337** **46.7%**

5.1.2 Table 5.2 summarises the areas and distribution of ALC grades across the Order Limits from mapping grade areas, including the inclusion of predictive mapping, as shown in **Application Document 6.13.F7 Figure 13.7 Detailed Agricultural Land Classification Survey Map**.

Table 5.2 – Grade Distribution by Area (ha)

Route Section	Grade Distribution (ha) & Percentage (%)						Subtotal	
	1	2	3a	3b	4	5	BMV	Non-BMV
A	13.04	36.07	165.74	197.58	16.32	0.17	52.00	214.85
B	153.01	43.94	20.68	39.54	0.00	0.00	19.33	217.64
C	22.00	29.38	40.56	9.63	0.00	0.00	19.34	91.93
D	41.24	39.05	67.05	90.09	0.00	0.00	14.80	147.35
E	4.34	89.86	213.82	104.08	0.00	0.00	12.99	308.02
F	0.00	35.19	35.42	4.82	0.00	0.00	2.03	70.60
TOTAL	**233.64 [14.31%]**	**273.49 [16.75%]**	**543.26 [33.27%]**	**445.73 [27.29%]**	**16.32 [1.00%]**	**0.17 [0.01%]**	**120.49 [7.38%]**	**1050.39 [64.32%]**

* 59.0 % of the total BMV land has been determined by Predictive ALC mapping

5.1.3 The ALC grades for each auger bore location are provided in Annex A.

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Annex A
Auger Bore Location and ALC Grade

