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ADUR DISTRICT LOCAL PLAN

AGRICULTURAL LAND CLASSIFICATION
ALC MAP & REPORT

APRIL 1993

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ADUR DISTRICT LOCAL PLAN AGRICULTURAL LAND CLASSIFICATION

In December 1992 detailed Agricultural Land Classification (ALC) surveys were conducted at Lancing and Sompting in West Sussex ADAS was commissioned by MAFF s Land Use Planning Unit to provide information on the quality of agricultural land affected by proposals for development in the Adur District Local Plan

A total of 332 hectares was surveyed using MAFF s revised guidelines and criteria for classifying the quality of agricultural land. These guidelines allow land to be graded according to the extent to which its physical or chemical characteristics impose long term limitations on its use for agriculture.

The details of the findings are given in the attached appendices—and the distribution of the grades and sub-grades is shown on the attached ALC maps—These have been drawn at a scale of 1 10 000 and are accurate at this level but any enlargement may be misleading. The fieldwork was conducted at a detailed level—with approximately one soil observation per hectare—a combination of auger boring and soil pit descriptions

The detailed measurements of each grade are presented in the tables below and the following report describes the Lancing and Sompting areas separately

TABLE 1 Lancing, Distribution of Grades and Sub-grades

| <u>Grade</u> | Area (ha) | <pre>% of Agricultural Area</pre> |
|--------------|-----------|-----------------------------------|
| 2 | 22 3 | 16 8 |
| 3A | 15 3 | 11 5 |
| 3B | 95 1 | <u>71 7</u> |
| Non Agric | 5 5 | 100% (132 7 ha) |
| Urban | 0 3 | |
| TOTAL | 138 5 ha | |

TABLE 2 Sompting, Distribution of Grades and Sub-grades

| <u>Grade</u> | Area (ha) | % of Agricultural Area |
|--------------|-----------|------------------------|
| 2 | 101 5 | 67 5 |
| 3A | 16 3 | 10 8 |
| 3B | 32 1 | 21 4 |
| 4 | 0 5 | <u>0 4</u> |
| Non Agric | 32 7 | |
| Urban | 10 4 | 100% (150 4 ha) |
| TOTAL | 193 5 ha | |

2 Land at Lancing

2 1 Three distinct blocks of agricultural land were surveyed on the eastern edge of Lancing totalling 138 5 hectares an area north of the A27 (T) developed on higher slopes overlying Chalk and Quaternary

Head deposits, a central area of low lying land bounded by the A27 (T) and the coastal railway with soils developed over Alluvium deposits in the east and Quaternary Head and Raised Beach Deposits in the west—a flat—low lying area to the south between the railway and the coast with soils largely developed over Alluvium deposits

- 2 2 Land to the north of the A27 (T) is a mixture of Sub-grades 3A and Pits numbers 2 3 and 4 were located in this area and illustrate the range of soils that occur in this section Soil droughtiness is the single most limiting factor on these soils that have developed over Chalk The northern fringe of Sub-grade 3B identifies shallow soils which rest on Chalk from within 30 cm depth Even with roots penetrating 45 cm into the Chalk the low amount of available water for plants restricts these profiles to no better than Sub-grade 3B The deeper Sub-grade 3A soils exhibit Heavy Clay Loam topsoil textures overlying Clay subsoils with Chalk occasionally present from 65 cm depth or with subsoils with high chalk stone percentages Roots again penetrate the Chalk layers but there is a significant limitation on the degree of available water
- 2 3 Land between the A27 (T) and the railway falls into two distinct ALC grades

To the east of Marsh Barn Lane the alluvial soils are classified as Sub-Grade 3B To the west of the Lane the soils are classified as Grade 2

Pit 1 is typical of the Sub-grade 3B soils. Soil wetness is the important limiting factor. Clay topsoils overlie clay subsoils which exhibit clear evidence of shallow gleying caused by waterlogging related to slowly permeable structures in the upper subsoil. These soils are therefore placed in Wetness Class IV (i.e. the profile is wet within 70 cm depth for more than 180 days but not wet within 40 cm depth for more than 210 days in most years) and suffer from a significant restriction on the number of days when the soil is in a suitable condition for cultivation trafficking by machinery or grazing by livestock.

The Grade 2 soils in the western end are typically Medium Clay Loam topsoils overlying Heavy Clay Loam upper subsoils and Clay lower subsoils. The profiles are stone free show no evidence of significant wetness and the subsoils exhibit moderate structural conditions. Soil droughtiness is the most significant physical limitation with the profiles having insufficient available water to qualify for a higher grade.

The southern block of land is mostly Sub-grade 3B with a limited area of Sub-grade 3A on the north-eastern fringe. The soils are similar to the poor alluvial soils described by Pit 1 north of the railway with a significant soil wetness limitation.

A limited area of better quality Sub-grade 3A land defines variable profiles with lighter textures better structures and a less significant wetness limitation These profiles experience a soil droughtiness limitation

Table 3 Climatic Interpolations, Lancing

| Grid Reference | TQ 190060 | TQ 193043 |
|----------------------------------|-----------|-----------|
| Altitude | 35 | 4 |
| Accumulated Temperature (° days) | 1502 | 1537 |
| Average Annual Rainfall (mm) | 793 | 758 |
| Field Capacity (days) | 166 | 161 |
| Moisture deficit Wheat (mm) | 115 | 121 |
| Moisture deficit Potatoes (mm) | 111 | 119 |
| Climatic Grade | 1 | 1 |

3 <u>Land at Sompting</u>

3 1 The ALC survey at Sompting covers 193 5 hectares and includes the lower lying flat land in the Sompting gap between the urban areas of Sompting and Worthing and includes a significant block of land north of the A27 (T) around Sompting Abbotts

The majority of the soils are developed over Head Deposits with a band of Chalk along the higher ground on the northern fringe and with a band of Raised Beach deposits and Alluvium along the southern fringe

3 2 Land in the extreme north of the site is classified as Sub-grade 3B with gradients locally in the range 7-11° On the southern slopes adjacent to this area of Sub-grade 3B there is a fringe of Sub-grade 3A soils where soil droughtiness becomes the most limiting factor Chalk is encountered at depths below approximately 60 cm but the stony nature of the subsoil combines to significantly restrict the amount of available water for plants Pit 1 is typical of these soils

Soils with stony subsoils also occur in the south-western edge of the northern block. These soils though of heavier textures again experience a significant droughtiness limitation which restricts them to Sub-grade 3A (see Pit 2)

3 3 The remainder of the northern block and the bulk of the southern section form a large map unit of Grade 2 land Pits 3 and 5 are typical of the variation that exists in this map unit Soil droughtiness is generally the key limitation for soils that have Medium Clay Loam topsoils overlying stone-free and freely draining Heavy Clay Loam upper and lower subsoils. These profiles fail to have enough available water in the profile for shallower rooting crops such as potatoes.