nationalgrid

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
1	TA036354	15.476																												Not surveyed
2	TA035353	15.188																												Not surveyed
3	TA034353	15.317																												Not surveyed
4	TA033353	16.283																												Not surveyed
5	TA032352	18.104																												Not surveyed
6	TA031352	19.475																												Not surveyed
7	TA030352	21.373																												Not surveyed
8	TA029352	23.219																												Not surveyed
9	TA028352	24.683																												Not surveyed
10	TA027352	26.439																												Not surveyed
11	TA026351	29.326																												Not surveyed
12	TA025351	31.594																												Not surveyed
13	TA024351	33.364																												Not surveyed
14	TA023351	35.993																												Not surveyed
15	TA022351	38.180																												Not surveyed
16	TA021351	38.825																												Not surveyed
17	TA020351	41.880	0	29	hCL	10YR 3/3	10YR 3/3				Yes	29	non-calcareous	level	2	2	0	0	IV	3b	25.62	13.02	2	1	1	1	Wetness			3b
			29	120	C	2.5YR 4/2	2.5YR 4/2	40	very many						1	1	0	0												
18	TA019351	44.131	0	28	mCL	10YR 4/2	10YR 4/2				Yes	28	non-calcareous	level	2	2	1	0	IV	3b	24.79	12.54	2	1	1	1	Wetness			3b
			28	120	C	10YR 5/6	10YR 5/6	40	very many						2	2	0	0												
19	TA018351	47.032	0	29	mCL	10YR 4/2					Yes	29	non-calcareous	level	2	2	1	0	IV	3b	23.62	11.31	2	1	1	1	Wetness			3b
			29	120	C	10YR 5/6	10YR 5/8, Mn	40	very many						1	1	0	0												
20	TA017350	49.386	0	30	mCL	10YR 4/2					Yes	30	non-calcareous	level	2	2	1	0	IV	3b	33.80	21.65	1	1	1	1	Wetness			3b
			30	52	hCL	10YR 5/3	10YR 5/8, Mn	40	very many						1	1	0	0												
			52	120	C	10YR 5/3	10YR 5/8, Mn	40	very many						1	1	0	0												
21	TA017350	51.458	0	30	hCL	10YR 4/2					Yes	30	non-calcareous	level	2	2	1	0	IV	3b	54.30	27.41	1	1	1	1	Wetness			3b
			30	120	hCL	10YR 5/3	10YR 5/8, 10YR 5/1, Mn	40	very many						1	1	0	0												
22	TA016349	54.058	0	33	mCL	10YR 4/3					Yes	33	very slightly calcareous	level	2	2	1	2	IV	3b	28.93	16.99	2	1	1	1	Wetness			3b
			33	120	C	10YR 6/6	Mn, 10R 4/8	20	common						1	1	0	0												
23	TA015349	56.741	0	32	mCL	10YR 4/3					Yes	32	non-calcareous	level	2	2	2	0	IV	3b	54.40	25.39	1	1	1	1	Wetness			3b
			32	45	SCL	10YR 5/4	10YR 5/8	5	common						1	1	0	0												
			45	120	SCL	2.5YR 4/2	10YR 5/8, 10YR 5/1, Mn	20	common																						
24	TA014348	57.032	0	28	mCL	10YR 4/3					Yes	28	non-calcareous	level	2	2	2	0	IV	3b	50.88	23.57	1	1	1	1	Wetness			3b
			28	64	SCL	7.5Y4 6/4	Mn, 10R 4/8	30	many						2	2	0	1												
			64	120	hCL	7.5YR 5/4	Mn, 10R 4/8	20	common						2	2	0	1												
25	TA013348	58.750	0	32	mCL	10YR 3/3					Yes	32	non-calcareous	level	5	5	2	0	IV	3b	25.64	14.18	2	1	1	1	Wetness			3b
			32	50	hCL	10YR 4/6	10YR 5/8	5	common						2	2	2	0												
			50	120	C	5YR 4/4	10YR 5/1, Mn	20	common						2	2	2	0												
26	TA012347	60.637	0	28	mCL	10YR 4/3					Yes	28	non-calcareous	level	2	2	0	0	IV	3b	27.37	15.99	2	1	1	1	Wetness			3b
			28	38	SCL	7.5Y4 6/4	Mn	20	common						2	2	0	0												
			38	120	C	7.5YR 5/4	Mn, 10R 4/8	30	many						2	2	0	0												
27	TA011346	61.277	0	30	mCL	10YR 3/3					Yes	30	non-calcareous	level	2	2	2	0	IV	3b	22.77	13.03	2	1	1	1	Wetness			3b
			30	120	C	5YR 4/4	10YR 5/1, Mn	20	common						10	10	2	2												
28	TA011346	61.785	0	34	mCL	10YR 4/3					Yes	34	non-calcareous	level	2	2	2	0	IV	3b	30.38	18.95	1	1	1	1	Wetness			3b
			34	120	C	7.5Y4 6/4	Mn	30	many						2	2	2	2												
29	TA010345	62.105	0	35	mCL	10YR 3/3					Yes	35	non-calcareous	level	2	2	2	0	IV	3b	25.85	16.16	2	1	1	1	Wetness			3b
			35	120	C	5YR 4/4	10YR 5/1, Mn	20	common						10	10	2	2												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
30	TA009345	63.870	0	42	mCL	10YR 4/3					Yes	42	non-calcareous	level	2	2	2	0	III	3a	34.71	23.51	1	1	1	1	Wetness			3a
			42	120	C	7.5Y4 6/4	10YR 5/8, Mn	30	many						2	2	0	0												
31	TA008344	65.115	0	28	mCL	10YR 4/3					Yes	28	very slightly calcareous	level	2	2	2	0	IV	3b	28.04	16.90	2	1	1	1	Wetness			3b
			28	120	C	7.5Y4 5/4	Mn, 10R 4/8	20	common						2	2	0	0												
32	TA007344	66.294	0	34	mCL	10YR 3/3					Yes	34	non-calcareous	level	5	5	2	0	IV	3b	28.83	17.75	2	1	1	1	Wetness			3b
			34	40	hCL	10YR 4/6	10YR 5/8	5	common						2	2	2	0												
			40	120	C	5YR 4/4	10YR 5/1, Mn	20	common						2	2	2	0												
33	TA006343	68.231																												Not surveyed
34	TA006343	68.696																												Not surveyed
35	TA005342	69.286																												Not surveyed
36	TA004342	70.317																												Not surveyed
37	TA003341	72.118																												Not surveyed
38	TA002341	74.187																												Not surveyed
39	TA001340	76.606																												Not surveyed
40	TA000340	78.611																												Not surveyed
41	TA000339	80.207																												Not surveyed
42	SE999339	81.539																												Not surveyed
43	SE998338	82.301																												Not surveyed
44	SE998337	82.352																												Not surveyed
45	SE998336	81.094	0	26	hCL	10YR 4/3					Yes	26	slightly calcareous	gently sloping	10	10	2	0	IV	3b	6.48	30.43	2	1	1	2	Wetness			3b
			26	65	hZCL	7.5Y4 6/4	Mn	5	common						10	10	2	2												
			65	120	Chalk																										
46	SE998335	79.112	0	29	mCL	10YR 4/3					No		slightly calcareous	gently sloping	10	2	2	0	I	1	-38.29	-26.33	3b	3a	1	2	Droughtiness			3b
			29	42	mCL	7.5YR 6/4 & 7/2									50	50	2	10												
			42	120	Chalk																										
47	SE997334	77.151	0	29	hCL	10YR 4/3					Yes	29	slightly calcareous	gently sloping	10	10	2	0	IV	3b	-1.81	13.85	3a	2	1	2	Wetness			3b
			29	56	hCL	5YR 3/3 -> 7.5YR 6/4	Mn	5	common						10	10	2	0												
			56	120	Chalk										50	50	35	10												
48	SE997333	73.391																												Not surveyed
49	SE997332	71.129																												Not surveyed
50	SE997331	72.288																												Not surveyed
51	SE997330	71.876																												Not surveyed
52	SE996329	72.561																												Not surveyed
53	SE995329	72.977																												Not surveyed
54	SE994329	71.689																												Not surveyed
55	SE993328	71.701																												Not surveyed
56	SE992328	73.207																												Not surveyed
57	SE991327	77.102	0	29	hCL	10YR 4/3					No		very calcareous	gently sloping	15	15	5	35	I	2	-29.53	-17.83	3b	2	1	3a	Droughtiness			3b
			29	45	hCL	5YR 3/3 -> 7.5YR 6/4	10YR 5/8, 10YR 5/1, Mn	2	common						5	5	1	5												
			45	120	Chalk										50	50	2	50												
58	SE991327	80.473	0	28	mCL	10YR 3/3					No		very calcareous	moderately sloping	15	15	5	35	I	1	-34.34	-20.17	3b	2	1	3a	Droughtiness			3b
			28	57	hCL	5YR 4/4									35	35	2	35												
			57	120	Chalk										50	50	2	50												
59	SE990326	82.131	0	28	mCL	10YR 3/3					No		very calcareous	moderately sloping	15	15	5	35	I	1	-49.16	-37.26	3b	3a	1	3a	Droughtiness			3b
			28	40	hCL	10YR 6/4									35	35	2	35												
			40	120	Chalk										50	50	2	50												
60	SE989326	83.808																												Not surveyed
61	SE988325	84.658																												Not surveyed
62	SE987325	85.238																												Not surveyed
63	SE986324	85.902																												Not surveyed
64	SE985324	86.860																												Not surveyed
65	SE984323	87.781																												Not surveyed
66	SE984323	87.689	0	26	mCL	10YR 3/3					No		very calcareous	strongly sloping	15	15	2	20	I	1	-51.40	-39.35	4	3a	1	3a	Droughtiness			4
			26	35	hCL	10YR 6/4									35	35	0	35												
			35	120	Chalk										50	50	2	50												
67	SE983322	87.647	0	23	mCL	10YR 3/3					No		very calcareous	strongly sloping	15	15	2	20	I		-56.35	-44.33	4	3a	1	3a	Droughtiness			4
			23	32	hCL	10YR 6/4									35	35	2	35												
			32	120	Chalk										50	50	2	50												
68	SE982322	88.361	0	25	mCL	10YR 3/3					No		very calcareous	strongly sloping	15	15	2	20	I	1	-58.67	-46.62	4	3b	1	3a	Droughtiness			4
			25	120	Chalk										50	50	2	50												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
69	SE981321	91.138	0	25	mCL	10YR 3/3					No		very calcareous	strongly sloping	15	15	2	20	I	1	-58.44	-46.30	4	3b	1	3a	Droughtiness			4
			25	120	Chalk										50	50	2	50												
70	SE980321	90.926	0	24	mCL	10YR 3/3					No		very calcareous	strongly sloping	15	15	2	20	I	1	-60.09	-47.96	4	3b	1	3a	Droughtiness			4
			24	120	Chalk										50	50	2	50												
71	SE979321	89.486																												Not surveyed
72	SE978321	95.764																												Not surveyed
73	SE977320	99.233																												Not surveyed
74	SE976320	102.649																												Not surveyed
75	SE975320	104.623																												Not surveyed
76	SE974320	106.082																												Not surveyed
77	SE973319	107.480																												Not surveyed
78	SE972319	108.533																												Not surveyed
79	SE971319	109.442																												Not surveyed
80	SE970318	109.902																												Not surveyed
81	SE969318	109.778																												Not surveyed
82	SE968318	109.954																												Not surveyed
83	SE967318	112.305																												Not surveyed
84	SE966317	108.906																												Not surveyed
85	SE965317	114.515	0	26	mZCL	10YR 3/2					No		very calcareous	gently sloping	50	35	20	1	I	1	-40.82	-27.99	3b	2	1	3b	Droughtiness	Stoniness		3b
			26	45	hCL	5YR 4/3									50	50	2	1												
			45	120	Chalk										50	50	2	1												
86	SE964317	118.519	0	31	mZCL	10YR 3/2					No		very calcareous	moderately sloping	15	35	20	1	I	1	-23.61	-10.62	3b	1	1	3b	Droughtiness	Stoniness		3b
			31	46	mZCL	5YR 4/4									50	50	1	10												
			46	120	chalk																									
87	SE964317	120.489	0	26	mZCL	10YR 3/3					No		very calcareous	moderately sloping	35	35	10	1	I	1	-40.87	-27.80	3b	3a	1	3b	Droughtiness	Stoniness		3b
			26	40	hCL	10YR 4/6									50	50	1	1												
			40	120	Chalk										50	50	1	1												
88	SE963316	119.314	0	29	mZCL	10YR 3/3					Yes	29	slightly calcareous	gently sloping	5	15	5	1	I	1	-43.77	-30.79	3b	3a	1	3b	Droughtiness	Depth		3b
			29	120	Chalk	5YR 4/4	Mn, 10YR 5/1	20	common						1	1	0	1												
89	SE962316	126.653	0	27	mZCL	10YR 3/2					No		very calcareous	gently sloping	50	35	1	1	I	1	-40.45	-27.18	3b	2	1	3b	Droughtiness	Stoniness		3b
			27	45	hCL	5YR 4/3									50	50	1	1												
			45	120	Chalk										50	50	1	1												
90	SE961316	133.906	0	31	mCL	10YR 3/3									10	35	20	1	I	1	-43.84	-30.29	3b	3a	1	3b	Droughtiness	Stoniness		3b
			31	120	Chalk	10YR 8/1									50	50	1	35												
91	SE960316	139.332	0	28	mCL	10YR 3/3					No		very calcareous	moderately sloping	10	15	10	1	I	1	-14.51	-0.75	3a	2	1	3a	Droughtiness	Stoniness		3a
			28	45	mCL	7.5YR 4/6									10	10	2	1												
			45	120	Chalk	10YR 8/1									50	50	1	1												
92	SE959315	143.012	0	34	mZCL	10YR 3/3					No		very calcareous	gently sloping	5	10	5	1	I	1	-32.58	-18.71	3b	3a	1	2	Droughtiness			3b
			34	120	Chalk	10YR 8/1									50	35	1	35												
93	SE958315	144.979	0	27	mCL	10YR 3/3					No		very calcareous	gently sloping	10	15	10	1	I	1	-13.94	-0.01	3a	2	1	3a	Droughtiness	Stoniness		3a
			27	45	mZCL	7.5YR 4/6									10	35	2	1												
			45	120	Chalk	10YR 8/1									50	50	0	35												
94	SE957315	145.752	0	29	mCL	10YR 3/3					Yes	29	very calcareous	gently sloping	10	5	2	1	IV	3b	20.76	52.35	2	1	1	1	Wetness			3b
			29	70	mZCL	7.5YR 4/6	Mn	5	common	coarse					2	2	0	1												
			70	120	Chalk	10YR 8/1									50	15	0	35												
95	SE956315	145.437	0	27	mCL	10YR 3/3					Yes	27	very calcareous	gently sloping	10	5	2	1	IV	3b	7.12	24.49	2	2	1	1	Wetness			3b
			27	55	mCL	7.5YR 4/4	10YR 5/1	20	common						2	2	0	1												
			55	120	Chalk	10YR 8/1									50	15	0	35												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
96	SE955315	142.239	0	26	mCL	10YR 3/3					No		very calcareous	moderately sloping	35	35	5	1	I	1	-61.26	-47.47	4	3a	1	3b	Droughtiness			4
			26	35	mCL	7.5YR 4/4									50			35												
			35	120	Chalk																									
97	SE954315	134.049	0	29	mZCL	10YR 3/3					No		very calcareous	level	10	5	2	1	I	1	-20.93	-7.50	3b	2	1	2	Droughtiness			3b
			29	45	mCL	7.5YR 4/4									15	35	0	10												
			45	120	Chalk																									
98	SE953314	133.688	0	26	hCL	10YR 4/2					No		very calcareous	strongly sloping	35	35	10	1	I	2	-45.38	-32.00	3b	3a	1	3b	Droughtiness	Stoniness	Slope	3b
			26	40	mCL	10YR 3/3									35	35	10	1												
			40	120	Chalk										50	50	2	1												
99	SE952314	125.977	0	27	mCL	10YR 4/2					No		very calcareous	strongly sloping	35	35	10	1	I	1	-64.26	-51.21	4	3b	1	3b	Droughtiness			4
			27	120	Chalk	10YR 8/1									50	50	2	1												
100	SE951314	128.971	0	39	mCL	10YR 3/3					No		very calcareous	strongly sloping	50	35	2	1	I	1	-41.96	-28.78	3b	3a	1	3b	Droughtiness	Stoniness	Slope	3b
			39	120	Chalk										50	50	2	1												
101	SE950314	124.915	0	30	mCL	10YR 4/2					No		very calcareous	strongly sloping	50	35	15	1	I	1	-36.75	-20.34	3b	2	1	3b	Droughtiness	Stoniness	Slope	3b
			30	55	mCL	10YR 4/6									35	35	1	0												
			55	120	Chalk																									
102	SE949313	125.963	0	30	mCL	10YR 4/2					No		very calcareous	strongly sloping	50	50	10	1	I	1	-70.51	-57.55	4	3a	1	4	Droughtiness	Stoniness		4
			30	120	Chalk																									
103	SE948313	126.812	0	45	mCL	10YR 4/2					No		very calcareous	strongly sloping	35	35	10	1	I	1	-44.98	-31.99	3b	2	1	3b	Droughtiness	Stoniness	Slope	3b
			45	120	Chalk																									
104	SE947312	133.639	0	26	mZCL	10YR 3/3					No		very calcareous	strongly sloping	50	35	10	1	I	1	-43.27	-30.01	3b	3a	1	3b	Droughtiness	Stoniness	Slope	3b
			26	36	mCL	10YR 4/6									50	50	0	1												
			36	120	Chalk										50	50	0	1												
105	SE946312	135.379	0	28	mZCL	10YR 3/4					Yes	40	very calcareous	moderately sloping	10	10	2	1	III	3a	8.78	27.00	2	1	1	2	Wetness			3a
			28	60	SCL	5YR 4/4	10YR 5/1	20	common						5	5	0	1												
			60	120	Chalk										50	50	0	1												
106	SE945311	135.537	0	30	mZCL	10YR 3/3					No		very calcareous	moderately sloping	15	15	1	1	I	1	-14.40	-1.08	3a	2	1	3a	Droughtiness	Stoniness		3a
			30	45	mCL	10YR 4/6									15	15	0	1												
			45	120	Chalk										50	50	0	1												
107	SE945311	135.176	0	30	mZCL	10YR 3/3					No		very calcareous	moderately sloping	10	10	5	1	I	1	-22.72	-9.41	3b	3a	1	2	Droughtiness			3b
			30	40	mCL	10YR 4/6									15	15	1	1												
			40	120	Chalk										50	50	0	1												
108	SE944311	135.349	0	29	mZCL	10YR 3/3					No		very calcareous	moderately sloping	35	35	10	1	I	1	-22.90	-9.57	3b	2	1	3b	Droughtiness	Stoniness		3b
			29	45	mCL	10YR 5/6									35	50	0	1												
			45	120	Chalk	10YR 8/1									50	50	0	1												
109	SE943310	134.018	0	28	mCL	10YR 3/3					No		very calcareous	strongly sloping	50	35	10	1	I	1	-38.67	-25.41	3b	3a	1	3b	Droughtiness	Stoniness	Slope	3b
			28	40	mCL	10YR 4/6									50	50	0	1												
			40	120	Chalk										50	50	0	1												
110	SE942309	129.767	0	28	mCL	10YR 3/3					No		very calcareous	strongly sloping	35	35	10	1	I	1	-28.20	-15.12	3b	2	1	3b	Droughtiness	Stoniness	Slope	3b
			28	45	mCL	7.5YR 4/6									50	50	0	1												
			45	120	Chalk										50	50	0	1												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
111	SE941309	120.804	0	26	mZCL	10YR 3/3					No		very calcareous	strongly sloping	50	50	1	1	I	1	-70.41	-57.69	4	3b	1	4	Droughtiness	Stoniness		4
			26	29	mCL	7.5YR 4/6									50	50	0	1												
			29	120	Chalk																									
112	SE941308	108.553	0	28	mSL	10YR 3/3					No		very calcareous	moderately sloping	5	5	1	5	I	1	-19.61	-7.41	3a	2	1	1	Droughtiness			3a
			28	48	mZCL	2.5YR 4/4									10	5	0	2												
			48	120	Chalk																									
113	TA037354	15.197																												Not surveyed
114	SE940307	87.633																												Not surveyed
115	SE940306	82.162	0	8	fSL	10YR 3/3					No		very calcareous	moderately steeply slopin	5	5	1	1	I	1	-88.85	-77.75	4	5	1	1	Depth			5
			8	120	Chalk	10YR 8/2									50	50	0	1												
116	SE939305	78.708	0	25	SCL	10YR 4/2					No		very calcareous	steeply sloping	10	10	2	1	I	1	-65.43	-54.47	4	3a	1	3a	Droughtiness	Slope		4
			25	40	Chalk	10YR 8/2									50	50	0	1												
			40	120	Chalk																									
117	SE939304	82.572	0	40	hCL	10YR 4/2					No		very calcareous	strongly sloping	35	35	5	1	I	2	-42.35	-31.24	3b	3a	1	3b	Droughtiness	Stoniness	Slope	3b
			40	120	Chalk	10YR 8/1									50	50	0	1												
118	SE938304	70.466	0	45	mZCL	10YR 4/2					No		very calcareous	strongly sloping	15	15	0	1	I	1	-27.51	-16.30	3b	2	1	3a	Droughtiness	Slope		3b
			45	52	mCL	10YR 6/3									50	50	0	1												
			52	120	Chalk																									
119	SE937303	56.099	0	23	mZCL	10YR 3/2					Yes	60	very calcareous	moderately sloping	5	5	1	1	II	2	23.03	-3.87	2	1	1	1	Droughtiness	Wetness		2
			23	32	mCL	10YR 4/6									15	15	0	1												
			32	85	hCL	5YR 4/6	10YR 5/1, 10R 4/8	5	common						35	35	0	1												
			85	120	IMP																									
120	SE937302	46.212	0	22	mCL	10YR 3/2					Yes	22	very calcareous	moderately sloping	5	5	1	1	IV	3b	36.29	11.61	1	1	1	1	Wetness			3b
			22	58	mCL	10YR 6/3	10YR 5/1, Mn	5	common						15	15	0	1												
			58	120	mCL	10YR 6/3									35	35	0	1												
121	SE936301	40.821	0	25	SCL	10YR 3/2					Yes	20	slightly calcareous	gently sloping	5	5	1	1	IV	3b	24.00	-0.88	2	1	1	1	Wetness			3b
			25	66	SCL	10YR 4/4	10YR 5/8, Mn	5	common						10	10	0	1												
			66	85	SCL	10YR 6/3									50	50	0	1												
			85	120	IMP																									
122	SE936300	36.744	0	29	ZL	10YR 3/2					Yes	29	very calcareous	level	2	2	1	1	IV	3b	58.18	31.22	1	1	1	1	Wetness			3b
			29	80	mZCL	10YR 4/6	10YR 5/8, Mn	30	many						5	2	0	1												
			80	120	mCL	7.5YR 4/6	Mn	20	common						0	5	0	1												
123	SE935300	32.397	0	23	mCL	10YR 4/2					Yes	23	slightly calcareous	level	5	5	0	1	IV	3b	29.40	2.31	2	1	1	1	Wetness			3b
			23	120	SCL	10YR 6/3	10YR 5/8, Mn	5	common						10	5	0	1												
124	SE935299	29.903	0	24	mCL	10YR 4/2					Yes	20	slightly calcareous	level	5	5	0	1	IV	3b	12.09	-1.81	2	1	1	1	Wetness			3b
			24	120	C	10YR 6/3 -> 6/1	10YR 5/8, 10YR 5/1	20	common						2	2	0	1												
125	SE934298	27.872	0	25	mCL	10YR 4/4					Yes	25	very slightly calcareous	level	2	2	0	1	IV	3b	41.23	12.65	1	1	1	1	Wetness			3b
			25	120	hCL	7.5YR 4/6	10YR 5/8, Mn	30	many						2	2	0	1												
126	SE933297	26.076	0	32	SCL	10YR 4/3					Yes	32	very slightly calcareous	level	2	2	0	1	IV	3b	44.04	-3.84	2	1	1	1	Wetness			3b
			32	51	mS	7.5YR 4/6	10YR 5/8, Mn	20	common						2	2	0	1												
			51	120	mSL	7.5YR 6/6									1	1	0	1												
127	SE932295	22.693	0	42	SCL	10YR 2/2	Mn	5	common		Yes	32	very calcareous	gently sloping	5	5	1	1	IV	3b	26.97	1.15	2	1	1	1	Wetness			3b
			42	120	SCL	10YR 5/6									15	15	2	1												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
128	SE932295	21.789	0	36	SCL	10YR 2/2	Mn	5	common		Yes	26	very calcareous	level	5	5	0	1	IV	3b	20.98	-12.57	3a	1	1	1	Wetness			3b
			36	75	SCL	10YR 5/6									35	35	2	1												
			75	120	IMP																									
129	SE931294	21.390	0	37	SCL	10YR 2/2					Yes	37	very calcareous	level	2	2	1	1	IV	3b	41.01	7.30	2	1	1	1	Wetness			3b
			37	49	SCL	10YR 4/6	o	1	few						5	5	0	1												
			49	72	mSL	10YR 4/4									10	10	0	1												
			72	120	SCL	10YR 6/4									2	2	0	1												
130	SE931293	21.170																												Not surveyed
131	SE930293	21.619																												Not surveyed
132	SE929292	22.203																												Not surveyed
133	SE928292	22.217																												Not surveyed
134	SE927292	22.468																												Not surveyed
135	SE926292	17.824	0	31	mSL	10YR 4/4	10YR 5/4, Mn	1	few		Yes	28	non-calcareous	gently sloping	1	1	0	0	IV	3a	62.02	13.96	1	1	1	1	Wetness			3a
			31	120	mSL	5YR 4/4	10YR 5/4, Mn	5	common						2	2	0	0												
136	SE925291	13.259	0	29	mSL	10YR 3/2					Yes	29	non-calcareous	gently sloping	2	0	0	0	IV	3a	41.61	12.51	1	1	1	1	Wetness			3a
			29	70	mSL	5YR 4/6	10YR 5/8, Mn	5	common						2	0	0	0												
			70	120	LmS	10YR 6/4									1	0	0	0												
137	SE924291	10.388	0	32	mSL	10YR 3/2	Mn	1	few		Yes	28	very calcareous	gently sloping	5	10	2	0	IV	3a	17.99	-8.55	2	1	1	1	Wetness			3a
			32	120	IMP																									
138	SE923291	8.171	0	32	mSL	10YR 3/2	Mn, 10YR 6/6	5	common		Yes	25	non-calcareous	gently sloping	1	0	0	0	IV	3a	43.25	12.75	1	1	1	1	Wetness			3a
			32	73	mSL	10YR 4/6									1	0	0	0												
			73	120	LmS	10YR 4/6									1	0	0	0												
139	SE922291	7.700	0	35	mSL	10YR 3/2					Yes	35	non-calcareous	level	1	0	0	0	IV	3a	26.71	-4.63	2	1	1	1	Wetness			3a
			35	120	LmS	10YR 5/6	Mn	5	common						1	0	0	0												
140	SE921290	7.417																												Not surveyed
141	SE920290	6.817																												Not surveyed
142	SE919290	6.741	0	46	mSL	10YR 3/3					No		non-calcareous	level	1	0	0	0	I	1	51.94	0.69	2	1	1	1	Droughtiness			2
			46	70	LmS	10YR 5/6									1	0	0	0												
			70	120	mSL	10YR 4/6									1	0	0	0												
143	SE918290	6.120	0	29	fSZL	10YR 4/6					No		non-calcareous	level	1	0	0	0	I	1	14.62	-13.74	3a	1	1	1	Droughtiness			3a
			29	90	mS	5YR 6/8 & 10YR 6/2									1	0	0	0												
			90	120	SCL	10YR 4/6									1	0	0	2												
144	SE917289	5.334	0	37	mSL	10YR 3/3					No		non-calcareous	level	5	5	0	0	I	1	-4.05	0.59	3a	1	1	1	Droughtiness			3a
			37	54	mSL	10YR 4/2	Mn	5	common						5	5	0	0												
			54	80	LmS	10YR 6/4									5	5	0	0												
145	SE916289	4.664	0	30	LfS	10YR 2/1							non-calcareous	level	1	0	0	0	I	2	13.66	-12.01	3a	1	2	1	Droughtiness			3a
			30	55	LmS	10YR 4/6	10YR 5/1, Mn	20	common		No				1	0	0	0												
			55	95	mS	10YR 6/3	10YR 5/8	5	common						1	0	0	0												
			95	120	SCL	10YR 5/6									1	0	0	2												
146	SE915289	4.226	0	30	mSL	10YR 3/2					Yes	30	non-calcareous	level	1	0	0	0	IV	3a	65.93	16.76	1	1	1	1	Wetness			3a
			30	53	SCL	10YR 4/2	10YR 5/8	20	common						1	0	0	0												
			53	120	mSL	10YR 4/4									1	0	0	0												
147	SE913289	3.262	0	29	hCL	10YR 3/3					Yes	29	non-calcareous	level	1	0	0	0	IV	3b	48.63	10.95	1	1	1	1	Wetness			3b
			29	76	C	5YR 4/2 ->6/1	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
			76	120	mSL	10YR 6/1	10YR 5/8	30	many						1	0	0	2												
148	SE911288	3.210																												Not surveyed
149	SE910288	2.954																												Not surveyed
150	SE909288	3.327	0	29	C	10YR 3/2					Yes	29	non-calcareous	gently sloping	1	0	0	0	IV	3b	11.94	-3.97	2	1	1	1	Wetness			3b
			29	120	C	10YR 5/1, 10YR 4/1	10YR 5/8, 10YR 5/1, 10YR 6/6, 10R 4/8	50	very many						1	0	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
151	SE908287	3.164	0	28	hCL	10YR 3/2					Yes	28	non-calcareous	level	2	2	2	2	IV	3b	12.74	-3.19	2	1	1	1	Wetness			3b
			28	53	C	10YR 4/4	10YR 5/8, 10YR 5/1	30	many						1	0	0	0												
			53	120	C	10YR 5/1	10YR 5/8, Mn, 10YR 5/1	50	very many						1	0	0	0												
152	SE907287	3.168	0	34	hCL	10YR 3/3					Yes	34	non-calcareous	level	2	0	0	2	IV	3b	14.97	-0.60	2	1	1	1	Wetness			3b
			34	120	C	5YR 3/4	10YR 5/8, 10YR 5/1	30	many						2	0	0	1												
153	SE906287	3.679	0	38	C	10YR 3/2					Yes	38	non-calcareous	level	1	0	0	2	IV	3b	14.21	-1.60	2	1	1	1	Wetness			3b
			38	120	C	10YR 5/1 -> 3/1	10YR 5/8, 10YR 5/1	50	very many						1	0	0	1												
154	SE905287	2.871	0	30	C	10YR 3/2					Yes	30	non-calcareous	level	1	0	0	0	IV	3b	12.34	-3.62	2	1	1	1	Wetness			3b
			30	120	C	10YR 4/2 -> 5/1	10YR 5/8	50	very many						1	0	0	0												
155	SE904287	2.850	0	37	hCL	10YR 4/2					Yes	37	non-calcareous	level	1	0	0	0	IV	3b	17.52	0.08	2	1	1	1	Wetness			3b
			37	65	hCL	10YR 4/2	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
			65	120	C	10YR 5/1	10YR 5/8	5	common						1	0	0	0												
156	SE903287	2.726	0	30	hCL	10YR 3/2					Yes	30	very slightly calcareous	level	5	5	0	0	IV	3b	13.31	-2.66	2	1	1	1	Wetness			3b
			30	120	C	GLEY2 6/1	10R 4/8, 10YR 5/4	50	very many						1	0	0	0												
157	SE902286	2.890	0	31	hCL	10YR 4/2					Yes	31	non-calcareous	level	1	0	0	0	IV	3b	15.74	-0.23	2	1	1	1	Wetness			3b
			31	120	C	10YR 4/1	10YR 5/8, 10YR 5/1	30	many						1	0	0	0												
158	SE901286	2.931	0	32	hCL	10YR 4/2					Yes	32	very slightly calcareous	level	1	0	0	0	IV	3b	92.09	31.56	1	1	1	1	Wetness			3b
			32	58	C	10YR 5/1	10YR 5/8	30	many						1	0	0	0												
			58	120	fszl	5YR 5/3	10YR 5/8	5	common						1	0	0	0												
159	SE900286	3.149	0	34	hCL	10YR 4/2					Yes	34	very slightly calcareous	level	2	2	0	0	IV	3b	16.75	0.71	2	1	1	1	Wetness			3b
			34	120	C	10YR 4/2 -> 4/1	10YR 5/8, 10YR 7/1	30	very many						1	0	0	0												
160	SE899286	3.460	0	36	hCL	10YR 4/2					Yes	36	very slightly calcareous	level	2	2	0	0	IV	3b	17.51	1.09	2	1	1	1	Wetness			3b
			36	70	C	5YR 5/3	10YR 5/8, Mn	50	very many						1	0	0	0												
			70	120	IMP																									
161	SE898286	3.651	0	28	C	10YR 4/2					Yes	28	non-calcareous	level	2	1	0	0	IV	3b	10.72	-5.36	2	1	1	1	Wetness			3b
			28	120	C	10YR 4/2 -> 4/1	10YR 5/8	50	very many						1	0	0	0												
162	SE897285	3.783	0	30	hZCL	10YR 4/2					Yes	30	non-calcareous	level	2	0	0	0	IV	3b	16.82	-0.47	2	1	1	1	Wetness			3b
			30	47	C	10YR 4/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	0												
			47	62	hCL	5YR 5/3	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
			62	120	C	10YR 5/1	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
163	SE896285	3.853	0	30	C	10YR 4/2					Yes	30	non-calcareous	level	2	0	0	0	IV	3b	11.21	-4.90	2	1	1	1	Wetness			3b
			30	120	C	10YR 4/1 -> 5/1	10YR 5/8, 10YR 6/6	50	very many						1	0	0	0												
164	SE895284	3.614	0	28	mZCL	10YR 4/2					Yes	28	non-calcareous	level	5	2	0	0	IV	3b	90.83	31.21	1	1	1	1	Wetness			3b
			28	81	C	10YR 4/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	0												
			81	120	fSZL	10YR 6/3	10YR 5/8, 10YR 5/1	5	common						1	0	0	0												
165	SE894284	3.455	0	35	hZCL	10YR 4/2					Yes	75	non-calcareous	level	2	0	0	0	I	2	19.56	3.39	2	1	1	1	Wetness	Droughtiness		2
			35	120	C	10YR 4/4	10YR 5/8, Mn	5	common						1	0	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
166	SE893283	2.617	0	30	hCL	10YR 3/2					Yes	30	non-calcareous	level	2	2	0	2	IV	3b	12.23	-4.02	2	1	1	1	Wetness			3b
			30	120	C	5YR 4/3	Mn	5	common						1	0	0	0												
167	SE893283	2.402	0	32	hCL	10YR 3/3					Yes	32	non-calcareous	level	1	0	0	2	IV	3b	21.53	9.29	2	1	1	1	Wetness			3b
			32	74	C	5YR 4/4	10YR 5/8, 10YR 5/1	30	many						1	0	0	0												
			74	120	ZC	5YR 4/4	10YR 5/8, 10YR 5/1, Mn	30	many						1	0	0	2												
168	SE892282	2.520	0	30	C	10YR 3/3					Yes	30	non-calcareous	level	1	0	0	0	IV	3b	10.53	-5.76	2	1	1	1	Wetness			3b
			30	120	C	10YR 5/2	10YR 5/8, Mn	30	many						1	0	0	0												
169	SE891282	2.053	0	30	C	10YR 3/3					Yes	30	non-calcareous	level	1	0	0	0	IV	3b	10.39	-5.94	2	1	1	1	Wetness			3b
			30	120	C	10YR 5/2	10YR 5/8	30	many						1	0	0	0												
170	SE890281	2.923	0	25	hCL	10YR 4/3					Yes	25	non-calcareous	level	1	0	0	0	IV	3b	10.97	-5.67	2	1	1	1	Wetness			3b
			25	72	C	10YR 5/2	10YR 5/8, 10YR 5/1, Mn, 10YR 6/6	30	many						1	0	0	0												
			72	120	IMP																									
171	SE889281	2.552	0	31	hCL	10YR 3/3					Yes	31	non-calcareous	level	1	0	0	1	IV	3b	9.62	-5.77	2	1	1	1	Wetness			3b
			31	120	C	5YR 5/3 ->6/1	10YR 5/8, 10YR 6/6	50	very many						2	0	0	5												
172	SE888280	2.426	0	29	C	10YR 3/2					Yes	29	non-calcareous	level	1	0	0	0	IV	3b	9.38	-7.01	2	1	1	1	Wetness			3b
			29	120	C	10YR 5/1 -> 4/1									1	0	0	0												
173	SE887280	2.937	0	27	C	10YR 4/2					Yes	27	non-calcareous	level	1	0	0	0	IV	3b	35.63	3.32	2	1	1	1	Wetness			3b
			27	53	C	5YR 5/2->6/1	10YR 5/8, 10R 4/8	50	very many						1	0	0	0												
			53	120	SCL	10YR 5/4	10YR 5/8, 10YR 5/1	30	many						1	0	0	0												
174	SE886279	2.404	0	36	hCL	10YR 3/2					Yes	36	non-calcareous	level	1	0	0	0	IV	3b	15.36	-1.07	2	1	1	1	Wetness			3b
			36	61	C	10YR 5/2	10YR 5/8, Mn	50	very many						1	0	0	0												
			61	120	C	10YR 5/1	10YR 5/8	30	many						1	0	0	0												
175	SE886279	2.619	0	29	hCL	10YR 3/2					Yes	29	non-calcareous	level	1	0	0	0	IV	3b	11.93	-4.49	2	1	1	1	Wetness			3b
			29	120	C	10YR 5/1 -> 4/1	10YR 5/8, 10YR 5/1, 10YR 6/6	30	many						1	0	0	0												
176	SE885278	2.538	0	26	hZCL	10YR 3/2					Yes	26	slightly calcareous	level	2	1	0	0	IV	3b	12.27	-4.20	2	1	1	1	Wetness			3b
			26	85	C	10YR 4/3	10YR 5/8, 10YR 5/4, Mn	30	many						1	0	0	0												
			85	120	ZC	10YR 5/1	10YR 5/8	20	common						1	0	0	0												
177	SE884278	2.293	0	28	C	10YR 3/3	10YR 5/8	5	common		Yes	28	non-calcareous	level	1	0	0	0	IV	3b	8.28	-8.21	2	1	1	1	Wetness			3b
			28	120	C	5YR5/4->5/2	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
178	SE883277	2.229	0	29	C	10YR 3/3					Yes	29	non-calcareous	level	1	0	0	0	IV	3b	35.43	2.08	2	1	1	1	Wetness			3b
			29	50	C	5YR 5/3	10YR 5/8	50	very many						1	0	0	0												
			50	120	SCL	10YR 4/1	10YR 5/8, 10R 4/8	30	many						1	0	0	0												
179	SE882277	1.720	0	30	C	10YR 3/2					Yes	30	non-calcareous	level	1	0	0	0	IV	3b	8.67	-7.89	2	1	1	1	Wetness			3b
			30	120	C	10YR 5/1	10YR 5/8, 10YR 5/1, 10YR 6/6	30	many						1	0	0	0												
180	SE881277	1.780	0	35	hZCL	10YR 3/2					Yes	35	non-calcareous	level	1	0	0	0	IV	3b	16.04	-2.50	2	1	1	1	Wetness			3b
			35	120	ZC	10YR 5/2	10YR 5/8	50	very many						1	0	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
181	SE880276	1.824	0	28	hCL	10YR 3/2					Yes	29	non-calcareous	level	2	0	0	2	IV	3b	9.04	-7.56	2	1	1	1	Wetness			3b
			29	120	C	5YR 5/3	10YR 5/8, 10YR 5/1								1	0	0	0												
182	SE879276	2.125	0	29	hCL	10YR 3/2					Yes	26	non-calcareous	level	1	0	0	0	IV	3b	30.84	3.66	2	1	1	1	Wetness			3b
			29	63	C	10YR 4/3	10YR 5/8, 10YR 5/1	30	many						1	0	0	0												
			63	78	ZC	10YR 4/3	10YR 5/8, 10YR 5/1	30	many						1	0	0	0												
			78	120	SCL	10YR 5/4	10YR 5/8	20	common						1	0	0	0												
183	SE878275	1.875	0	31	hZCL	10YR 3/2					Yes	31	non-calcareous	level	1	0	0	0	IV	3b	14.62	-2.02	2	1	1	1	Wetness			3b
			31	120	C	10YR 5/1	10YR 5/8, 10YR 5/1, 10YR 6/6	50	very many						1	0	0	0												
184	SE878275	2.467																												Not surveyed
185	SE877274	1.637																												Not surveyed
186	SE876274	1.798	0	32	C	10YR 3/2					Yes	32	non-calcareous	level	1	0	0	0	IV	3b	34.59	1.07	2	1	1	1	Wetness			3b
			32	49	C	10YR 4/4	7.5YR4/6; Mn	50	very many						1	0	0	0												
			49	120	SCL	7.5YR 5/6									1	0	0	0												
187	SE875274	1.672																												Not surveyed
188	SE874273	1.569																												Not surveyed
189	SE872272	1.595																												Not surveyed
190	SE871271	1.599	0	31	C	10YR 3/2					Yes	31	non-calcareous	level	1	0	0	0	IV	3b	39.14	0.12	2	1	1	1	Wetness			3b
			31	61	C	10YR 5/1	10YR 5/8	5	few						1	0	0	0												
			61	80	P	10YR 2/2									1	0	0	0												
			80	120	C	10YR 6/1	10YR 5/8	20	common						1	0	0	0												
191	SE871271	1.366																												Not surveyed
192	SE870270	0.836																												Not surveyed
193	SE868269	2.652	0	36	hCL	10YR 4/4					Yes	63	very slightly calcareous	level	1	0	0	0	II	3a	17.54	-6.24	2	1	1	1	Wetness			3a
			36	63	LmS	10YR 4/6	10YR 6/6	20	common						1	0	0	0												
			63	78	SCL	10YR 5/4	10YR 5/1, 10YR 6/6	30	many						1	0	0	2												
			78	120	C	5YR 5/3	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
194	SE867269	2.176	0	30	C	10YR 3/2					Yes	42	slightly calcareous	level	2	0	0	2	III	3a	4.51	-12.45	3a	1	1	1	Wetness	Droughtiness		3a
			30	42	C	10YR 3/2									1	0	0	0												
			42	120	C	10YR 6/1	10YR 5/8, 10YR 5/1, 10YR 6/6	50	very many						1	0	0	0												
195	SE866268	1.049	0	44	C	10YR 3/2					Yes	44	slightly calcareous	level	2	0	0	2	III	3a	8.81	-8.27	2	1	1	1	Wetness			3a
			44	120	C	10YR 6/1 -> 4/2	10YR 5/8, 10YR 5/1, 10YR 6/6	50	very many						1	0	0	0												
196	SE865268	1.375	0	38	hCL	10YR 3/2					Yes	38	very slightly calcareous	level	2	0	0	2	III	3b	10.31	-6.78	2	1	1	1	Wetness			3b
			38	120	C	10YR 4/1	10YR 5/8, 10YR 5/1, 10YR 6/6	50	very many						1	0	0	0												
197	SE864267	1.446	0	36	C	10YR 3/2					Yes	36	slightly calcareous	level	2	0	0	2	III	3a	5.58	-11.56	3a	1	1	1	Wetness	Droughtiness		3a
			36	120	C	10YR 5/1 -> 4/1	10YR 5/8, 10YR 6/6	50	very many	fine					1	0	0	0												
198	SE864267	1.486	0	34	hZCL	10YR 3/2					Yes	34	non-calcareous	level	2	0	0	0	III	3b	12.72	-4.43	2	1	1	1	Wetness			3b
			34	120	C	10YR 5/2	10YR 5/8, 10YR 5/1	50	very many	medium					1	0	0	0												
199	SE863267	1.368	0	37	hCL	10YR 4/2					Yes	37	non-calcareous	level	1	0	0	2	III	3b	13.70	-3.47	2	1	1	1	Wetness			3b
			37	50	C	10YR 5/4	10YR 5/8, 10YR 5/1, 10YR 6/6	30	many	medium					1	0	0	2												
			50	120	C	5YR 4/4	10YR 5/8, 10YR 5/1, Mn, 10YR 6/6	50	very many	medium					1	0	0	0												
200	SE862266	1.756	0	36	C	10YR 3/2					Yes	36	non-calcareous	level	1	0	0	2	III	3b	14.97	-1.26	2	1	1	1	Wetness			3b
			36	100	C	10YR 4/1	10YR 5/8, 10YR 5/1, 10YR 6/6	50	very many	medium					1	0	0	0												
			100	120	C	5YR 5/3	10YR 5/8, 10YR 5/1	50	very many	medium					1	0	0	0												
201	SE861266	1.757	0	40	hZCL	10YR 3/3					Yes	40	very calcareous	level	2	0	0	2	III	3a	19.15	4.08	2	1	1	1	Wetness			3a
			40	64	C	10YR 5/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	0												
			64	120	ZC	5YR 5/3	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
202	SE860265	0.587	0	20	C	10YR 4/3					Yes	20	non-calcareous	level	2	2	0	0	III	3b	21.86	-3.44	2	1	1	1	Wetness			3b
			20	45	C	10YR 3/2	10YR 5/8	20	common						2	2	0	0												
			45	85	C	10YR 6/2	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
			85	120	mZCL	10YR 5/3	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
203	SE859265	-1.078																												Scoped Out
204	SE858264	1.492																												Scoped Out
205	SE857264	1.801																												Scoped Out
206	SE857263	1.981																												Scoped Out
207	SE856263	1.543	0	42	hZCL	10YR 3/3					Yes	42	very calcareous	level	1	0	0	0	III	3a	23.36	3.87	2	1	1	1	Wetness			3a
			42	70	SCL	10YR 5/1	10YR 5/8	30	many						1	0	0	0												
			70	120	C	10YR 5/1	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
208	SE855262	1.660	0	38	hCL	10YR 3/3					Yes	38	very calcareous	level	1	0	0	0	III	3a	32.68	-1.91	2	1	1	1	Wetness			3a
			38	100	SCL	10YR 5/1	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
			100	120	IMP																									
209	SE854262	1.727	0	37	hZCL	10YR 3/2					Yes	37	very slightly calcareous	level	2	2	2	2	III	3b	29.84	1.56	2	1	1	1	Wetness			3b
			37	48	hZCL	10YR 6/2	10YR 5/8, 10YR 5/1, Mn	20	common						1	0	0	0												
			48	68	PL	10YR 2/2									1	0	0	0												
			68	120	C	10YR 5/2	10YR 5/8	50	very many						1	0	0	0												
210	SE853261	1.787	0	40	hZCL	10YR 3/2					Yes	53	very slightly calcareous	level	2	2	0	1	II	3a	43.17	4.54	2	1	1	1	Wetness			3a
			40	53	PL	10YR 2/2									1	0	0	0												
			53	80	mSL	10YR 4/2	10YR 5/8, 10YR 5/1	5	few						1	0	0	0												
			80	120	SCL	10YR 6/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	0												
211	SE852261	1.828	0	33	hZCL	10YR 3/2					Yes	33	slightly calcareous	level	1	0	0	0	III	3a	5.98	-11.67	3a	1	1	1	Wetness	Droughtiness		3a
			33	70	hZCL	10YR 4/4	10YR 5/8, Mn	1	few						1	0	0	0												
			70	120	ZC	10YR 4/4	10YR 5/8	50	very many						1	0	0	0												
212	SE851260	1.697	0	37	hCL	10YR 4/2					Yes	37	very calcareous	level	1	0	0	0	III	3a	8.05	-9.65	2	1	1	1	Wetness			3a
			37	120	C	10YR 4/4	10YR 5/8, 10YR 5/1, 10YR 6/6	50	very many						1	0	0	0												
213	SE850260	1.416	0	28	hZCL	10YR 3/2					Yes	28	very slightly calcareous	level	2	2	0	0	III	3b	5.40	-12.39	3a	1	1	1	Wetness			3b
			28	120	C	10YR 4/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	0												
214	SE849260	1.792	0	30	ZC	10YR 4/2					Yes	30	very slightly calcareous	level	1	0	0	0	III	3b	1.85	-15.81	3a	1	1	1	Wetness			3b
			30	120	C	10YR 5/1-> 4/1	10YR 5/8	30	many						1	0	0	0												
215	SE848259	2.605	0	33	hCL	10YR 3/2					Yes	33	very slightly calcareous	level	1	0	0	0	III	3b	3.85	-16.78	3a	1	1	1	Wetness			3b
			33	60	mSL	10YR 5/2	10YR 5/8	5	common						1	0	0	0												
			60	120	C	10YR 4/1	10YR 5/8	50	very many						1	0	0	0												
216	SE847258	2.559	0	32	hCL	10YR 3/2	10YR 5/8, 10YR 5/1	5	common		Yes	30	very slightly calcareous	level	2	2	0	0	III	3b	4.35	-13.12	3a	1	1	1	Wetness			3b
			32	120	C	10YR 4/1	10YR 5/8, 10YR 5/1	30	many						2	2	0	0												
217	SE846258	2.711	0	32	hCL	10YR 3/2	10YR 5/8, 10YR 5/1	20	common		Yes	25	non-calcareous	level	1	0	0	0	III	3b	5.69	-11.97	3a	1	1	1	Wetness			3b
			32	120	C	10YR 5/1	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
218	SE845257	2.186	0	27	hCL	10YR 3/2	10YR 5/8	20	common		Yes	23	non-calcareous	level	1	0	0	0	III	3b	16.82	-1.86	2	1	1	1	Wetness			3b
			27	120	C	10YR 5/1	10YR 5/8, 10YR 5/1	30	many						1	0	0	0												
219	SE844257	2.308	0	12	mCL	10YR 4/1	10YR 6/6	20	common		Yes	10	non-calcareous	gently sloping	1	1	1	1	III	3a	2.84	-14.59	3a	1	1	1	Wetness	Droughtiness		3a
			12	40	hCL	10YR 5/1	10YR 6/6	50	very many						1	1	1	1												
			40	120	C	10YR 6/1	10YR 6/6	50	very many						1	1	1	1												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
220	SE843256	2.843	0	37	hCL	10YR 4/2					Yes	37	non-calcareous	level	1	1	1	1	III	3b	80.83	12.46	1	1	1	1	Wetness			3b
			37	58	SCL	10YR 4/4	10YR 5/8, Mn	20	common						1	1	1	1												
			58	120	fSL	5YR 6/3	Mn	5	common						1	1	1	1												
221	SE842256	3.112	0	32	hCL	10YR 3/3					Yes	32	slightly calcareous	level	1	1	1	1	III	3a	2.97	-16.35	3a	1	1	1	Wetness	Droughtiness		3a
			32	120	ZC	10YR 3/3	10YR 5/8, 10YR 5/1	30	many						1	1	1	1												
222	SE842255	3.002	0	36	hZCL	10YR 4/2					Yes	36	very calcareous	level	1	1	1	1	III	3a	8.68	-10.68	3a	1	1	1	Wetness	Droughtiness		3a
			36	120	ZC	5YR 4/4	10YR 5/8, 10YR 5/1	50	very many						1	1	1	1												
223	SE841255	2.759	0	29	hCL	10YR 4/2					Yes	29	very calcareous	level	1	1	0	0	III	3a	4.18	-14.41	3a	1	1	1	Wetness	Droughtiness		3a
			29	51	mZCL	10YR 4/2	Mn	5	common						1	1	0	0												
			51	60	fSZL	5YR 6/3	10YR 5/8	20	common						1	1	0	0												
			60	120	ZC	10YR 5/2									1	1	0	0												
224	SE840254	2.510	0	35	hZCL	10YR 4/2					Yes	35	very calcareous	level	2	2	0	0	III	3a	8.98	-10.59	3a	1	1	1	Wetness	Droughtiness		3a
			35	120	ZC	10YR 5/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
225	SE839254	2.363	0	33	C	10YR 3/3					Yes	33	slightly calcareous	level	1	1	0	0	III	3a	5.41	-15.11	3a	1	1	1	Wetness	Droughtiness		3a
			33	45	ZC	10YR 4/3	10YR 5/8	20	common						1	1	0	0												
			45	80	SCL	10YR 3/2	10YR 5/8, 10YR 5/1	5	common						1	1	0	0												
			80	120	C	10YR 5/4	10YR 5/8	50	very many						1	1	0	0												
226	SE838253	2.172	0	35	hZCL	10YR 3/2					Yes	35	slightly calcareous	level	1	1	0	0	III	3a	10.03	-9.47	2	1	1	1	Wetness			3a
			35	120	ZC	10YR 4/2	10YR 5/8	50	very many						1	1	0	0												
227	SE837253	3.437	0	60	hZCL	10YR 3/3	10YR 5/8	5	common	fine	Yes	45	slightly calcareous	level	1	1	0	0	II	2	41.72	11.44	1	1	1	1	Wetness			2
			60	120	mZCL	10YR 4/3	10YR 5/8	20	common	fine					1	1	0	0												
228	SE836252	2.812	0	36	mZCL	10YR 4/2					Yes	50	slightly calcareous	level	1	1	0	0	II	2	87.62	25.67	1	1	1	1	Wetness			2
			36	50	fSL	10YR 4/4									1	1	0	0												
			50	120	fSZL	10YR 5/2	10YR 5/8	20	common	fine					1	1	0	0												
229	SE835252	3.317																												Non-agricultural
230	SE835251	2.169	0	32	hCL	10YR 4/2					Yes	32	slightly calcareous	level	1	1	0	0	III	3a	5.93	-11.95	3a	1	1	1	Wetness	Droughtiness		3a
			32	52	hCL	10YR 4/2	10YR 5/8, 10YR 5/1	50	very many	fine					1	1	0	0												
			52	66	C	10YR 5/2	10YR 5/8, 10YR 5/1	30	m	fine					1	1	0	0												
			66	120	IMP																									
231	SE833250	2.581	0	32	C	10YR 3/2					Yes	32	slightly calcareous	level	2	1	0	2	III	3a	59.94	10.83	1	1	1	1	Wetness			3a
			32	60	C	10YR 5/1	10YR5/8	20	common	coarse					1	1	0	0												
			60	120	mSL	10YR 6/1	10YR5/8	50	very many	coarse					1	1	0	0												
232	SE832249	2.865	0	31	hCL	10YR 3/2					Yes	31	slightly calcareous	level	1	1	0	1	III	3a	6.74	-10.60	3a	1	1	1	Wetness	Droughtiness		3a
			31	120	C	10YR 5/1 -> 4/1	10YR5/8	50	very many						1	1	0	0												
233	SE832249	2.640	0	34	hCL	10YR 4/2	10YR 5/8, 10YR 5/1	5	common		Yes	34	non-calcareous	level	1	1	0	0	III	3b	29.25	-0.58	2	1	1	1	Wetness			3b
			34	43	hCL	10YR 4/2	10YR 5/8, 10YR 5/1	5	common						1	1	0	0												
			43	76	SCL	10YR 5/3									1	1	0	0												
			76	120	LmS	10YR 6/2									1	1	0	0												
234	SE831248	2.985	0	33	C	10YR 4/2					Yes	33	non-calcareous	level	1	1	0	0	III	3b	31.23	-2.88	2	1	1	1	Wetness			3b
			33	50	hCL	10YR 5/3	10YR5/8	20	common	coarse					1	1	0	0												
			50	120	SCL	10YR 6/2	10YR 5/8, 10YR 5/1	50	very many	coarse					1	1	0	0												
235	SE830247	2.380	0	30	mCL	10YR 3/3					Yes	30	non-calcareous	level	2	2	0	0	III	3a	28.43	0.39	2	1	1	1	Wetness			3a
			30	67	hCL	10YR 5/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
			67	120	LmS	10YR 5/2									1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
236	SE830246	1.798	0	34	hCL	10YR 3/3					Yes	34	non-calcareous	level	1	1	0	0	III	3b	32.17	2.82	2	1	1	1	Wetness			3b
			34	113	C	5YR 4/4	10YR 5/8, 10YR 5/1, Mn	30	many						1	1	0	0												
			113	120	P	10YR 2/1									1	1	0	0												
237	SE829246	1.884	0	33	C	10YR 3/2					Yes	33	non-calcareous	level	1	1	0	1	III	3b	11.79	-3.44	2	1	1	1	Wetness			3b
			33	60	C	10YR 4/1	10YR 5/8	50	very many	fine					1	1	0	0												
			60	120	C	10YR 4/1	10YR 5/8	5	common	medium					1	1	0	0												
238	SE828245	2.966	0	34	SCL	10YR 3/3					Yes	40	non-calcareous	level	1	1	0	0	III	3a	18.47	-0.12	2	1	1	1	Wetness			3a
			34	55	SCL	10YR 5/2	10YR 5/8	20	common						1	1	0	0												
			55	75	mSL	10YR 5/2	10YR 5/8	20	common						1	1	0	0												
			75	85	LmS	10YR 5/2	10YR 5/8	20	common						1	1	0	0												
			85	120	mS	5YR 5/8	10YR 5/8	20	common						1	1	0	0												
239	SE827244	3.257	0	30	SCL	10YR 3/3					Yes	30	non-calcareous	level	1	1	0	0	III	3a	24.57	-0.50	2	1	1	1	Wetness			3a
			30	82	C	5YR 4/4	10YR 5/8, 10YR 5/1, Mn	30	many						1	1	0	2												
			82	120	SCL	10YR 5/6	10YR 5/8, 10YR 5/1	20	common						1	1	0	2												
240	SE827243	2.779	0	28	hCL	10YR 4/2					Yes	28	non-calcareous	level	1	1	0	0	III	3b	48.32	3.05	2	1	1	1	Wetness			3b
			28	75	hCL	10YR 4/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
			75	120	mSL	10YR 6/2									1	1	0	0												
241	SE827242	2.708	0	27	mZCL	10YR 4/3					Yes	27	non-calcareous		1	1	0	0	III	3a	24.38	5.54	2	1	1	1	Wetness			3a
			27	76	hCL	10YR 4/2	10YR 5/8, 10YR 5/1	30	many						1	1	0	0												
			76	120	C	10YR 5/2	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
242	SE827241	2.799	0	31	hZCL	10YR 3/3					Yes	31	non-calcareous	level	2	2	0	0	III	3b	18.26	4.46	2	1	1	1	Wetness			3b
			31	67	C	5YR 4/4	10YR 5/8, 10YR 5/1	20	common						2	2	0	0												
			67	120	ZC	5YR 5/2	10YR 5/8, 10YR 5/1	30	many						2	2	0	0												
243	SE826240	3.656	0	21	mSZL	10YR 4/2					Yes	21	non-calcareous	level	1	1	0	0	III	2	36.13	4.31	2	1	1	1	Wetness	Droughtiness		2
			21	120	hCL	10YR 4/4	10YR 5/8, 10YR 5/1, Mn	20	common						1	1	0	0												
244	SE826240	4.684	0	16	hZCL	10YR 4/2	10YR 5/1	20	common		Yes	16	non-calcareous	level	1	1	0	0	III	3b	0.53	-18.38	3a	1	1	1	Wetness			3b
			16	120	ZC	5YR 4/2	10YR 5/8, 10YR 5/1	30	many						1	1	0	0												
245	SE825234	4.803	0	38	hZCL	10YR4/2							very slightly calcareous	level	1	1			I	2	98.47	32.05	1	1	1	1	Wetness			2
			38	120	ZL	10YR4/4	10YR5/8	10	common	fine			moderately calcareous		1															
246	SE824233	3.906	0	25	mZCL	10YR5/2							moderately calcareous	level	1				I	1	41.03	10.88	1	1	1	1	None			1
			25	47	mZCL	10YR5/2							moderately calcareous		1															
			47	78	hZCL	10YR5/3							very calcareous																	
			78	120	hZCL	10YR5/3	10YR6/6;10YR6/1	5	common	fine			very calcareous																	
247	SE824232	3.519	0	32	ZC	10YR3/2							very slightly calcareous	level	0				I	3a	36.40	6.16	2	1	1	1	Wetness			3a
			32	59	hZCL	10YR3/2							moderately calcareous		1															
			59	120	hZCL	10YR4/4	10YR5/6	5	common	fine			very calcareous																	
248	SE824231	3.685	0	26	hZCL	10YR4/2							very calcareous	level	0				I	2	41.99	11.81	1	1	1	1	Wetness			2
			26	46	hZCL	10YR4/2							very calcareous																	
			46	63	mZCL	10YR4/3							very calcareous																	
			63	120	hZCL	10YR4/3	10YR6/6;10YR6/1	5	common	fine			very calcareous																	
249	SE824230	2.590	0	39	hZCL	10YR2/2							very slightly calcareous	level	0				I	2	82.62	16.79	1	1	1	1	Wetness			2
			39	65	hZCL	10YR4/3							very calcareous		1															
			65	120	ZL	7.5YR4/6	10YR6/1	2	few	fine			very calcareous																	
250	SE823229	2.273	0	34	hZCL	10YR4/3							moderately calcareous	level	0				I	2	45.60	13.26	1	1	1	1	Wetness			2
			34	67	mZCL	10YR4/2							very calcareous																	
			67	88	mSL	10YR5/3	10YR5/6	5	common	fine			very calcareous																	
			88	120	hZCL	10YR4/4	10YR5/6;10YR5/1	10	common	coarse			very calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
251	SE823228	1.832	0	37	mZCL	10YR4/3							very slightly calcareous	level	0				I	1	44.03	13.75	1	1	1	1	None			1
			37	120	hZCL	10YR4/4	7.5YR6/1	5	common	medium			very calcareous																	
252	SE823227	2.216	0	28	ZC	10YR4/2							moderately calcareous	level	1				I	2	32.07	-0.20	2	1	1	1	Wetness			2
			28	45	ZC	10YR4/3							moderately calcareous		1															
			45	86	hCL	10YR4/3	7.5YR4/6;7.5YR5/1	15	common	medium			very calcareous																	
			86	120	hCL	7.5YR5/2	7.5YR4/6;7.5YR5/1	5	common	medium			very calcareous																	
253	SE824226	2.254	0	32	mZCL	10YR4/2							very slightly calcareous	level					I	1	29.48	12.68	2	1	1	1	Droughtiness			2
			32	45	mZCL	10YR4/3							slightly calcareous																	
			45	75	hZCL	10YR4/4	10YR4/6	10	common	medium			very calcareous																	
			75	120	C	10YR4/4	10YR4/6; 10YR6/1	25	many	medium			very calcareous																	
254	SE824225	2.206	0	35	hCL	10YR4/2					Yes	65	moderately calcareous	level					II	2	24.17	6.26	2	1	1	1	Wetness	Droughtiness		2
			35	67	hCL	7.5YR5/2	7.5YR5/6;7.5YR5/1;7.5YR6/6	15	common	fine			very calcareous																	
			67	82	C	GLEY15/N	7.5YR5/6;7.5YR5/1	60	very many	fine			non-calcareous																	
			82	120	C	7.5YR5/2	7.5YR5/6;7.5YR5/1	40	many	fine			moderately calcareous																	
255	SE824224	2.229	0	35	hCL	10YR4/3					Yes	80	non-calcareous	level					I	2	24.07	6.25	2	1	1	1	Wetness	Droughtiness		2
			35	80	C	10YR4/4	10YR4/6; 10YR6/1	15	common	medium			non-calcareous																	
			80	115	C	GLEY1 4/10Y							non-calcareous																	
			115	120	C	GLEY1 4/10Y	10YR4/6	50	very many	coarse			non-calcareous																	
256	SE825223	1.937	0	39	hCL	10YR4/2					Yes	70	non-calcareous	level					I	2	32.31	6.95	2	1	1	1	Wetness	Droughtiness		2
			39	58	C	10YR4/3							non-calcareous																	
			58	82	C	10YR4/1	10YR5/8	25	many	coarse			non-calcareous																	
			82	118	hCL	7.5YR3/1	2.5YR3/6	45	very many	coarse			non-calcareous																	
			118	120	C	7.5YR5/1	2.5YR3/6; 5Y5/7	35	many	coarse			non-calcareous																	
257	SE825222	1.918	0	34	hCL	10YR4/2					Yes	65	non-calcareous	level	1				II	3a	37.74	5.98	2	1	1	1	Wetness			3a
			34	47	hCL	10YR4/3	10YR5/6;10YR5/1	10	common	fine			non-calcareous																	
			47	64	hCL	10YR5/2	7.5YR5/8;7.5YR5/1;7.5YR7/6	20	common	fine			non-calcareous																	
			64	88	hZCL	10YR5/2	7.5YR4/4;7.5YR5/1;7.5YR7/6	45	very many	coarse			non-calcareous																	
			88	120	hZCL	10YR4/2	7.5YR4/4;7.5YR5/1;7.5YR7/6	50	very many	coarse			non-calcareous																	
258	SE826222	1.892	0	34	ZC	10YR4/2					Yes	35	non-calcareous	level	0				III	3b	20.50	2.54	2	1	1	1	Wetness			3b
			34	42	C	10YR5/1	10YR2/1	60	very many	coarse			non-calcareous																	
			42	71	C	7.5YR5/1	7.5YR5/8	65	very many	coarse			non-calcareous																	
			71	105	C	10YR5/1	7.5YR5/8; 5Y7/4	45	very many	coarse			non-calcareous																	
			105	120	hZCL	10YR5/1	5YR4/6	30	many	coarse			non-calcareous																	
259	SE826221	1.537	0	22	hCL	10YR5/1					Yes	50	non-calcareous	level	1				II	3a	35.51	4.92	2	1	1	1	Wetness			3a
			22	35	hCL	10YR5/2							non-calcareous																	
			35	52	hCL	10YR5/2	10YR5/6;10YR6/1;7.5YR4/4	10	common	medium			non-calcareous																	
			52	85	hZCL	10YR5/2	10YR5/6;10YR6/1;7.5YR4/4	45	very many	coarse			non-calcareous																	
			85	120	hZCL	10YR5/1	10YR5/6;10YR6/1;7.5YR4/4	50	very many	coarse			non-calcareous																	
260	SE827220	1.031	0	38	C	10YR4/2					Yes	47							II	3b	33.46	2.84	2	1	1	1	Wetness			3b
			38	79	hCL	10YR3/4	7.5YR4/6	55	very many	coarse			non-calcareous	level	0															
			79	85	C	10YR4/1	7.5YR4/6; 5Y7/4	45	very many	coarse			non-calcareous																	
			85	105	hCL	5YR4/1	7.5YR4/6; 5Y7/4	50	very many	coarse			non-calcareous																	
			105	120	hCL	2.5YR3/1	5Y7/4; 10YR4/7	35	many	coarse			non-calcareous																	
261	SE827219	1.461	0	33	hCL	10YR5/1							non-calcareous	level	2				I	2	36.50	4.07	2	1	1	1	Wetness	Droughtiness		2
			33	78	mCL	10YR5/2	7.5YR5/8;7.5YR6/1	30	many	fine			slightly calcareous		1															
			78	120	hZCL	10YR5/3	7.5YR5/4;7.5YR6/1	25	many	medium			moderately calcareous																	
262	SE828218	2.294	0	37	ZC	7.5YR4/2							non-calcareous	level					I	3a	31.03	3.06	2	1	1	1	Wetness			3a
			37	72	C	7.5YR3/3	7.5YR4/6	2	common				slightly calcareous																	
			72	120	mZCL	7.5YR4/3							moderately calcareous																	
263	SE828217	2.848	0	23	hCL	10YR5/1							non-calcareous	level	1				I	2	35.67	3.32	2	1	1	1	Wetness	Droughtiness		2
			23	48	hCL	10YR5/2							non-calcareous		1															
			48	72	hCL	10YR5/2	7.5YR5/6;7.5YR5/1	15	common	medium			non-calcareous																	
			72	120	hCL	10YR5/3	7.5YR5/4;7.5YR5/1	20	common	medium			very calcareous																	
264	SE828216	1.725	0	32	hCL	10YR4/2					Yes	55							II	3a	19.24	5.75	2	1	1	1	Wetness			3a
			32	55	C	10YR4/3	7.5YR4/6	5	common	fine			non-calcareous	level	0															
			55	71	C	10YR4/3	7.5YR4/6	55	very many	coarse			non-calcareous																	
			71	95	C	10YR4/1	7.5YR4/6; 5Y7/4	35	many	coarse			non-calcareous																	
			95	108	C	2.5YR3/1	5Y7/4; 10YR5/8	45	very many	coarse			non-calcareous																	
			108	120	C	2.5YR3/1	5Y7/4; 10YR5/8	5	common	fine			non-calcareous																	
265	SE829215	1.106	0	38	hCL	10YR4/2					Yes	40	non-calcareous	level	1				III	3b	6.74	6.33	2	1	1	1	Wetness			3b
			38	51	hCL	10YR4/2	7.5YR5/6; 7.5YR6/1	40	many	medium			non-calcareous																	
			51	88	hCL	7.5YR4/3	7.5YR5/6; 7.5YR6/1	55	very many	coarse			non-calcareous																	
			88	120	CL	7.5YR5/2	7.5YR5/6; 7.5YR6/1	45	very many	coarse			non-calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
266	SE829214	1.215	0	39	C	10YR4/2					Yes	45	non-calcareous	level					II	3b	19.75	3.34	2	1	1	1	Wetness			3b
			39	70	C	7.5YR4/2	7.5YR4/6	20	common	medium			non-calcareous																	
			70	100	C	5YR5/1	5YR4/8	55	very many	coarse			non-calcareous																	
			100	120	C	5YR5/1	5YR4/8; 5Y7/4	30	many	medium			non-calcareous																	
267	SE830213	1.785	0	38	C	10YR4/2					Yes	40	non-calcareous	level	1				III	3b	16.07	2.29	2	1	1	1	Wetness			3b
			38	68	C	7.5YR4/2	7.5YR5/6; 7.5YR6/1	40	many	coarse			non-calcareous																	
			68	120	C	7.5YR4/2	7.5YR5/6; 7.5YR6/1	30	many	fine			non-calcareous																	
268	SE830212	1.669	0	35	hCL	10YR4/2					Yes	65	non-calcareous	level	0				II	3a	27.02	6.74	2	1	1	1	Wetness			3a
			35	85	C	10YR4/2	7.5YR4/6	15	common	medium			non-calcareous																	
			85	102	C	10YR4/3	7.5YR5/8	45	very many	medium			non-calcareous																	
			102	120	hCL	10YR4/2	7.5YR5/8	55	very many	coarse			non-calcareous																	
269	SE830212	1.551	0	35	C	10YR4/2					Yes	55	non-calcareous	level	0				II	3b	23.10	-2.48	2	1	1	1	Wetness			3b
			35	51	C	10YR4/2	7.5YR4/6; 10YR6/2	15	common	medium			non-calcareous																	
			51	92	C	7.5YR4/2	10YR4/6; 10YR5/8; 5Y7/4	45	very many	coarse			non-calcareous																	
			92	120	hCL	10YR5/4	7.5YR4/6	15	common	fine			non-calcareous																	
270	SE830211	0.775	0	29	hCL	10YR4/2					Yes	75	non-calcareous	level	0				I	2	20.37	5.45	2	1	1	1	Wetness	Droughtiness		2
			29	85	C	10YR4/1	7.5YR4/6, 10YR5/8	45	very many	medium			non-calcareous																	
			85	120	C	7.5YR4/1	7.5YR4/6; 5Y7/4; 2.5YR4/8	55	very many	coarse			non-calcareous																	
271	SE831210	0.864	0	28	hCL	10YR4/2					Yes	55	non-calcareous	level	3	1	1		II	3a	15.97	-0.02	2	1	1	1	Wetness			3a
			28	39	hCL	10YR4/2							non-calcareous		1															
			39	57	C	10YR5/2	7.5YR4/6;7.5YR5/1	2	common	fine			non-calcareous																	
			57	120	C	10YR5/2	7.5YR4/6;7.5YR5/1	40	many	fine			non-calcareous																	
272	SE831209	1.259	0	36	C	10YR4/2					Yes	78	non-calcareous	level					I	3a	17.77	3.60	2	1	1	1	Wetness			3a
			36	78	C	10YR4/1	7.5YR4/6	15	common	medium			non-calcareous																	
			78	120	C	7.5YR4/1	7.5YR5/8	35	many	coarse			non-calcareous																	
273	SE831208	1.578	0	29	C	10YR4/2					Yes	35	non-calcareous	level	2				IV	3b	16.11	1.96	2	1	1	1	Wetness			3b
			29	37	C	10YR4/2							non-calcareous		1															
			37	78	C	10YR4/2	GLEY15/N;7.5YR6/1;7.5YR4/6	40	many	medium			non-calcareous																	
			78	120	ZC	10YR5/2	GLEY15/N;7.5YR6/1;7.5YR4/6	50	very many	coarse			non-calcareous																	
274	SE831207	1.276	0	35	C	10YR4/2					Yes	65	non-calcareous	level					II	3b	24.48	3.61	2	1	1	1	Wetness			3b
			35	75	C	10YR4/1	10YR5/6;7.5YR4/6	35	many	medium			non-calcareous																	
			75	80	PL	10YR2/1	7.5YR4/6	25	many	coarse			non-calcareous																	
			80	115	C	7.5YR4/1	10YR5/6	45	very many	coarse			non-calcareous																	
			115	120	hCL	7.5YR4/1	7.5YR4/6; 5Y7/4	50	very many	coarse			non-calcareous																	
275	SE832206	1.524	0	26	hCL	10YR4/2					Yes	40	non-calcareous	level	1				III	3b	41.97	9.64	2	1	1	1	Wetness			3b
			26	35	hCL	10YR5/1	7.5YR4/6;7.5YR4/6	30	many	medium			non-calcareous																	
			35	47	hCL	10YR5/1	7.5YR4/6;7.5YR4/6	40	many	medium			non-calcareous																	
			47	73	hCL	10YR5/1	7.5YR4/6;7.5YR4/6;7.5YR4/4	40	many	medium			non-calcareous																	
			73	120	hCL	10YR5/1	7.5YR4/6;7.5YR4/6;7.5YR4/4	40	many	medium			non-calcareous																	
276	SE832205	1.472	0	38	C	10YR4/2					Yes	52	non-calcareous	level					II	3b	19.55	4.22	2	1	1	1	Wetness			3b
			38	90	C	10YR4/1	10YR4/6	45	very many	medium			non-calcareous																	
			90	120	C	7.5YR4/1	7.5YR4/6	30	many	medium			non-calcareous																	
277	SE832204	1.309	0	25	hCL	10YR4/2					Yes	38	non-calcareous	level	2				III	3b	19.12	4.59	2	1	1	1	Wetness			3b
			25	38	hCL	10YR4/2							non-calcareous																	
			38	82	C	10YR5/1	7.5YR5/6;7.5YR4/4;GLEY16/N	50	very many	medium			non-calcareous																	
			82	120	C	10YR4/2	7.5YR5/6;7.5YR4/4;GLEY16/N	40	many	medium			non-calcareous																	
278	SE833203	1.332	0	38	C	10YR4/2					Yes	75	non-calcareous	level	0				I	3a	19.28	4.47	2	1	1	1	Wetness			3a
			38	85	C	10YR4/1	10YR4/6	25	many	medium			non-calcareous																	
			85	120	C	7.5YR4/1	7.5YR4/6	40	many	medium			non-calcareous																	
279	SE833202	1.547	0	25	hCL	10YR4/2							non-calcareous	level	1				I	2	15.71	-1.59	2	1	1	1	Wetness	Droughtiness		2
			25	47	hCL	10YR4/3							non-calcareous																	
			47	120	C	10YR4/3	7.5YR6/1;7.5YR5/6	20	common	fine			non-calcareous																	
280	SE833201	1.717	0	29	hCL	10YR4/2							non-calcareous	level	0				I	2	11.58	-5.71	2	1	1	1	Wetness	Droughtiness		2
			29	120	C	10YR4/4	7.5YR4/6	15	common	fine			non-calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
281	SE833200	0.861																												Not surveyed
282	SE834199	0.205																												Not surveyed
283	SE834198	0.145																												Not surveyed
284	SE834197	0.026	0	34	ZC	10YR 3/2					Yes	34	non-calcareous	level	1	1	0	0	IV	3b	10.10	-6.92	2	1	1	1	Wetness			3b
			34	120	C	10YR 4/1	10YR 5/8	50	very many						1	1	0	0												
285	SE835196	0.341	0	29	hCL	10YR 3/2					Yes	29	non-calcareous	level	1	1	0	0	IV	3b	33.22	6.33	2	1	1	1	Wetness			3b
			29	75	C	10YR 4/2	10YR 5/8, 10YR 4/1, Mn	50	very many						1	1	0	0												
			75	120	hCL	10YR 5/4	10YR 5/8	50	very many						1	1	0	0												
286	SE835195	1.116	0	28	hCL	10YR 4/1	10YR 5/8, 10YR 5/4	5	common		Yes	22	very slightly calcareous	level	1	1	0	0	IV	3b	10.73	-6.23	2	1	1	1	Wetness			3b
			28	120	C	10YR 4/2	10YR 5/8	50	very many						1	1	0	0												
287	SE835194	1.113	0	32	hZCL	10YR 3/3					Yes	32	very calcareous	level	1	1	0	0	IV	3b	111.81	30.01	1	1	1	1	Wetness			3b
			32	60	mZCL	10YR 5/4	10YR 5/8	5	common						1	1	0	0												
			60	95	fSL	10YR 6/6	10YR 5/8	20	common						1	1	0	0												
			95	120	P	10YR 2/1									1	1	0	0												
288	SE835193	0.353	0	50	hCL	10YR 4/3	10YR 5/8, 10YR 5/1	50	very many		Yes	36	slightly calcareous	level	1	1	0	0	III	3a	125.87	28.30	1	1	1	1	Wetness			3a
			50	58	C	10YR 3/1	10YR 5/8	5	common						1	1	0	0												
			58	120	P	10YR 2/1									1	1	0	0												
289	SE836192	0.295	0	32	hZCL	10YR 3/3					Yes	32	slightly calcareous	level	1	1	0	0	IV	3b	120.02	21.87	1	1	1	1	Wetness			3b
			32	65	hZCL	10YR 5/6	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
			65	120	P	10YR 2/1									1	1	0	0												
290	SE836191	0.370	0	50	C	10YR 3/2	10YR 5/8	5	common		Yes	45	slightly calcareous	level	1	1	0	0	II	3a	134.47	39.30	1	1	1	1	Wetness			3a
			50	120	P	10YR 2/1									1	1	0	0												
291	SE836190	0.584	0	30	hCL	10YR 3/2					Yes	30	very slightly calcareous	level	1	1	0	0	IV	3b	-15.03	-46.82	3b	1	1	1	Wetness	Droughtiness		5
			30	48	C	10YR 4/2	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
			48	120	hCL	10YR 2/2	10YR 5/8	20	common						1	1	0	0												
292	SE836189	1.518	0	27	hZCL	10YR 3/2					Yes	27	non-calcareous	level	1	1	0	0	IV	3b	13.03	-3.88	2	1	1	1	Wetness			3b
			27	120	C	10YR 5/4	10YR 5/8. 10YR 5/1	50	very many						1	1	0	0												
293	SE837188	1.117	0	34	hZCL	10YR 3/2					Yes	34	slightly calcareous	level	1	1	0	0	IV	3b	44.35	14.57	1	1	1	1	Wetness			3b
			34	120	hZCL	10YR 5/4	10YR 5/8, 10YR 5/1, Mn	30	many						1	1	0	0												
294	SE837187	2.896	0	33	hZCL	10YR 3/2					Yes	33	non-calcareous	level	1	1	0	0	IV	3b	16.84	0.01	2	1	1	1	Wetness			3b
			33	120	C	10YR 5/2 -> 2.5YR 4/4	10YR 5/8, 10YR 5/1	30	many						1	1	0	0												
295	SE837187	3.307	0	29	mZCL	10YR 4/2					Yes	53	non-calcareous	level	1	1	0	0	II	2	43.62	13.54	1	1	1	1	Wetness			2
			29	68	mZCL	10YR 4/4	10YR 5/8, 10YR 5/1	5	common	medium					1	1	0	0												
			68	120	SCL	10YR 5/4	10YR 5/8, 10YR 5/1	30	many	medium					1	1	0	0												
296	SE838186	3.179	0	40	mZCL	10YR 3/3					Yes	50	non-calcareous	level	1	1	0	0	II	2	45.86	16.19	1	1	1	1	Wetness			2
			40	120	zcl -> fszl	10YR 4/6	10YR 5/8	20	common	medium					1	1	0	0												
297	SE838185	2.868	0	31	hCL	10YR 4/2					Yes	31	non-calcareous	level	1	1	0	0	IV	3b	34.75	7.45	2	1	1	1	Wetness			3b
			31	72	C	10YR 4/4	10YR 5/8, 10YR 5/1	5	common	medium					1	1	0	0												
			72	120	mZCL	10YR 5/4	10YR 4/1	5	common	medium					1	1	0	0												
298	SE838184	3.025	0	38	mZCL	10YR 3/3					Yes	38	non-calcareous	level	1	1	0	0	III	3a	19.93	3.15	2	1	1	1	Wetness			3a
			38	120	C	10YR 5/2 -> 2.5YR 3/3	10YR 5/8, 10YR 4/1	50	very many	medium					1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
299	SE838183	3.142	0	29	hCL	10YR 4/2					Yes	34	non-calcareous	level	1	1	0	0	IV	3b	36.01	7.77	2	1	1	1	Wetness			3b
			29	64	C	10YR 4/3	10YR 5/8, 10YR 4/1	5	common	medium					1	1	0	0												
			64	120	mZCL	10YR 4/4	10YR 5/8	30	many	medium					1	1	0	0												
300	SE839182	3.259	0	31	mZCL	10YR 4/2					Yes	50	non-calcareous	level	1	1	0	0	II	2	59.19	27.11	1	1	1	1	Wetness			2
			31	65	fSZL	10YR 5/4	10YR 5/8, 10YR 5/1	50	very many	medium					1	1	0	0												
			65	120	SCL	10YR 4/4	10YR 5/8, 10YR 5/1	20	common	medium					1	1	0	0												
301	SE839181	3.115	0	36	hZCL	10YR 4/2					Yes	36	non-calcareous	level	1	1	0	0	III	3b	17.53	-1.17	2	1	1	1	Wetness			3b
			36	120	banded mzcl & zc	10YR 5/6 -> 2.5YR 4/4	10YR 5/8, 10YR 5/1	50	very many	medium					1	1	0	0												
302	SE839180	2.952	0	35	C	10YR4/3					Yes	105	non-calcareous	level					I	3a	51.41	6.19	2	1	1	1	Wetness			3a
			35	73	C	10YR5/3							non-calcareous																	
			73	105	ZL	10YR5/8							very calcareous																	
			105	120	C	10YR6/2	10YR 5/8, 10YR 5/1	20	common	medium			non-calcareous																	
303	SE839179	2.247	0	36	mCL	10YR4/2					Yes	85	non-calcareous	level	2	1			I	1	49.81	28.80	1	1	1	1	None			1
			36	65	ZL	10YR5/3							non-calcareous		1															
			65	85	hZCL	10YR5/3							non-calcareous																	
			85	120	C	7.5YR5/2	GLEY15/N;7.7YR5/6	40	many	fine			non-calcareous																	
304	SE840178	1.434	0	32	hCL	10YR4/2					Yes	50	non-calcareous	level	2	1			II	3a	2.43	2.90	3a	1	1	1	Wetness			3a
			32	52	C	10YR4/3	7.5YR5/6;7.5YR5/1	20	common	medium			non-calcareous																	
			52	69	C	10YR5/2	7.5YR5/8;GLEY16/N	50	very many	medium			non-calcareous																	
			69	82	hCL	10YR3/2	7.5YR5/8	20	common	medium			non-calcareous																	
			82	108	PL	7.5YR2.5/1							non-calcareous																	
			108	120	mS	10YR6/1							non-calcareous																	
305	SE840177	1.382	0	37	C	10YR3/2					Yes	40	non-calcareous	level	0				III	3b	13.48	-3.42	2	1	1	1	Wetness			3b
			37	70	C	10YR5/1	10YR5/8	15	common	medium			non-calcareous																	
			70	120	IMP																									
306	SE840176	1.202	0	26	hCL	10YR4/2					Yes	45	non-calcareous	level	2				III	3b	-9.45	-18.43	3a	1	1	1	Wetness			3b
			26	45	hCL	10YR4/2							non-calcareous																	
			45	54	hCL	10YR5/2	10YR6/6;10YR6/1	40	many	fine			non-calcareous																	
			54	85	PL	7.5YR2.5/1	10YR6/8						non-calcareous																	
			85	120	mS	10YR6/1		2	common	medium			non-calcareous																	
307	SE841175	1.822	0	42	C	10YR3/3					Yes	55	non-calcareous	level	1				II	3b	-12.22	6.07	3a	1	1	1	Wetness			3b
			42	68	C	10YR5/1	10YR5/8	25	many	medium			non-calcareous																	
			68	75	C	10YR3/1							non-calcareous																	
			75	105	PL	5YR2.5/1							non-calcareous																	
			105	120	PL	5YR2.5/1							non-calcareous																	
308	SE841174	1.122																												Not surveyed
309	SE841173	2.400																												Not surveyed
310	SE841172	2.102																												Not surveyed
311	SE842171	2.019																												Not surveyed
312	SE842170	1.294																												Not surveyed
313	SE842169	1.315																												Not surveyed
314	SE843168	1.246																												Not surveyed
315	SE842167	1.401																												Not surveyed
316	SE842166	2.361																												Not surveyed
317	SE842165	3.353																												Not surveyed
318	SE842164	2.856	0	31	mZCL	10YR3/3							very calcareous	level	1				I	1	73.69	33.29	1	1	1	1	None			1
			31	75	hZCL	10YR4/4	7.5YR5/6	15	common	fine			very calcareous																	
			75	100	hCL	10YR4/4							very calcareous																	
			100	120	ZL	10YR4/6							very calcareous																	
319	SE842163	2.927	0	23	mZCL	10YR4/2					Yes	80	moderately calcareous	level	2	1			I	1	106.15	39.79	1	1	1	1	None			1
			23	43	mZCL	10YR4/2							very calcareous		1															
			43	82	ZL	10YR5/3	10YR5/6	3	common	fine			very calcareous																	
			82	120	ZL	10YR5/3	10YR5/6;10YR6/1	40	many	coarse			very calcareous																	
320	SE841162	2.983	0	36	mZCL	10YR3/3							very calcareous	level	2	1			I	1	104.19	37.82	1	1	1	1	None			1
			36	75	ZL	10YR4/4							very calcareous		1															
			75	120	ZL	10YR4/6	10YR6/8	10	common	medium			very calcareous																	
321	SE841161	3.045	0	25	mZCL	10YR4/2					Yes	55	moderately calcareous	level	1				II	2	57.38	38.16	1	1	1	1	Wetness			2
			25	54	mZCL	10YR4/2							very calcareous																	
			54	93	ZL	10YR5/3	7.5YR5/8;7.5YR5/1	40	many	medium			very calcareous																	
			93	120	LS	10YR6/3	7.5YR5/8;7.5YR5/1	50	very many	medium			very calcareous																	
322	SE841160	3.500	0	32	ZL	10YR4/2							moderately calcareous	level	1				I	1	99.34	52.24	1	1	1	1	None			1
			32	85	ZL	10YR5/6							very calcareous		2															