In the western edge of this map unit soil wetness becomes the most limiting factor. Soils here are generally heavier with a sequence of Medium Clay Loam. Heavy Clay Loam, and Clay in the profile, the clay occurring from approximately 50 cm depth. There is clear evidence of gleying within the top 40 cm and, when augering the subsoils appear slowly permeable. The soil pit (Pit 5) however reveals that the subsoils are not poor in structure, allowing these profiles to be placed in Wetness Class II (i.e. the soils is wet within 70 cm for more than 90 days, but not wet within 40 cm for more than 30 days in most years) and Grade 2. The soil pit is actually

classified as Sub-grade 3A due to a droughtiness limitation related to slightly stony lower subsoils. In general, the subsoils are not as stony and qualify for Grade 2 even on droughtiness.

- A limited area of Sub-grade 3A occurs over Beach Deposits which have given rise to soils with very stony subsoils (35-45% stone content) which experience a significant restriction on the amount of water available in the profile and hence a droughtiness limitation
- 3 5 The southern fringe is classified as Sub-grade 3B This lower lying area has a significant wetness limitation. The soils are developed over Alluvium are typically Heavy Clay Loam topsoils with Clay subsoils which are slowly permeable. This area is placed in Wetness Class IV (i.e. the soil profile is wet within 70 cm depth for more than 180 days but not wet within 40 cm depth for more than 210 days in most years) and this degree of wetness severely restricts the number of days when the soil is in a suitable condition for cultivation trafficking by machinery or grazing by livestock
- 3 6 The non-agricultural areas outlined on the map include farm tracks areas overgrown by bramble and scrub allotment gardens school playing fields reed beds and sizeable field ditches

Table 4 Climatic Interpolations, Sompting

| Grid Reference | TQ165 040 | TQ160 055 | TQ160 054 | TQ157 059 |
|---------------------------------|-----------|-----------|-----------|-----------|
| Altitude (m) | ~ 5 | 30 | 20 | 70 |
| Accumulated Temperature (° days |) 1537 | 1508 | 1520 | 1463 |
| Average Annual Rainfall (mm) | 773 | 805 | 801 | 824 |
| Field Capacity (days) | 164 | 169 | 168 | 171 |
| Moisture Deficit Wheat (mm) | 120 | 115 | 117 | 110 |
| Moisture Deficit Potatoes (mm) | 113 | 111 | 113 | 104 |
| Overall Climatic Grade | 1 | 1 | 1 | 1 |

APPENDIX I

DESCRIPTION OF THE GRADES AND SUB-GRADES

Grade 1 Excellent Quality Agricultural Land

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

Grade 2 Very Good Quality Agricultural Land

Land with minor limitations which affect crop yield cultivations or harvesting. A wide range of agricultural or horticultural crops can usually be grown but on some land on 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. When more demanding crops are grown yields are generally lower or more variable than on land in grades 1 and 2

Sub grade 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

Sub grade 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 the level of yields. It is mainly suited to grass with occasional arable crops (eg 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

Urban

Built-up or hard uses with relatively little potential for a return to agriculture housing industry commerce education transport religious buildings cemeteries. Also hard surfaced sports facilities permanent caravan sites and vacant land all types of derelict land including mineral workings which are only likely to be reclaimed using derelict land grants.

Non agricultural

Soft uses where most of the land could be returned relatively easily to agriculture, including private parkland public open spaces sports fields allotments and soft surfaced areas on airports/airfields. Also active mineral workings and refuse tips where restoration conditions to soft after uses may apply

Woodland

Includes commercial and non-commercial woodland

Agricultural Buildings

Includes the normal range of agricultural buildings as well as other relatively permanent structures such as glasshouses Temporary structures (eg. polythene tunnels erected for lambing) may be ignored

Open Water

Includes lakes ponds and rivers as map sclae permits

Land Not Surveyed

Agricultural land which has not been surveyed

Where the land use includes more than one of the above eg buildings in large grounds and where map scale permits the cover types may be shown separately Otherwise the most extensive cover type will be shown

APPENDIX II

REFERENCES

- * MAFF (1988) Agricultural Land Classification of England And Wales revised guidelines and criteria for grading the quality of agricultural land
- * Meteorological Office (1989) Climatological Data for Agricultural Land Classification

APPENDIX III

DEFINITION OF SOIL WETNESS CLASSES

Wetness Class I

The soil profile is not wet within 70cm depth for more than 30 days in most years

Wetness Class II

The soil profile is wet within 70cm depth for 31 90 days in most years or if there is no slowly permeable layer within 80cm depth it is wet within 70cm for more than 90 days but not wet within 40cm depth for more than 30 days in most years

Wetness Class III

The soil profile is wet within 70cm depth for 91 180 days in most years or if there is no slowly permeable layer within 80cm depth it is wet within 70cm for more than 180 days but only wet within 40cm depth for 31 90 days in most years

Wetness Class IV

The soil profile is wet within 70cm depth for more than 180 days but not wet within 40cm depth for more than 210 days in most years or if there is no slowly permeable layer within 80cm depth, it is wet within 40cm depth for 91-210 days in most years

Wetness Class V

The soil profile is wet within 40cm depth for 211 335 days in most years

Wetness Class VI

The soil profile is wet within 40cm depth for more than 335 days in most years

(The number of days is not necessarily a continuous period In most years is defined as more than 10 out of 20 years)

APPENDIX IV

SOIL PIT AND SOIL BORING DESCRIPTIONS

Contents * Soil Abbreviations Explanatory Note

* Soil Pit Descriptions

* Database Printout Boring Level Information

* Database Printout Horizon Level Information

SOIL PROFILE DESCRIPTIONS EXPLANATORY NOTE

Soil profile and pit information obtained during ALC surveys is held on a database. This has commonly used notations and abbreviations as set out below

BORING HEADERS

- 1 GRID REF National grid square followed by 8 figure grid reference
- 2 USE Land-use at the time of survey The following abbreviations are used

```
ARA - arable
                                 PAS/PGR - permanent pasture
   WHT - wheat
                                 RGR - rough grazing
                                 LEY - ley grassland
   BAR - barley
   CER - cereals
                                 CFW - coniferous woodland
   OAT - Oats
                                 DCW - deciduous woodland
   MZE - maize
                                 SCR - scrub
   OSR - Oilseed rape
                                 HTH - heathland
   BEN - field beans
                                 BOG - bog or marsh
   BRA - brassicae
                                 FLW - fallow
   POT - polatoes
                                 PLO - ploughed
   SBT - sugarbeet
                                 SAS - set-aside
    FCD - fodder crops
                                 OTH - other
    FRT - soft and top fruit
                                 LIN - linseed
HOR/HRT - horticultural crops
```

- 3 GRDNT Gradient as measured by optical reading clinometer
- 4 GLEY/SPL Depth in centimetres (cm) to gleyed and/or slowly permeable horizons
- 5 AP (WHEAT/POTS) Crop-adjusted available water capicity The amount of soil water (in millimetres) held in the soil profile that is available to a growing crop (wheat and potatoes are used as reference crops)
- 6 MB (WHEAT/POTS) The moisture balance for wheat and potatoes obtained by subtracting the soil moisture deficit from the crop-adjusted available water capacity
- 7 DRT Grade according to soil droughtiness assessed against soil moisture balances

| 8 | N REL FLOOD EROSN EXP FROST DIST CHEM | Micro-relief Flood risk Soil erosion Exposure Frost prone Disturbed land Chemical limitation | If any of these factors are considered significant in terms of the assessment of agricultural land quality a y will be entered in the relevant column |
|---|---------------------------------------|--|---|
|---|---------------------------------------|--|---|

Principal limitation to agricultural land quality The following abbreviations are used

> OC - overall climate CH - chemical limitations ΛE - aspect WE - wetness FX - exposure WK - workability FR - frost DR - drought GR - gradient ER - erosion MR - micro-relief WD - combined soil wetness/soil FL - flooding droughtiness

TX - soil texture ST - topsoil stoniness DP - soil depth

PROFILES & PITS

TEXTURE Soil texture classes are denoted by the following abbreviations

> S - sand LS - loamy sand - sandy loam SZL - sandy silt loam

ZL - silt _oam

MZCL - medium silty clay loam

MCL - medium clay loam SCL - sandy clay loam

HZCL - heavy silty clay loam

- sandy clay ZC - silty clay С - clay

For the sand loamy sand sandy loam and sandy silt loam classes predominant size of sand fraction may be indicated by the use of prefixes

F - fine (more than $\frac{2}{3}$ of the sand less than 0 2 mm) C - coarse (more than $\frac{1}{2}$ of sand greater than 0 6 mm)

M - medium (less than $\frac{2}{3}$ fine sand and less than $\frac{1}{3}$ coarse sand)

The sub-divisions of clay loam and silty clay loam classes according to clay content are indicated as follows

M - medium (less than 27- clay) H - heavy (27-35° clay)

Other possible texture classes include

OL - organic loam

P - peat SP - sandy peat

LP - loamy peat

PL - peaty loam

PS - peaty sand

MZ marine light silts

- 2 MOTTLE COL Mottle colour
- 3 MOTTLE ABUN Mottle abundance
 - F few less than 2 of matrix or surface described
 - C common 2-2- of the matrix
 - M many 20-40- of the matrix
 - VM very many 40- + of the matrix
- 4 MOTTLE CONT Mottle continuity
 - F faint indistinct mottles evident only on close examination
 - D distinct mottles are readily seen
 - P prominent mottling is conspicuous and one of the outstanding features of the horizon
- 5 PED COL Ped face colour
- 6 STONE LITH Stone lithology One of the following is used
 - HR all hard rocks or stones
 - MSST soft medium or coarse grained sandstone
 - SI soft weathered igneous or metamorphic
 - SLST soft politic or dolomitic limestone
 - FSST soft fine grained sandstone
 - ZR soft argillaceous or silty rocks
 - CH chalk
 - GH gravel with non-porous (hard) stones
 - GS gravel with porous (soft) stones

Stone contents (>2cm >6cm and total) are given in percentages (by volume)

- 7 STRUCT the degree of development size and shape of coil peds are described using the following notation
 - degree of development WK weakly developed
 - MD moderately developed
 - ST strongly well developed
 - <u>ped size</u> F fine
 - M medium
 - C coarse
 - VC very coarse
 - <u>ped_shape</u> S single grain
 - M massive
 - GR granular
 - SB/SAB sub-angular blocky
 - AB angular blocky
 - PR prismatic
 - PL platy

- 8 CONSIST Soil consistence is decribed using the following notation
 - L loose
 - VF very friable
 - FR friable
 - FM firm
 - VM very firm
 - EM extremely firm
 - EH extremely hard
- 9 SUBS STR Subsoil structural condition recorded for the purpose of calculating profile droughtiness
 - G good
 - M moderate
 - P poor
- 10 POR Soil porosity If a soil horizon has less than 0 5° biopores >0 5 mm a y will appear in this column
- 11 IMP If the profile is impenetrable a y will appear in this column at the appropriate horizon
- 12 SPL Slowly permeable layer If the soil horizon is slowly permeable a y will appear in this column
- 13 CALC If the soil horizon is calcareous a y will appear in this column
- 14 Other Notations
 - APW available water capacity (in mm) adjusted for wheat
 - APP available water capacity (in mm) adjusted tor potatoes
 - MBW moisture balance wheat
 - MBP moisture balance potatoes

Site Name : ADUR LP - SOMPTING

Pit Number: 1P

Grid Reference: TQ16050580 Average Annual Rainfall: 801 mm

Accumulated Temperature: 1520 degree days

Field Capacity Level : 168 days

Land Use

Slope and Aspect : 05 degrees S

| HORIZON | TEXTURE | COLOUR | STONES >2 | TOT.STONE | MOTTLES | STRUCTURE |
|---------|---------|-----------|-----------|-----------|---------|-----------|
| 0- 25 | MCL | 10YR43 00 | 8 | 8 | | |
| 25- 40 | MCL | 10YR54 00 | 0 | 10 | | |
| 40- 60 | MCL | 00ZZ00 00 | 0 | 50 | | |
| 60- 85 | CH | 00ZZ00 00 | 0 | 0 | | |

Wetness Grade : 1

Wetness Class : I

Gleying

: cm

SPL

: No SPL

Drought Grade: 3A

APW: 102mm MBW: -8 mm

APP: 099mm MBP: -5 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION: Droughtiness

| Site Name | ADUR LE | P - SOMPTI | NG | Pit N | · 2P | | | |
|------------------------------------|---------------------------------|--|----------------------------------|--|-----------------------|-----------|-----------|--|
| Grid Refe | rence TQʻ | 15680534 | Accumula Field Ca Land Use | Annual Rai ted Temper pacity Lev d Aspect | 1520 degree days | | | |
| HORIZON 0- 30 30- 42 42- 65 65-120 | TEXTURE HCL HCL C C | COLOUR 10YR42 0 10YR42 0 10YR54 0 10YR64 0 | 00 4 00 0 00 0 | 2 | TONE 6 23 23 | MOTTLES | STRUCTURE | |
| Wetness G | irade 2 | | Wetness Gleying SPL | Class | I No | cm SPL | | |