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			85	92	hZCL	10YR4/3							very calcareous																	
			92	120	fS	10YR5/8							moderately calcareous																	
323	SE841159	3.551	0	28	mZCL	10YR4/2					Yes	60	moderately calcareous	level					II	2	89.90	35.15	1	1	1	1	Wetness			2
			28	43	mZCL	10YR4/2							moderately calcareous																	
			43	61	ZL	10YR5/4	10YR5/6;10YR6/1	25	many	fine			very calcareous																	
			61	78	mZCL	10YR5/3	7.5YR5/8;7.5YR6/1	40	many	fine			very calcareous																	
			78	115	ZL	10YR5/3	10YR5/6;10YR6/1	50	very many	fine			very calcareous																	
			115	120	ZC	10YR5/3	7.5YR4/4;7.5YR6/1;7.5YR5/8	40	many	fine			very calcareous																	
324	SE841158	3.480	0	36	ZL	10YR4/3					Yes	95	very calcareous	level	2	1			I	1	116.50	53.28	1	1	1	1	None			1
			36	90	ZL	10YR4/6							very calcareous																	
			90	120	fSZL	10YR4/6	10YR6/8; 10YR6/1	40	many	medium			very calcareous																	
325	SE840157	3.390																												Not surveyed
326	SE840157	3.516																												Not surveyed
327	SE839157	2.829																												Not surveyed
328	SE838156	2.483	0	28	mZCL	10YR3/3					Yes	102	very calcareous	level	0				I	1	63.16	39.85	1	1	1	1	None			1
			28	45	hZCL	10YR4/4							very calcareous																	
			45	77	ZL	10YR5/4	10YR5/8	30	many	medium			very calcareous																	
			77	102	ZC	10YR4/4							very calcareous																	
			102	120	C	7.5YR5/1	10YR5/6; 7.5YR4/6	25	many	medium			very calcareous																	
329	SE837156	2.590	0	22	hZCL	10YR4/2					Yes	60	slightly calcareous	level					II	2	35.83	19.09	1	1	1	1	Wetness			2
			22	43	hZCL	10YR4/2							moderately calcareous																	
			43	58	mZCL	10YR5/3	7.5YR5/6;7.5YR5/1	15	common	medium			very calcareous																	
			58	77	ZC	10YR5/3	7.5YR5/6;10YR5/6;10YR5/1	40	many	medium			very calcareous																	
			77	120	ZC	10YR5/3	7.7YR4/4;10YR5/6;7.5YR6/1	50	very many	medium			very calcareous																	
330	SE836155	2.841	0	37	C	10YR4/2					Yes	55	slightly calcareous	level					II	3a	44.86	20.02	1	1	1	1	Wetness			3a
			37	50	ZL	10YR4/4	10YR6/8	10	common	medium			very calcareous																	
			50	105	hZCL	10YR5/1	10YR5/8	20	common	medium			very calcareous																	
			105	120	C	10YR4/3							moderately calcareous																	
331	SE835155	1.491	0	28	hZCL	10YR4/2					Yes	45	moderately calcareous	level	2	1			III	3a	51.16	21.73	1	1	1	1	Wetness			3a
			28	42	hZCL	10YR4/2							moderately calcareous		1															
			42	59	hZCL	10YR4/3	7.5YR5/6;7.5YR5/1	35	many	medium			very calcareous																	
			59	70	mZCL	10YR5/3	7.5YR5/6;7.5YR5/1	35	many	medium			very calcareous																	
			70	88	mZCL	10YR5/3	7.5YR5/6;7.5YR5/1	35	many	medium			very calcareous																	
			88	120	hZCL	10YR5/3	7.5YR5/6;7.5YR5/1;7.5YR4/4	40	many	medium			very calcareous																	
332	SE834154	1.432																												Not surveyed
333	SE833154	1.483																												Not surveyed
334	SE832154	2.045																												Not surveyed
335	SE831153	1.500	0	36	C	10YR3/3							slightly calcareous	level					I	2	33.24	7.69	2	1	1	1	Wetness	Droughtiness		2
			36	80	C	10YR4/3							very calcareous																	
			80	120	hCL	10YR5/4	10YR5/6	15	common	medium			very calcareous																	
336	SE830153	2.000	0	18	hZCL	10YR4/2							moderately calcareous	level					I	2	55.32	25.74	1	1	1	1	Wetness			2
			18	46	hZCL	10YR4/2							very calcareous																	
			46	58	hZCL	10YR5/3	10YR5/8;10YR5/1	5	common	fine			very calcareous																	
			58	120	mZCL	10YR5/4	10YR5/8;10YR5/1	35	many	fine			very calcareous																	
337	SE830152	2.510	0	32	hZCL	10YR3/3							slightly calcareous	level	0 .				I	2	-13.79	-43.34	3b	1	1	1	Droughtiness			3b
			32	120	mZCL	10YR4/3	10YR5/6	10	common	medium			very calcareous																	
338	SE829152	2.527	0	22	hZCL	10YR4/2					Yes	60	slightly calcareous	level	1				II	2	52.83	23.24	1	1	1	1	Wetness			2
			22	43	hZCL	10YR4/2							very calcareous																	
			43	59	hZCL	10YR5/2	10YR5/6;7.5YR4/6;7.5YR5/1	10	common	fine			very calcareous																	
			59	120	mZCL	10YR5/3	10YR5/6;7.5YR4/6;7.5YR5/1	50	very many	fine			very calcareous																	
339	SE828152	2.891	0	38	ZC	10YR4/2							very calcareous	level	0				I	2	66.59	23.48	1	1	1	1	Wetness			2
			38	105	hZCL	10YR5/4							very calcareous																	
			105	120	ZL	10YR4/6	10YR6/8; 10YR6/1	15	common	medium			very calcareous																	
340	SE827151	2.868	0	35	hCL	10YR4/3							very calcareous	level	0				I	2	90.62	29.58	1	1	1	1	Wetness			2
			35	62	hZCL	10YR4/4							very calcareous																	
			62	79	ZL	10YR5/6							very calcareous																	
			79	118	ZL	10YR5/8							very calcareous																	
			118	120	ZC	10YR4/4							very calcareous																	
341	SE826151	2.840	0	30	hZCL	10YR4/2							moderately calcareous	level					I	2	51.14	21.46	1	1	1	1	Wetness			2
			30	43	hZCL	10YR4/2	10YR5/6;10YR5/1	3	common	fine			very calcareous																	
			43	85	mZCL	10YR5/3	10YR5/6;10YR5/1	5	common	fine			very calcareous																	
			85	120	mZCL	10YR6/3	10YR5/6;10YR5/1	15	common	fine			very calcareous																	
342	SE825150	2.910	0	38	hZCL	10YR4/2							moderately calcareous	level	0				I	2	46.77	15.23	1	1	1	1	Wetness			2
			38	85	hCL	10YR4/4							very calcareous																	
			85	120	hZCL	10YR4/5							very calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
343	SE824150	3.065	0	21	hZCL	10YR4/2					Yes	70	slightly calcareous	level	1				I	2	65.51	32.64	1	1	1	1	Wetness			2
			21	38	hZCL	10YR4/2							moderately calcareous																	
			38	51	mZCL	10YR4/3							very calcareous																	
			51	72	ZL	10YR5/3	10YR5/8;10YR5/1	15	common	medium			very calcareous																	
			72	120	mZCL	10YR5/4	10YR5/8;10YR5/1	40	many	medium			very calcareous																	
344	SE823150	3.038	0	34	hCL	10YR3/4							moderately calcareous	level	0				I	2	43.39	13.77	1	1	1	1	Wetness			2
			34	80	hZCL	10YR5/4							very calcareous																	
			80	120	mZCL	10YR4/6	10YR5/8;10YR5/1	5	common	fine			very calcareous																	
345	SE822149	2.613	0	20	hZCL	10YR4/2							slightly calcareous	level					I	2	49.82	18.73	1	1	1	1	Wetness			2
			20	37	hZCL	10YR4/2							moderately calcareous																	
			37	66	hCL	10YR5/3							very calcareous																	
			66	82	hZCL	10YR5/4	7.5YR5/8;7.5YR5/1	7	common	medium			very calcareous																	
			82	120	hZCL	10YR5/4	7.5YR5/8;7.5YR5/1	10	common	medium			very calcareous																	
346	SE821149	2.143	0	42	hCL	10YR3/3							slightly calcareous	level	0				I	2	52.69	12.24	1	1	1	1	Wetness			2
			42	67	C	10YR4/4							moderately calcareous																	
			67	102	hZCL	10YR4/4	7.5YR4/6	15	common	medium			very calcareous																	
			102	120	ZL	10YR5/4	7.5YR4/6	20	common	medium			very calcareous																	
347	SE820148	2.151	0	34	hCL	10YR3/3							moderately calcareous	level					I	2	39.33	10.95	1	1	1	1	Wetness			2
			34	62	C	7.5YR4/3							very calcareous																	
			62	120	hZCL	10YR5/4	10YR6/8	5	common	fine			very calcareous																	
348	SE820148	1.694	0	27	hCL	10YR4/2					Yes	75	moderately calcareous	level					I	2	37.18	20.18	1	1	1	1	Wetness			2
			27	45	hCL	10YR4/2							very calcareous																	
			45	78	hZCL	10YR5/3	7.5YR5/8	5	common	medium			very calcareous																	
			78	120	C	10YR5/3	7.5YR5/6;7.5YR5/8;7.5YR6/1	40	many	medium			very calcareous																	
349	SE819147	0.503	0	27	hCL	10YR3/3					Yes	78	moderately calcareous	level					I	2	46.59	23.81	1	1	1	1	Wetness			2
			27	55	hCL	10YR3/3							moderately calcareous																	
			55	78	hZCL	10YR5/3	10YR5/8;10YR5/1	5	common	medium			very calcareous																	
			78	97	hZCL	10YR5/3	10YR5/8;10YR5/1	20	common	medium			very calcareous																	
			97	120	C	10YR5/3	7.5YR5/6;7.5YR5/8;7.5YR6/1	35	many	medium			very calcareous																	
350	SE818147	1.741																												Not surveyed
351	SE817147	1.942																												Not surveyed
352	SE816146	1.618																												Not surveyed
353	SE815146	1.293																												Not surveyed
354	SE814145	1.291																												Not surveyed
355	SE813145	1.658																												Not surveyed
356	SE812145	0.175																												Not surveyed
357	SE811144	-0.054																												Not surveyed
358	SE810144	0.275																												Not surveyed
359	SE809143	1.263																												Not surveyed
360	SE809143	1.106																												Not surveyed
361	SE808143	0.746																												Not surveyed
362	SE807142	1.240																												Not surveyed
363	SE806142	1.363																												Not surveyed
364	SE805141	0.419																												Not surveyed
365	SE804141	0.653																												Not surveyed
366	SE803140	1.232																												Not surveyed
367	SE802140	1.758																												Not surveyed
368	SE801140	1.125																												Not surveyed
369	SE800139	0.926																												Not surveyed
370	SE799139	1.327																												Not surveyed
371	SE799138	1.414																												Not surveyed
372	SE798138	1.291	0	31	ZCL	10YR3/2					Yes	31	very calcareous	level	1	1	0	0	III	3a	105.40	46.92	1	1	1	1	Wetness			3a
			31	45	ZCL	10YR5/3	10YR 5/8	50	very many	medium					1	1	0	0												
			45	60	P	10YR2/1									1	1	0	0												
			60	120	banded fsl & fszl	10YR5/2	10YR 5/8	50	very many	medium					1	1	0	0												
373	SE798137	0.863	0	34	hCL	10YR3/2					Yes	70	very calcareous	level	1	1	0	0	III	3a	127.37	66.89	1	1	1	1	Wetness			3a
			34	70	P	10YR2/1									1	1	0	0												
			70	120	fSL	10YR4/1	10YR 5/8	20	common	medium					1	1	0	0												
374	SE798136	1.059	0	35	ZCL	10YR3/2					Yes	35	very calcareous	level	1	1	0	0	III	2	62.59	37.77	1	1	1	1	Wetness			2
			35	55	P	10YR2/1									1	1	0	0												
			55	95	LmS	10YR 4/1 -> 5/6	10YR 5/8	20	common	medium					1	1	0	0												
			95	120	C	10YR 5/1	10YR 5/8, 10YR 5/1	50	very many	medium					1	1	0	0												
375	SE798135	1.074	0	30	mZCL	10YR3/2					Yes	30	very calcareous	level	1	1	0	0	III	2	85.34	30.60	1	1	1	1	Wetness			2
			30	45	fSL	5YR 5/6	Mn	20	common	medium					1	1	0	0												
			45	55	C	10YR 4/2	10YR 5/8	20	common	medium					2	2	0	0												
			55	67	mZCL	5YR 5/6	10YR 5/8	20	common	medium					1	1	0	0												
			67	90	P	10YR2/1									1	1	0	0												
			90	120	LmS	10YR 3/1									1	1	0	0												
376	SE798134	2.193	0	32	SCL	10YR3/2					Yes	32	very calcareous	level	1	1	0	0	III	2	65.42	35.21	1	1	1	1	Wetness			2
			32	55	SCL	10YR 5/3	10YR 5/8, 10YR 5/1	20	common	medium					1	1	0	0												
			55	75	P	10YR2/1									1	1	0	0												
			75	120	LmS	10YR 3/1									1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
377	SE798133	2.253	0	43	hCL	10YR 3/2	10YR 5/8	20	common	medium	Yes	37	very calcareous	level	2	2	0	0	III	3a	102.59	37.25	1	1	1	1	Wetness			3a
			43	120	PL	10YR 2/1									1	1	0	0												
378	SE797132	1.185	0	32	ZCL	10YR 3/3					Yes	32	very calcareous	level	1	1	0	0	III	3a	99.67	33.60	1	1	1	1	Wetness			3a
			32	50	hZCL	10YR 4/2	10YR 5/8	1	few	fine					1	1	0	0												
			50	65	P	10YR 2/1																								
			65	120	mixed p, pl & fls	10YR 2/1 & 4/1																								
379	SE797131	1.180	0	31	ZCL	10YR 3/1					Yes	31	very calcareous	level	1	1	0	0	III	3a	93.45	31.07	1	1	1	1	Wetness			3a
			31	45	ZCL	10YR 4/4	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
			45	75	fSL	10YR 5/4	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
			75	95	P	10YR 2/1									1	1	0	0												
			95	120	LmS	10YR 5/1	10YR 5/8	20	common						1	1	0	0												
380	SE797130	1.317	0	41	mZCL	10YR 3/1	Mn	20	common		Yes	26	very slightly calcareous	level	1	1	0	0	III	3a	83.07	41.01	1	1	1	1	Wetness			3a
			41	54	hZCL	10YR 4/3	10YR 5/8. Mn	50	very many						1	1	0	0												
			54	67	P	10YR 2/1									1	1	0	0												
			67	120	mSL	10YR 5/1	10YR 5/8	30	many						1	1	0	0												
381	SE797129	1.236	0	42	mSL	10YR 3/1					Yes	80	very slightly calcareous	level	1	1	0	0	I	1	41.89	-6.59	2	1	1	1	Droughtiness			2
			42	80	LmS	10YR 4/3									1	1	0	0												
			80	120	LfS	10YR 6/3	10YR 5/8	30	many						1	1	0	0												
382	SE797128	1.793	0	28	mSL	10YR 3/1					Yes	50	very calcareous	level	1	1	0	0	II	1	89.59	26.12	1	1	1	1	None			1
			28	50	mZCL	10YR 4/3									1	1	0	0												
			50	72	fSL	10YR 4/2	10YR 5/8	30	many						1	1	0	0												
			72	120	fSZL	10YR 4/1	10YR 5/8	30	many						1	1	0	0												
383	SE797127	1.630	0	38	mSL	10YR 3/1					No		very calcareous	level	1	1	0	0	I	1	60.49	36.84	1	1	1	1	None			1
			38	45	mSL	10YR 4/4									1	1	0	0												
			45	65	P	10YR 2/1									1	1	0	0												
			65	120	LmS	10YR 5/10 -> 6/6									1	1	0	0												
384	SE797126	1.488	0	36	mSL	10YR 3/1					Yes	36	slightly calcareous	level	1	1	0	0	III	2	68.63	45.00	1	1	1	1	Wetness			2
			36	50	mZCL	10YR 4/4	10YR 5/8	5	common						1	1	0	0												
			50	72	P	10YR 2/1									1	1	0	0												
			72	120	LmS	10YR 5/10 -> 6/6	10YR 5/8	5	common						1	1	0	0												
385	SE797125	2.345	0	36	SCL	10YR 3/1					Yes	36	very slightly calcareous	level	1	1	0	0	III	3a	23.73	-8.73	2	1	1	1	Wetness			3a
			36	120	LmS	10YR 6/1	10YR 5/8	20	common						1	1	0	0												
386	SE797124	2.588	0	35	hCL	10YR 5/2					No		non-calcareous	level	5	5	0	0	I	2	28.01	-1.94	2	1	1	1	Wetness	Droughtiness		2
			35	120	SCL	10YR 7/2									10	10	0	0												
387	SE797123	1.690	0	50	mCL	10YR 4/1					No		very slightly calcareous	level	2	2	0	0	I	1	65.27	18.72	1	1	1	1	None			1
			50	55	SCL	10YR 7/1									10	10	0	0												
			55	75	mCL	10YR 3/3																								
			75	120	LfS	10YR 7/1																								
388	SE797122	1.044	0	35	hCL	10YR 3/2					Yes	35	very calcareous	level	1	1	0	0	III	3a	72.52	25.76	1	1	1	1	Wetness			3a
			35	70	hCL	10YR 5/4	10YR 5/8	5	common						1	1	0	0												
			70	85	P	10YR 2/1									1	1	0	0												
			85	120	LmS	10YR 4/1									1	1	0	0												
389	SE796121	1.956	0	38	hCL	10YR 3/2					Yes	38	slightly calcareous	level	1	1	0	0	III	3a	89.20	7.86	2	1	1	1	Wetness			3a
			38	55	mCL	10YR 4/4	10YR 5/8	5	common						1	1	0	0												
			55	85	SCL	10YR 4/1	10YR 5/8	5	common						1	1	0	0												
			85	120	P	10YR 2/1									1	1	0	0												
390	SE796120	1.828																												Not surveyed
391	SE796119	1.804																												Not surveyed
392	SE796118	1.680																												Not surveyed
393	SE796117	1.541	0	34	C	10YR 3/2					Yes	35	very calcareous	level	1	1	0	0	III	3a	29.67	-2.52	2	1	1	1	Wetness			3a
			34	45	C	10YR 4/3	10YR 5/8	20	common						1	1	0	0												
			45	60	mSL	10YR 4/3	10YR 5/1	20	common						1	1	0	0												
			60	80	LmS	10YR 7/2	10YR 5/8	20	common						1	1	0	0												
			80	120	SCL	10YR 6/3	10YR 5/8	30	many						1	1	0	0												
394	SE796116	1.488	0	34	hCL	10YR 3/2					Yes	34	slightly calcareous	level	1	1	0	0	III	3a	56.25	29.84	1	1	1	1	Wetness			3a
			34	48	C	10YR 4/3	10YR 5/8	5	common						1	1	0	0												
			48	67	PL	10YR 2/2									1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			67	120	SCL	10YR 5/4	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
395	SE796115	1.618	0	31	hCL	10YR 3/2					Yes	31	very calcareous	level	1	1	0	0	III	3a	56.51	24.41	1	1	1	1	Wetness			3a
			31	40	hCL	10YR 5/4	10YR 5/8	20	common						1	1	0	0												
			40	45	P	10YR 2/1									1	1	0	0												
			45	75	mSL	10YR 4/1 -> 6/2									1	1	0	0												
			75	120	LmS	10YR 7/2									1	1	0	0												
396	SE796114	1.857	0	34	hCL	10YR 3/3					Yes	34	very calcareous	level	1	1	0	0	III	3a	41.93	23.74	1	1	1	1	Wetness			3a
			34	40	hCL	10YR 5/3	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
			40	45	P	10YR 2/1									1	1	0	0												
			45	80	mSL	5YR 5/6									1	1	0	0												
			80	120	mS	5YR 5/7									1	1	0	0												
397	SE796113	1.694	0	39	mCL	10YR 3/3					Yes	39	non-calcareous	level	1	1	0	0	III	3a	54.81	5.96	2	1	1	1	Wetness			3a
			39	50	LfS	10YR 5/4	10YR 5/8	5	common						1	1	0	0												
			50	120	fS	10YR 6/4 -> 2.5YR 4/4	10YR 5/8, 10YR 5/1	30	many						1	1	0	0												
398	SE796112	2.148	0	33	hCL	10YR 4/2					Yes	33	very calcareous	level	1	1	0	0	III	3a	24.51	11.75	2	1	1	1	Wetness			3a
			33	45	hCL	10YR 5/4	10YR 5/8, 10YR 5/1	30	many						1	1	0	0												
			45	52	P	10YR 2/1									1	1	0	0												
			52	120	mS	10YR 5/1	10YR 5/8, 10YR 5/1	30	many						1	1	0	0												
399	SE796111	2.338	0	35	hCL	10YR 4/2					Yes	35	slightly calcareous	level	1	1	0	0	III	3a	63.86	14.12	1	1	1	1	Wetness			3a
			35	120	mSL	10YR 5/3	10YR 5/8	20	common						1	1	0	0												
400	SE796110	1.590	0	32	C	10YR 4/2					Yes	32	very calcareous	level	1	1	0	0	III	3a	47.72	21.25	1	1	1	1	Wetness			3a
			32	55	C	10YR 5/3	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
			55	65	mCL	10YR 3/3									1	1	0	0												
			65	120	LmS	10YR 5/1	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
401	SE796108	1.974	0	38	hZCL	10YR 3/3					Yes	38	very calcareous	level	1	1	0	0	III	3a	0.84	-13.19	3a	1	1	1	Wetness	Droughtiness		3a
			38	120	mS	10YR 5/1	10YR 5/8, Mn	20	common						1	1	0	0												
402	SE795107	1.627	0	34	hCL	10YR 43					Yes	31	very calcareous	level	1	1	0	0	III	3a	5.87	-6.81	2	1	1	1	Wetness			3a
			34	64	LmS	10YR 6/1	10YR 5/8	5	common						2	2	0	0												
			64	120	mS	10YR 6/1	10YR 5/8	5	common						1	1	0	0												
403	SE795106	1.350	0	32	hCL	10YR 4/3					Yes	50	very calcareous	level	2	2	0	0	II	2	26.64	-5.20	2	1	1	1	Wetness	Droughtiness		2
			32	120	LmS	10YR 6/1	10YR 5/8	20	common						1	1	0	0												
404	SE795105	0.813	0	35	hZCL	10YR 3/3					Yes	70	very calcareous	level	1	1	0	0	II	2	32.41	0.56	2	1	1	1	Wetness	Droughtiness		2
			35	70	LmS	10YR 3/3 & 5/3									1	1	0	0												
			70	120	LmS	10YR 6/1	10YR 5/8, 10YR 5/1, 10YR 6/6	20	common						1	1	0	0												
405	SE795104	1.147	0	36	hCL	10YR 3/3					Yes	36	very calcareous	level	1	1	0	0	III	3a	29.63	-2.19	2	1	1	1	Wetness			3a
			36	120	LmS	10YR 5/1	10YR 5/8	20	common						1	1	0	0												
406	SE795103	1.908	0	31	hCL	10YR 3/3					Yes	31	very calcareous	level	2	2	0	0	III	3a	66.38	16.78	1	1	1	1	Wetness			3a
			31	46	SCL	10YR 6/3	10YR 5/8, 10YR 7/1	30	many						1	1	0	0												
			46	120	mSL	10YR 6/3	10YR 5/8, 10R 4/8	30	many						1	1	0	0												
407	SE795102	2.140	0	35	hCL	10YR 4/3					Yes	40	very calcareous	level	1	1	0	0	III	3a	4.00	-9.94	3a	1	1	1	Wetness	Droughtiness		3a
			35	40	PL	10YR 2/1									1	1	0	0												
			40	120	mS	10YR 6/3									1	1	0	0												
408	SE795100	2.259	0	35	C	10YR 3/3					Yes	35	very calcareous	level	1	1	0	0	III	3a	44.23	26.37	1	1	1	1	Wetness			3a
			35	65	C	10YR 5/4	10YR 5/8, 10YR 6/6	30	many						1	1	0	0												
			65	80	ZL	10YR 3/1									1	1	0	0												
			80	120	mS	10YR 6/1	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
409	SE795099	2.558	0	37	hCL	10YR 3/3					Yes	37	slightly calcareous	level	1	1	0	0	III	3a	34.98	5.15	2	1	1	1	Wetness			3a
			37	51	C	10Y4 4/3	10YR 5/8, 10YR 5/1, Mn	30	many						1	1	0	0												
			51	59	mSZL	10YR 3/1	10YR 5/4	50	very many						1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			59	80	LmS	10YR 7/2									1	1	0	0												
			80	120	SCL	10YR 6/4	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
410	SE795098	2.433	0	34	mZCL	10YR 3/2					Yes	34	slightly calcareous	level	1	1	0	0	III	2	53.17	25.41	1	1	1	1	Wetness			2
			34	70	SCL	10YR 6/1	10YR 5/8, 10YR 6/6	20	common						1	1	0	0												
			70	120	LmS	10YR 6/1	10YR 5/8, 10YR 6/6	20	common						1	1	0	0												
411	SE795097	0.872	0	35	mZCL	10YR 3/2					Yes	35	very slightly calcareous	level	1	1	2	0	III	3a	-2.49	-16.47	3a	1	1	1	Wetness	Droughtiness		3a
			35	120	mS	10YR 6/6 -> 2.5YR 6/3	10YR 5/8	20	common						1	1	0	0												
412	SE795096	1.730	0	34	mCL	10YR 3/2					Yes	34	very slightly calcareous	level	1	1	0	0	III	3a	2.98	-10.47	3a	1	1	1	Wetness	Droughtiness		3a
			34	55	LmS	10YR 5/6	10YR 5/8, 10YR 4/1	50	very many						1	1	0	0												
			55	120	mS	10YR 7/2	10YR 5/8	50	very many						1	1	0	0												
413	SE795095	1.436	0	33	hCL	10YR 3/3					Yes	33	very slightly calcareous	level	1	1	0	0	III	3b	44.81	15.01	1	1	1	1	Wetness			3b
			33	60	SCL	10YR 5/1	10YR 5/8	50	very many						1	1	0	0												
			60	120	LmS	2.5YR 6/3	10YR 5/1	5	common						1	1	0	0												
414	SE795094	1.782	0	31	mCL	10YR 3/2					Yes	31	non-calcareous	level	1	1	0	0	III	3a	71.59	22.00	1	1	1	1	Wetness			3a
			31	34	mCL	10YR 5/4	10YR 5/8	20	common						1	1	0	0												
			34	50	mCL	10YR 2/2									1	1	0	0												
			50	75	mSL	10YR 7/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
			75	120	LfS	10YR 7/2	10YR 5/8	50	very many						1	1	0	0												
415	SE795093	1.618	0	34	hCL	10YR 3/3					Yes	34	non-calcareous	level	1	1	0	0	III	3b	68.00	18.89	1	1	1	1	Wetness			3b
			34	55	SCL	10YR 5/1	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
			55	120	mSL	10YR 7/2	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
416	SE794092	1.507	0	33	mCL	10YR 3/2					Yes	33	very slightly calcareous	level	1	1	0	0	III	3a	67.59	13.99	1	1	1	1	Wetness			3a
			33	50	SCL	10YR 5/4	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
			50	120	LfS	5YR 5/6	10YR 5/8, Mn	30	many						1	1	0	0												
417	SE795091	2.020	0	34	SCL	10YR 3/3					Yes	80	very calcareous	level	1	1	0	0	I	1	22.22	-10.56	3a	1	1	1	Droughtiness			3a
			34	45	mSL	10YR 5/6									1	1	0	0												
			45	80	LmS	10YR 5/4									1	1	0	0												
			80	120	SCL	5YR 5/6	10YR 5/8	5	common						1	1	0	0												
418	SE795090	1.792	0	35	hCL	10YR 3/2					Yes	35	very slightly calcareous	level	1	1	0	0	III	3b	-5.82	-19.82	3a	1	1	1	Wetness			3b
			35	120	mS	7.5YR 5/8	10YR 7/1	20	common						1	1	0	0												
419	SE796089	1.890	0	37	hCL	10YR 3/2					Yes	37	very slightly calcareous	level	1	1	0	0	III	3b	-3.63	-17.62	3a	1	1	1	Wetness			3b
			37	120	mS	7.5YR 5/8	10YR 7/1, Mn	20	common	coarse					1	1	0	0												
420	SE796088	1.223	0	36	SCL	10YR 3/3					Yes	36	non-calcareous	level	1	1	0	0	III	3a	26.28	-5.58	2	1	1	1	Wetness			3a
			36	120	LmS	10YR 5/1 -> 2.5YR 6/3	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
421	SE797087	1.596	0	37	SCL	10YR 3/3					Yes	37	slightly calcareous	level	1	1	0	0	III	2	57.03	9.94	2	1	1	1	Wetness	Droughtiness		2
			37	54	mSZL	10YR 5/4	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
			54	120	fS	10YR 6/4?	10YR 5/8	20	common						1	1	0	0												
422	SE797087	1.966	0	36	mZCL	10YR 3/3					Yes	36	non-calcareous	level	1	1	0	0	III	3a	33.52	1.69	2	1	1	1	Wetness			3a
			36	120	LmS	10YR 5/1 -> 7.5YR 5/8	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
423	SE798086	1.550	0	34	hCL	10YR 4/2					Yes	34	non-calcareous	level	1	1	0	0	III	3b	50.40	21.51	1	1	1	1	Wetness			3b
			34	50	C	10YR 5/1	10YR 5/8, 10R 4/8	50	very many						1	1	0	0												
			50	65	SCL	10YR 6/1	10YR 5/8	50	very many						1	1	0	0												
			65	120	LmS	5YR 6/6									1	1	0	0												
424	SE798085	1.623	0	35	ZCL	10YR 3/3					Yes	35	non-calcareous	level	1	1	0	0	III	3b	32.79	0.93	2	1	1	1	Wetness			3b
			35	120	LmS	10YR 5/1 -> 7.5YR 5/8	10YR 5/8	30	many						1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
425	SE799084	1.568	0	38	ZL	10YR 2/1					Yes	38	non-calcareous	level	1	1	0	0	III	3a	29.82	15.67	2	1	1	1	Wetness			3a
			38	55	LfS	10YR 3/1	10YR 5/8	20	common						1	1	0	0												
			55	100	mS	10YR 6/6	10YR 5/8	20	common						1	1	0	0												
			100	120	IMP																									
426	SE799083	1.374	0	34	fSL	10YR 2/1					Yes	34	non-calcareous	level	1	1	0	0	III	2	73.07	21.37	1	1	1	1	Wetness			2
			34	50	SCL	10YR 5/1	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
			50	80	fSL	10YR 6/4									1	1	0	0												
			80	120	LfS	10YR 7/4									1	1	0	0												
427	SE800082	1.960	0	35	ZL	10YR 2/1					Yes	35	non-calcareous	level	1	1	0	0	III	3a	97.82	30.63	1	1	1	1	Wetness			3a
			35	52	hCL	10YR 5/1	10YR 5/8	20	common						1	1	0	0												
			52	65	SCL	10YR 5/1	10YR 5/8	20	common						1	1	0	0												
			65	120	fSL	10YR 6/2	10YR 5/8	5	common						1	1	0	0												
428	SE800081	1.808	0	28	ZL	10YR 2/1					Yes	70	non-calcareous	level	1	1	0	0	III	3a	65.74	20.12	1	1	1	1	Wetness			3a
			28	38	hCL	10YR 2/1									1	1	0	0												
			38	46	hZCL	10YR 3/1									1	1	0	0												
			46	70	fS	10YR 6/1									1	1	0	0												
			70	80	LmS	10YR 7/4	10YR 5/8	5	common						1	1	0	0												
			80	120	fS	10YR 7/6									1	1	0	0												
429	SE801081	2.604	0	40	hCL	10YR 3/2					Yes	40	non-calcareous	level	1	1	0	0	III	3b	44.09	13.26	1	1	1	1	Wetness			3b
			40	60	hCL	10YR 4/2	10YR 5/8	1	few						1	1	0	0												
			60	80	hCL	10YR 5/1	10YR 5/8	50	very many						1	1	0	0												
			80	100	SCL	10YR 6/1	10YR 5/8	50	very many						1	1	0	0												
			100	120	IMP																									
430	SE801080	3.573	0	37	C	10YR 3/2	10YR 5/8	1	few		Yes	37	non-calcareous	level	1	1	0	0	III	3b	15.31	-0.57	2	1	1	1	Wetness			3b
			37	100	C	10YR 5/2 & 2.5YR 5/6	10YR 5/8	30	many						1	1	0	0												
			100	120	IMP																									
431	SE801079	4.300	0	25	hCL	10YR 3/3					Yes	25	non-calcareous	level	1	1	0	0	III	3b	16.31	0.60	2	1	1	1	Wetness			3b
			25	36	C	10YR 5/2									1	1	0	0												
			36	120	C	2.5YR 5/4	10YR 5/1, 10R 4/8	30	many						1	1	0	0												
432	SE801078	3.468	0	36	C	10YR 3/2	10YR 5/8	1	few		Yes	36	non-calcareous	level	1	1	0	0	III	3b	14.96	-0.92	2	1	1	1	Wetness			3b
			36	100	C	10YR 5/2 & 2.5YR 5/6	10YR 5/8	30	many						1	1	0	0												
			100	120	IMP																									
433	SE802077	4.823	0	36	C	10YR 3/4					Yes	36	non-calcareous	level	1	1	0	0	III	3b	18.65	2.96	2	1	1	1	Wetness			3b
			36	48	C	10YR 5/2	10YR 5/8, Mn	20	common	very fine					1	1	0	0												
			48	120	C	10YR 5/1	Mn	20	common	medium					1	1	0	0												
434	SE802076	6.010	0	36	C	10YR 3/2	10YR 5/8	1	few		Yes	36	non-calcareous	gently sloping	1	1	0	0	III	3b	15.42	-0.35	2	1	1	1	Wetness			3b
			36	100	C	10YR 5/2 & 2.5YR 5/6	10YR 5/8	30	many						1	1	0	0												
			100	120	IMP																									
435	SE802075	6.626	0	30	SCL	10YR 4/2					Yes	30	non-calcareous	level	1	1	0	0	III	3a	16.80	1.19	2	1	1	1	Wetness			3a
			30	49	SCL	10YR 5/2	10YR 5/8	20	common	fine					1	1	0	0												
			49	120	C	2.5YR 3/6	10YR 5/1	5	common	fine					1	1	0	0												
436	SE802074	6.400	0	42	SCL	10YR 3/3					Yes	42	non-calcareous	level	1	1	0	0	II	2	20.97	4.72	2	1	1	1	Wetness	Droughtiness		2
			42	55	SCL	10YR 5/4	10YR 5/1	20	common						1	1	0	0												
			55	100	C	5YR 4/6	10YR 5/1, Mn	50	very many						1	1	0	0												
			100	120	IMP																									
437	SE802073	6.576	0	25	hCL	10YR 4/2					Yes	36	non-calcareous	gently sloping	1	1	0	0	III	3b	13.56	-2.06	2	1	1	1	Wetness			3b
			25	120	C	2.5YR 5/5	10YR 5/1, Mn	20	common	fine					1	1	0	0												
438	SE803072	6.583	0	36	mCL	10YR 3/3					Yes	36	non-calcareous	level	1	1	0	0	III	3a	23.32	7.57	2	1	1	1	Wetness			3a
			36	50	mCL	10YR 4/6	10YR 5/8	50	very many						1	1	0	0												
			50	100	C	5YR 4/6	10YR 5/1	50	very many						1	1	0	0												
			100	120	IMP																									
439	SE803071	7.726	0	36	hCL	10YR 4/2					Yes	36	non-calcareous	gently sloping	1	1	0	0	III	3b	19.22	3.64	2	1	1	1	Wetness			3b
			36	120	C	2.5YR 5/5	10YR 5/1, Mn	20	common	fine					1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
440	SE803070	10.599	0	35	mCL	10YR 3/3					Yes	35	non-calcareous	gently sloping	1	1	0	0	III	3a	28.09	12.64	2	1	1	1	Wetness			3a
			35	65	hCL	5YR 4/6	10YR 5/1	5	common	fine					1	1	0	0												
			65	120	C	2.5YR 4/6	10YR 5/1, Mn	20	common	medium					1	1	0	0												
441	SE803069	11.293	0	35	hCL	5YR 3/3					Yes	35	non-calcareous	level	2	1	0	0	III	3b	14.60	-2.43	2	1	1	1	Wetness			3b
			35	80	C	5YR 4/4	10YR 5/1	20	common						35	1	0	0												
			80	120	IMP																									
442	SE803068	10.532	0	32	hCL	5YR 3/3					Yes	32	non-calcareous	level	2	2	0	0	III	3b	42.34	12.40	1	1	1	1	Wetness			3b
			32	120	hCL	5YR 4/4	10YR 5/1	5	common						2	2	0	0												
443	SE803067	6.808	0	36	hCL	10YR 2/2					Yes	36	non-calcareous	level	2	2	0	0	III	3b	17.42	1.97	2	1	1	1	Wetness			3b
			36	120	C	5YR 4/3	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	5												
444	SE804066	3.924	0	34	hCL	10YR 3/2					Yes	34	non-calcareous	level	2	1	0	0	III	3b	16.40	-0.07	2	1	1	1	Wetness			3b
			34	55	ZC	5YR 6/2	10YR 7/1	20	common	medium					1	1	0	0												
			55	120	C	2.5YR 4/4 -> 10YR 6/1									1	1	0	0												
445	SE804065	2.902	0	34	hCL	10YR 3/2					Yes	34	non-calcareous	level	2	1	0	0	III	3b	37.41	12.47	1	1	1	1	Wetness			3b
			34	48	C	10YR 5/4	10YR 7/1, 10YR 5/1	1	few	fine					1	1	0	0												
			48	80	C	5YR 5/3	10YR 5/1	20	common	medium					1	1	0	0												
			80	120	hCL	5YR 4/3	10YR 5/1	20	common	medium					1	1	0	0												
446	SE804064	2.976	0	34	C	10YR 3/2					Yes	34	non-calcareous	level	1	1	0	0	III	3b	14.12	-1.75	2	1	1	1	Wetness			3b
			34	120	C	5YR 3/3	10YR 5/1	20	common	medium					1	1	0	0												
447	SE804063	2.404	0	34	C	10YR 3/2					Yes	34	non-calcareous	level	1	1	0	0	III	3b	14.01	-1.89	2	1	1	1	Wetness			3b
			34	120	C	5YR 3/3	10YR 5/1	20	common	medium					1	1	0	0												
448	SE804062	2.344	0	32	C	10YR 3/2					No		non-calcareous	level	1	1	0	0	I	3a	13.20	-2.71	2	1	1	1	Wetness			3a
			32	120	C	10YR 5/4									1	1	0	0												
449	SE805061	2.277	0	40	C	10YR 3/2					Yes	29	non-calcareous	level	1	1	0	0	III	3b	16.35	0.43	2	1	1	1	Wetness			3b
			40	120	C	10YR 3/3	10YR 5/1	20	common	medium					1	1	0	0												
450	SE805060	2.020	0	29	C	10YR 3/3					Yes	29	non-calcareous	level	1	1	0	0	III	3b	11.94	-4.00	2	1	1	1	Wetness			3b
			29	120	C	5YR 3/3	10YR 5/1, Mn	1	few	medium					1	1	0	0												
451	SE805059	2.123	0	34	C	10YR 3/3	Mn	20	common		Yes	34	non-calcareous	level	1	1	0	0	III	3b	13.92	-2.02	2	1	1	1	Wetness			3b
			34	120	C	5YR 3/3	10YR 5/1, Mn	1	few						1	1	0	0												
452	SE805058	2.264	0	43	C	10YR 3/3	Mn	20	common		Yes	43	non-calcareous	level	1	1	0	0	II	3a	17.49	1.55	2	1	1	1	Wetness			3a
			43	51	C	5YR 3/3	10YR 5/8, Mn	50	very many						1	1	0	0												
			51	120	C	5YR 3/3	10YR 5/1, Mn	20	common						1	1	0	0												
453	SE805057	2.218	0	30	C	10YR 3/3					No		non-calcareous	level	1	1	0	0	I	3a	10.34	-7.59	2	1	1	1	Wetness			3a
			30	120	ZC	5YR 6/4									1	1	0	0												
454	SE805056	2.155	0	36	hCL	10YR 3/2	Mn	1	few		Yes	30	non-calcareous	level	1	1	0	0	III	3b	52.12	22.87	1	1	1	1	Wetness			3b
			36	48	ZL	5YR 6/4									1	1	0	0												
			48	75	hZCL	5YR 7/5	Mn	5	common	coarse					1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			75	120	IMP																									
455	SE806055	2.050	0	34	hCL	10YR 3/2	Mn	1	few	fine	No		non-calcareous	level	1	1	0	0	I	2	102.37	36.91	1	1	1	1	Wetness			2
			34	80	ZL	5YR 6/4									1	1	0	0												
			60	120	fSL	5YR 7/5									1	1	0	0												
456	SE806054	2.625	0	35	hCL	10YR 3/2					No		non-calcareous	level	1	1	0	0	I	2	3.75	-10.21	3a	1	1	1	Droughtiness			3a
			35	46	SCL	5YR 6/4									1	1	0	0												
			46	120	mS	7.5YR 6/6									1	1	0	0												
457	SE806053	2.575	0	36	hCL	10YR 3/2	10YR5/8	5	common		Yes	36	non-calcareous	level	1	1	0	0	III	3b	12.15	1.15	2	1	1	1	Wetness			3b
			36	60	SCL	10YR 6/3	10YR5/8; Mn	50	very many	coarse					1	1	0	0												
			60	120	mS	7.5YR 5/8									1	1	0	0												
458	SE806052	1.916	0	36	hZCL	10YR 4/2					Yes	36	non-calcareous	level	1	1	0	0	III	3b	10.25	-3.74	2	1	1	1	Wetness			3b
			36	48	hCL	10YR 4/2	10YR 5/8, Mn	20	common	coarse					1	1	0	0												
			48	70	mS	10YR 5/3									1	1	0	0												
			70	120	mS	10YR 6/3									1	1	0	0												
459	SE806051	1.755	0	35	mCL	10YR 3/2					Yes	35	non-calcareous	level	1	1	0	0	III	3a	19.63	-19.13	3a	1	1	1	Wetness	Droughtiness		3a
			35	70	mS	5YR 4/3	10YR 5/8, Mn	5	common	medium					1	1	0	0												
			70	120	SCL	10YR 6/3	Mn	30	many	coarse					1	1	0	0												
460	SE806050	2.201	0	28	mSL	10YR 4/2					No		non-calcareous	level	1	1	0	0	I	1	5.14	-8.07	2	1	1	1	Droughtiness			2
			28	52	hCL	10YR 5/1									1	1	0	0												
			52	84	mS	5YR 4/3									1	1	0	0												
			84	120	mS	10YR 5/2									1	1	0	0												
461	SE806049	2.726	0	40	hCL	10YR 3/2	Mn	1	few		Yes	40	non-calcareous	level	1	1	0	0	III	3b	15.81	6.29	2	1	1	1	Wetness			3b
			40	65	SCL	5YR 5/6	10YR 5/8, Mn	20	common						1	1	0	0												
			65	120	mS	10YR 5/2									1	1	0	0												
462	SE806048	1.714	0	38	mCL	10YR 3/2					Yes	38	non-calcareous	level	1	1	0	0	III	3a	-112.64	-105.86	4	1	1	1	Droughtiness			4
			38	52	SCL	10YR 5/8	10YR 5/1	50	very many						1	1	0	0												
			52	67	mS	10YR 5/4	10YR 5/1	50	very many						1	1	0	0												
			67	120	mS	10YR 5/1									1	1	0	0												
463	SE806047	1.438	0	39	SCL	10YR 2/1					No		non-calcareous	level	1	1	0	0	I	1	-4.68	-18.72	3a	1	1	1	Droughtiness			3a
			39	120	mS	10YR 7/3, 10YR 7/6									1	1	0	0												
464	SE806046	3.004	0	38	mSZL	10YR 3/2					Yes	38	non-calcareous	level	1	1	0	0	III	2	37.33	4.13	2	1	1	1	Wetness	Droughtiness		2
			38	50	mS	10 YR 6/4	10YR 5/8	5	common						1	1	0	0												
			50	60	SCL	5YR 5/6									1	1	0	0												
			60	120	IMP																									
465	SE805045	2.470	0	36	SCL	10YR 3/3					Yes	36	non-calcareous	level	1	1	0	0	III	3a	38.65	5.45	2	1	1	1	Wetness			3a
			36	48	SCL	10YR 7/2	10YR 5/8	20	common						1	1	0	0												
			48	60	SCL	5YR 5/6									1	1	0	0												
			60	78	SCL	10YR 3/3									1	1	0	0												
			78	120	IMP																									
466	SE805044	1.610																												Not surveyed
467	SE805043	1.661	0	36	fSL	10YR 3/3					Yes	36	non-calcareous	level	1	1	0	0	III	2	7.06	-6.97	2	1	1	1	Wetness	Droughtiness		2
			36	50	SCL	10YR 7/2	10YR 5/8, 10YR 5/1, Mn	5	common	coarse					1	1	0	0												
			50	120	mS	10YR 6/6	10YR 5/8	1	few	coarse					1	1	0	0												
468	SE805042	2.029	0	27	SCL	10YR 3/3					Yes	27	non-calcareous	level	1	1	0	0	III	3a	23.56	7.57	2	1	1	1	Wetness			3a
			27	41	fSL	10YR 7/2	10YR 5/1	30	many						1	1	0	0												
			41	55	C	10YR 6/6	10YR 5/1, Mn	50	very many						1	1	0	0												
			55	120	C	5YR 4/3	10YR 5/1, Mn	50	very many						1	1	0	0												
469	SE805041	2.323	0	35	SCL	10YR 2/1					Yes	62	non-calcareous	level	1	1	0	0	II	2	24.71	5.26	2	1	1	1	Wetness	Droughtiness		2
			35	75	SCL	10YR 5/1	10YR 5/8, Mn	20	common						1	1	0	0												
			75	120	C	10YR 6/2	10R 4/8	20	common						1	1	0	0												
470	SE804040	1.342																	I		-112.64	-105.89	4		1	1				4
471	SE804039	1.433																												Not surveyed