APW 103mm MBW -13 mm APP 101mm MBP

11 mm

FINAL ALC GRADE 3A

Drought Grade 3A

MAIN LIMITATION Droughtiness

Site Name ADUR LP - SOMPTING Pit Number 3P

Grid Reference TQ16590467 Average Annual Rainfall 801 mm

Accumulated Temperature 1520 degree days

Field Capacity Level 168 days
Land Use Bare Soil
Slope and Aspect degrees

STONES >2 TOT STONE MOTTLES STRUCTURE HORIZON TEXTURE COLOUR 0 25 MCL 10YR42 00 0 1 25 68 75YR54 00 0 MCSAB HCL 0 68 120 10YR54 00 0 HCL 0

Wetness Grade 1 Wetness Class I Gleying 000 cm

SPL No SPL

Drought Grade 2 APW 155mm MBW 35 mm APP 117mm MBP 3 mm

FINAL ALC GRADE 2

MAIN LIMITATION Droughtiness

Site Name : ADUR LP - SOMPTING

Pit Number: 4P

Grid Reference: TQ16550415 Average Annual Rainfall: 801 mm

Accumulated Temperature: 1520 degree days

Field Capacity Level : 168 days

Land Use

: Arable

Slope and Aspect

: degrees

| HORIZON | TEXTURE | COLOUR | STONES >2 | TOT.STONE | MOTTLES | STRUCTURE |
|---------|---------|-----------|-----------|-----------|---------|-----------|
| 0- 25 | MCL | 10YR42 00 | 0 | 1 | | |
| 25- 70 | HCL | 10YR43 00 | 0 | 35 | | |
| 70-120 | С | 10YR54 00 | 0 | 45 | | |

Wetness Grade : 1

Wetness Class

: I

Gleying SPL

:000 cm : No SPL

Drought Grade : 3A

APW: 108mm MBW: -12 mm

APP: 093mm MBP: -21 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION: Droughtiness

Site Name ADUR LP - SOMPTING Pit Number 5P

Grid Reference TQ16080467 Average Annual Rainfall 801 mm

Accumulated Temperature 1520 degree days Field Capacity Level 168 days

Field Capacity Level 168 days
Land Use Cereals

Slope and Aspect degrees

| HORI | ZON | TEXTURE | COLOUR | STONES | 2 | TOT STONE | MOTTLES | STRUCTURE |
|------|-----|---------|-----------|--------|---|-----------|---------|-----------|
| 0 | 24 | MCL | 10YR42 0D | 0 | | 0 | | |
| 24 | 50 | HCL | 10YR53 00 | 0 | | 0 | С | MDCSAB |
| 50 | 80 | С | 10YR63 00 | 0 | | 8 | М | MDCSAB |
| 80- | 90 | С | 10YR63 73 | 0 | | 15 | М | |

Wetness Grade 2 Wetness Class II

Gleying 024 cm SPL No SPL

Orought Grade 3A APW 114mm MBW -6 mm

APP 114mm MBP 0 mm

FINAL ALC GRADE 2

MAIN LIMITATION Wetness

| | | | | | MOTTLES | | PED | | | -S | TONES- | | STRUCT | / : | SUBS | s | | | |
|----------|----------------|---------|------------|--------|---------|----|-------|---|---|----|--------|----|----------|-----|------|---|-----|-----|------|
| SAMPLE | DEPTH | TEXTURE | COLOUR | | ABUN | | | | | | | | CONSIS | | | | IMP | SPL | CALC |
| 1 | 0~32 | mcl | 10YR42 00 | | | | | | ٥ | ٥ | HR | 5 | | | | | | | v |
| • | 32-75 | hc1 | 10YR54 00 | | | | | | 0 | | HR | 3 | | | М | | | | Y |
| | 75-80 | C | 75YR56 00 | | | | | | 0 | | HR | 5 | | | M | | | | Y |
| | 75-00 | Č | 7511150 00 | | | | | | ٠ | ٠ | TIK | • | | | М | | | | r |
| 1P | 0-25 | mc1 | 10YR43 00 | | | | | | 8 | 0 | HR | 8 | | | | | | | Υ |
| | 25-40 | mcl | 10YR54 00 | | | | | | 0 | 0 | HR | 10 | | | M | | | | Υ |
| | 40-60 | mc1 | 00ZZ00 00 | | | | | | 0 | 0 | CH | 50 | | | М | | | | Υ |
| | 60-85 | ch | 00ZZ00 00 | | | | | | 0 | 0 | | 0 | | | M | | | | Y |
| 2 | 0-30 | me1 | 10YR33 00 | | | | | | 5 | a | HR | 6 | | | | | | | γ |
| _ | 30-50 | hc1 | 10YR44 00 | | | | | | 0 | | HR | 5 | | | М | | | | Ÿ |
| | 50-85 | c | 10YR44 00 | | | | | | 0 | | HR | 8 | | | M | | | | Ϋ́ |
| | | _ | | | | | | | • | | | _ | | | •• | | | | • |
| 2P | 0-30 | hc1 | 10YR42 00 | | | | | | 4 | 0 | HR | 6 | | | | | | | |
| | 30-42 | hc1 | 10YR42 00 | | | | | | 0 | 0 | HR | 23 | | FR | М | | | | γ |
| | 42-65 | С | 10YR54 00 | | | | | | 0 | 0 | HR | 23 | | FR | М | | | | γ |
| | 65–120 | C | 10YR64 00 | | | | | | 0 | 0 | HR | 30 | | | М | | | | Y |
| 3P | 0-25 | mcl | 10YR42 00 | | | | | | 0 | 0 | HR | 1 | | | | | | | |
| | 25-68 | hc1 | 75YR54 00 | | | | | | 0 | 0 | | | MCSAB | FR | М | Υ | | | |
| | 68-120 | hc1 | 10YR54 00 | | | | | | 0 | 0 | | 0 | | | М | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 4P | 0-25 | mcl | 10YR42 00 | | | | | | 0 | 0 | HR | 1 | | | | | | | |
| | 25-70 | hc1 | 10YR43 00 | | | | | | 0 | 0 | HR | 35 | | | M | | | | |
| | 70-120 | С | 10YR54 00 | | | | | | 0 | 0 | HR | 45 | | | M | | | | |
| 5 | 0-28 | mzcl | 10YR53 00 | | | | | | 0 | 0 | HR | 2 | | | | | | | Υ |
| • | 28-45 | mzc1 | 10YR64 00 | | | | | | 0 | | HR | 2 | | | М | | | | Ÿ |
| | 45-75 | hzc1 | 10YR54 00 | | | | | | 0 | | HR | 2 | | | М | | | | Ý |
| | 75- 9 5 | С | 10YR54 56 | | | | | | 0 | 0 | HR | 5 | | | М | | | | Y |
| | 95-120 | hc1 | 10YR64 00 | | | | | | 0 | 0 | СН | 25 | | | M | | | | Υ |
| 5P | 0-24 | mc] | 10YR42 00 | | | | | | 0 | 0 | | 0 | | | | | | | |
| J | 24-50 | hc1 | 10YR53 00 | 75VR5/ | 5 00 C | | | γ | | | | | MDCSAB | FD | м | | | | |
| | 50-80 | c | 10YR63 00 | | | 16 | OYR61 | | 0 | | HR | | MDCSAB | | | | | | |
| | 80-90 | C | 10YR63 73 | | | ., | | Y | 0 | | | 15 | , ibooks | 1 1 | M | | | | Y |
| | | | | | | | | | | | | | | | | | | | |
| 6 | 0-30 | mzcl | 10YR53 00 | | | | | | 0 | | HR | 3 | | | | | | | Y |
| | 30-70 | hc1 | 10YR54 00 | | | | | | 0 | | HR | 3 | | | M | | | | Υ |
| | 70-95 | mcl | 10YR54 56 | | | | | | 0 | | HR | 3 | | | M | | | | Y |
| | 95–120 | hc1 | 10YR54 56 | | | | | | 0 | υ | HR | 5 | | | М | | | | Y |
| 10P | 0-25 | mcl | 10YR43 00 | | | | | | 8 | 0 | HR | 8 | | | | | | | Y |
| | 25-40 | mc] | 10YR54 00 | | | | | | 0 | 0 | | 10 | | | М | | | | Υ |
| | 40-60 | mcl | 00ZZ00 00 | | | | | | 0 | | CH | 50 | | | M | | | | Y |
| | 60-120 | ch | 00ZZ00 00 | | | | | | 0 | 0 | | 0 | | | М | | | | Υ |
| 11 | 0-28 | mzc1 | 10YR53 00 | | | | | | 0 | 0 | HR | 6 | | | | | | | Υ |
| | 28-45 | mzc1 | 10YR74 00 | | | | | | 0 | 0 | CH | 50 | | | М | | | | Y |
| | 45-85 | ch | 00CH00 00 | | | | | | 0 | 0 | | 2 | | | M | | | | Υ |
| | | | | | | | | | | | | | | | | | | | |

program ALC012 LIST OF BORINGS HEADERS 06/10/93 ADUR LP SOMPTING

| Sampi | | | SPECT | | | | | VESS | | | | | | REL | EROS | | ROST | CHEM | ALC | |
|-------|------------|-------|-------|-------|------|-----|-------|-------|-----|------------|-----|-----|------------|-------|------|-----|------|-------|-----|--------------|
| VO | GRID REF | USE | | GRONT | GLEY | SPL | CLASS | GRADE | AP | MB | AP | MB | DRT | FLOOD |) | EXP | DIST | LIMIT | | COMMENTS |
| 62 | TQ17100560 | CER | SE | 01 | 000 | | 1 | 1 | 000 | 0 | 000 | 0 | | | | | | DR | 3A | IMP35 |
| 63 | TQ17200560 | CER | SE | 02 | 000 | 000 | 1 | 2 | 080 | -36 | 080 | -32 | 3B | | | | | DR | 3B | IMP50-3A |
| 64 | TQ15700550 | CER | S | 03 | | | 1 | 2 | 000 | 0 | 000 | 0 | | | | | | DR | ЗА | |
| 65 | TQ15800550 | CER | S | 05 | | | 1 | 2 | 123 | 7 | 114 | 2 | 2 | | | | | DR | 2 | Grade 2 work |
| 67 | TQ16000550 | PGR | s | 05 | 000 | | 1 | 1 | 104 | -12 | 116 | 4 | 3A | | | | | DR | 2 | IMP Q |
| 69 | TQ16200550 | CER | s | 03 | | | 1 | ι | 098 | -18 | 109 | -3 | 3A | | | | | DR | 2 | |
| 70 | TQ16300550 | ARA | S | 02 | 000 | | 1 | 1 | 115 | -1 | 113 | 1 | 3 A | | | | | DR | 2 | IMP Q |
| 71 | TQ16400550 | ARA | S | 02 | 000 | | 1 | 1 | 151 | 35 | 114 | 2 | 2 | | | | | DR | 2 | |
| 72 | TQ15700540 | ARA | S | 05 | 000 | | 1 | 1 | 097 | -19 | 113 | 1 | 3A | | | | | DR | 3A | IMPX3 Q |
| 73 | TQ15800540 | CER | S | 02 | | | 1 | 1 | 121 | 5 | 113 | 1 | 2 | | | | | DR | 2 | |
| 75 | TQ16700550 | PGR | S | 02 | 000 | | 1 | 1 | 112 | -8 | 114 | -2 | 3A | | | | | DR | 2 | IMP |
| 76 | TQ16200540 | PGR | S | 02 | 000 | | 1 | 1 | 124 | 4 | 116 | 0 | 3A | | | | | DR | 2 | IMP |
| 77 | TQ16300540 | PAS | s | | | | 1 | 1 | 144 | 24 | 115 | -1 | 2 | | | | | DR | 2 | |
| 78 | TQ16400540 | PGR | S | 02 | 000 | | 1 | 1 | 113 | -7 | 115 | -1 | 3A | | | | | DR | 2 | IMP |
| 79 | TQ16500540 | PAS | S | | | | 1 | 1 | 082 | -38 | 082 | -34 | 38 | | | | | DR | 2 | |
| 80 | TQ 6600540 | PGR | s | 02 | 000 | | 1 | 1 | 117 | -3 | 114 | -2 | 3A | | | | | DR | 2 | IMP |
| 81 | TQ16700540 | PGR | S | | 000 | | 7 | 7 | 113 | -7 | 115 | -7 | 3A | | | | | DR | 2 | IMP |
| 86 | TQ16200530 | PGR | s | 02 | 000 | | 1 | 1 | 066 | -54 | 066 | 50 | 4 | | | | | DR | 3B | IMPX3 Q |
| 87 | TQ16300530 | PGR | S | 02 | 000 | | 1 | 1 | 112 | -8 | 114 | -2 | ЗА | | | | | DR | 2 | IMP Q |
| 88 | TQ16400530 | PGR | S | 02 | 000 | | 1 | 1 | 103 | -17 | 114 | -2 | ЗА | | | | | DR | 2 | IMP Q |
| 89 | TQ16600530 | PAS | | | | | 1 | 1 | 143 | 23 | 113 | -3 | 2 | | | | | DR | 2 | |
| 90 | TQ16700530 | PGR | S | | 000 | | 1 | 1 | 068 | -52 | 068 | 48 | 4 | | | | | DR | 38 | IMPX3 Q |
| 91 | TQ15700520 | ARA | S | 04 | 000 | | 1 | 1 | 153 | 37 | 116 | 4 | 2 | | | | | DR | 2 | |
| 96 | TQ16200520 | PGR | S | | 000 | | 1 | 1 | 116 | -4 | 116 | 0 | 3A | | | | | DR | 2 | IMP |
| 97 | TQ16300520 | PGR | S | | 000 | | 1 | 1 | 153 | 33 | 115 | -1 | 2 | | | | | DR | 2 | |
| 98 | TQ16400520 | PGR | s | | 000 | | 1 | 1 | 152 | 32 | 115 | -1 | 2 | | | | | DR | 2 | |
| 100 | TQ15900510 | PAS | | | 32 | | 2 | 2 | 115 | - 5 | 115 | -1 | 3A | | | | | MD | 2 | |
| 101 | TQ16000510 | PAS | | | 60 | | 1 | 1 | 000 | 0 | 000 | 0 | 2 | | | | | DR | 2 | |
| 103 | TQ16200510 | CER | | | | | 1 | 1 | 107 | -13 | 115 | -1 | 3A | | | | | DR | 2 | |
| 104 | TQ16300510 | CER | | | | | 2 | 2 | 000 | 0 | 000 | 0 | 2 | | | | | DR | 2 | |
| 105 | TQ16400510 | CER | | | | | 2 | 2 | 000 | 0 | 000 | 0 | 2 | | | | | DR | 2 | |
| 106 | TQ15800500 | PAS | | | | | 1 | 1 | 000 | 0 | 000 | 0 | | | | | Y | DR | 38 | Disturbed |
| 107 | TQ15900500 |) PAS | | | | | 1 | 1 | 000 | 0 | 000 | 0 | | | | | Υ | DR | 38 | Disturbed |
| 108 | TQ16000500 | OSR | | | 30 | 30 | 2 | 2 | 134 | 14 | 111 | -5 | 2 | | | | | WE | 2 | |
| 110 | TQ16200500 |) CER | | | | | 1 | 1 | 112 | -8 | 116 | 0 | ЗА | | | | | DR | 2 | |
| 112 | TQ16400500 |) CER | | | | | 1 | 1 | 098 | -22 | 113 | -3 | 3B | | | | | DR | 2 | |
| 112 | TQ16400500 | CER | | | | | 1 | 1 | 137 | 17 | 113 | -3 | 2 | | | | | DR | 2 | |
| 113 | TQ15800490 | PAS | | | | | 1 | 1 | 000 | 0 | 000 | 0 | | | | | Y | DR | 3B | Disturbed |
| 114 | TQ15900490 | | | | 35 | | 2 | 2 | 000 | 0 | 000 | 0 | | | | | | WE | 2 | |
| 115 | тQ16000490 | | | | | | 1 | 1 | 156 | 36 | 118 | 2 | 2 | | | | | DR | 2 | NO GLEY |
| 116 | TQ16100490 |) ARA | | | 000 | | 1 | 1 | 141 | 21 | 117 | 1 | 2 | | | | | DR | 2 | NO GLEY |
| | TQ16200490 | | | | 080 | | 1 | 1 | 126 | | 115 | | | | | | | DR | 2 | NO GLEY |
| | | | | | | | - | | | _ | | - | - | | | | | | - | |