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
472	SE804038	1.423																												Not surveyed
473	SE804037	1.766	0	34	ZCL	10YR 2/1					No		non-calcareous	level	1	1	0	0	I	2	24.76	11.71	2	1	1	1	Wetness	Droughtiness		2
			34	80	SCL	10YR 5/1									1	1	0	0												
			80	120	mS	10YR 4/3									1	1	0	0												
474	SE803036	2.516	0	34	ZL	10YR 3/3, 10YR 4/2	10YR 5/8, 10YR 5/1	20	common		Yes	30	non-calcareous	level	1	1	0	0	III	3a	-10.19	-28.17	3a	1	1	1	Wetness	Droughtiness		3a
			34	70	ZCL	10YR 5/1	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
			70	120	mS	10YR 6/3									1	1	0	0												
475	SE803036	2.106	0	24	hZCL	10YR 2/3					Yes	24	non-calcareous	level	1	1	0	0	III	3b	44.22	7.82	2	1	1	1	Wetness			3b
			24	84	SCL	10YR 5/1	10YR 5/8, 10YR 5/1, Mn	20	common						1	1	0	0												
			84	120	mSL	10YR 4/2									1	1	0	0												
476	SE803035	4.088	0	38	hCL	10YR 3/3					Yes	38	non-calcareous	level	2	2	1	0	III	3b	18.95	3.04	2	1	1	1	Wetness			3b
			38	120	C	10YR 5/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
477	SE803034	3.765	0	33	C	10YR 3/3					Yes	33	non-calcareous	level	1	1	0	0	III	3b	13.81	-2.12	2	1	1	1	Wetness			3b
			33	120	C	10YR 5/1	10YR 5/8, 10YR 5/1, Mn, 10YR 5/4	50	very many						1	1	0	0												
478	SE802033	3.875	0	32	C	10YR 3/3					Yes	32	non-calcareous	level	2	2	0	1	III	3b	12.38	-3.55	2	1	1	1	Wetness			3b
			32	120	C	10YR 5/1	10YR 5/8, 10YR 5/1, 10YR 5/4	50	very many						1	1	0	0												
479	SE802032	6.110	0	30	hCL	10YR 4/2					Yes	30	non-calcareous	gently sloping	1	1	0	0	III	3b	15.98	0.16	2	1	1	1	Wetness			3b
			30	120	C	10YR 4/4	10YR 5/1, 10YR 7/1, Mn	5	common						1	1	0	0												
480	SE802031	7.613	0	33	C	10YR 4/2					Yes	33	non-calcareous	gently sloping	1	1	0	0	III	3b	14.44	-1.30	2	1	1	1	Wetness			3b
			33	60	C	10GY 6/1	10YR 5/1, Mn	20	common						1	1	0	0												
			60	120	C	2.5YR 4/6	10YR 5/1, Mn	1	few						1	1	0	0												
481	SE802030	7.993	0	28	hCL	10YR 4/2					Yes	28	non-calcareous	level	1	1	0	0	III	3b	15.30	-0.43	2	1	1	1	Wetness			3b
			28	70	C	10GY 6/1	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
			70	120	C	2.5YR 4/6	10YR 6/3	5	common						1	1	0	0												
482	SE802029	9.999	0	32	C	10YR 4/2					Yes	32	non-calcareous	level	1	1	0	0	III	3b	14.43	-1.20	2	1	1	1	Wetness			3b
			32	120	C	2.5YR 4/6	10YR 5/1, Mn	20	common						1	1	0	0												
483	SE801028	11.030	0	32	hCL	10YR 4/2					Yes	32	non-calcareous	level	1	1	0	0	III	3b	17.76	2.18	2	1	1	1	Wetness			3b
			32	48	C	10YR 5/3	10YR 5/1	20	common						1	1	0	0												
			48	120	C	banded 10GY 6/1 & 2.5YR 4/6	10YR 5/1, 10YR 6/3	5	common						1	1	0	0												
484	SE801027	12.720	0	36	SCL	10YR 4/2					Yes	36	non-calcareous	gently sloping	2	2	0	0	III	3a	39.43	7.10	2	1	1	1	Wetness			3a
			36	120	SCL	10YR 5/3	10YR 5/8	20	common	fine					1	1	0	0												
485	SE801026	17.883	0	26	C	10YR 4/2					Yes	26	non-calcareous	level	1	1	0	0	III	3b	18.66	2.43	2	1	1	1	Wetness			3b
			26	38	C	10YR 5/2	10YR5/8; 10YR5/1; Mn								1	1	0	0												
			38	60	SCL	2.5YR 4/6	10YR5/1								1	1	0	0												
			60	120	C	2.5YR 4/6	10YR5/8; 10YR5/1								1	1	0	0												
486	SE801025	24.928	0	32	C	7.5YR 4/3					Yes	32	non-calcareous	level	1	1	0	0	III	3b	16.82	1.94	2	1	1	1	Wetness			3b
			32	120	C	2.5YR 4/6	10YR5/1; Mn								1	1	0	0												
487	SE800024	28.642	0	30	C	7.5YR 4/3					Yes	30	non-calcareous	level	1	1	0	0	III	3b	16.33	1.65	2	1	1	1	Wetness			3b
			30	120	C	2.5YR 4/6	10YR5/1; Mn								1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
488	SE800023	27.290	0	31	C	7.5YR 4/3					Yes	31	non-calcareous	moderately sloping	1	1	0	0	III	3b	16.51	1.76	2	1	1	1	Wetness			3b
			31	120	C	5YR 3/4	10YR5/1; Mn								1	1	0	0												
489	SE800022	23.283																												Not surveyed
490	SE800021	11.476																												Not surveyed
491	SE799020	17.103																												Non-agricultural
492	SE799019	15.253	0	30	hCL	7.5YR 3/4					Yes	30	non-calcareous	level	1	1	0	0	III	3b	17.00	1.47	2	1	1	1	Wetness			3b
			30	120	C	2.5YR 4/4	10YR 5/8, 10YR 6/6	50	very many						1	1	0	0												
493	SE799018	13.519	0	32	C	7.5YR 3/4	10YR 7/1, Mn	5	common		Yes	30	non-calcareous	level	1	1	0	0	III	3b	14.56	-1.05	2	1	1	1	Wetness			3b
			32	54	C	2.5YR 4/4	10YR 5/1, Mn	20	common						1	1	0	0												
			54	78	C	10YR 5/1	Mn	20	common						1	1	0	0												
			78	120	C	2.5YR 4/4	10YR 5/1, Mn	20	common						1	1	0	0												
494	SE799017	11.661	0	22	C	7.5YR 3/4					Yes	29	non-calcareous	level	1	1	0	0	III	3b	10.31	-5.38	2	1	1	1	Wetness			3b
			22	120	C	2.5YR 4/4	10YR 5/8, 10YR 6/6	50	very many						1	1	0	0												
495	SE799016	8.383	0	29	C	7.5YR 3/4	10YR 5/4, Mn	5	common		Yes	25	non-calcareous	level	1	1	0	0	III	3b	12.57	-3.27	2	1	1	1	Wetness			3b
			29	120	C	2.5YR 4/4	10YR 5/1, Mn	30	many						1	1	0	0												
496	SE798015	7.673	0	28	hCL	10YR 4/2	10YR 5/8, Mn	20	common		Yes	24	non-calcareous	level	1	1	0	0	III	3b	41.47	10.98	1	1	1	1	Wetness			3b
			28	120	hCL	5YR 4/3	10YR 5/8, 10YR 5/1, 10YR 6/6, Mn	50	very many						2	2	0	0												
497	SE798014	8.425	0	36	hCL	10YR 3/3					Yes	36	non-calcareous	level	2	2	0	0	III	3b	43.26	12.58	1	1	1	1	Wetness			3b
			36	120	hCL	2.5YR 4/4	10YR 5/1, Mn	20	common						1	1	0	0												
498	SE798013	8.633	0	31	hCL	10YR 3/2					Yes	32	non-calcareous	level	1	1	0	0	III	3b	16.49	0.68	2	1	1	1	Wetness			3b
			31	120	C	10YR 4/1 -> 2.YR 4/6	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
499	SE798012	9.241	0	30	hCL	10YR 6/3					Yes	30	non-calcareous	level	1	1	0	0	III	3b	16.09	0.33	2	1	1	1	Wetness			3b
			30	120	C	10YR 6/3 -> 2.5YR 4/6	10YR 5/8, 10YR 5/1, Mn	20	common						1	1	0	0												
500	SE797011	11.552	0	23	hCL	10YR 5/2					Yes	23	non-calcareous	level	1	1	0	0	III	3b	12.99	-2.65	2	1	1	1	Wetness			3b
			23	120	C	banded 10GY 6/1 & 2.5YR 4/6	10YR 5/8, 10YR 5/1, Mn	30	many						1	1	0	0												
501	SE797010	15.560	0	26	hCL	10YR 3/3					Yes	26	non-calcareous	gently sloping	1	1	0	0	III	3b	13.19	-1.72	2	1	1	1	Wetness			3b
			26	76	C	5YR 5/3	10YR 5/8, 10YR 5/1	30	many						2	2	0	2												
			76	120	C	5YR 5/3	10YR 5/8, 10YR 5/1	30	many						2	2	0	2												
502	SE797009	24.545	0	29	hCL	10YR 3/3					Yes	29	non-calcareous	moderately sloping	1	1	0	0	III	3b	16.20	1.74	2	1	1	1	Wetness			3b
			29	120	C	2.5YR 4/4 -> 6/4	10YR 5/8, 10YR 5/1	30	many						2	2	0	2												
503	SE797008	33.466																												Not surveyed
504	SE796007	35.988																												Not surveyed
505	SE796006	30.858																												Not surveyed
506	SE795006	21.018																												Not surveyed
507	SE795005	12.705																												Not surveyed
508	SE795004	9.604																												Not surveyed
509	SE794003	7.258																												Not surveyed
510	SE794002	5.247																												Not surveyed
511	SE794001	4.059																												Not surveyed
512	SE794000	3.913																												Not surveyed
513	SK794999	4.477																												Not surveyed
514	SK794998	5.971																												Not surveyed
515	SK794997	7.467																												Not surveyed
516	SK794996	8.372																												Not surveyed
517	SK793995	8.266	0	40	SCL	10YR 2/2	10YR 5/4, Mn	1	few		Yes	30	non-calcareous	level	1	1	0	0	III	3a	30.19	7.45	2	1	1	1	Wetness			3a
			40	65	mSL	10YR 4/2									1	1	0	0												
			65	120	C	5YR 5/4	10YR 5/1	20	common						1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
518	SK793994	8.172	0	37	mSL	10YR 2/2					No		non-calcareous	level	1	1	0	0	I	1	-5.98	-19.83	3a	1	1	1	Droughtiness			3a
			37	120	mS	10YR 6/3									1	1	0	0												
519	SK793993	7.879	0	30	SCL	10YR 2/2					Yes	30	non-calcareous	level	1	1	0	0	III	3a	25.62	8.77	2	1	1	1	Wetness			3a
			30	120	C	5YR 5/4	10YR 5/1	20	common						1	1	0	0												
520	SK792992	7.007	0	28	hCL	10YR 4/2					Yes	28	non-calcareous	level	1	1	0	0	III	3b	27.99	11.06	2	1	1	1	Wetness			3b
			28	120	C	5YR 4/4	10YR 5/1	5	common						1	1	0	0												
521	SK792991	5.383	0	40	SCL	10YR 5/4	Mn	5	common		Yes	35	non-calcareous	level	1	1	0	0	III	3a	25.13	-11.70	3a	1	1	1	Wetness	Droughtiness		3a
			40	70	LmS	10YR 5/2->6/1									1	1	0	0												
			70	120	C	5YR 4/3									1	1	0	0												
522	SK791990	3.759																												Not surveyed
523	SK791990	2.520																												Not surveyed
524	SK790989	3.270																												Not surveyed
525	SK790988	2.782																												Not surveyed
526	SK789987	2.660																												Not surveyed
527	SK789986	2.889																												Not surveyed
528	SK788985	2.707																												Not surveyed
529	SK788984	2.656																												Not surveyed
530	SK788983	2.506																												Not surveyed
531	SK787982	2.445																												Not surveyed
532	SK787981	2.228																												Not surveyed
533	SK786981	2.098																												Not surveyed
534	SK786980	2.426																												Not surveyed
535	SK785979	2.380																												Not surveyed
536	SK785978	1.238																												Not surveyed
537	SK784976	1.356																												Not surveyed
538	SK783975	1.820																												Not surveyed
539	SK783975	1.756																												Not surveyed
540	SK782975	1.806																												Not surveyed
541	SK781974	1.820																												Not surveyed
542	SK780974	1.766																												Not surveyed
543	SK779974	2.890																												Not surveyed
544	SK778973	1.098	0	34	mZCL	10YR 4/2					Yes	47	very calcareous	level	2	2	0	0	II	2	74.60	29.92	1	1	1	1	Wetness			2
			34	47	mCL	10YR 2/2	10YR 5/8	1	few						1	1	0	0												
			47	72	mCL	10YR 5/6	10YR 5/8, 10YR 5/1	5	common						1	1	0	0												
			72	120	mSL	10YR 5/4									1	1	0	0												
545	SK777973	1.591	0	35	mZCL	10YR 3/4					No		very calcareous	level	2	2	0	0	I	1	31.19	-1.40	2	1	1	1	Droughtiness			2
			35	120	LmS	10YR 5/1	10YR 5/8	5	common						1	1	0	0												
546	SK776973	1.947	0	40	mZCL	10YR 3/3					No		non-calcareous	level	1	1	0	0	I	1	17.02	2.76	2	1	1	1	Droughtiness			2
			40	45	PL	10YR 2/2									1	1	0	0												
			45	55	LmS	10YR 4/1									1	1	0	0												
			55	120	mS	10YR 7/2									1	1	0	0												
547	SK775972	2.127	0	38	mZCL	10YR 3/2					Yes	80	non-calcareous	level	1	1	0	0	I	1	19.88	5.11	2	1	1	1	Droughtiness			2
			38	45	mZCL	10YR 4/4									1	1	0	0												
			45	50	PL	10YR 2/2									1	1	0	0												
			50	120	mS	7.5YR 5/8	10YR 5/1	20	common						1	1	0	0												
548	SK774972	2.316	0	31	mZCL	10YR 3/3					Yes	31	non-calcareous	level	1	1	0	0	III	3a	79.11	36.23	1	1	1	1	Wetness			3a
			31	46	mSZL	10YR 3/3	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
			46	62	PL	10YR 2/2									1	1	0	0												
			62	120	mSZL	10YR 3/2									1	1	0	0												
549	SK773972	2.506	0	32	mSZL	10YR 3/3					No		non-calcareous	level	1	1	0	0	I	1	47.65	16.06	1	1	1	1	None			1
			32	70	mSZL	10YR 4/2									1	1	0	0												
			70	120	mZCL	10YR 5/4									1	1	0	0												
550	SK772971	2.510	0	30	hZCL	10YR 3/2					Yes	30	non-calcareous	level	1	1	0	0	III	3b	63.65	27.89	1	1	1	1	Wetness			3b
			30	52	hZCL	10YR 2/2	10YR 5/8	5	common						1	1	0	0												
			52	86	SCL	10YR 5/4	10YR 5/8, 10YR 5/1, 10YR 6/6	30	many						1	1	0	0												
			86	120	LmS	10YR 5/6	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
551	SK771971	2.404	0	32	mCL	10YR 2/2					Yes	40	non-calcareous	level	1	1	0	0	II	2	54.13	35.38	1	1	1	1	Wetness			2
			32	80	ZL	10YR 5/1	10YR 5/8, 10YR 6/6	50	very many						1	1	0	0												
			80	120	mS	10YR 5/6									1	1	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
552	SK770971	2.335	0	38	mCL	10YR 3/2					No		non-calcareous	level	1	1	0	0	I	1	30.16	-2.46	2	1	1	1	Droughtiness			2
			38	120	LmS	10YR 5/6									1	1	0	0												
553	SK769971	2.271																												Not surveyed
554	SK768970	2.105	0	34	fSL	10YR 3/1					Yes	34	very calcareous	level	2	2	0	0	III	2	22.38	0.83	2	1	1	1	Wetness	Droughtiness		2
			34	45	mSL	10YR 5/3	10YR 5/8	20	common	medium					1	1	0	0												
			45	50	PL	10YR 2/1									1	1	0	0												
			50	78	LmS	10YR 5/2	10YR 6/6	20	common	medium					1	1	0	0												
			78	92	mS	10YR 5/6	10YR 6/6	20	common	medium					1	1	0	0												
			92	120	C	10YR 5/6	10YR 6/6	20	common	medium					1	1	0	0												
555	SK767970	2.010																												Not surveyed
556	SK766970	2.156	0	35	mCL	10YR 3/2					Yes	70	slightly calcareous	level	1	1	0	0	III	2	15.93	-16.72	3a	1	1	1	Droughtiness			3a
			35	45	LmS	10YR 6/3	10YR 5/1	5	common						1	1	0	0												
			45	70	mS	10YR 5/1	10YR 5/8, Mn	20	common						1	1	0	0												
			70	90	SC	10YR 5/2	10YR 5/8, 10YR 5/1	20	common						1	1	0	0												
			90	120	mS	10YR 5/3									1	1	0	0												
557	SK765969	1.187	0	32	mCL	10YR 3/3					Yes	32	slightly calcareous	level	2	2	0	0	III	2	48.38	-3.42	2	1	1	1	Wetness	Droughtiness		2
			32	63	LmS	10YR 6/4	10YR 5/1	30	many						1	1	0	0												
			63	120	mSL	10YR 5/2	10YR 5/8, 10YR 5/1	5	common						1	1	0	0												
558	SK765969	1.352	0	34	SCL	10YR 3/3					Yes	34	non-calcareous	level	1	1	0	0	III	3a	3.90	-7.00	3a	1	1	1	Wetness	Droughtiness		3a
			34	45	mS	10YR 6/2	10YR 5/8	20	common						1	1	0	0												
			45	60	LmS	10YR 6/4									1	1	0	0												
			60	70	SCL	10YR 5/2									1	1	0	0												
			70	120	mS	10YR 5/2									1	1	0	0												
559	SK764969	2.063																												Not surveyed
560	SK763968	1.608																												Not surveyed
561	SK762968	2.232																												Not surveyed
562	SK761968	2.181	0	33	mCL	10YR 4/2					Yes	33	non-calcareous	level	1	1	0	0	III	3a	19.98	8.12	2	1	1	1	Wetness			3a
			33	60	SCL	5YR 5/6	10YR 5/8	50	very many						1	1	0	0												
			60	120	mS	5YR 6/6									1	1	0	0												
563	SK760967	2.201	0	46	mCL	10YR 4/2	10YR 5/8, Mn	20	common		Yes	34	non-calcareous	level	1	1	0	0	III	3a	49.84	18.68	1	1	1	1	Wetness			3a
			46	75	SCL	5YR 4/6	10YR 5/8, 10R 4/8	50	very many						1	1	0	0												
			75	120	LmS	5YR 5/8									1	1	0	0												
564	SK759967	1.855	0	33	mCL	10YR 3/3					No		non-calcareous	level	1	1	0	0	I	1	69.59	19.90	1	1	1	1	None			1
			33	82	SCL	5YR 5/8									1	1	0	0												
			82	120	LfS	5YR 5/8									1	1	0	0												
565	SK758967	2.143	0	33	mSL	10YR 4/3	10YR 5/8	20	common		Yes	30	non-calcareous	level	1	1	0	0	III	2	-12.45	-27.28	3a	1	1	1	Droughtiness			3a
			33	120	mS	10YR 6/2									1	1	0	0												
566	SK757966	2.626	0	34	mCL	10YR 4/2					Yes	72	non-calcareous	level	1	1	0	0	I	1	10.93	-22.88	3a	1	1	1	Droughtiness			3a
			34	72	mS	10YR 5/4									1	1	0	0												
			72	120	LmS	10YR 6/2	10YR 5/8, 10YR 5/1, Mn	20	common						1	1	0	0												
567	SK756966	2.545	0	55	LmS	10YR 3/1					No		non-calcareous	level	1	1	0	0	I	1	-13.44	-27.75	3a	1	2	1	Droughtiness			3a
			55	120	mS	10YR 6/2	10YR 5/8	1	few						1	1	0	0												
568	SK755966	2.497	0	45	mSL	10YR 3/1					Yes	45	non-calcareous	level	1	1	0	0	II	1	16.25	8.37	2	1	1	1	Droughtiness			2
			45	55	mZCL	10YR 6/2	10R 4/8	20	common						1	1	0	0												
			55	60	PL	10YR 2/2									1	1	0	0												
			60	120	mS	10YR 6/2	10YR 5/8	20	common						1	1	0	0												
569	SK755965	2.403	0	45	mSL	10YR 3/1					Yes	45	non-calcareous	level	1	1	0	0	II	1	-15.50	-15.43	3a	1	1	1	Droughtiness			3a
			45	90	mS	10YR 6/2	10YR 5/8	20	common						1	1	0	0												
			90	120	ZCL	10YR 4/1									1	1	0	0												
570	SK754964	3.286																												Not surveyed
571	SK754963	5.104																												Not surveyed
572	SK754962	2.460	0	26	hCL	10YR 3/3					Yes	26	non-calcareous	level	1	1	0	0	III	3b	17.00	-8.97	2	1	1	1	Wetness			3b
			26	40	hCL	5YR 4/4	10YR 5/8, 10YR 5/1	5	common						1	1	0	0												
			40	60	LmS	5YR 6/3	10YR 5/8	5	common						1	1	0	0												
			60	129	C	5YR 3/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
573	SK753961	3.211	0	31	hCL	10YR 3/2					Yes	31	non-calcareous	level	1	1	0	0	III	3b	13.70	-3.02	2	1	1	1	Wetness			3b

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			31	120	C	10YR 5/4 -> 5YR 4/4	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
574	SK753960	3.992	0	31	hCL	10YR 3/3					Yes	31	non-calcareous	level	2	2	0	0	III	3b	12.55	-4.08	2	1	1	1	Wetness			3b
			31	68	C	5YR 4/4	10YR 5/8, 10YR 5/1, Mn	20	common						2	2	0	0												
			68	85	hCL	5YR 6/3	10YR 5/8	5	common						1	1	0	0												
			85	120	C	5YR 3/4	10YR 5/8, 10YR 5/1	20	common						1	1	0	2												
575	SK753959	4.872	0	36	hCL	5YR 3/3					Yes	36	non-calcareous	level	1	1	0	0	III	3b	16.34	-0.31	2	1	1	1	Wetness			3b
			36	120	C	5YR 3/3	10YR 5/1	30	many						1	1	0	0												
576	SK752958	5.943	0	28	mCL	10YR 4/2					Yes	28	non-calcareous	level	1	1	0	0	III	3a	9.61	-6.65	2	1	1	1	Wetness			3a
			28	50	hCL	7.5YR 6/4	10YR 5/8, 10YR 5/1, Mn, 10YR 4/8	50	very many						1	1	0	0												
			50	120	C	2.5YR 4/6	10YR 5/1, Mn	20	common						1	1	0	2												
577	SK752957	6.224	0	30	hCL	10YR 3/3					Yes	30	non-calcareous	level	1	1	0	0	III	3b	11.70	-4.37	2	1	1	1	Wetness			3b
			30	62	C	5YR 4/4	10YR 5/8, 10YR 5/1, Mn	30	many						2	2	0	2												
			62	120	C	5YR 5/6	10YR 5/8, 10YR 5/1	20	common						2	2	0	2												
578	SK752956	5.579	0	33	hCL	5YR 5/3					Yes	33	non-calcareous	level	1	1	0	0	III	3b	14.89	-1.72	2	1	1	1	Wetness			3b
			33	120	C	5YR 4/3	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
579	SK751956	5.624	0	31	SCL	10YR 2/2					Yes	31	non-calcareous	gently sloping	1	1	0	0	III	3a	11.82	-5.78	2	1	1	1	Wetness			3a
			31	60	SCL	7.5YR 6/4	Mn	1	few						1	1	0	0												
			60	120	C	banded 10GY 6/1 & 2.5YR 4/6	10YR 5/8, Mn	50	very many						1	1	0	0												
580	SK751955	4.505	0	28	SCL	10YR 3/2					Yes	28	non-calcareous	level	1	1	0	0	III	3a	9.49	-7.16	2	1	1	1	Wetness			3a
			28	45	SCL	10YR 5/1	10YR 5/8, 10YR 5/1	30	many						1	1	0	0												
			45	120	C	5GY 7/1	10YR 6/6	20	common	fine					1	1	0	0												
581	SK751954	3.971	0	39	mSL	10YR 3/1					Yes	39	non-calcareous	level	2	2	1	0	III	2	-7.25	-21.93	3a	1	1	1	Droughtiness			3a
			39	120	mS	10YR 6/3	10YR 5/8, 10R 4/8	20	common						1	1	0	0												
582	SK750953	3.539	0	36	SCL	10YR 3/1					Yes	36	non-calcareous	level	1	1	0	0	III	3a	36.08	3.56	2	1	1	1	Wetness			3a
			36	60	SCL	10YR 5/1	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
			60	120	hCL	5YR 5/2	10YR 5/8, 10YR 5/1	50	very many						1	1	0	0												
583	SK750952	3.106	0	35	mSL	10YR 4/2					Yes	35	non-calcareous	level	1	1	0	0	III	2	-3.28	-18.00	3a	1	1	1	Droughtiness			3a
			35	50	LmS	10YR 5/2	10YR 5/4, 10YR 6/6	30	many						1	1	0	0												
			50	120	mS	10YR 6/2									1	1	0	0												
584	SK750951	2.628	0	55	mSL	10YR 3/1					Yes	90	non-calcareous	level	1	1	0	0	I	1	15.97	-5.70	2	1	1	1	Droughtiness			2
			55	90	mS	10YR 6/4									1	1	0	0												
			90	95	C	10YR 5/1	10YR 5/8, Mn	50	very many						1	1	0	0												
			95	120	C	10YR 5/1									1	1	0	0												
585	SK749950	2.743	0	35	hCL	10YR 3/2					Yes	35	slightly calcareous	level	1	1	0	0	III	3a	15.49	-1.23	2	1	1	1	Wetness			3a
			32	120	C	10YR 5/3	10YR 5/8, 10YR 6/6								1	1	0	0												
586	SK749949	3.373	0	28	hCL	10YR 4/2					Yes	28	slightly calcareous	level	2	2	0	0	III	3a	11.62	-5.07	2	1	1	1	Wetness			3a
			28	120	C	10YR 4/6	10YR 6/6, Mn	50	very many						1	1	0	0												
587	SK749948	3.480	0	34	hCL	10YR 3/1					Yes	32	very calcareous	level	2	2	0	0	III	3a	36.42	6.35	2	1	1	1	Wetness			3a
			34	120	hCL	10YR 4/1	10YR 5/8, 10YR 6/6	50	very many						5	5	0	0												
588	SK748947	3.284	0	35	mCL	10YR 3/2					Yes	50	very calcareous	level	1	1	0	0	II	2	67.02	26.57	1	1	1	1	Wetness			2

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			35	50	mZCL	5GY 6/2									1	1	0	0												
			50	120	LfS	2.5Y 8/4	10YR 6/6, 10YR 5/1	20	common						1	1	0	0												
589	SK748946	3.053	0	32	hCL	10YR 3/1					Yes	32	very calcareous	level	1	1	0	0	III	3a	53.92	24.38	1	1	1	1	Wetness			3a
			32	80	hCL	10YR 4/1	10YR 5/8, 10YR 6/6	50	very many						5	5	0	0												
			80	120	LmS	5YR 5/4									1	1	0	0												
590	SK748945	3.195	0	30	hCL	10YR 4/2					Yes	30	very calcareous	level	2	2	0	0	III	3a	12.28	-4.39	2	1	1	1	Wetness			3a
			30	50	C	10YR 5/1	10YR 5/8, 10YR 5/1	20	common						2	2	0	0												
			50	120	C	5GY 6/2	10YR 5/8	5	common						1	1	0	0												
591	SK747944	3.541	0	29	hCL	10YR 4/3					Yes	24	very slightly calcareous	level	1	1	0	0	III	3b	38.60	9.57	2	1	1	1	Wetness			3b
			29	55	C	5GY 6/2	10YR 5/8, 10YR 5/1, Mn	30	many						1	1	0	0												
			55	120	mZCL	5GY 6/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
592	SK747943	3.886	0	30	hCL	10YR 3/2					Yes	30	very slightly calcareous	level	1	1	0	0	III	3b	37.69	9.54	2	1	1	1	Wetness			3b
			30	120	hZCL	5GY 6/2	10YR 5/8	20	common						10	10	0	0												
593	SK747942	4.151	0	32	hCL	10YR 3/2					Yes	32	non-calcareous	level	1	1	0	0	III	3b	40.55	10.48	1	1	1	1	Wetness			3b
			32	48	C	10YR 5/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
			48	57	mZCL	5GY 6/2									5	2	0	0												
			57	120	IMP																									
594	SK746941	4.191	0	30	hCL	10YR 3/2					Yes	30	non-calcareous	level	1	1	0	0	III	3b	13.07	-3.52	2	1	1	1	Wetness			3b
			30	75	C	10YR 5/1	10YR 5/8, 10YR 6/6	50	very many						1	1	0	0												
			75	120	ZC	5GY 6/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
595	SK746940	4.187	0	26	hCL	10YR 4/2					Yes	26	non-calcareous	level	1	1	0	0	III	3b	37.40	8.74	2	1	1	1	Wetness			3b
			26	58	C	10YR 5/4	10YR 5/8, 10YR 5/1, Mn, 10YR 6/6	50	very many						1	1	0	0												
			58	120	hZCL	5GY 6/2	10YR 5/8, 10R 4/8	50	very many						1	1	0	0												
596	SK746939	4.256	0	30	hCL	10YR 3/2					Yes	30	very slightly calcareous	level	2	2	0	0	III	3b	10.54	-8.01	2	1	1	1	Wetness			3b
			30	120	ZC	5GY 6/2	10YR 5/8, 10YR 5/1, Mn	ab	very many						1	1	0	0												
597	SK746938	4.181	0	30	hCL	10YR 3/2					No		very slightly calcareous	level	2	2	0	0	I	2	4.07	-12.20	3a	1	1	1	Droughtiness			3a
			30	50	mixed										10	10	10	0												
598	SK745938	3.888	0	35	mCL	10YR 3/1					Yes	35	very slightly calcareous	level	1	1	0	0	III	3a	48.59	20.63	1	1	1	1	Wetness			3a
			35	50	C	10YR 5/6	10YR 5/8	20	common						1	1	0	0												
			50	55	hCL	10YR 2/2									1	1	0	0												
			55	65	PL	10YR 2/2									1	1	0	0												
			65	120	mZCL	5GY 6/2	10YR 5/8	20	common						1	1	0	0												
599	SK745937	3.942	0	33	mCL	10YR 3/2					Yes	33	very calcareous	level	2	2	0	0	III	2	39.88	10.46	1	1	1	1	Wetness			2
			33	48	C	10YR 5/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
			48	120	hZCL	5GY 6/2	10YR 5/1	20	common						1	1	0	0												
600	SK745936	3.984	0	40	hCL	10YR 3/2					Yes	40	slightly calcareous	level	2	2	0	0	II	2	-6.12	-31.58	3b	1	1	1	Droughtiness			3b
			40	65	ZCL	5GY 6/2									5	5	0	0												
			65	120	C	5YR 3/4	10YR 5/1	50	very many						1	1	0	0												
601	SK744935	3.818	0	32	hCL	10YR 3/2					Yes	32	very calcareous	level	5	5	2	0	III	3a	9.94	-8.85	2	1	1	1	Wetness			3a
			32	64	ZC	5GY 6/2	10YR 5/1, Mn	50	very many						1	1	0	0												
			64	78	mCL	10YR 2/2									1	1	0	0												
			78	120	C	5YR 3/4	10YR 5/8, Mn	50	very many																					
602	SK744934	3.914	0	32	C	10YR 3/2					Yes	32	very slightly calcareous	level	5	5	0	0	III	3b	60.19	30.37	1	1	1	1	Wetness			3b
			32	45	hCL	10YR 4/3	10YR 5/8	5	common						1	1	0	0												
			45	75	PL	10YR 2/2									1	1	0	0												
			75	120	hZCL	5GY 6/2																								
603	SK744933	3.810	0	38	hCL	10YR 3/2	10YR 5/8, Mn	50	very many		Yes	35	slightly calcareous	level	2	2	0	2	III	3a	40.23	10.86	1	1	1	1	Wetness			3a

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			38	120	hZCL	5GY 6/2									1	1	0	0												
															1	1	0	0												
604	SK743932	3.675	0	35	hCL	10YR 3/2					Yes	60	very calcareous	level	1	1	0	0	II	2	12.45	-4.09	2	1	1	1	Wetness	Droughtiness		2
			35	60	hZCL	5GY 6/2									2	2	0	0												
			60	120	C	5YR 5/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
605	SK743931	3.543	0	30	hCL	10YR 3/2					Yes	45	very calcareous	level	1	1	0	0	II	2	5.02	-6.51	2	1	1	1	Wetness	Droughtiness		2
			30	45	ZCL	5GY 6/2									2	2	0	0												
			45	60	C	10YR 5/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	1	0	0												
			60	120	ZCL	5GY 6/2									1	1	0	0												
606	SK743930	3.910	0	30	hCL	10YR 3/2					No		very calcareous	level	1	1	0	0	I	2	12.61	-3.85	2	1	1	1	Wetness	Droughtiness		2
			30	120	C	5YR 5/4 & 5GY 6/2									1	1	0	0												
607	SK743929	3.977	0	32	C	10YR 3/2	10YR 5/8	20	common		Yes	32	slightly calcareous	level	1	1	0	0	III	3a	37.29	7.97	2	1	1	1	Wetness			3a
			32	45	C	5GY 6/2									1	1	0	0												
			45	120	hZCL	5GY 6/2									2	2	0	0												
608	SK743928	5.219	0	27	hCL	10YR 4/2					Yes	27	non-calcareous	level	1	1	0	0	III	3b	33.38	1.38	2	1	1	1	Wetness			3b
			27	120	SCL	10YR 6/6	10YR 5/8, Mn	20	common						5	5	0	0												
609	SK743927	5.974	0	23	C	10YR 3/3					Yes	23	non-calcareous	level	1	1	0	0	III	3b	33.78	3.58	2	1	1	1	Wetness			3b
			23	60	C	10YR 4/3	10YR 5/8, Mn	50	very many						1	1	0	0												
			60	120	SCL	10YR 6/6	10YR 5/8, Mn	20	common						1	1	0	0												
610	SK744926	6.457	0	34	C	10YR 3/2	10YR 5/8	20	common		Yes	34	non-calcareous	level	1	1	0	0	III	3b	36.19	7.51	2	1	1	1	Wetness			3b
			34	55	C	5GY 6/2									1	1	0	0												
			55	120	hZCL	5GY 6/2									2	2	0	0												
611	SK744925	6.847	0	32	C	10YR 4/2					Yes	32	non-calcareous	level	2	2	0	0	III	3b	6.60	-8.41	2	1	1	1	Wetness			3b
			32	60	C	10YR 5/4	10YR 5/8	30	many						2	2	0	0												
			60	120	ZC	5GY 6/2									10	10	0	0												
612	SK744924	7.447	0	32	C	10YR 3/2					Yes	32	non-calcareous	level	5	5	0	0	III	3b	31.62	3.97	2	1	1	1	Wetness			3b
			32	65	C	10YR 6/2	10YR 5/8	20	common						1	1	0	0												
			65	120	hZCL	5GY 6/2									1	1	0	0												
613	SK744923	8.158	0	36	mCL	10YR 4/2					Yes	36	non-calcareous	level	5	5	0	0	III	3a	10.83	-5.73	2	1	1	1	Wetness			3a
			36	51	C	5YR 5/4	10YR 5/8, Mn	50	very many						5	5	0	0												
			51	65	hZCL	5GY 6/2	Mn	5	common						5	5	0	0												
			65	120	C	5YR 5/4	10YR 5/8, Mn	50	very many						1	1	0	0												
614	SK744922	9.574	0	30	C	5YR 3/3					Yes	30	non-calcareous	level	1	1	0	0	III	3b	9.82	-6.35	2	1	1	1	Wetness			3b
			30	120	C	2.5YR 3/6	10YR 5/1	5	common						1	1	0	0												
615	SK745921	10.416	0	30	hCL	5YR 3/2					Yes	30	non-calcareous	level	2	2	0	2	III	3b	10.49	-5.44	2	1	1	1	Wetness			3b
			30	120	C	10YR 4/4	10YR 5/8, 10YR 5/1	20	common						1	1	0	5												
616	SK745920	12.467	0	29	hCL	10YR 3/3					Yes	29	non-calcareous	level	2	2	0	1	III	3b	10.99	-5.53	2	1	1	1	Wetness			3b
			29	64	C	5GY 6/2 & 2.5YR 4/6	10YR 5/8, 10YR 5/1, Mn	20	common						1	1	0	2												
			64	120	C	2.5YR 4/8	10YR 5/8, 10YR 5/1, Mn	20	common																						
617	SK745919	14.247	0	30	hCL	10YR 3/2					Yes	65	non-calcareous	level	2	2	0	2	II	3a	38.67	7.38	2	1	1	1	Wetness			3a
			30	65	hCL	10YR 5/3	10YR 5/1	1	few						1	1	0	0												
			65	120	hCL	5GY 6/2 & 2.5YR 3/6	10YR 5/8, 10YR 5/1	20	common																						
618	SK745918	16.828	0	28	hCL	5YR 3/3					Yes	28	non-calcareous	gently sloping	2	2	0	0	III	3b	7.72	-7.11	2	1	1	1	Wetness			3b

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			28	120	C	5GY 6/2 & 2.5YR 4/6	10YR 5/8, 10YR 5/1, Mn	20	common						5	5	0	5												
619	SK746917	21.595																												Not surveyed
620	SK746916	29.353																												Not surveyed
621	SK746915	32.091																												Not surveyed
622	SK747915	31.606	0	30	hCL	10YR 3/3					Yes	40	very calcareous	level	1	1	0	2	II	2	41.30	13.06	1	1	1	1	Wetness			2
			30	40	hCL	10YR 5/3	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
			40	120	mZCL	5YR 5/2	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
623	SK748914	31.061	0	31	hCL	10YR 3/3					Yes	31	slightly calcareous	level	5	5	0	2	III	3a	10.18	-4.69	2	1	1	1	Wetness			3a
			31	43	SCL	5YR 4/4	10YR 5/8, 10YR 5/1	20	common						2	2	0	2												
			43	120	C	5YR 5/2	10YR 5/8, 10YR 5/1	20	common						2	2	0	2												
624	SK748913	29.997	0	45	C	10YR 3/3					Yes	32	very slightly calcareous	moderately sloping	1	0	0	0	III	3b	16.47	1.34	2	1	1	1	Wetness			3b
			45	120	C	5YR 4/4	10YR 5/1	20	common						1	0	0	2												
625	SK749912	31.703	0	28	C	10YR 3/3					Yes	28	non-calcareous	level	1	0	0	0	III	3b	8.62	-4.75	2	1	1	1	Wetness			3b
			28	80	C	5YR 3/4	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
			80	120	C	5GY 6/2 & 2.5YR 4/6	10YR 5/8	20	common						1	0	0	10												
626	SK749911	35.137	0	36	hCL	10YR 4/2					Yes	36	non-calcareous	level	1	0	0	0	III	3b	14.85	2.39	2	1	1	1	Wetness			3b
			36	75	C	2.5YR 4/4	10YR 5/8, 10YR 5/1, Mn	20	common						1	0	0	0												
			75	83	mZCL	2.5YR 5/2	10YR 5/8	5	common						1	0	0	5												
			83	120	C	2/5YR 3/6	10YR 5/8, 10YR 5/1	20	common						1	0	0	10												
627	SK750910	39.414	0	28	hCL	10YR 3/3					Yes	28	non-calcareous	gently sloping	1	0	0	0	III	3b	13.89	-1.27	2	1	1	1	Wetness			3b
			28	40	C	10YR 5/2	10YR 5/8, Mn, 10YR 6/6	20	common						1	0	0	0												
			40	120	C	5YR 4/4	10YR 5/8, 10YR 5/1	2	common						1	0	0	0												
628	SK750910	40.233																												Not surveyed
629	SK751909	40.574																												Not surveyed
630	SK751908	41.490																												Not surveyed
631	SK752907	41.972																												Not surveyed
632	SK752906	43.566																												Not surveyed
633	SK753905	46.980																												Not surveyed
634	SK754905	47.060																												Not surveyed
635	SK754904	47.260																												Not surveyed
636	SK755903	46.243																												Not surveyed
637	SK755902	46.670																												Not surveyed
638	SK756901	46.041																												Not surveyed
639	SK756900	42.529																												Not surveyed
640	SK757900	39.262																												Not surveyed
641	SK757899	36.150	0	35	hCL	10YR 4/3					Yes	35	non-calcareous	level	2	2	0	0	III	3b	40.10	7.99	2	1	1	1	Wetness			3b
			35	120	SCL	5YR 5/8 -> 3/4	10YR 5/8, Mn	20	common						1	0	0	0												
642	SK758898	33.944	0	28	C	10YR 4/3					Yes	28	non-calcareous	level	1	0	0	0	III	3b	10.50	-4.86	2	1	1	1	Wetness			3b
			28	120	C	5YR 4/4	10YR 5/8, Mn	20	common						1	0	0	0												
643	SK759897	31.823	0	27	C	10YR 4/3					Yes	27	non-calcareous	level	1	0	0	0	III	3b	9.92	-5.52	2	1	1	1	Wetness			3b
			27	120	C	5YR 5/3	Mn	20	common						1	0	0	0												
644	SK759896	29.246	0	30	C	10YR 4/3					Yes	30	non-calcareous	level	1	0	0	0	III	3b	11.08	-4.75	2	1	1	1	Wetness			3b
			30	75	C	5GY 6/2	10R 4/8	5	common						1	0	0	0												
			75	120	IMP																									
645	SK760895	26.659	0	27	C	10YR 4/3					Yes	26	non-calcareous	level	1	0	0	0	III	3b	9.44	-6.19	2	1	1	1	Wetness			3b
			27	120	C	5YR 5/3	10YR 6/6	20	common						1	0	0	0												
646	SK760895	26.375	0	30	hCL	10YR 3/3					Yes	45	very calcareous	level	5	5	0	0	II	2	97.16	30.04	1	1	1	1	Wetness			2
			30	45	ZC	10YR 3/1									1	0	0	0												
			45	120	fSL	10YR 7/2	10YR 5/8, 10R 4/8	20	common						1	0	0	0												
647	SK761894	24.956	0	29	hCL	10YR 3/2					Yes	29	very calcareous	level	1	0	0	0	III	3a	21.29	5.59	2	1	1	1	Wetness			3a