| | | | | MOTTLES | : | PED | | | _87 | MES. | | STRUCT/ | SUBS | | | |
|--------|----------------|--------------|------------------------|-------------|------|--------|----|--------|-----|----------|----------|---------|-----------------|--------|--------------|----|
| SAMPLE | DEPTH | TEXTURE | COLOUR | ABUN | CONT | | | | | | | | STR POR IMP SPL | CALC | | |
| | DE | | 55250X | | •••• | | | - | | | | | | | | |
| 34 | 0-30 | mcl | 10YR53 00 | | | | | 0 | 0 | HR | 3 | | | Y | | |
| | 30-35 | mcl | 00ZZ00 00 | | | | | 0 | 0 | CH | 80 | | M | Y | | |
| | 35-85 | ch | 00ZZ00 00 | | | | | 0 | 0 | | 0 | | M | Y | Rooting to 8 | 35 |
| | | | | | | | | | | | | | | | | |
| 36 | 0-28 | mcl | 10YR32 00 | | | | | 0 | 0 | CH | 2 | | | Y | | |
| | 28-58 | mcl | 10YR53 00 | | | | | 0 | | CH | 5 | | М | Y | | |
| | 58-75 | mc1 | 10YR74 00 | | | | | 0 | | СН | 10 | | М | Y | | |
| | 75–120 | ch | 00ZZ00 00 | | | | | 0 | 0 | | 0 | | M | Y | | |
| 41 | 0.00 | 3 | 10/040 00 | | | | | | ^ | | • | | | v | | |
| 41 | 0-28 | mzcl | 10YR42 00 | | | | | | | HR HR | 3 | | м | Y Y | | |
| | 28-35 35-60 | hcl c | 10YR43 54 10YR54 56 | | | | | 0 | | HR | 5 5 | | M M | Ÿ | | |
| | 60-95 | mzcl | 10YR74 64 | | | | | 0 | | CH | 35 | | M | Ÿ | | |
| | 95-120 | mzcl | 10YR74 00 | | | | | 0 | | CH CH | 50 | | ,. М | Y | | |
| | 30 100 | пцот | 1011174 00 | | | | | | · | ٠ | - | | •• | • | | |
| 42 | 0-26 | hzcl | 10YR53 00 | | | | | 0 | 0 | HR | 5 | | | γ | | |
| | 26-120 | | 10YR56 00 | | C | OOMNOO | 00 | | | HR | 3 | | М | Υ | | |
| | | | | | | | | | | | | | | | | |
| 43 | 0-28 | mc1 | 10YR53 00 | | | | | 0 | 0 | HR | 3 | | | Υ | | |
| | 28-45 | hc1 | 10YR54 00 | | | | | 0 | 0 | HR | 2 | | M | Y | | |
| | 45-79 | С | 10YR44 54 | | | | | 0 | 0 | HR | 3 | | М | Y | | |
| | 79 90 | hzcl | 10YR54 00 | | | | | 0 | 0 | CH | 20 | | М | Y | | |
| | 90-120 | mzcl | 10YR64 74 | | | | | 0 | 0 | CH | 35 | | М | Y | | |
| | | _ | | | | | | _ | | | _ | | | | | |
| 44 | 0-28 | mzcl | 10YR42 43 | | | | | | | HR | 5 | | M | Y | | |
| | 28-48 | hc1 | 10YR54 00 | | | | | 0 | | HR | 8 | | M | Y Y | | |
| | 48-75 75-90 | hzcl hzcl | 10YR64 63 10YR74 00 | | | | | 0 | | CH CH | 35 40 | | M M | Y | | |
| | 75-30 | 11201 | 1011/4 00 | | | | | · | ۰ | ۵ı. | 70 | | •• | 1 | | |
| 45 | 0-28 | mzcl | 10YR42 00 | | | | | 0 | ٥ | HR | 6 | | | Υ | | |
| , • | 28-55 | hzcl | 10YR43 44 | | | | | 0 | | HR | 5 | | м | Υ | | |
| | 55-78 | С | 10YR44 00 | | | | | 0 | 0 | СН | 8 | | M | Υ | | |
| | 78-120 | hzc1 | 10YR64 74 | | | | | 0 | 0 | CH | 30 | | M | Υ | | |
| | | | | | | | | | | | | | | | | |
| 46 | 0-28 | hzc1 | 10YR42 00 | | | | | 8 | 0 | HR | 14 | | | Y | | |
| | 28-35 | hzcl | 10YR43 54 | | | | | 0 | | HR | 8 | | М | Y | | |
| | 35-45 | hzcl | 10YR74 64 | | | | | 0 | 0 | CH | 35 | | М | Y | | |
| | | | | | | | | | | | | | | | | |
| 47 | 0-26 | mzcl | 10YR42 00 | | | | | | | HR | 10 | | | Y | | |
| | 26 35 | С | 10YR44 00 | | | | | 0 | Ü | HR | 20 | | М | Υ | | |
| 40 | 0.05 | | 10/042 00 | | | | | - | ^ | un | - | | | | | |
| 48 | 0-25 25-50 | hcl | 10YR42 00 | | | | | 5 0 | | HR CH | 7 20 | | м | | | |
| | 25-50 50-70 | hcl hcl | 10YR54 00 10YR64 00 | | | | | | | ᅄ | 50 | | M M | | | |
| | 70-90 | ch | 00CH00 00 | | | | | 0 | 0 | G, | 0 | | M | | | |
| | 70-30 | C11 | 300100 00 | | | | | J | , | | J | | •• | | | |
| 49 | 0-30 | hc1 | 10YR42 00 | | | | | 2 | 0 | HR | 5 | | | | | |
| | 30-80 | hc1 | 10YR54 00 | | | | | 0 | | CH | 1 | | М | | | |
| | 80-85 | hc1 | 10YR64 00 | | | | | 0 | | СН | 20 | | М | | | |
| | | | | | | | | | | | | | | | | |

SAMPLE ASPECT --WETNESS-- -WHEAT- -POTS- M REL EROSN FROST CHEM ALC NO GRID REF USE GRONT GLEY SPL CLASS GRADE AP MB AP MB DRT FLOOD EXP DIST LIMIT COMMENTS 2 172 TQ16300420 PL0 060 1 1 149 29 117 1 2 DR NO SPL 000 1 1 120 0 117 1 3A DR 2 IMP 173 TQ16400420 PL0 137 17 114 000 1 1 -2 2 DR 2 NO GLEY 174 TQ16500420 ARA 000 1 1 020 2 2 104 -16 114 -2 3A OR 2 IMP Q 175 TQ16600420 ARA 112 -8 094 -22 3A 0R 3A WT 65CM 180 TQ16400410 CER 065 -55 065 -51 4 000 1 1 DR 3B IMP X 3 181 TQ16500410 ARA 025 2 2 088 -32 092 -24 38 DR 3A IMP Q 182 TQ16600410 ARA 000 020 4 3B 184 TO16300400 PGR 077 -43 080 -36 38 WE 3B SPL 000 010 4 3B 077 -43 083 -33 38 WE 3B SPL 185 T016400400 PGR 025 1 110 -10 112 -4 3A 3A WT 60CM 2 DR 186 TQ16500400 PGR 0 035 4 000 0 000 0 WE 187 TQ16600400 PAS 3B 38 189 T016300390 PGR 000 020 4 3B 079 -41 082 -34 3B WE 3B SPL 0 0 5 IGNORE 2504 TQ