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			29	50	fSL	10YR 7/3	10YR 6/6	20	common						1	0	0	0												
			50	80	C	10YR 6/4	10YR 5/8, 10R 4/8	50	very many						1	0	0	0												
			80	120	C	5YR 4/4									1	0	0	0												
648	SK761893	24.301	0	30	C	10YR 4/2					Yes	30	non-calcareous	level	1	0	0	0	III	3b	10.45	-5.28	2	1	1	1	Wetness			3b
			30	65	C	mixed 10YR 6/1 & 10YR 5/2									1	0	0	0												
			65	120	C	2.5YR 4/6									1	0	0	0												
649	SK762892	24.576	0	26	C	10YR 4/4					Yes	36	non-calcareous	level	1	0	0	0	III	3b	8.95	-6.78	2	1	1	1	Wetness			3b
			26	120	C	2.5YR 4/6									1	0	0	0												
650	SK762891	23.507	0	37	C	10YR 4/3					Yes	37	non-calcareous	level	1	0	0	0	III	3b	10.77	-4.15	2	1	1	1	Wetness			3b
			37	120	C	banded 2.5YR 4/4 & 5GY 6/2									5	5	0	0												
651	SK763890	22.489	0	26	C	10YR 3/2					Yes	35	non-calcareous	level	2	2	2	0	III	3b	8.39	-7.44	2	1	1	1	Wetness			3b
			26	60	C	5GY 6/2									1	0	0	0												
			60	120	C	2.5YR 4/4									1	0	0	0												
652	SK763890	22.059	0	30	C	10YR 3/2					Yes	30	non-calcareous	level	2	2	2	0	III	3b	9.68	-6.16	2	1	1	1	Wetness			3b
			30	45	C	10YR 5/6									2	2	2	0												
			45	120	C	banded 2.5YR 4/4 & 5GY 6/2									1	0	0	0												
653	SK764889	22.034	0	34	C	10YR 4/3					Yes	34	non-calcareous	level	1	0	0	0	III	3b	11.98	-3.87	2	1	1	1	Wetness			3b
			34	120	C	banded 2.5YR 4/4 & 5GY 6/2									1	0	0	0												
654	SK764888	23.962	0	31	C	10YR 4/3					Yes	31	non-calcareous	level	2	2	2	0	III	3b	8.88	-7.15	2	1	1	1	Wetness			3b
			31	78	C	5GY 6/2									5	5	0	0												
			78	120	C	2.5YR 4/4									1	0	0	0												
655	SK764887	25.993	0	31	C	10YR 4/4					Yes	31	non-calcareous	level	2	2	2	0	III	3b	10.75	-4.98	2	1	1	1	Wetness			3b
			31	51	C	5GY 6/2									1	0	0	0												
			51	85	C	2.5YR 4/6									1	0	0	0												
			85	120	C	5GY 6/2									1	0	0	0												
656	SK765886	27.398	0	30	C	10YR 4/3					Yes	30	non-calcareous	gently sloping	1	0	0	0	III	3b	9.50	-5.12	2	1	1	1	Wetness			3b
			30	60	C	2.5YR 6/3	10YR 5/1, Mn	30	many						1	0	0	0												
			60	120	C	banded 2.5YR 5/8 & 5GY 6/2									5	5	0	0												
657	SK765885	28.512	0	30	C	5YR 4/4					Yes	30	non-calcareous	gently sloping	1	0	0	0	III	3b	11.19	-4.47	2	1	1	1	Wetness			3b
			30	120	C	2.5YR 5/8	10YR 5/1	5	common						1	0	0	0												
658	SK765884	29.731	0	37	hCL	10YR 3/3					Yes	37	non-calcareous	gently sloping	2	2	2	0	III	3b	16.62	0.60	2	1	1	1	Wetness			3b
			37	56	C	banded 2.5YR 4/4 & 5GY 6/2									5	5	0	0												
			56	120	IMP																									
659	SK766883	30.902	0	27	hCL	10YR 3/3					Yes	27	non-calcareous	gently sloping	2	2	2	0	III	3b	12.54	-3.06	2	1	1	1	Wetness			3b
			27	120	C	2.5YR 5/8	10YR 5/1	5	common						1	0	0	0												
660	SK766882	32.599	0	34	hCL	10YR 3/3					Yes	30	non-calcareous	level	2	2	2	0	III	3b	12.64	-1.85	2	1	1	1	Wetness			3b
			34	120	C	banded 2.5YR 4/4 & 5GY 6/2									5	5	0	2												
661	SK766881	33.859	0	27	C	10YR 3/3					Yes	27	non-calcareous	gently sloping	1	0	0	0	III	3b	2.92	-10.35	3a	1	1	1	Wetness			3b
			27	120	C	5GY 6/2									10	10	0	2												
662	SK767880	33.031	0	30	hCL	10YR 3/3					Yes	30	non-calcareous	level	1	0	0	0	III	3b	12.00	-2.49	2	1	1	1	Wetness			3b

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			30	44	C	5YR 3/4									1	0	0	0												
			44	120	C	banded 2.5YR 4/4 & 5GY 6/2									5	5	0	2												
663	SK767879	31.797	0	53	C	2.5YR 4/6	Mn	5	common		Yes	35	non-calcareous	gently sloping	1	0	0	0	III	3b	20.50	1.81	2	1	1	1	Wetness			3b
			53	65	C	5GY 6/2									15	1	1	0												
			65	120	IMP																									
664	SK767878	29.586	0	28	C	5YR 3/4					Yes	28	non-calcareous	level	2	2	0	0	III	3b	8.53	-6.74	2	1	1	1	Wetness			3b
			28	120	C	2.5YR 4/4 -> 5GY 6/2									2	2	0	2												
665	SK767877	27.438																												Not surveyed
666	SK768876	24.798																												Not surveyed
667	SK768875	28.144																												Not surveyed
668	SK768874	31.905																												Not surveyed
669	SK769873	34.255	0	30	hCL	10YR 3/3					Yes	29	non-calcareous	level	1	0	0	0	III	3b	14.45	-0.64	2	1	1	1	Wetness			3b
			29	67	C	5YR 4/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	0												
			67	120	C	2.5YR 4/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	2												
670	SK769873	34.264	0	29	hCL	10YR 3/3					Yes	33	non-calcareous	gently sloping	2	2	0	0	III	3b	13.77	-1.62	2	1	1	1	Wetness			3b
			33	65	C	10R 4/4 -> 4/6	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
			65	120	C	5GY 6/2	10YR 5/8, 10YR 5/1	30	many						1	0	0	2												
671	SK770872	33.150	0	28	hCL	10YR 3/3					Yes	28	non-calcareous	level	1	0	0	2	III	3b	12.14	-2.77	2	1	1	1	Wetness			3b
			28	60	C	10R 4/4 & 5GY 6/2	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
			60	120	C	10R 3/6	10YR 5/8, 10YR 5/1	20	common						1	0	0	10												
672	SK770871	32.027																												Not surveyed
673	SK771870	29.152																												Not surveyed
674	SK772869	25.868																												Not surveyed
675	SK772868	22.498	0	25	C	10YR 3/2	Mn, 10R 4/8	5	common		Yes	25	non-calcareous	moderately sloping	1	0	0	0	III	3b	8.85	-7.17	2	1	1	1	Wetness			3b
			25	43	C	2.5YR 4/6	10YR 5/1	20	common						1	0	0	0												
			43	120	C	mixed 2.5YR 4/6 & 5GY 6/2	10YR 5/1	20	common						1	0	0	0												
676	SK773868	20.143	0	30	C	5YR 3/3					Yes	30	non-calcareous	moderately sloping	2	2	0	0	III	3b	10.13	-5.97	2	1	1	1	Wetness			3b
			30	120	C	5YR 3/4	Mn	20	common						1	0	0	0												
677	SK773867	17.731	0	23	hCL	10YR 4/2					Yes	23	non-calcareous	gently sloping	1	0	0	0	III	3b	9.61	-6.20	2	1	1	1	Wetness			3b
			23	40	C	10YR 4/3	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
			40	75	C	10YR 6/1	10YR 5/8	50	very many						1	0	0	0												
			75	120	C	5YR 3/3	10YR 6/6	20	common						2	2	0	1												
678	SK774866	16.398	0	34	C	10YR 4/2					Yes	34	non-calcareous	gently sloping	1	0	0	0	III	3b	49.31	-4.55	2	1	1	1	Wetness			3b
			34	60	C	10YR 6/6	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
			60	80	C	10YR 2/1									2	0	0	0												
			80	100	P	10YR 2/1									1	0	0	0												
			100	120	ZL	10YR 5/1									1	0	0	0												
679	SK774865	16.325	0	37	C	10YR 4/2	Mn	5	common		Yes	20	non-calcareous	gently sloping	1	0	0	0	III	3b	12.99	-3.26	2	1	1	1	Wetness			3b
			37	120	C	10YR 5/4	10YR 5/8, d10YR 5/1	20	common						1	0	0	0												
680	SK775864	17.631	0	40	C	5YR 3/3					Yes	40	non-calcareous	gently sloping	1	0	0	0	II	3a	14.35	-1.87	2	1	1	1	Wetness			3a
			40	60	C	5GY 6/2									1	0	0	0												
			60	120	C	2.5YR 4/6									1	0	0	0												
681	SK775863	17.050	0	29	C	5YR 3/3					Yes	29	non-calcareous	moderately sloping	1	0	0	0	III	3b	9.22	-6.80	2	1	1	1	Wetness			3b
			29	120	C	2.5YR 4/6	10YR 5/1, Mn	20	common						2	2	0	0												
682	SK776862	15.015	0	30	C	5YR 3/3					Yes	30	non-calcareous	moderately sloping	1	0	0	0	III	3b	9.45	-6.66	2	1	1	1	Wetness			3b
			30	120	C	2.5YR 4/6									2	2	0	0												
683	SK776862	12.784	0	32	hCL	10YR 3/2					Yes	32	non-calcareous	level	1	0	0		III	3b	70.42	24.25	1	1	1	1	Wetness			3b
			32	65	C	10YR 4/1	10YR 5/8, 10YR 6/6	50	very many						1	0	0	2												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			65	120	mSL	10YR 5/3	10YR 5/8	20	common						1	0	0	2												
684	SK777861	12.191	0	32	hCL	10YR 3/3					Yes	32	non-calcareous	level	1	0	0		III	3b	33.78	8.12	2	1	1	1	Wetness			3b
			32	73	C	10YR 4/6 ->2/2	10YR 5/8, 10YR 6/6, 10YR 5/1	20	common						2	2	0													
			73	120	hCL	10YR 5/3 ->6/1	10YR 5/8, 10YR 5/1	20	common						2	2	0	2												
685	SK777860	11.842	0	33	C	10YR 3/2					Yes	33	non-calcareous	gently sloping	1	0	0	0	III	3b	10.38	-5.72	2	1	1	1	Wetness			3b
			33	55	C	10YR 4/1	10YR 5/8, 10YR 5/1, Mn	20	common						1	0	0	0												
			55	120	C	2.5YR 4/4	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	2												
686	SK778858	11.724																												Not surveyed
687	SK779857	11.637																												Not surveyed
688	SK779857	12.613																												Not surveyed
689	SK780856	13.955																												Not surveyed
690	SK781855	15.297																												Not surveyed
691	SK781854	16.127																												Not surveyed
692	SK782853	16.135																												Not surveyed
693	SK782852	15.449																												Not surveyed
694	SK783851	14.878																												Not surveyed
695	SK783851	15.682																												Not surveyed
696	SK784850	15.733																												Not surveyed
697	SK784849	16.067																												Not surveyed
698	SK783848	16.901																												Not surveyed
699	SK782847	19.115																												Not surveyed
700	SK782847	21.641																												Not surveyed
701	SK781846	22.512																												Not surveyed
702	SK781845	24.566																												Not surveyed
703	SK780844	23.287																												Not surveyed
704	SK779843	20.658																												Not surveyed
705	SK779842	18.198																												Not surveyed
706	SK778842	18.537																												Not surveyed
707	SK778841	19.312																												Not surveyed
708	SK777840	18.898																												Not surveyed
709	SK776839	19.275																												Not surveyed
710	SK776838	19.011																												Not surveyed
711	SK775838	18.397																												Not surveyed
712	SK775837	18.916																												Not surveyed
713	SK774836	19.513																												Not surveyed
714	SK773835	20.108																												Not surveyed
715	SK773834	20.359																												Not surveyed
716	SK772834	22.038																												Not surveyed
717	SK772833	22.986																												Not surveyed
718	SK771832	22.923																												Not surveyed
719	SK771831	23.737																												Not surveyed
720	SK770830	25.531																												Not surveyed
721	SK769830	26.269																												Not surveyed
722	SK769829	24.977	0	29	C	7.5YR3/4					Yes	87	non-calcareous	level	3				I	3a	21.05	-4.26	2	1	1	1	Wetness			3a
			29	38	C	7.5YR4/4	7.5YR7/1, 5YR6/8	3	common				non-calcareous																	
			38	87	C	7.5YR6/4	7.5YR7/1, 5YR6/8	6	common				non-calcareous																	
			87	120	SCL	7.5YR6/1							non-calcareous		3															
723	SK768828	26.404	0	25	hCL	10YR3/3							non-calcareous	level					I	2	18.38	2.06	2	1	1	1	Wetness	Droughtiness		2
			25	47	C	7.5YR4/4							non-calcareous																	
			47	78	C	5YR4/4	7.5YR4/6	2	common	fine			non-calcareous																	
			78	90	C	5YR5/6	7.5YR4/6; 7.5YR6/1	5	common	fine			slightly calcareous																	
			90	120	IMP																									
724	SK768827	29.117	0	35	hCL	7.5YR4/4							non-calcareous	level	2				I	2	20.53	4.70	2	1	1	1	Wetness	Droughtiness		2
			35	52	C	2.5YR4/3	7.5YR7/1	2	common				non-calcareous																	
			52	80	C	2.5YR4/6	7.5YR7/1	2	common				non-calcareous																	
			80	120	C	2.5YR4/6							non-calcareous																	
725	SK767826	32.473	0	27	C	7.5YR3/4					Yes	38	non-calcareous	level	3	1	1		III	3b	12.62	-3.50	2	1	1	1	Wetness			3b
			27	38	C	5YR4/6							very slightly calcareous																	
			38	40	C	GLEY17/5G/1							very slightly calcareous																	
			40	120	IMP																									
726	SK766826	35.777	0	26	C	10YR4/2							very slightly calcareous	gently sloping	2	1			I	3a	16.62	0.62	2	1	1	1	Wetness			3a
			26	49	C	10YR4/4							very slightly calcareous																	
			49	68	C	7.5YR4/4							very slightly calcareous																	
			68	72	C	7.5YR4/4	white inclusions and coal						very slightly calcareous																	
			72	120	IMP																									
727	SK766825	37.881	0	35	hCL	7.5YR4/4							non-calcareous	level	2				I	2	16.64	0.70	2	1	1	1	Wetness	Droughtiness		2
			35	70	C	2.5YR4/6							non-calcareous																	
			70	120	IMP																									
728	SK765824	39.667	0	29	hCL	10YR4/3							non-calcareous	level					I	2	20.36	4.47	2	1	1	1	Wetness	Droughtiness		2
			29	47	hCL	10YR4/4							non-calcareous																	
			47	90	C	5YR4/6							non-calcareous																	
			90	120	IMP																									
729	SK765823	39.606	0	28	hCL	7.5YR4/4							non-calcareous	gently sloping	3	2	1		I	2	21.07	5.17	2	1	1	1	Wetness	Droughtiness		2
			28	55	hCL	7.5YR5/4							non-calcareous																	
			55	60	C	5Y5/2							non-calcareous																	
			60	120	C	2.5YR4/6	7.5YR7/1	2	common				non-calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
730	SK764822	40.286	0	25	hCL	7.5YR4/3							non-calcareous	level					I	2	21.01	6.31	2	1	1	1	Wetness	Droughtiness		2
			25	56	C	5YR4/6	5YR5/1;5YR5/8	5	common				non-calcareous																	
			56	65	C	GLEY17/10GY							non-calcareous																	
			65	120	IMP																									
731	SK763822	40.505	0	29	hCL	10YR4/3							non-calcareous	level					I	2	42.22	11.32	1	1	1	1	Wetness			2
			29	32	hCL	10YR4/3	white inclusions						non-calcareous																	
			32	120	IMP																									
732	SK763821	40.447																												Not surveyed
733	SK762820	44.144	0	27	hCL	10YR3/3							non-calcareous	gently sloping					I	2	42.09	11.29	1	1	1	1	Wetness			2
			27	42	hCL	10YR4/6	10YR5/6;10YR6/1	15	common	fine			non-calcareous																	
			42	120	IMP																									
734	SK763819	41.691	0	28	hCL	7.5YR4/4							non-calcareous	level	2				I	2	20.54	5.65	2	1	1	1	Wetness	Droughtiness		2
			28	49	hCL	7.5YR4/4							non-calcareous																	
			49	55	C	2.5YR4/6	7.5YR7/1	1	few				non-calcareous																	
			55	69	C	5Y5/2							non-calcareous																	
			69	120	C	2.5YR4/6	7.5YR7/1	1	few				non-calcareous																	
735	SK764819	37.884	0	27	hCL	10YR3/3							non-calcareous	gently sloping					I	2	25.80	9.78	2	1	1	1	Wetness	Droughtiness		2
			27	45	hCL	10YR5/6							non-calcareous																	
			45	68	hCL	7.5YR4/6							non-calcareous																	
			68	90	C	7.5YR4/4	5YR4/4	5	common	fine			non-calcareous																	
			90	100	C	5GY6/2							non-calcareous																	
			100	120	IMP																									
736	SK765818	37.880	0	19	hCL	10YR4/3							non-calcareous	gently sloping	2	1			I	2	8.83	-7.20	2	1	1	1	Wetness	Droughtiness		2
			19	60	C	7.5YR4/6							non-calcareous																	
			60	78	C	7.5YR4/6	white inclusions						non-calcareous																	
			78	120	C	5YR4/6							non-calcareous																	
737	SK765817	41.156	0	27	hCL	7.5YR4/4							non-calcareous	gently sloping	3	2	1		I	2	16.90	0.98	2	1	1	1	Wetness	Droughtiness		2
			27	42	hCL	7.5YR4/4							non-calcareous																	
			42	80	C	2.5YR4/6							non-calcareous																	
			80	120	IMP																									
738	SK766817	44.768	0	35	hCL	7.5YR3/3	2.5YR6/1; 2.5YR5/8	10	common				non-calcareous	level	1	1			I	2	17.59	1.81	2	1	1	1	Wetness	Droughtiness		2
			35	50	C	2.5YR5/8							non-calcareous																	
			50	120	IMP																									
739	SK767816	42.898	0	25	hCL	7.5YR4/4							non-calcareous	level	2				I	2	9.62	-8.24	2	1	1	1	Wetness	Droughtiness		2
			25	120	IMP																									
740	SK768815	40.674																												Not surveyed
741	SK768815	41.138																												Not surveyed
742	SK769814	41.981																												Not surveyed
743	SK770814	41.409	0	28	hCL	7.5YR4/3							non-calcareous	level	1	1	1		I	2	13.82	-2.08	2	1	1	1	Wetness	Droughtiness		2
			28	120	C	2.5YR4/6							non-calcareous																	
744	SK771813	39.785	0	29	hCL	7.5YR4/4							non-calcareous	level	4	2	1		I	2	17.74	1.78	2	1	1	1	Wetness	Droughtiness		2
			29	46	hCL	7.5YR4/4							non-calcareous																	
			46	83	C	2.5YR4/6	7.5YR7/2	1	few				non-calcareous																	
			83	120	C	2.5YR4/6	7.5YR7/2	1	few				non-calcareous																	
745	SK771812	37.879	0	30	hCL	10YR4/3							non-calcareous	level	3				I	2	40.01	8.97	2	1	1	1	Wetness	Droughtiness		2
			30	53	hCL	10YR5/6							non-calcareous		1															
			53	120	IMP																									
746	SK772812	36.221	0	28	hCL	10YR4/3							non-calcareous	level	2	2	1		I	2	12.76	-3.32	2	1	1	1	Wetness	Droughtiness		2
			28	50	C	6/10GY							non-calcareous																	
			50	120	IMP																									
747	SK773811	35.354	0	36	hCL	7.5YR4/4							non-calcareous	level	3	2	1		I	2	15.77	-0.33	2	1	1	1	Wetness	Droughtiness		2
			36	70	C	2.5YR4/6	7.5YR7/2						non-calcareous																	
			70	120	IMP																									
748	SK773810	36.039	0	35	hCL	7.5YR4/4							non-calcareous	level	3	2	1		I	2	24.54	8.34	2	1	1	1	Wetness	Droughtiness		2
			35	66	hCL	7.5YR5/6							non-calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			66	70	C	2.5YR4/6							non-calcareous		5															
			70	120	IMP																									
749	SK773809	36.788	0	29	hCL	10YR3/3							non-calcareous	level	1	2	2		I	2	19.11	3.05	2	1	1	1	Wetness	Droughtiness		2
			29	47	C	5Y4/6							slightly calcareous																	
			47	64	C	5Y4/6							slightly calcareous																	
			64	70	C	5GY6/2							slightly calcareous																	
			70	120	IMP																									
750	SK773808	37.707	0	35	SCL	7.5YR4/4							non-calcareous	level	3	2	1		I	1	13.35	-3.01	2	1	1	1	Droughtiness			2
			35	45	SCL	7.5YR5/6							non-calcareous																	
			45	60	C	2.5YR4/6							non-calcareous		6															
			60	120	IMP																									
751	SK773807	39.014	0	25	SCL	10YR4/3							non-calcareous	level	5	2			I	1	13.90	-2.09	2	1	1	1	Droughtiness			2
			25	45	hCL	10YR4/4							non-calcareous																	
			45	52	C	7.5YR4/6							non-calcareous																	
			52	120	IMP																									
752	SK773806	39.989	0	28	SCL	10YR4/3							non-calcareous	level	4				I	1	36.99	6.04	2	1	1	1	Droughtiness			2
			28	37	hCL	10YR4/3							non-calcareous																	
			37	57	hCL	10YR4/6							non-calcareous																	
			57	65	hCL	10YR4/6l							non-calcareous																	
			65	120	IMP																									
753	SK773805	40.247	0	28	SCL	7.5YR4/4							non-calcareous	level					I	1	18.19	2.24	2	1	1	1	Droughtiness			2
			28	39	SCL	7.5YR4/4							non-calcareous																	
			39	55	hCL	7.5YR5/4							non-calcareous																	
			55	120	C	2.5YR4/6							non-calcareous																	
754	SK773804	39.980																												Not surveyed
755	SK772803	38.607																												Not surveyed
756	SK772802	37.792	0	28	hCL	7.5YR4/3							non-calcareous	gently sloping	4	2	1		I	2	14.46	-1.60	2	1	1	1	Wetness	Droughtiness		2
			28	37	hCL	7.5YR4/4							non-calcareous																	
			37	78	C	5YR4/6	5YR4/4	5	common				non-calcareous																	
			78	80	C	5GY2/5							non-calcareous																	
			80	120	IMP																									
757	SK772801	38.018	0	25	hCL	7.5YR4/4							non-calcareous	gently sloping	6	4	3		I	2	36.17	3.12	2	1	1	1	Wetness	Droughtiness		2
			25	37	hCL	7.5YR5/4							non-calcareous																	
			37	50	C	2.5YR5/6							non-calcareous		10															
			50	60	SCL	2.5YR4/6							non-calcareous																	
			60	120	IMP																									
758	SK772800	38.735	0	27	hCL	7.5YR5/3							non-calcareous	level	1	2	2		I	2	12.42	-3.66	2	1	1	1	Wetness	Droughtiness		2
			27	70	C	2.5YR4/6							non-calcareous																	
			70	120	IMP																									
759	SK772799	39.368	0	28	hZCL	7.5YR4/4													I	2	24.17	10.39	2	1	1	1	Wetness	Droughtiness		2
			28	62	C	5YR4/6																								
			62	90	C	5YR4/6	5GY2/5	10	common																					
			90	120	IMP																									
760	SK772798	35.906	0	29	hCL	7.5YR4/4							non-calcareous	gently sloping	5	2	1		I	2	17.62	1.51	2	1	1	1	Wetness	Droughtiness		2
			29	51	C	2.5YR4/6							non-calcareous																	
			51	70	C	2.5YR5/6							non-calcareous																	
			70	120	IMP																									
761	SK772797	32.169	0	25	hCL	7.5YR4/4							non-calcareous	moderately sloping	4	2	1		I	2	-40.93	-34.38	3b	1	1	1	Droughtiness			3b
			25	50	C	2.5YR4/6							non-calcareous		5															
			50	120	S	2.5YR4/6																									
762	SK772796	27.486	0	29	hCL	7.5YR4/3							non-calcareous	gently sloping					I	2	40.05	6.62	2	1	1	1	Wetness	Droughtiness		2
			29	52	hCL	7.5YR4/4							non-calcareous																	
			52	70	SCL	5YR4/4							non-calcareous																	
			70	120	IMP																									
763	SK772795	26.263	0	32	hCL	7.5YR4/3							non-calcareous	gently sloping					I	2	17.41	0.74	2	1	1	1	Wetness	Droughtiness		2
			32	43	hCL	7.5YR4/4							non-calcareous																	
			43	61	C	7.5YR5/6							non-calcareous																	
			61	90	C	5YR4/4	7.5YR5/6; 5YR6/1	5	common	fine			non-calcareous																	
			90	120	IMP																									
764	SK771794	27.596	0	33	hCL	7.5YR4/3							non-calcareous	level	2				I	2	12.45	-4.33	2	1	1	1	Wetness	Droughtiness		2
			33	55	C	2.5YR4/6							non-calcareous		5															
			55	120	IMP																									

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
765	SK771793	28.938	0	28	hCL	7.5YR4/3							non-calcareous	level	1				I	2	38.24	4.64	2	1	1	1	Wetness	Droughtiness		2
			28	37	hCL	7.5YR4/4							non-calcareous																	
			37	60	SCL	2.5YR5/6							non-calcareous																	
			60	120	IMP																									
766	SK771792	30.579	0	35	hCL	7.5YR4/3							non-calcareous	gently sloping	3	2	1		I	2	20.32	6.78	2	1	1	1	Wetness	Droughtiness		2
			35	65	C	5YR5/3	7.5YR7/2	1	few				non-calcareous																	
			65	70	C	5YR5/4							non-calcareous																	
			70	120	IMP																									
767	SK770791	32.687	0	28	hCL	7.5YR4/3							non-calcareous	level	3	2	1		I	2	15.30	-1.21	2	1	1	1	Wetness	Droughtiness		2
			28	42	hCL	7.5YR4/3							non-calcareous																	
			42	83	C	2.5YR4/6	7.5YR7/2	5	common				non-calcareous		1															
			83	120	C	2.5YR6/3							non-calcareous																	
768	SK770790	34.795	0	26	hCL	10YR4/3							non-calcareous	level	4	2	1		I	2	10.46	-3.92	2	1	1	1	Wetness	Droughtiness		2
			26	38	hCL	10YR4/3							non-calcareous		1															
			38	57	C	5YR4/6	7.5YR5/6: 7.5YR6/1	7					non-calcareous																	
			57	120	C	2.5YR5/8	2.5Y4/6	5					non-calcareous		8															
769	SK770789	37.385	0	31	SCL	10YR4/3							non-calcareous	gently sloping					I	1	14.98	-1.33	2	1	1	1	Droughtiness			2
			31	47	SCL	10YR4/4							non-calcareous																	
			47	120	C	5YR4/4	white inclusions						non-calcareous																	
770	SK770788	38.796	0	32	hCL	7.5YR4/3							non-calcareous	level	1				I	2	38.11	6.54	2	1	1	1	Wetness	Droughtiness		2
			32	56	hCL	7.5YR5/4							non-calcareous																	
			56	67	C	2.5YR4/6	Mn	2	common				non-calcareous																	
			67	120	SCL	2.5YR4/6							non-calcareous																	
771	SK769787	39.816																												Not surveyed
772	SK769786	40.579																												Not surveyed
773	SK769785	41.640	0	32	hCL	7.5YR5/4							non-calcareous	level	4	2	1		I	2	29.20	6.73	2	1	1	1	Wetness	Droughtiness		2
			32	48	hCL	7.5YR5/4							non-calcareous																	
			48	85	SCL	5YR5/6							non-calcareous																	
			85	120	C	2.5YR4/6							non-calcareous		1															
774	SK768784	41.775	0	36	hCL	7.5YR4/2							non-calcareous						I	2	21.22	5.02	2	1	1	1	Wetness	Droughtiness		2
			36	47	hCL	7.5YR4/3							non-calcareous																	
			47	58	C	5YR4/6	7.5YR6/1	5	common				non-calcareous																	
			58	120	C	5YR4/6	7.5YR5/6	5	common				non-calcareous																	
775	SK768784	40.253	0	26	C	7.5YR4/3							non-calcareous	moderately sloping	4	3	2		I	3a	8.49	-7.78	2	1	1	1	Wetness			3a
			26	60	C	2.5YR4/6	3						non-calcareous																	
			60	120	C	2.5YR4/6	2						non-calcareous																	
776	SK768783	37.888	0	29	hCL	10YR4/3							non-calcareous	gently sloping	3				I	2	16.41	0.05	2	1	1	1	Wetness	Droughtiness		2
			29	42	C	10YR4/3							non-calcareous																	
			42	70	C	5YR4/6	whie inclusion						slightly calcareous																	
			70	120	IMP																									
777	SK767782	35.392	0	26	C	7.5YR4/3							non-calcareous	moderately sloping	3	2	1		I	3a	8.36	-8.11	2	1	1	1	Wetness			3a
			26	68	C	2.5YR4/6	7.5YR7/1	5	common				non-calcareous																	
			68	120	C	2.5YR4/6	7.5YR7/1	5	common				non-calcareous																	
778	SK767781	33.267	0	27	hCL	10YR4/2							non-calcareous	moderately sloping	3	1			I	2	28.10	8.94	2	1	1	1	Wetness	Droughtiness		2
			27	63	mSL	7.5YR4/6							non-calcareous																	
			63	75	C	7.5YR4/6	white inclusion						non-calcareous																	
			75	120	IMP																									
779	SK767780	32.728	0	31	C	5YR3/4							non-calcareous	moderately sloping	1	1			I	3a	10.83	-5.76	2	1	1	1	Wetness			3a
			31	60	C	2.5YR4/6							non-calcareous																	
			60	120	IMP																									
780	SK767779	31.754	0	32	C	7.5YR4/3							non-calcareous	gently sloping	3	2	1		I	3a	10.09	-6.55	2	1	1	1	Wetness			3a
			32	50	C	2.5YR4/6	7.5YR6/1	1	few				non-calcareous																	
			50	120	IMP																									
781	SK767778	28.916	0	27	C	10YR4/3							non-calcareous	gently sloping	3	1	1		I	3a	12.47	-4.22	2	1	1	1	Wetness			3a
			27	44	C	10YR4/3							non-calcareous		1															
			44	100	C	5YR4/6	7.5YR6/1	1	few	fine			non-calcareous		1															
			100	120	IMP																									

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
782	SK767776	26.754																												Not surveyed
783	SK767775	26.371																												Not surveyed
784	SK767774	26.736																												Not surveyed
785	SK767773	26.582																												Not surveyed
786	SK767772	26.823	0	29	hCL	10YR4/3							non-calcareous	level	4				I	2	38.16	6.22	2	1	1	1	Wetness	Droughtiness		2
			29	35	hCL	10YR4/4	7.5YR4/6;10YR6/1	5	common				non-calcareous																	
			35	120	IMP																										
787	SK767771	27.580	0	29	mCL	10YR4/2							non-calcareous	gently sloping	2	1			I	1	18.54	1.42	2	1	1	1	Droughtiness			2
			29	47	hCL	7.5YR5/3							non-calcareous																	
			47	52	SC	7.5YR4/4	7.5YR5/6	15	common				non-calcareous																	
			52	70	C	2.5Y6/2							non-calcareous																	
			70	120	IMP																										
788	SK767770	28.614	0	26	hCL	10YR4/3							non-calcareous	gently sloping	2	1			I	2	18.18	1.28	2	1	1	1	Wetness	Droughtiness		2
			26	38	hCL	10YR4/3							non-calcareous																	
			38	51	hCL	10YR4/4							non-calcareous																	
			51	68	C	7.5YR4/4							non-calcareous																	
			68	90	C	5YR5/4	white inclusions						non-calcareous																	
			90	120	IMP																										
789	SK767769	29.649	0	27	hCL	7.5YR4/4							non-calcareous	level	2	1			I	2	13.98	-2.90	2	1	1	1	Wetness	Droughtiness		2
			27	36	hCL	7.5YR5/4							non-calcareous																	
			36	70	C	2.5YR4/6	7.5YR7/1	4	common				non-calcareous																	
			70	120	C	2.5YR4/6	7.5YR7/1	3	common				non-calcareous																	
790	SK767768	30.717	0	29	hCL	7.5YR4/3							non-calcareous	level	3	2	1		I	2	11.85	-4.99	2	1	1	1	Wetness	Droughtiness		2
			29	120	C	2.5YR4/6	7.5YR7/1	3	common				non-calcareous																	
791	SK767767	31.811	0	25	hCL	7.5YR4/3							non-calcareous	level	2				I	2	10.62	-6.20	2	1	1	1	Wetness	Droughtiness		2
			25	96	C	2.5YR4/6	7.5YR7/1	1	few				non-calcareous																	
			96	100	C	7.5YR6/1							non-calcareous																	
			100	120	C	2.5YR4/6	7.5YR7/1	1	few				non-calcareous																	
792	SK767766	32.626																												Not surveyed
793	SK767765	33.424																												Not surveyed
794	SK767764	32.602																												Not surveyed
795	SK767763	29.644																												Not surveyed
796	SK767762	28.510																												Not surveyed
797	SK768761	28.759																												Not surveyed
798	SK768760	29.126																												Not surveyed
799	SK768759	29.980	0	28	C	7.5YR4/4							non-calcareous	level	1	1	1		I	3a	12.25	-4.72	2	1	1	1	Wetness			3a
			28	37	C	5YR5/4							moderately calcareous																	
			37	63	C	2.5YR4/8	2.5YR7/6 , 2.5YR6/1	5	common				moderately calcareous																	
			63	65	C	2.5YR6/6	2.5YR7/6 , 2.5TR6/1	5	common				very calcareous																	
			65	120	IMP																										
800	SK768758	30.061	0	31	hCL	7.5YR4/3							non-calcareous	level	1				I	2	18.59	1.61	2	1	1	1	Wetness	Droughtiness		2
			31	47	C	2.5YR4/6							non-calcareous																	
			47	52	C	7.5YR6/1							non-calcareous																	
			52	60	C	2.5YR4/6							non-calcareous																	
			60	120	IMP																										
801	SK768757	29.696																												Not surveyed
802	SK768756	30.559																												Not surveyed
803	SK768755	31.183																												Not surveyed
804	SK768754	31.767																												Not surveyed
805	SK768753	31.832	0	27	hCL	7.5YR4/4							slightly calcareous	level	1				I	2	25.69	2.95	2	1	1	1	Wetness	Droughtiness		2
			27	45	C	7.5YR4/6							slightly calcareous																	
			45	57	SCL	7.5YR4/4							moderately calcareous																	
			57	98	C	7.5YR4/6							very calcareous																	
			98	115	SC	5YR6/6							very calcareous																	
			115	120	C	7.5YR4/6																										
806	SK769752	30.826																												Not surveyed
807	SK769751	30.626																												Not surveyed
808	SK769750	29.462																												Not surveyed
809	SK769749	28.407																												Not surveyed
810	SK770748	26.444																												Not surveyed
811	SK771748	24.070																												Not surveyed
812	SK772747	22.486	0	28	org-HCL	7.5YR3/3							moderately calcareous	level	1				I	1	47.06	31.71	1	1	1	1	None			1
			28	60	C	5YR4/6	GLEY16/10Y	15	common	coarse			moderately calcareous																	
			60	100	C	5YR4/6							very calcareous																	
			100	120	IMP																										
813	SK772746	21.395	0	25	org-MCL	10YR4/2					Yes	115	non calcareous	level	1				I	1	61.91	31.01	1	1	1	1	None			1
			25	42	mCL	10YR4/2																										
			42	72	mCL	10YR3/4																										
			72	115	hCL	10YR4/4																										
			115	120	C	GLEY16/10Y																										
814	SK773746	20.917																												Not surveyed
815	SK774745	20.715																												Not surveyed
816	SK775745	19.337																												Not surveyed
817	SK775744	18.382																												Not surveyed
818	SK776743	17.244																												Not surveyed
819	SK777743	14.974																												Not surveyed
820	SK778742	14.119	0	34	C	7.5YR4/4					Yes	75	non-calcareous	level	0				I	3a	9.31	-10.41	3a	1	1	1	Wetness	Droughtiness		3a
			34	75	ZC	2.5YR5/6	7.5YR6/1, 7.5YR6/8, Mn	10	common				non-calcareous																	
			75	120	ZC	5YR6/3	7.5YR7/1	20	common				non-calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
821	SK779741	15.212	0	38	hCL	7.5YR4/3							non-calcareous	gently sloping	1	2	1		I	2	25.42	-1.85	2	1	1	1	Wetness	Droughtiness		2
			38	88	C	5YR5/6							non-calcareous																	
			88	92	SCL	7.5YR5/6							non-calcareous																	
			92	120	IMP																									
822	SK779741	16.960	0	29	SCL	7.5YR4/4							non-calcareous	level	4	2	1		I	1	13.13	-4.97	2	1	1	1	Droughtiness			2
			29	55	SCL	7.5YR5/4							non-calcareous																	
			55	120	C	2.5YR4/6	7.5YR6/1	2	common				non-calcareous																	
823	SK780740	16.206	0	32	cSL	10YR4/2							non-calcareous	level	10	7	1		I	1	5.29	-12.34	3a	1	1	2	Droughtiness			3a
			32	55	C	7.5YR4/6							non-calcareous																	
			55	120	IMP																									
824	SK781740	15.285	0	37	SCL	10YR4/2							non-calcareous	level	1				I	1	35.31	0.63	2	1	1	1	Droughtiness			2
			37	62	SCL	10YR5/4	7.5YR5/6	7	common				non-calcareous																	
			62	120	IMP																									
825	SK782739	14.693	0	27	SCL	7.5YR4/3							non-calcareous	level	4	2	1		I	1	15.62	-3.59	2	1	1	1	Droughtiness			2
			27	48	SCL	7.5YR4/4							non-calcareous																	
			48	65	SCL	10YR5/4	7.5YR6/1, 7.5YR6/8, Mn	10	common				non-calcareous																	
			65	92	C	7.5YR6/1							non-calcareous																	
			92	120	C	2.5YR4/6							non-calcareous																	
826	SK782738	14.396	0	36	SCL	10YR4/3							non-calcareous	level	2	1			I	1	15.02	-1.92	2	1	1	1	Droughtiness			2
			36	54	C	10YR5/6							non-calcareous		1															
			54	83	C	5YR4/4							very slightly calcareous																	
			83	120	C	5YR4/4	white(geology)	25	many				slightly calcareous																	
827	SK782737	14.727	0	30	mCL	10YR3/3					Yes	100	non-calcareous	level	3	1			I	1	20.92	-2.87	2	1	1	1	Droughtiness			2
			30	45	hCL	7.5YR4/4	7.5YR5/8	15		medium			non-calcareous																	
			45	80	C	5YR4/6							non-calcareous		2															
			80	100	SCL	5YR4/6							non-calcareous																	
			100	120	C	5YR4/6	5YR6/1	35		medium			very slightly calcareous																	
828	SK783736	16.148	0	35	mCL	10YR3/3							non-calcareous	level	3	2			I	1	12.83	-6.81	2	1	1	1	Droughtiness			2
			35	42	C	7.5YR6/3							non-calcareous																	
			42	45	SC	GLEY16/10Y							non-calcareous		15															
			45	120	ZC	5YR5/4	5YR6/3	15		medium			non-calcareous																	
829	SK783735	15.877	0	34	mCL	7.5YR4/2							non-calcareous	level	2	1			I	1	14.96	-4.18	2	1	1	1	Droughtiness			2
			34	115	C	5YR4/6							very slightly calcareous																	
			115	120	SC	5YR4/6	5YR6/1	1					non-calcareous																	
830	SK783734	14.915																												Not surveyed
831	SK783733	13.773																												Not surveyed
832	SK783732	11.503																												Not surveyed
833	SK784731	10.198																												Not surveyed
834	SK784730	9.459																												Not surveyed
835	SK784729	9.240																												Not surveyed
836	SK784728	9.210	0	35	C	7.5YR4/3					Yes	35	non-calcareous	level	2				III	3b	14.23	-3.09	2	1	1	1	Wetness			3b
			35	53	C	2.5Y6/4	7.5YR7/8, 7.5YR7/1	15	common				moderately calcareous		1															
			53	120	C	2.5YR4/6	7.5YR7/1	5	common				non-calcareous																	
837	SK784727	9.254	0	38	hCL	10YR4/3					Yes	46	non-calcareous	level	2	2			II	3a	28.41	5.42	2	1	1	1	Wetness			3a
			38	45	SCL	10YR4/3							moderately calcareous		1															
			45	56	hCL	2.5Y6/4	5Y6/2	30	many	medium			very calcareous																	
			56	87	hCL	7.5YR5/6							very calcareous																	
			87	120	C	7.5YR4/4							very calcareous																	
838	SK785727	9.310	0	36	C	7.5YR4/4					Yes	50	non-calcareous	level	1				II	3a	32.23	0.94	2	1	1	1	Wetness			3a
			36	50	C	7.5YR6/2	7.5YR7/8						very slightly calcareous																	
			50	84	SCL	10YR6/2	7.5YR7/8, 7.5YR7/1						moderately calcareous																	
			84	120	LmS	7.5YR7/2							slightly calcareous																	
839	SK786726	9.191	0	25	hCL	10YR4/3					Yes	32	non-calcareous	level	3	2			III	3b	10.02	-7.89	2	1	1	1	Wetness			3b
			25	32	hCL	10YR4/3							moderately calcareous		1															
			32	79	C	5Y6/3	2.5Y6/1; 2.5Y6/6; 10YR6/8	0.6	many	medium			very calcareous																	
			79	120	C	5YR4/4							very calcareous																	
840	SK786725	8.926	0	25	C	7.5YR4/3					Yes	66	very slightly calcareous	level	1				II	3a	6.22	-14.91	3a	1	1	1	Wetness	Droughtiness		3a
			25	66	ZC	5YR5/4							slightly calcareous																	
			66	75	SCL	10YR7/6							slightly calcareous		1															
			75	115	C	2.5Y6/4							slightly calcareous		1															
			115	120	ZC	2.5YR4/6							slightly calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
841	SK787724	8.772	0	32	hCL	10YR3/3							slightly calcareous	level	2	1	0		I	2	28.45	1.51	2	1	1	1	Wetness	Droughtiness		2
			32	53	hCL	10YR4/6							non-calcareous		1															
			53	64	C	7.5YR4/4							moderately calcareous																	
			64	100	hCL	7.5YR5/4							very calcareous																	
			100	120	C	7.5YR4/4							very calcareous																	
842	SK787723	8.792	0	33	hCL	7.5YR4/3							non-calcareous	level	3	2	1		I	2	36.24	4.28	2	1	1	1	Wetness	Droughtiness		2
			33	49	C	7.5YR5/4							non-calcareous		1															
			49	66	mSL	10YR5/4							non-calcareous		1															
			66	120	LmS	5YR5/4							non-calcareous		1															
843	SK788721	9.397																												Not surveyed
844	SK789720	9.228																												Not surveyed
845	SK789720	9.281																												Not surveyed
846	SK790719	10.431	0	32	hCL	10YR4/2							very slightly calcareous	level	1				I	2	29.49	2.60	2	1	1	1	Wetness	Droughtiness		2
			32	59	hCL	10YR5/4							non-calcareous																	
			59	90	C	7.5YR4/4	7.5YR6/8	30	many				non-calcareous																	
			90	120	hCL	7.5YR4/2	7.5YR5/8;7.5YR5/1	40	many				non-calcareous																	
847	SK790718	13.490	0	28	hCL	7.5YR4/3							very slightly calcareous	level	1				I	2	10.86	-6.91	2	1	1	1	Wetness	Droughtiness		2
			28	50	C	5YR4/6	5YR5/8	10	common				non-calcareous																	
			50	120	IMP																									
848	SK791717	14.491	0	38	SCL	10YR4/3							non-calcareous	level	1				I	1	12.04	-5.70	2	1	1	1	Droughtiness			2
			38	60	C	5YR4/4	5YG2/5	30	many				non-calcareous																	
			60	120	IMP																									
849	SK791716	15.958	0	35	SCL	7.5YR4/3							non-calcareous	level	1				I	1	36.58	3.90	2	1	1	1	Droughtiness			2
			35	70	hCL	7.5YR5/4	7.5YR6/1, 7.5YR6/8	1	few				non-calcareous																	
			70	120	IMP																									
850	SK792715	18.338	0	38	hCL	10YR3/3							non-calcareous	gently sloping	3	1			I	2	15.00	-2.60	2	1	1	1	Wetness	Droughtiness		2
			38	65	C	5YR4/4							non-calcareous																	
			65	85	C	5YG2/5							non-calcareous																	
			85	120	IMP																									
851	SK792714	19.278	0	25	hCL	10YR4/3							non-calcareous	gently sloping	1	2	1		I	2	21.23	0.07	2	1	1	1	Wetness	Droughtiness		2
			25	35	hCL	10YR4/4							non-calcareous																	
			35	55	C	2.5YR 4/3							non-calcareous																	
			55	82	hCL	7.5YR5/4							non-calcareous																	
			82	120	C	2.5YR4/3							non-calcareous																	
852	SK793714	19.158	0	29	SCL	10YR4/3							non-calcareous	level	3	2			I	1	35.12	7.74	2	1	1	1	Droughtiness			2
			29	45	SCL	10YR3/2							non-calcareous		1															
			45	57	SCL	7.5YR3/3							non-calcareous																	
			57	83	cSL	7.5YR5/6							non-calcareous																	
			83	120	C	5YR4/4							non-calcareous																	
853	SK793713	19.088	0	35	hCL	10YR4/3					Yes	70	non-calcareous	level	2	1			I	2	24.83	-3.26	2	1	1	1	Wetness	Droughtiness		2
			35	68	C	5YR4/4							non-calcareous																	
			68	85	C	5YR4/2	5GY2/5	30	many	medium			non-calcareous																	
			85	120	hCL								non-calcareous																	
854	SK794712	19.243	0	29	hCL	7.5YR4/3							non-calcareous	gently sloping	2	2	1		I	2	27.14	-5.46	2	1	1	1	Wetness	Droughtiness		2
			29	68	C	2.5YR5/6	7.5YR6/1	5	common				non-calcareous																	
			68	85	hCL	7.5YR7/1							non-calcareous																	
			85	120	hCL	2.5YR5/6							non-calcareous																	
855	SK794711	19.155	0	33	SCL	7.5YR3/3					Yes	35	non-calcareous	level	2	2	1		III	3a	10.15	-7.47	2	1	1	1	Wetness			3a
			33	62	C	7.5YR7/1							non-calcareous																	
			62	74	C	2.5YR5/6	7.5YR6/1	5	common				non-calcareous																	
			74	120	C	7.5YR7/1							non-calcareous																	
856	SK795710	18.661	0	36	hCL	7.5YR4/3							non-calcareous	level	3	2	1		I	2	22.29	2.84	2	1	1	1	Wetness	Droughtiness		2
			36	68	SCL	5YR6/8	7.5YR6/1, 5YR5/6	5	common				non-calcareous																	
			68	120	C	7.5YR7/1							non-calcareous																	
857	SK795709	19.057	0	35	SCL	7.5YR3/3							very slightly calcareous	gently sloping	5	3	1		I	1	20.57	-8.47	2	1	1	1	Droughtiness			2
			35	82	C	5YR4/6																									
			82	120	hCL	5YR4/6																									
858	SK796709	19.376	0	36	SCL	7.5YR3/3					Yes	55	non-calcareous	level	7	3	1		II	2	9.73	-5.89	2	1	1	1	Wetness	Droughtiness		2
			36	55	C	5YR5/6	7.5YR6/1	40	many				non-calcareous		5															

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			55	120	C	5YR4/6	7.5YR6/2	15	common				non-calcareous		5															
859	SK797709	18.661	0	45	SCL	10YR3/2							non-calcareous	gently sloping	7	2	1		I	1	29.15	-9.21	2	1	1	1	Droughtiness			2
			45	68	LmS	10YR4/4							non-calcareous		2															
			68	90	SCL	10YR4/4	7.5YR4/4	5					non-calcareous																	
			90	120	SCL	7.5YR4/4							non-calcareous																	
860	SK798709	17.248	0	28	SCL	10YR3/2					Yes	65	non-calcareous	level	2	1			I	1	8.03	-9.71	2	1	1	1	Droughtiness			2
			28	65	C	5YR4/6							non-calcareous																	
			65	82	C	GLEY16/10Y							non-calcareous																	
			82	120	C	5YR4/6							non-calcareous																	
861	SK799708	15.064	0	25	SCL	7.5YR3/3					Yes	78	non-calcareous	level	4	1			I	1	9.63	-8.21	2	1	1	1	Droughtiness			2
			25	38	hCL	7.5YR3/3							non-calcareous																	
			38	78	C	7.5YR4/4							non-calcareous																	
			78	120	C	GLEY16/10Y							non-calcareous																	
862	SK800708	12.427	0	39	SCL	7.5YR3/3					Yes	90	non-calcareous	level	5	2	1		I	1	14.94	-2.24	2	1	1	1	Droughtiness			2
			39	60	SCL	7.5YR5/3							non-calcareous																	
			60	70	SC	7.5YR5/3							non-calcareous																	
			70	90	C	7.5YR4/4	10YR6/1	15		medium			non-calcareous		20															
			90	120	C	10YR6/1							slightly calcareous																	
863	SK801708	10.453	0	34	SCL	7.5YR3/3					Yes	115	very slightly calcareous	level	4	2	1		I	1	18.11	-2.50	2	1	1	1	Droughtiness			2
			34	72	SC	7.5YR4/4							non-calcareous																	
			72	115	C	10YR4/4							non-calcareous																	
			115	120	C	10YR5/1							non-calcareous																	
864	SK801708	10.455	0	33	mCL	7.5YR2.5/2							very slightly calcareous	level	3	1			I	1	11.71	-6.31	2	1	1	1	Droughtiness			2
			33	95	C	5YR3/4							non-calcareous																	
			95	120	C	5YR4/6							non-calcareous																	
865	SE941308	112.132																												Not surveyed
866	SE910288	3.026																												Not surveyed
867	SE900285	3.328	0	28	hCL	10YR3/2					Yes	28	non-calcareous	level	1	0	0	0	IV	3b	39.55	9.64	2	1	1	1	Wetness			3b
			28	60	C	10YR4/1	10YR5/8	30	many						1	0	0	0												
			60	120	SCL	10YR5/1	10YR5/8, 10YR6/6	20	common						1	0	0	0												
868	SE901285	2.919	0	30	C	10YR3/2					Yes	35	non-calcareous	level	1	0	0	0	IV	3b	12.12	-3.86	2	1	1	1	Wetness			3b
			30	40	C	10YR4/2	10YR5/8, Mn	5	common						1	0	0	0												
			40	120	C	10YR5/1 -> 4/1	10YR5/8	30	many						1	0	0	0												
869	SE902285	2.850	0	31	C	10YR3/2					Yes	35	non-calcareous	level	2	2	0	0	IV	3b	12.00	-3.98	2	1	1	1	Wetness			3b
			31	120	C	10YR4/1	10YR5/8, 10R 4/8, 10YR5/4	50	very many						1	0	0	0												
870	SE903285	2.722																												Scoped Out
871	SE904286	2.941	0	36	hCL	10YR3/2					Yes	36	very slightly calcareous	level	5	5	2	5	IV	3b	36.11	4.14	2	1	1	1	Wetness			3b
			36	53	C	10YR4/3	10YR5/8	20	common						2	2	0	2												
			53	120	SCL	10YR4/4	10YR5/8, 10YR5/1, Mn	50	very many						1	0	0	0												
872	SE905286	3.592	0	31	hCL	10YR3/3					Yes	31	non-calcareous	level	1	0	0	1	IV	3b	15.30	-0.63	2	1	1	1	Wetness			3b
			31	120	C	5YR5/4 -> 5/1	10YR5/8, 10YR5/1	50	very many						1	0	0	0												
873	SE906286	3.318	0	36	C	10YR3/3					Yes	36	slightly calcareous	level	1	0	0	1	IV	3b	14.34	-1.60	2	1	1	1	Wetness			3b
			36	120	C	5YR5/3 ->4/1	10YR5/8, 10YR5/1, 10YR6/6	50	very many						1	0	0	0												
874	SE907286	3.222	0	26	hCL	10YR3/3					Yes	26	non-calcareous	level	2	2	2	2	IV	3b	11.77	-4.17	2	1	1	1	Wetness			3b
			26	120	C	10YR5/2 -> 5/1	10YR5/8, 10YR5/1	50	very many						1	0	0	0												
875	SE907286	3.253	0	30	C	10YR3/2					Yes	30	non-calcareous	gently sloping	1	0	0	2	IV	3b	11.46	-4.61	2	1	1	1	Wetness			3b
			30	100	C	10YR5/3, 5B 5/1	10YR5/8, 10YR5/1, 10YR6/6	50	very many						1	0	0	0												
			100	120	IMP																									

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
876	SE909287	3.298																												Not surveyed
877	SE910287	3.170																												Not surveyed
878	SE911287	3.214																												Not surveyed
879	SE912287	3.419																												Not surveyed
880	SE914288	3.286	0	15	C	10YR 3/2					Yes	15	non-calcareous	level	1	0	0	0	IV	3b	77.35	27.83	1	1	1	1	Wetness			3b
			15	60	C	10YR 4/1	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
			60	120	LfS	10YR 5/8									1	0	0	0												
881	SE915288	4.002	0	35	LmS	10YR 4/2					Yes	35	non-calcareous	level	1	0	0	0	IV	3a	23.93	-8.72	2	1	2	1	Wetness			3a
			35	120	SCL	10YR 4/4	10YR 5/8, 10YR 5/1	30	many						1	0	0	0												
882	SE916288	4.479	0	52	mSL	10YR 4/4					Yes	52	non-calcareous	level	1	0	0	0	II	1	39.19	8.75	2	1	1	1	Droughtiness			2
			52	70	mSL	10YR 6/3	10YR 5/8	20	common						1	0	0	0												
			70	120	LmS	10YR 5/8									1	0	0	0												
883	SE917289	5.124	0	37	mSL	10YR 3/2					No		non-calcareous	level	1	0	0	0	I	1	33.36	5.75	2	1	1	1	Droughtiness			2
			37	70	SCL	10YR 4/2									1	0	0	0												
			70	120	LmS	10YR 5/2									1	0	0	0												
884	SE918289	5.703	0	35	mSL	10YR 3/2					No		non-calcareous	level	1	0	0	0	I	1	29.49	4.92	2	1	1	1	Droughtiness			2
			35	55	mSL	10YR 4/2	Mn	1	few	fine					1	0	0	0												
			55	80	LmS	10YR 5/2									1	0	0	0												
			80	120	LmS	10YR 5/1, 10YR 7/6									50	50	0	35												
885	SE919289	5.676																												Not surveyed
886	SE920289	6.127																												Not surveyed
887	SE921290	6.519																												Not surveyed
888	SE922290	6.426																												Not surveyed
889	SE923290	7.053																												Not surveyed
890	SE924290	8.790	0	33	LmS	10YR 3/2					Yes	33	non-calcareous	gently sloping	2	2	0	0	IV	3a	11.47	-19.39	3a	1	2	1	Wetness	Droughtiness		3a
			33	120	LmS	10YR 3/4	Mn	5	common						2	2	0	0												
891	SE925291	11.604	0	30	LmS	10YR 3/2					Yes	30	non-calcareous	gently sloping	2	2	0	0	IV	3a	11.73	-19.01	3a	1	2	1	Wetness	Droughtiness		3a
			30	76	LmS	10YR 4/6	10YR 5/8, Mn	5	common						2	2	0	0												
			76	120	LmS	10YR 5/6									2	2	0	0												
892	SE926291	14.904	0	28	LmS	10YR 4/2					Yes	60	non-calcareous	moderately sloping	1	0	0	0	II	1	12.34	-2.72	2	1	2	1	Droughtiness	Texture		2
			28	70	mSL	10YR 6/4	10YR 5/8, 10YR 6/6, Mn	5	common						1	0	0	0												
			70	120	C	10YR 5/1	10YR 5/8, 10YR 6/6, Mn	50	very many						1	0	0	0												
893	SE927291	19.748																												Not surveyed
894	SE928291	22.574																												Not surveyed
895	SE929291	22.774																												Not surveyed
896	SE930292	22.326																												Not surveyed
897	SE931292	21.095	0	30	SCL	10YR 4/2					Yes	75	non-calcareous	level	2	2	0	0	I	1	36.53	6.68	2	1	1	1	Droughtiness			2
			30	75	SCL	7.5YR 4/4									1	0	0	0												
			75	120	SCL	7.5YR 5/4	10YR 5/8, 10YR 5/1	50	very many						5	5	0	0												
898	SE932292	20.698	0	55	mCL	10YR 4/2	10YR 5/8	20	common		Yes	35	non-calcareous	level	2	2	0	0	IV	3b	44.25	13.83	1	1	1	1	Wetness			3b
			55	120	SCL	7.5YR 5/4	Mn, Fe	1	few						10	10	0	0												
899	SE932293	21.523	0	30	mCL	10YR 4/2					No		non-calcareous	level	2	2	0	0	I	1	36.83	18.50	1	1	1	1	None			1
			30	65	SCL	10YR 5/4									5	5	0	0												
			65	120	mSL	10YR 6/4									50	50	0	0												
900	SE933294	22.793	0	32	SCL	10YR 4/2					Yes	32	non-calcareous	level	2	2	0	0	IV	3b	19.38	-4.30	2	1	1	1	Wetness			3b
			32	45	SCL	10YR 5/4	Mn	20	common						5	5	0	0												
			45	120	LfS	10YR 6/4	Mn	1	few						50	2	0	0												
901	SE933295	24.025	0	33	SCL	10YR 3/2					No		slightly calcareous	level	2	2	0	0	I	1	9.64	-0.71	2	1	1	1	Droughtiness			2
			33	60	SCL	10YR 4/4									5	5	0	0												
			60	120	SCL	10YR 4/4									50	2	0	0												
902	SE934296	25.348	0	29	SCL	10YR 3/2	Mn	1	few		Yes	23	very calcareous	level	5	5	2	0	IV	3b	28.14	2.22	2	1	1	1	Wetness			3b
			29	51	SCL	10YR 5/6									2	2	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			51	120	SCL	10YR 6/4									15	15	2	0												
903	SE934297	26.499	0	32	mSL	10YR 3/3					No		slightly calcareous	level	2	1	0	0	I	1	36.72	12.92	1	1	1	1	None			1
			32	65	mSL	7.5YR 4/4									2	0	2	1												
			65	120	LmS	10YR 6/6									50	50	1	2												
904	SE935297	27.837	0	18	SCL	10YR 3/2					No		slightly calcareous	level	2	2	0	1	I	1	21.87	-3.78	2	1	1	1	Droughtiness			2
			18	32	SCL	10YR 4/3									5	5	0	1												
			32	75	SCL	10YR 6/4	10YR 5/8, 10YR 6/6, Mn	50	very many						50	50	0	2												
			75	120	SCL	10YR 6/4	10YR 5/8, 10YR 6/6, Mn	50	very many						50	50	0	2												
905	SE936298	30.352	0	32	mCL	10YR 3/3					Yes	32	very calcareous	level	2	2	0	2	IV	3b	28.79	4.24	2	1	1	1	Wetness			3b
			32	120	hCL	10YR 6/6	10YR 5/1, Mn	fw	very many						50	10	0	2												
906	SE936299	34.273	0	32	mCL	10YR 3/2					Yes	32	very calcareous	gently sloping	2	2	0	2	IV	3b	42.83	13.16	1	1	1	1	Wetness			3b
			32	60	SCL	7.5YR 4/4	Mn	5	common						2	2	0	2												
			60	120	hCL	10YR 6/8	Mn	20	common						2	2	0	2												
907	SE937300	38.686	0	32	mCL	10YR 3/3					No		very calcareous	gently sloping	2	2	0	2	I	1	35.53	11.93	1	1	1	1	None			1
			32	65	SCL	7.5YR 4/4									2	2	0	2												
			65	120	SCL	10YR 6/4									50	50	0	2												
908	SE937301	44.265	0	28	hCL	10YR 3/2					No		very calcareous	gently sloping	2	2	0	2	I	2	15.82	17.34	2	1	1	1	Wetness	Droughtiness		2
			28	45	hCL	10YR 4/2									5	5	0	2												
			45	90	hCL	7.5YR 4/4									2	2	0	2												
			90	120	Chalk										50	50	0	5												
909	SE938302	54.595	0	26	hCL	10YR 4/2					No		very calcareous	moderately sloping	10	10	0	2	I	2	63.38	32.07	1	1	1	1	Wetness			2
			26	70	hCL	7.5YR 4/6									15	15	0	2												
			70	120	mSL	5YR 4/6									35	35	0	2												
910	SE938302	70.999																												Non-agricultural
911	SE939303	85.976																												Non-agricultural
912	SE939304	93.232																												Non-agricultural
913	SE940305	95.692																												Non-agricultural
914	SE940306	94.559																												Non-agricultural
915	SE941307	71.743																												Non-agricultural
916	SE942307	95.611																												Non-agricultural
917	SE942308	112.085																												Non-agricultural
918	SE943309	120.796	0	20	mZCL	10YR 3/2					No		very calcareous	moderately sloping	1	1	0	15	I	1	-66.05	-53.35	4	1	1	1	Droughtiness			4
			20	120	Chalk																									
919	SE944309	124.113	0	22	mCL	10YR 3/2					No		very calcareous	moderately sloping	50	50	5	1	I	1	-70.52	-57.69	4	1	1	4	Droughtiness	Stoniness		4
			22	35	mZCL	2.5Y 6/4									50	50	0	15												
			35	120	Chalk																									
920	SE945310	124.302	0	32	mCL	10YR 3/3					No		very calcareous	moderately sloping	50	50	2	2	I	1	-67.68	-54.83	4	1	1	4	Droughtiness	Stoniness		4
			32	120	Chalk	10YR 8/1									50	50	2	2												
921	SE946310	123.752	0	28	mZCL	10YR 3/3					No		very calcareous	moderately sloping	35	35	5	1	I	1	-48.89	-36.06	3b	1	1	3b	Droughtiness	Stoniness		3b
			28	39	mCL	7.5YR 4/4									15	15	1	1												
			39	120	Chalk																									
922	SE947311	127.104																												Scoped Out
923	SE942308	117.421																												Scoped Out
924	SE942309	125.626	0	27	mZCL	10YR 3/2					No		very calcareous	moderately sloping	50	50	10	1	I	1	-62.01	-49.10	4	1	1	4	Droughtiness	Stoniness		4
			27	36	mCL	7.5YR 4/6									15	15	0	15												
			36	120	Chalk																									
925	SE943310	130.090	0	23	mZCL	10YR 3/2					No		very calcareous	gently sloping	50	50	5	1	I	1	-57.95	-44.85	4	1	1	4	Droughtiness	Stoniness		4
			23	45	mCL	10YR 6/3									50	50	0	1												
			45	120	Chalk																									

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
926	SE944310	131.008	0	30	mZCL	10YR 3/3					No		very calcareous	gently sloping	35	35	10	1	I	1	-58.78	-45.65	4	1	1	3b	Droughtiness			4
			30	120	Chalk	10YR 8/1									50	50	0	1												
927	SE945311	130.228	0	30	mZCL	10YR 3/3					No		very calcareous	gently sloping	35	35	1	1	I	1	-55.34	-42.23	4	1	1	3b	Droughtiness			4
			30	34	mCL	7.5YR 4/4									15	15	0	10												
			34	120	Chalk																									
928	SE946311	128.277	0	35	mZCL	10YR 3/3					No		very calcareous	moderately sloping	50	50	2	5	I	1	-63.03	-50.00	4	1	1	4	Droughtiness	Stoniness		4
			35	40	mCL	7.5YR 4/4									15	15	0	35												
			40	120	Chalk																									
929	SE947311	128.009	0	30	mCL	10YR 4/2					No		very calcareous	moderately sloping	50	50	2	5	I	1	-63.15	-50.15	4	1	1	4	Droughtiness	Stoniness		4
			30	40	mCL	10YR 4/4									35	35	0	5												
			40	120	Chalk																									
930	SE795120	1.187	0	32	mCL	7.5YR4/3							very calcareous	level	0				I	1	7.20	5.48	2	1	1	1	Droughtiness			2
			32	88	SCL	7.5YR5/6							very calcareous																	
			88	120	P	7.5YR2.5/1							non-calcareous																	
931	SE796119	1.873	0	27	mZCL	10YR4/4							very calcareous	level	0				I	1	69.28	8.65	2	1	1	1	Droughtiness			2
			27	35	mZCL	10YR4/4							very calcareous																	
			35	85	SCL	10YR4/6	7.5YR6/6	1					very calcareous																	
			85	100	P	10YR2.5/1							non-calcareous																	
			100	120	mSL	10YR7/1							non-calcareous																	
932	SE797119	1.711	0	29	mCL	10YR4/3							very calcareous	level	0				I	1	51.20	9.06	2	1	1	1	Droughtiness			2
			26	85	hCL	10YR5/4	7.5YR6/1, 7.5YR6/6	5					very calcareous																	
			85	98	mSL	10YR6/2	7.5YR6/1, 7.5YR6/6	25					very calcareous																	
			98	120	mSL	10YR5/6	7.5YR6/1, 5YR6/6	20					very calcareous																	
933	SE798119	1.329																												Not surveyed
934	SE798119	1.234	0	30	hCL	10YR 4/2					Yes	30	non-calcareous	level	1	0	0	0	III	3b	-13.08	-27.53	3a	1	1	1	Wetness			3b
			30	120	mS	5YR 6/4	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
935	SE797118	1.800	0	48	hCL	10YR 4/2	Mn	20	common	fine	Yes	70	non-calcareous	level	1	0	0	0	I	2	90.18	48.96	1	1	1	1	Wetness			2
			48	70	P	10YR 2/1									1	0	0	0												
			70	81	hCL	10YR 4/3	10YR 5/8	5	common	fine					1	0	0	0												
			81	120	mSL	10YR 6/2	10YR 5/8	20	common	medium					1	0	0	0												
936	SE796118	1.634	0	30	mCL	7.5YR4/3							very calcareous	level	0				I	1	34.51	11.90	1	1	1	1	None			1
			30	45	mCL	7.5YR4/4							very calcareous																	
			45	78	hZCL	7.5YR6/4	5YR5/8	2					very calcareous																	
			78	85	P	7.5YR2.5/1							non-calcareous																	
			85	120	SCL	7.5YR7/1	5YR5/8	2					non-calcareous																	
937	SE795119	1.184	0	27	mCL	7.5YR4/3							very calcareous	level	0				I	1	44.55	11.27	1	1	1	1	None			1
			27	42	mCL	7.5YR4/3							very calcareous																	
			42	68	mSL	7.5YR5/6							very calcareous																	
			68	95	hZCL	7.5YR5/4	5YR5/8	2					slightly calcareous																	
			95	102	mCL	7.5YR4/1							very slightly calcareous																	
			102	120	LmS	7.5YR7/2	7.5YR5/6	2					non-calcareous																	
938	SE794119	1.624	0	40	SCL	10YR 4/2					Yes	40	very calcareous	level	1	0	0	0	III	2	67.01	23.82	1	1	1	1	Wetness			2
			40	75	ZL	10YR 5/4	10YR 5/8, 10YR 5/1	30	many						1	0	0	0												
			75	85	P	10YR 2/1									1	0	0	0												
			85	120	SCL	10YR 4/1	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
939	SE795119	1.183	0	34	hZCL	7.5YR 3/3					Yes	34	non-calcareous	level	1	0	0	0	III	3b	92.94	41.82	1	1	1	1	Wetness			3b
			34	60	hZCL	10YR 3/3	10YR 5/8	5	common	fine					1	0	0	0												
			60	80	P	10YR 2/1									1	0	0	0												
			80	120	mSL	10YR 7/1	10YR 5/8, 10YR 5/1	50	very many	fine					1	0	0	0												
940	SE796119	1.828	0	27	mZCL	10YR4/4							very calcareous	level	0				I	1	-115.12	-108.76	4	1	1	1	Droughtiness			4
			27	35	mZCL	10YR4/4							very calcareous																	
			35	85	SCL	10YR4/6	7.5YR6/6	1					very calcareous																	
			85	100	P	10YR2.5/1							non-calcareous																	
			100	120	mSL	10YR7/1							non-calcareous																	
941	SE797119	1.737	0	29	mCL	10YR4/3							very calcareous	level	0				I	1	-115.10	-108.73	4	1	1	1	Droughtiness			4
			26	85	hCL	10YR5/4	7.5YR6/1, 7.5YR6/6	5					very calcareous																	
			85	98	mSL	10YR6/2	7.5YR6/1, 7.5YR6/6	25					very calcareous																	
			98	120	mSL	10YR5/6	7.5YR6/1, 5YR6/6	20					very calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
942	SE798119	1.301	0	34	C	10YR 4/2					Yes	55	non-calcareous	level	1	0	0	0	II	3a	35.93	22.48	1	1	1	1	Wetness			3a
			34	55	PL	10YR 2/1									1	0	0	0												
			55	65	LmS	7.5YR 4/4	10YR 5/8	1	few						1	0	0	0												
			65	80	LmS	5YR 4/3									1	0	0	0												
			80	120	mS	10YR 6/2	10YR 5/8	5	common						1	0	0	0												
943	SE809118	1.085	0	36	mZCL	10YR 3/3					Yes	60	very calcareous	level	1	0	0	0	II	2	38.93	17.98	1	1	1	1	Wetness			2
			36	41	hZCL	10YR 4/3									1	0	0	0												
			41	45	PL	10YR 2/2									1	0	0	0												
			45	60	LfS	10YR2/2									1	0	0	0												
			60	80	fS	10YR 5/6	10YR 5/8	30	very many						1	0	0	0												
			80	120	mS	10YR 5/6	10YR 5/8	35	very many						1	0	0	0												
944	SE808118	1.089	0	40	hZCL	10YR 3/3					Yes	50	very calcareous	level	1	0	0	0	II	2	78.32	29.14	1	1	1	1	Wetness			2
			40	50	hZCL	10YR 2/1									1	0	0	0												
			50	65	fSL	10YR 6/2	10YR 5/8	20	common						1	0	0	0												
			65	120	LfS	10YR 6/3	10YR 5/8	20	common						1	0	0	0												
945	SE807118	1.231	0	45	hCL	10YR 3/3					Yes	52	non-calcareous	level	1	0	0	0	II	3a	14.36	0.92	2	1	1	1	Wetness			3a
			45	52	fSL	10YR 3/1									1	0	0	0												
			52	120	mS	10YR 6/3	Mn	5	common						1	0	0	0												
946	SE806118	1.643	0	35	fSL	10YR 3/3					Yes	35	very calcareous	level	1	0	0	0	III	3a	23.41	-13.38	3a	1	1	1	Wetness	Droughtiness		3a
			35	70	LmS	10YR 4/5	10YR 5/8	20	common						1	0	0	0												
			70	120	SCL	10YR 4/5	10YR 5/8	20	common						1	0	0	0												
947	SE805118	2.050	0	32	mZCL	10YR 3/2					Yes	55	very calcareous	level	1	0	0	0	II	2	32.96	22.42	1	1	1	1	Wetness			2
			32	50	mCL	10YR 4/4									1	0	0	0												
			50	55	P	10YR 2/1									1	0	0	0												
			55	65	LfS	10YR 2/1 to 10YR 5/2	10YR 5/8	5	common						1	0	0	0												
			65	120	mS	10YR 6/1	10YR 5/8	20	common						1	0	0	0												
948	SE804118	1.953	0	32	mZCL	10YR 3/2	Mn	5	common		Yes	30	non-calcareous	level	1	0	0	0	III	3a	34.51	14.46	1	1	1	1	Wetness			3a
			32	50	hZCL	10YR 3/3	10YR 6/6	20	common						1	0	0	0												
			50	71	LmS	10YR 7/1									1	0	0	0												
			71	82	hZCL	10YR 3/2									1	0	0	0												
			82	120	mS	10YR 6/3									1	0	0	0												
949	SE803119	1.943	0	32	mZCL	10YR 3/2					Yes	32	non-calcareous	level	1	0	0	0	III	3a	56.29	24.43	1	1	1	1	Wetness			3a
			32	38	hZCL	10YR 4/4	10YR 5/8, 10YR 5/1	20	common	fine					1	0	0	0												
			38	48	P	10YR 2/1									1	0	0	0												
			48	120	LmS	10YR 7/1	10YR 5/8	20	common	medium					1	0	0	0												
950	SE802119	1.924	0	34	mZCL	10YR 3/2					Yes	45	non-calcareous	level	1	0	0	0	II	2	43.31	29.76	1	1	1	1	Wetness			2
			34	45	hZCL	10YR 3/2 & 5/4									1	0	0	0												
			45	55	hZCL	10YR 5/4	10YR 5/8, Mn	20	common	medium					1	0	0	0												
			55	65	SC	10YR 7/3									1	0	0	0												
			65	78	C	10YR 4/2	10YR 5/8, Mn	50	very many	medium					1	0	0	0												
			78	120	mS	10YR 7/3									1	0	0	0												
951	SE801119	1.562	0	37	ZC	10YR 3/2					Yes	42	non-calcareous	level	1	0	0	0	III	3b	1.96	-12.10	3a	1	1	1	Wetness			3b
			37	42	PL	10YR 4/2									1	0	0	0												
			42	120	mS	10YR 5/6	10YR 5/8	20	common						1	0	0	0												
952	SE800119	1.353	0	32	hZCL	10YR 3/3					Yes	32	non-calcareous	level	1	0	0	0	III	3b	9.78	-4.42	2	1	1	1	Wetness			3b
			32	49	mSL	10YR 4/2	10YR 5/8, 10YR 5/1	20	common	fine					1	0	0	0												
			49	120	mS	10YR 7/1	10YR 5/8, 10YR 5/1	30	many	medium					1	0	0	0												
953	SE799119	1.338	0	32	hCL	10YR 4/2					Yes	32	non-calcareous	level	1	0	0	0	III	3b	35.96	21.03	1	1	1	1	Wetness			3b
			32	43	C	10YR 5/4	10YR 5/8	50	very many						1	0	0	0												
			43	55	P	10YR 2/1									1	0	0	0												
			55	120	C	10YR 6/1	10YR 5/8	50	very many						1	0	0	0												
954	SE793120	2.297	0	40	hZCL	10YR 4/2					Yes	40	non-calcareous	level	1	0	0	0	III	3b	55.62	26.65	1	1	1	1	Wetness			3b
			40	60	mZCL	10YR 5/2	10YR 5/8, 10YR 5/1, Mn	20	common	fine					1	0	0	0												
			60	72	PL	10YR 2/1									1	0	0	0												
			72	120	SCL	10YR6/2									1	0	0	0												
955	SE792120	2.182	0	40	mZCL	10YR 4/2					Yes	40	non-calcareous	level	1	0	0	0	III	3a	44.07	10.72	1	1	1	1	Wetness			3a
			40	120	SCL	10YR 5/2	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
956	SE791120	1.397	0	38	mCL	10YR 3/2					Yes	38	non-calcareous	level	1	0	0	0	III	3a	22.92	12.30	2	1	1	1	Wetness			3a
			38	70	mSL	10YR 3/1	10YR 5/8	1	few	fine					1	0	0	0												
			70	120	mS	10YR 6/4	10YR 5/8, 10YR 5/1	50	very many	coarse					1	0	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
957	SE790120	1.924	0	39	hCL	10YR 3/2					Yes	39	non-calcareous	level	1	0	0	0	III	3b	42.83	12.41	1	1	1	1	Wetness			3b
			39	70	mSL	10YR 5/4	10YR 5/1, 10YR 6/6	20	common	fine					1	0	0	0												
			70	120	LmS	10YR6/4	10YR 5/8, 10YR 5/1	5	common	very fine					1	0	0	0												
958	SE789120	2.294	0	32	SCL	10YR 4/2					No		non-calcareous	level	1	0	0	0	I	1	34.41	1.00	2	1	1	1	Droughtiness			2
			32	50	SCL	10YR 3/3, 10YR 7/1									1	0	0	0												
			50	120	SCL	10YR 6/4									1	0	0	0												
959	SE788120	4.595	0	45	LmS	10YR 4/3					Yes	45	non-calcareous	level	1	0	0	0	II	1	-16.74	-31.26	3b	1	2	1	Droughtiness			3b
			45	50	LmS	10YR 5/1	10YR 5/8	20	common						1	0	0	0												
			50	120	mS	10YR 5/6									1	0	0	0												
960	SE787120	5.657	0	28	mSL	mixed 10YR 3/3 & 4/6					Yes	28	non-calcareous	level	1	0	0	0	III	2	8.77	-7.71	2	1	1	1	Wetness	Droughtiness		2
			28	120	C	10YR 3/2	10YR 5/8, Mn	30	many						1	0	0	0												
961	SE786120	6.056																												Non-agricultural
962	SE790120	2.114																												Not surveyed
963	SE791120	1.371																												Not surveyed
964	SE792119	2.427	0	34	mCL	10YR 4/2					Yes	34	non-calcareous	level	1	0	0	0	III	3a	48.60	14.72	1	1	1	1	Wetness			3a
			34	46	PL	10YR 2/1	Mn	1	few						1	0	0	0												
			46	52	mS	10YR 5/4	10YR 5/1	50	very many	coarse					1	0	0	0												
			52	120	SCL	10YR 6/2									1	0	0	0												
965	SE793119	2.455	0	35	mZCL	10YR 3/2					Yes	35	very calcareous	level	1	0	0	0	III	2	66.09	41.23	1	1	1	1	Wetness			2
			35	55	ZL	10YR 5/4	10YR 5/8	5	common						1	0	0	0												
			55	65	P	10YR 2/1									1	0	0	0												
			65	120	LmS	10YR 5/1	10YR 5/8	20	common						1	0	0	0												
966	SE794119	1.908	0	34	mCL	10YR 4/2					Yes	34	very calcareous	level	1	0	0	0	III	2	54.48	30.80	1	1	1	1	Wetness			2
			34	56	hCL	10YR 4/4	10YR 5/8	50	very many						1	0	0	0												
			56	63	C	10YR 4/4	10YR 5/8	50	very many						1	0	0	0												
			63	70	PL	10YR 2/1									1	0	0	0												
			70	120	LmS	10YR 7/3	10YR 5/8	50	very many						1	0	0	0												
967	SE795119	1.264	0	32	hZCL	10YR 3/2					Yes	32	non-calcareous	level	1	0	0	0	III	3b	80.47	30.35	1	1	1	1	Wetness			3b
			32	80	mZCL	10YR 5/4	10YR 5/8	20	common						1	0	0	0												
			80	90	hZCL	10YR 5/4									1	0	0	0												
			90	120	fSL	10YR 5/3									1	0	0	0												
968	SE796119	1.571	0	27	mZCL	10YR4/4							very calcareous	level	0				I	1	-115.16	-108.81	4	1	1	1	Droughtiness			4
			27	35	mZCL	10YR4/4							very calcareous																	
			35	85	SCL	10YR4/6	7.5YR6/6	1					very calcareous																	
			85	100	P	10YR2.5/1							non-calcareous																	
			100	120	mSL	10YR7/1							non-calcareous																	
969	SE778121	2.611																												Not surveyed
970	SE779121	2.243																												Not surveyed
971	SE780121	2.408																												Not surveyed
972	SE781120	2.803	0	29	LmS	10YR2/1					Yes	29	non-calcareous	level	0				III	2	9.84	-23.14	3a	1	2	1	Droughtiness			3a
			29	43	LmS	10YR7/4	7.5YR6/1, 5YR6/6	20					non-calcareous																	
			43	120	LmS	10YR7/2	7.5YR6/1, 5YR6/6	20					non-calcareous																	
973	SE782120	3.070																												Not surveyed
974	SE783120	3.156																												Not surveyed
975	SE784120	5.378	0	40	LmS	10YR 3/1					No		non-calcareous	level	1	0	0	0	I	1	-2.57	-36.96	3b	1	2	1	Droughtiness			3b
			40	95	mS	7.5YR 5/4									1	0	0	0												
			95	120	mSZL	10YR 5/6									1	0	0	0												
976	SE785120	5.570	0	39	LmS	10YR 2/2					No		non-calcareous	level	1	0	0	0	I	1	-22.86	-37.42	3b	1	2	1	Droughtiness			3b
			39	120	mS	7.5YR 5/4									1	0	0	0												
977	SE798118	1.151	0	40	C	10YR 3/3					Yes	40	non-calcareous	level	1	0	0	0	III	3b	82.60	27.10	1	1	1	1	Wetness			3b
			40	55	C	10YR 5/4	10YR 5/8	50	very many						1	0	0	0												
			55	80	P	10YR 2/1	Mn	20	common						1	0	0	0												
			80	120	mSL	10YR 6/1									1	0	0	0												
978	SE799119	1.692	0	36	hZCL	10YR 3/3					Yes	36	non-calcareous	level	1	0	0	0	III	3b	91.35	23.67	1	1	1	1	Wetness			3b
			36	52	hCL	10YR 4/3	10YR 5/8, Mn	50	very many						1	0	0	0												
			52	120	fSL	10YR 6/2	10YR 5/8, 10YR 5/1, Mn	50	very many						1	0	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
979	SE800119	1.551	0	33	SCL	10YR 6/1	10YR 5/8	5	common	medium	Yes	30	non-calcareous	level	1	0	0	0	III	3a	-12.37	-26.56	3a	1	1	1	Wetness	Droughtiness		3a
			33	50	mS	7.5YR 5/8	Mn	20	common	medium					1	0	0	0												
			50	70	mS	10YR 3/1									1	0	0	0												
			70	120	mS	10YR 5/3	10YR 5/8	20	common	coarse					1	0	0	0												
980	SE801119	1.517	0	35	ZC	10YR 3/2					Yes	40	non-calcareous	level	1	0	0	0	III	3b	16.81	0.76	2	1	1	1	Wetness			3b
			35	40	PL	10YR 2/1									1	0	0	0												
			40	80	LmS	10YR 3/1	10YR 5/8	20	common	fine					1	0	0	0												
			80	120	mS	10YR 4/3	10YR 5/8	20	common	coarse					1	0	0	0												
981	SE802119	1.820	0	24	mZCL	10YR 3/2	10YR 5/8, Mn	1	few	fine	Yes	30	non-calcareous	level	1	0	0	0	III	3a	46.96	37.36	1	1	1	1	Wetness			3a
			24	30	P	10YR 2/1									1	0	0	0												
			30	65	fSL	10YR 3/1									1	0	0	0												
			65	120	mS	10YR 4/3	10YR 5/8	30	many	fine					1	0	0	0												
982	SE803119	1.934	0	38	mZCL	10YR 3/2					Yes	38	non-calcareous	level	1	0	0	0	III	3a	69.66	46.71	1	1	1	1	Wetness			3a
			38	48	mZCL	10YR 4/4	Mn	1	few	medium					1	0	0	0												
			48	65	P	10YR 2/1									1	0	0	0												
			65	120	LmS	10YR 6/2	10YR 5/8	20	common	fine					1	0	0	0												
C1	TA039353	12.288																												Not surveyed
C2	TA040353	11.820																												Not surveyed
C3	TA040352	11.153																												Not surveyed
C4	SE925289	8.358	0	28	mSL	10YR 3/2					Yes	80	slightly calcareous	gently sloping	1	0	0	1	I	1	27.95	3.13	2	1	1	1	Droughtiness			2
			28	75	mSL	10YR 4/2									2	2	0	2												
			75	80	Chalk	10YR 8/2									50	50	0	10												
			80	100	SCL	10YR 4/2	10YR 5/8	20	common						5	5	0	1												
			100	120	C	10YR 6/1	10YR 6/6, 10YR 5/1	50	very many						2	2	0	1												
C5	SE926289	10.003	0	28	LmS	10YR 2/1	10YR 5/8, Mn	5	common		Yes	10	non-calcareous	level	1	0	0	0	IV	3a	-26.41	-39.73	3b	1	2	1	Droughtiness			3b
			28	120	mS	10YR 5/2									1	0	0	0												
C6	SE927289	13.177	0	22	mSL	10YR 3/2					Yes	60	non-calcareous	gently sloping	1	0	0	0	II	1	26.02	4.00	2	1	1	1	Droughtiness			2
			22	60	mSL	10YR 5/6									1	0	0	0												
			60	80	mSL	10YR 5/6	10YR 5/8	5	common						1	0	0	0												
			80	120	SCL	10YR 5/4	10YR 5/8	5	common						35	35	0	0												
C7	SE925288	6.614	0	27	LmS	10YR 4/2					Yes	27	non-calcareous	level	1	0	0	0	IV	3a	-18.56	-32.07	3b	1	2	1	Droughtiness			3b
			27	45	LmS	10YR 6/6	10YR 5/8, 10YR 5/1, Mn	5	common						1	0	0	0												
			45	120	mS	10YR 6/4									1	0	0	0												
C8	SE926288	7.658	0	29	LmS	10YR 3/2					Yes	29	non-calcareous	level	1	0	0	0	IV	3a	8.51	-19.31	3a	1	2	1	Wetness	Droughtiness		3a
			29	75	LmS	10YR 6/4	10YR 5/8	1	few						1	0	0	0												
			75	120	LmS	10YR 6/4	10YR 5/8, Mn	5	common						10	10	0	0												
C9	SE851272	2.881																												Not surveyed
C10	SE852272	2.864																												Not surveyed
C11	SE826224	1.632	0	37	mCL	10YR 4/2					Yes	55	non-calcareous	level					II	2	19.32	1.96	2	1	1	1	Wetness	Droughtiness		2
			37	55	hCL	10YR 4/3	7.5YR5/6;7.5YR5/1	10	common	medium			non-calcareous																	
			55	78	C	10YR5/2	7.5YR5/6;7.5YR5/1	50	very many	medium			non-calcareous																	
			78	120	C	10YR5/2	7.5YR4/4;7.5YR7/6;GLEY1S/N	50	very many	medium			non-calcareous																	
C12	SE795121	1.319	0	29	ZC	7.5YR4/2					Yes	78	very calcareous	level	0				I	2	65.46	12.31	1	1	1	1	Wetness			2
			29	59	ZC	7.5YR4/4	7.5YR5/6;7.5YR5/1	5					very calcareous																	
			59	78	P	7.5YR2.5/1	5YR5/2	2					non-calcareous																	
			78	100	mSL	7.5YR6/1							non-calcareous																	
			100	120	mSL	7.5YR6/6	7.5YR6/1	30					non-calcareous																	
C13	SE794121	1.428	0	28	hZCL	7.5YR4/3					Yes	68	very calcareous	level	0				II	2	83.04	40.87	1	1	1	1	Wetness			2
			28	44	hZCL	7.5YR4/4							very calcareous																	
			44	52	hZCL	7.5YR5/4							very calcareous																	
			52	68	P	7.5YR2.5/1							non-calcareous																	
			68	85	mSL	7.5YR6/1	Mn, 5YR6/6	20					very slightly calcareous																	
			85	120	mSL	7.5YR8/3	5YR6/6	20					non-calcareous																	
C14	SK773974	2.442	0	31	hZCL	10YR 3/3					Yes	31	non-calcareous	level	1	0	0	0	III	3b	64.05	28.79	1	1	1	1	Wetness			3b
			31	57	hZCL	10YR 4/6	10YR 5/8	5	common						1	0	0	0												
			57	89	SCL	10YR 6/4	10YR 5/8, 10YR 6/6	20	common						1	0	0	0												
			89	120	LmS	10YR 5/4	10YR 5/8, 10YR 5/1, 10YR 6/6	20	common						1	0	0	0												
C15	SK757905	39.784																												Not surveyed
C16	SK756905	40.288																												Not surveyed
C17	SK756904	42.263																												Not surveyed
C18	SK757904	41.459																												Not surveyed
C19	SK756903	43.840																												Not surveyed
C20	SK757903	43.135																												Not surveyed
C21	SK771816	37.819																												Not surveyed
C22	SK771815	38.730	0	27	SCL	10YR4/3							non-calcareous	level	3	1			I	1	40.27	-3.71	2	1	1	1	Droughtiness			2
			27	36	hCL	10YR4/3							non-calcareous																	
			36	57	C	7.57R4/6	5YR4/4	5	common	fine			non-calcareous																	

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			57	64	C	5YG2/5							non-calcareous																	
			64	85	C	5YR4/4							non-calcareous																	
			85	100	cSL	5YR4/6	2.5Y7/6	10	common	medium			non-calcareous																	
			100	120	IMP																									
C22	SK771815	38.730	0	27	mCL	7.5YR4/3							non-calcareous	level	3	2	1		I	1	17.59	1.61	2	1	1	1	Droughtiness			2
			27	45	hCL	7.5YR4/4							non-calcareous																	
			45	70	C	2.5YR4/6							non-calcareous																	
			70	120	IMP																									
C23	SK795715	20.656	0	35	SCL	7.5YR4/3							non-calcareous	level	3	2	1		I	1	8.35	-7.88	2	1	1	1	Droughtiness			2
			35	60	C	2.5YR4/6	7.5YR7/1	3	common				non-calcareous		1															
			60	120	C	2.5YR4/6	7.5YR7/1	3	common				non-calcareous		5															
P1	SE975318	105.482																												Not surveyed
P2	SE975317	104.352																												Not surveyed
P3	SE976316	102.685																												Not surveyed
P4	SE976315	100.885																												Not surveyed
P5	SE975314	97.412																												Not surveyed
P6	SE933303	41.534																												Not surveyed
P7	SE932302	33.207	0	35	mCL	10YR3/2					Yes	35	slightly calcareous	level	2	0	0	2	IV	3b	39.97	8.46	2	1	1	1	Wetness			3b
			35	75	SCL	10YR6/6									5	5	5	5												
			75	120	IMP																									
P8	SE933302	35.899	0	30	SCL	10YR4/2	Mn	20	common		Yes	25	very calcareous	level	2	2	0	2	IV	3b	12.78	-3.53	2	1	1	1	Wetness			3b
			30	52	LmS	10YR5/6									5	5	0	5												
			52	61	C	10YR5/2									2	2	0	2												
			61	81	SCL	10YR6/3	10YR 5/8, 10YR 5/1	30	many						2	2	0	2												
			81	120	C	10YR6/2	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
P9	SE936301	39.406	0	30	SCL	10YR3/3					Yes	30	slightly calcareous	level	2	2	0	0	IV	3b	36.22	8.83	2	1	1	1	Wetness			3b
			30	70	SCL	5YR4/4	10YR 5/8, Mn	20	common						2	2	0	2												
			70	80	SCL	10YR6/3									35	35	0	2												
			80	120	IMP																									
P10	SE933301	32.806	0	24	SCL	10YR4/2					Yes	24	slightly calcareous	level	2	2	0	0	IV	3b	36.60	6.04	2	1	1	1	Wetness			3b
			24	89	SCL	10YR5/4	10YR 5/8, 10YR 6/6	20	common						5	5	0	0												
			89	120	IMP																									
P11	SE934301	34.199	0	29	SCL	10YR3/3					Yes	30	slightly calcareous	gently sloping	2	2	0	2	IV	3b	9.76	-3.93	2	1	1	1	Wetness			3b
			29	45	LmS	2.5Y7/4									1	0	0	2												
			45	75	mZCL	10YR5/2									5	5	0	2												
			75	120	C	10YR4/1	10YR 5/8, 10YR 6/6	50	very many						1	0	0	2												
P12	SE935300	33.549	0	26	SCL	10YR4/2					Yes	26	very calcareous	level	2	2	0	2	IV	3b	36.18	6.82	2	1	1	1	Wetness			3b
			26	55	mCL	10YR7/2	Mn	1	few						10	15	0	2												
			55	120	IMP																									
P13	SE929289	21.811																												Not surveyed
P14	SE829251	1.862																												Not surveyed
P15	SE800075	5.443	0	36	C	10YR3/2	10YR 6/6	1	few		Yes	36	non-calcareous	gently sloping	1	0	0	0	III	3b	14.76	-1.00	2	1	1	1	Wetness			3b
			36	120	C	10YR 5/4 & 5YR 5/4	10YR 5/1	20	common						1	0	0	0												
P16	SE797014	9.673	0	28	hCL	10YR4/2	10YR 5/8, Mn	20	common		Yes	24	non-calcareous	level	1	0	0	0	III	3b	39.38	9.88	2	1	1	1	Wetness			3b
			28	120	hCL	5YR4/3	10YR 5/8, 10YR 5/1, Mn, 10YR 6/6	50	very many						2	2	0	2												
P17	SE798014	8.205	0	36	hCL	10YR3/3					Yes	36	non-calcareous	level	2	0	0	0	III	3b	43.22	12.54	1	1	1	1	Wetness			3b
			36	120	hCL	2.5YR4/4	10YR 5/1, Mn	20	common						1	0	0	0												
P18	SK783977	2.779																												Not surveyed
P19	SK784977	2.949																												Not surveyed
P20	SK785977	1.827																												Not surveyed
P21	SK783976	1.550																												Not surveyed
P22	SK770971	2.546	0	32	mCL	10YR3/3					Yes	32	non-calcareous	level	1	0	0	0	III	3a	27.42	-6.18	2	1	1	1	Wetness			3a
			32	48	hCL	10YR5/2	10YR 5/8, 10YR 5/1	20	common						1	0	0	0												
			48	80	LmS	10YR5/6									1	0	0	0												
			80	120	SCL	10YR5/4	10YR 5/8	20	common						1	0	0	0												
P23	SK762894	26.395																												Not surveyed
P24	SK763894	26.719	0	33	C	2.5YR4/4					Yes	33	non-calcareous	level	1	0	0	0	III	3b	11.96	-3.70	2	1	1	1	Wetness			3b
			33	120	C	2.5YR5/3	10YR 5/8, 10YR 6/6	50	very many						1	0	0	0												

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
P25	SK763893	24.359	0	28	C	10YR 3/2					Yes	28	non-calcareous	level	1	0	0	0	III	3b	9.74	-6.00	2	1	1	1	Wetness			3b
			28	120	C	2.5YR 4/4 -> 5GY 6/2	10YR 5/1	20	common						1	0	0	0												
P26	SK764892	22.277																												Not surveyed
P27	SK764850	14.785																												Not surveyed
P28	SK770828	23.538	0	34	C	7.5YR4/3					Yes	75	non-calcareous	level	2	1			I	3a	21.11	-4.90	2	1	1	1	Wetness			3a
			34	75	C	7.5YR4/4	7.5YR4/6 ;7.5YR6/1	15	common				non-calcareous																	
			75	88	C	GLEY16/10GY	10YR5/6	15	common				very slightly calcareous																	
			88	120	SC	GLEY16/5GY	10YR6/6	20	common				very slightly calcareous																	
P29	SK762820	44.954	0	28	hCL	7.5YR4/4							non-calcareous	gently sloping	2				I	2	21.92	6.15	2	1	1	1	Wetness	Droughtiness		2
			28	55	hCL	7.5YR5/4							non-calcareous																	
			55	120	C	2.5YR4/6	7.5YR7/1	5	common				non-calcareous																	
P30	SK763820	41.185	0	28	hCL	7.5YR4/3					Yes	75	non-calcareous	level					I	2	14.39	-1.51	2	1	1	1	Wetness	Droughtiness		2
			28	75	C	5Y4/6							non-calcareous																	
			75	90	C	GLEY1 7/5GY							non-calcareous																	
			90	120	IMP																									
P31	SK762819	46.863	0	27	hCL	7.5YR4/3							non-calcareous	gently sloping	1	1			I	2	19.07	3.35	2	1	1	1	Wetness	Droughtiness		2
			27	44	hCL	7.5YR4/4							non-calcareous																	
			44	75	C	5YR4/6	5YR6/6	5	common				non-calcareous																	
			75	120	C	2.5Y4/6	5YR8/5	10	common																					
N1	TA022352	38.160																												Not surveyed
N2	SE975320	103.896																												Not surveyed
N3	SE932303	36.941																												Not surveyed
N4	SE928289	16.843	0	20	LmS	10YR 3/4					Yes	60	non-calcareous	moderately sloping	1	0	0	0	II	1	19.20	-33.36	3b	1	2	1	Droughtiness			3b
			20	60	mS	10YR 4/6									1	0	0	0												
			60	100	mSL	10YR 6/2	10YR 5/8	20	common						1	0	0	0												
			100	120	hCL	10YR 6/2	10YR 5/8	20	common						1	0	0	0												
N5	SE810118	1.230																												Not surveyed
N6	SE811118	6.310																												Not surveyed
N7	SE812118	6.210																												Not surveyed
N8	SE813118	4.170																												Not surveyed
N9	SE814118	6.560																												Not surveyed
N10	SE815118	6.800																												Not surveyed
N11	SE816118	6.140																												Not surveyed
N12	SE806067	6.720																												Not surveyed
N13	SE796008	33.680	0	39	hCL	10YR 4/2					Yes	39	non-calcareous	moderately sloping	2	2	0	0	III	3b	22.09	6.42	2	1	1	1	Wetness			3b
			39	64	hCL	2.5YR 6/1	10YR 5/8, Mn	20	common						2	2	0	0												
			64	120	C	2.5YR 6/1	10YR 5/8, 10YR 5/1, Mn	30	many						2	2	0	0												
N14	SE796007	36.450	0	28	hCL	10YR 3/3					Yes	28	non-calcareous	level	1	1	0	0	III	3b	19.42	5.06	2	1	1	1	Wetness			3b
			28	120	C	5YR 5/3	10YR 5/8 10YR 5/1	30	many						1	1	0	0												
N15	SE796007	30.880	0	30	C	10YR 3/3					Yes	30	non-calcareous	gently sloping	2	2	0	0	III	3b	15.50	0.82	2	1	1	1	Wetness			3b
			30	100	C	5YR 5/3	10YR 5/8 10YR 5/1	30	many						2	2	0	0												
			100	120	IMP																									
N16	SE795006	20.870	0	30	hCL	7.5YR 3/3					Yes	30	non-calcareous	moderately sloping	2	2	0	0	III	3b	17.44	2.31	2	1	1	1	Wetness			3b
			30	120	C	5YR 4/4	10YR 5/1, Mn	50	very many						1	1	0	0												
N17	SE795005	12.500	0	34	mCL	10YR 4/2	10YR 5/8, Mn	20	common		Yes	29	non-calcareous	gently sloping	2	2	0	0	III	3a	42.68	12.64	1	1	1	1	Wetness			3a
			34	120	hCL	2.5YR 4/4	Mn	50	very many						2	2	0	0												
N18	SE794004	9.660	0	29	hCL	5YR 3/2					Yes	29	non-calcareous	level	2	2	0	0	III	3b	14.06	-1.85	2	1	1	1	Wetness			3b
			29	45	hCL	5YR 4/3	10YR 5/1, Mn	5	common						1	1	0	0												
			45	120	C	7.5YR 5/1	10YR 5/8	50	very many																						
N19	SE794003	7.450	0	30	hCL	5YR 3/2					Yes	30	non-calcareous	gently sloping	1	1	0	0	III	3b	15.84	0.04	2	1	1	1	Wetness			3b
			30	120	C	5YR 4/4	10YR 5/1, Mn	20	common						1	1	0	0												
N20	SE793002	5.450	0	29	hCL	5YR 3/2					Yes	29	non-calcareous	level	1	1	0	0	III	3b	42.05	11.30	1	1	1	1	Wetness			3b

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			29	120	hCL	5YR 4/4	10YR 5/1, Mn	20	common						1	1	0	0												
N21	SE793001	4.077	0	32	C	10YR 3/2					Yes	32	non-calcareous	level	1	1	0	0	III	3b	13.13	-2.85	2	1	1	1	Wetness			3b
			32	120	C	5YR 4/4	Mn	5	common						1	1	0	0												
N22	SE793000	4.060	0	30	C	7.5YR 3/3					Yes	30	non-calcareous	level	1	1	0	0	III	3b	11.70	-3.74	2	1	1	1	Wetness			3b
			30	65	C	5YR 4/4	10YR 6/6, Mn	20	common						1	1	0	0												
			65	120	C	5YR 5/4									2	5	0	1												
N23	SK794999	4.020	0	28	C	10YR 3/2					Yes	28	non-calcareous	level	1	1	0	0	III	3b	11.49	-4.49	2	1	1	1	Wetness			3b
			28	120	C	10YR 4/1-> 5/1	10YR 5/1, Mn	5	common						1	1	0	0												
N24	SK794998	4.320	0	27	hCL	10YR 3/3					Yes	24	non-calcareous	level	1	1	0	0	III	3b	13.81	-2.16	2	1	1	1	Wetness			3b
			27	120	C	5YR 4/4	Mn	20	common						1	1	0	0												
N25	SK794997	5.730	0	30	mCL	10YR 3/3					Yes	45	non-calcareous	gently sloping	2	2	0	0	II	2	15.98	-0.91	2	1	1	1	Wetness	Droughtiness		2
			30	60	SCL	10YR 6/4	10YR 5/8	20	common						1	1	0	0												
			60	120	C	5YR 4/4	10YR 5/1, Mn	50	very many						1	1	0	0												
N26	SK794996	8.250																												Non-agricultural
N27	SK793995	7.730	0	25	mSL	10YR 2/2					No		non-calcareous	level	1	1	0	0	I	1	61.79	21.70	1	1	1	1	None			1
			25	95	SCL	10YR 4/2									1	1	0	0												
			95	120	LmS	10YR 6/2									1	1	0	0												
N28	SK789987	2.320																												Not surveyed
N29	SK763967	1.980																												Not surveyed
N30	SK764967	1.990																												Not surveyed
N31	SK744925	7.050	0	24	C	10YR 5/2					Yes	24	non-calcareous	level	1	0	0	0	III	3b	7.68	-8.88	2	1	1	1	Wetness			3b
			24	60	C	10YR 6/3	10YR 5/8, Mn	20	common						1	0	0	0												
			60	120	IMP																									
N32	SK762894	25.280	0	27	C	2.5YR 5/4					Yes	27	non-calcareous	level	1	0	0	0	III	3b	9.39	-6.31	2	1	1	1	Wetness			3b
			27	120	C	5YR 3/4	10YR 5/1	1	few						1	0	0	0												
N33	SK764893	21.590	0	28	hCL	10YR 4/2					Yes	28	non-calcareous	level	1	0	0	0	III	3b	12.27	-3.88	2	1	1	1	Wetness			3b
			28	67	C	10YR 4/4	10YR 5/8, 10YR 5/1	50	very many						1	0	0	0												
			67	120	ZC	5GY 6/2									1	0	0	0												
N34	SK766891	19.890	0	28	C	10YR 3/2					Yes	28	non-calcareous	level	2	2	0	0	III	3b	2.52	-11.49	3a	1	1	1	Wetness			3b
			28	120	C	2.5YR 4/4 -> 5GY 6/2									10	10	0	0												
N35	SK784851	13.713																												Not surveyed
N36	SK784850	14.359																												Not surveyed
N37	SK763820	41.140																												Not surveyed
N38	SK764819	36.910	0	34	hCL	10YR4/4							non-calcareous	gently sloping	1				I	2	16.32	0.26	2	1	1	1	Wetness	Droughtiness		2
			34	42	C	7.5YR4/4							non-calcareous																	
			42	55	C	GLEY16/10Y							moderately calcareous																	
			55	65	C	5YR4/6							moderately calcareous																	
			65	85	C	GLEY16/10Y							moderately calcareous																	
			85	120	C	5YR4/6							moderately calcareous																	
N39	SK765819	34.430	0	35	mCL	10YR4/3							non-calcareous	level	1				I	1	31.52	10.88	1	1	1	1	None			1
			35	85	hCL	7.5YR4/4							non-calcareous																	
			85	120	C	7.5YR5/4	7.5YR5/8	2	medium				non-calcareous																	
N40	SK774810	32.220	0	33	mCL	10YR3/3					Yes	100	non-calcareous						I	1	31.16	6.95	2	1	1	1	Droughtiness			2
			33	90	SCL	7.5YR5/4	Mn																								
			90	100	C	5YR4/6	GLEY16/10Y	5	medium																						
			100	120	C	GLEY16/10Y																									
N41	SK774809	33.750	0	31	hCL	10YR3/3							non-calcareous	level	1	1			I	2	11.91	-3.82	2	1	1	1	Wetness	Droughtiness		2
			31	38	C	GLEY16/10Y							non-calcareous		15															

Annex A Auger Bore Location and ALC Grade

Auger Bore No	BNG	ALT	Horizon Top (cm)	Horizon Bottom (cm)	Texture	Matrix Colour	Mottle Colour	Mottle %	Mottle Range	Mottle Size	Gley	Depth to Gley	CaCo3 %	Slope	Hard Stone Content % >2mm	Hard Stone Content %>2cm	Hard Stone content %>6cm	Soft Stone Content % >2mm	Wetness Class	Wetness Grade	Droughti-ness - MB Wheat	Droughti-ness - MB Potato	Droughti-ness Grade	Grade by Depth	Grade by Topsoil Texture	Grade by Topsoil Stoniness	Limiting Factor 1	Limiting Factor 2	Limiting Factor 3	Final ALC Grade
			38	120	C	5YR4/6	Mn						slightly calcareous		2															
N42	SK796711	19.260	0	37	mCL	10YR2/2					Yes	59	non-calcareous	level	1	1			I	1	32.98	4.85	2	1	1	1	Droughtiness			2
			37	59	hCL	2.5Y5/2							non-calcareous																	
			59	72	C	5YR4/4	10YR6/1	30		medium			non-calcareous																	
			72	85	C	5YR5/3	5YR6/1	25		medium			non-calcareous																	
			85	120	SCL	5YR5/3							non-calcareous																	
N43	SK795715	20.860																												Not surveyed

Annex B
Soil Pit Profile Descriptions

nationalgrid

Annex B
Soil Pit Profile Descriptions

B.1 Soil Pit 03



- Moderately stoney brown clay loam topsoil over reddish brown heavy clay subsoil.
- Very firm medium subangular blocky structure observed in the subsoil horizon.
- Moderately developed with few fine roots and 0.5-1.0% pores.
- Mottling observed from 29cm.

B.2 Soil Pit 04



- Shallow calcareous brown heavy silty clay loam over very stoney hard chalk and flint.
- Very firm fine subangular blocky structure observed in the subsoil horizon.
- Weakly developed with few fine roots and 5% pores.

B.3 Soil Pit 07



- Deep stoneless slightly calcareous clay.
- Moderately firm coarse angular blocky upper subsoil. Moderately developed structure with few very fine roots and 0.1-0.5% pores.
- Very firm very coarse angular blocky lower subsoil. Moderately developed with no observable rooting and <0.1% pores.
- Gleying observed from 89cm

B.4 Soil Pit 08



- Deep very calcareous loam soil.
- Moderately firm coarse subangular upper subsoil horizons with few fine roots and 2-5% pores.
- Moderately firm coarse platy lower subsoil with very few fine roots and <0.5% pores.

B.5 Soil Pit 09



- Stoneless acidic medium clay loam over calcareous silty clay loam with peaty soils observed at depth.
- Moderately firm fine subangular blocky structure recorded within the upper subsoil (35-58 cm).
- Moderately developed upper subsoil with few fine roots and 2% fine pores.
- Moderately firm coarse platy structure recorded within the lower subsoil horizon (58-88 cm).
- Moderately developed lower subsoil horizon with few fine roots and 5% fine pores.
- Gleying present from 58 cm.

B.6 Soil Pit 10



- Deep stoneless acid loamy medium sand.
- Friable fine to medium granular structure recorded in the upper subsoil (29-43 cm)
- Weakly developed upper subsoil with few fine roots and 2% pores.
- Moderately firm medium to coarse subangular blocky lower subsoil (43-90 cm).
- Weakly developed lower subsoil with few very fine to fine roots with 0.5% pores.

B.7 Soil Pit 11



- Acidic heavy clay loam over stoney clay.
- Weakly firm fine subangular blocky upper subsoil structure (27-37 cm).
- Weakly developed upper subsoil with fine few roots and 2% pores.
- Weakly firm fine subangular blocky lower subsoil structure (37-80 cm).
- Weakly developed lower subsoil with very few fine roots and 2% pores.

B.8 Soil Pit 13



- Deep weakly developed reddish acidic clay.
- Very strong coarse angular blocky upper subsoil with few very fine roots and 0.5% pores (26-56 cm).
- Slowly permeable layer and gleying identified from 35 cm.
- Very strong very coarse angular blocky lower subsoil with few very fine roots and 0.1-0.5% pores.

B.9 Soil Pit 14



- Very calcareous organic loamy topsoil over heavy loam subsoils underlain by deep sandy subsoil.
- Very weak medium subangular upper subsoil (33-49 cm). Weakly developed with few fine roots and 1% pores.
- Very firm massive lower subsoil (49-78 cm). Moderately developed with few fine roots and <0.5% pores.
- Underlain by loose single grain sandy loam.
- Gleying observed at 49 cm.

B.10 Soil Pit 15



- Acidic brown heavy clay loam over acidic red and grey banded clay subsoil.
- Moderately firm upper subsoil with fine subangular blocky structure. Moderately developed with few fine roots and <0.1% pores.
- Very weak lower subsoil with fine subangular blocky structure. Weakly developed with no observable roots or identified pores.
- Impenetrable rock layer identified at 65 cm.

B.11 Soil Pit 16



- Deep acidic heavy clay and clay loam over sandy subsoil, with stone content increasing with depth.
- Moderately firm coarse angular blocky upper clay subsoil (22-45 cm) over moderately firm medium subangular clay (45-65 cm).
- Both clay subsoils are identified as being moderately developed with few fine roots and <1.0% pores.
- Sand and stone content increase with depth and the lower subsoils are described as moderately weak medium subangular (65-80 cm) and very weak medium granular (80-90 cm).
- Both these lower subsoils have few fine roots and <0.5% pores.
- This is then underlain by a fine granular coarse sandy loam.
- Gleying was identified at 80 cm.

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