| SAMP | LE | А | SPECT | | | WE | rness | –WH | IEAT- | -P0 | TS- | ı | M. REL | EROSN | FRO | OST | CHEM | ALC | |
|------|---------------|-----|---------|-------|---------|----|-------|-----|-------|-----|--------------|------------|--------|-------|-----|------|-------|-----------|----------------|
| NO. | GRID REF | USE | | GRDNT | GLEY SF | | | AP | MB | | МВ | DRT | FLOOD | E) | | DIST | LIMIT | | COMMENTS |
| | | | | | | | | | | | | | | | | | | | |
| 1 | TQ16800610 | CER | NE | 02 | 000 | 1 | 1 | 111 | -5 | 114 | 2 | ЗА | | | | | DR | ЗА | IMP80 |
| 1P | TQ16050580 | STU | S | 05 | | 1 | 1 | 102 | -8 | 099 | -5 | 3A | | | | | DR | 3A | Near boring 20 |
| 2 | TQ16900610 | CER | NE | 02 | 000 | 1 | 1 | 107 | -9 | 111 | -1 | ЗА | | | | | DR | 3A | IMP85-2 |
| 2P | TQ15680534 | CER | S | 04 | | 1 | 2 | 103 | -13 | 101 | -11 | 3A | | | | | DR | 3A | Near boring 64 |
| 3P | TQ16590467 | PL0 | | | 000 | 7 | 1 | 155 | 35 | 117 | 3 | 2 | | | | | DR | 2 | Near boring 20 |
| | | | | | | | | | | | | | | | | | | | |
| 4P | TQ16550415 | ARA | | | 000 | 1 | 1 | 108 | -12 | 093 | -21 | 3A | | | | | DR | 3A | |
| 5 | TQ16800600 | CER | NE | 03 | 000 | 1 | 1 | 152 | | 122 | 10 | 1 | | | | | DR | 1 | |
| | TQ16080467 | | | | 024 | 2 | 2 | 114 | | 114 | 0 | 3 A | | | | | WE | 2 | PROB 2DR |
| 6 | TQ16900600 | CER | NE | 06 | 000 | 1 | 1 | 154 | 38 | 118 | 6 | 2 | | | | | DR | 2 | NO CH |
| | · | | | | | | | | | | | | | | | | | | |
| | T04 5 T00 T00 | | _ | | | _ | _ | | | 000 | _ | | | | | | | | D007 07 |
| 11 | TQ16500590 | | | 03 | 000 | 1 | 1 | 102 | | 098 | -6 | 3A | | | | | DR | 3A | ROOT 85 |
| 12 | TQ16600590 | | | 03 | 000 | 1 | 1 | 095 | -15 | | -6 | 3A | | | | | DR | 3A | ROOT 75 |
| _ | TQ16600590 | | | 03 | 000 | 1 | 1 | 090 | | 096 | -8 | 38 | | | | | DR | 38 | ROOT 70 |
| 13 | TQ16700590 | | | 03 | 000 | 1 | 1 | 096 | -20 | | -14 | 38 | | | | | DR | 38 | ROOT 75 |
| 14 | TQ16800590 | CER | N | 04 | 000 | 1 | 1 | 124 | 8 | 113 | 1 | 2 | | | | | DR | 2 | ROOT 100 |
| 15 | TQ16900590 | CED | NE | 07 | 000 | 1 | 1 | 091 | _25 | 093 | -19 | 3B | | | | | DR | 3B | SLOPE |
| 20 | TQ16100580 | | | 06 | 000 | 1 | 1 | 086 | | 092 | -12 | 3A | | | | | DR | 3A | SLOPE |
| 25 | TQ16600580 | | | 04 | 000 | 1 | 1 | 106 | -10 | | -10 | 3A | | | | | DR | 3A | ROOT 85 |
| 26 | TQ16700580 | | | 04 | 000 | 1 | 1 | 089 | | 092 | -20 | 3B | | | | | DR | 3B | R00T75 |
| 27 | TQ16800580 | | | 03 | 000 | 1 | 1 | 107 | | 103 | - <u>2</u> 0 | 3A | | | | | DR | 3A | R00T 85 |
| 21 | 1010000000 | CLK | JL. | 03 | 000 | • | • | 10, | -3 | 103 | -3 | JA | | | | | DR | JA | K001 03 |
| 28 | TQ16900580 | CER | F | 03 | 000 | 1 | 1 | 089 | -27 | 095 | -17 | 3B | | | | | DR | 3B | ROOT 70 |
| 29 | TQ17000580 | | | 04 | 000 | 1 | 1 | 104 | -12 | | -9 | 3A | | | | | DR | 3A | ROOT 80 |
| 30 | TQ17100580 | | | 03 | 000 | 1 | 1 | 149 | | 116 | 4 | 2 | | | | | DR | 2 | 11007 00 |
| 33 | TQ15800570 | | | 05 | 000 | 1 | 1 | 144 | | 116 | 4 | 2 | | | | | DR | 2 | |
| 34 | TQ15900570 | | | 05 | | 1 | 1 | 087 | | 093 | -19 | | | | | | DR | 3A | |
| | | | _ | | | • | • | | | | | | | | | | •,- | | |
| 36 | TQ16100570 | PAS | S | 04 | | 1 | 1 | 140 | 24 | 116 | 4 | 2 | | | | | DR | 2 | |
| 41 | TQ16600570 | CER | S | 03 | 000 | 1 | 1 | 145 | 29 | 115 | 3 | 2 | | | | | DR | 2 | |
| 42 | TQ16700570 | CER | SE | 02 | 000 | 1 | 2 | 139 | 23 | 115 | 3 | 2 | | | | | DR | 2 | MN 65 |
| 43 | TQ16800570 | CER | SE | 02 | 000 | 1 | 1 | 143 | 27 | 115 | 3 | 2 | | | | | DR | 2 | |
| | TQ16900570 | | | 03 | 000 | 1 | 1 | 119 | 3 | 112 | 0 | ЗА | | | | | DR | ЗА | PROB 2DR |
| | | | | | | | | | | | | | | | | | | | |
| 45 | TQ17000570 | CER | SE | 02 | 000 | 1 | 1 | 147 | 31 | 117 | 5 | 2 | | | | | DR | 2 | |
| 46 | TQ17100570 | CER | Ε | 02 | 000 000 | 1 | 2 | 072 | -44 | 072 | -40 | 38 | | | | | DR | 4 | IMP45-3A |
| 47 | TQ17200570 | CER | Ε | 02 | 000 | 1 | 1 | 056 | -60 | 056 | -56 | 4 | | | | | DR | 4 | IMP35-3A |
| 48 | TQ15700560 | ARA | S | 05 | 000 | 1 | 2 | 110 | -6 | 105 | -7 | 3A | | | | | DR | ЗА | Q ROOTS |
| 49 | TQ15800560 | ARA | S | 05 | 000 | 1 | 2 | 118 | 2 | 115 | 3 | ЗА | | | | | WK | 2 | IMP Q |
| | | | | | | | | | | | | | | | | | | | |
| 50 | TQ15900560 | ARA | S | 05 | 000 | 1 | 1 | 101 | -15 | 112 | 0 | ЗА | | | | | DR | 2 | IMP Q |
| 51 | TQ16000560 | | | 05 | 000 | 1 | 1 | | -73 | | -69 | 4 | | | | | DR | 3B | IMPX4 Q |
| | TQ16600560 | | | 02 | 000 | 1 | 2 | | ~11 | | -1 | 3A | | | | | DR | 3A | IMP 80 |
| | TQ16700560 | | | 03 | 000 | 1 | 1 | | -28 | | -17 | 3B | | | | | DR | 3B | IMP60-3A |
| 59 | TQ16800560 | CER | S | 02 | 000 | 1 | 1 | 147 | 31 | 120 | 8 | 2 | | | | | DR | 2 | |
| | | | _ | | | | | | | | | | | | | | | | |
| | TQ16900560 | | | 02 | 000 | 1 | 1 | 141 | | 112 | | 2 | | | | | DR | 2 | |
| 61 | TQ17000560 | CER | SE | 01 | 000 | 1 | 1 | 105 | -11 | 117 | 5 | ЗА | | | | | DR | ЗА | IMP 2DR |

----STONES---- STRUCT/ SUBS ----MOTTLES---- PED COL ABUN CONT COL GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC SAMPLE DEPTH TEXTURE COLOUR 0-34 10YR53 00 0 0 CH 10 12 mzcl 0 0 34-75 ch 00CH00 00 n М Υ 0-32 10YR53 00 0 0 CH 10 12A mzcl γ 00CH00 00 0 0 0 Υ 32-70 М ch 13 0-35 10YR53 00 0 0 HR 5 mzcl 00CH00 00 0 0 0 35-75 М Υ ch 0 0 HR 14 0-28 10YR53 00 5 28-60 hzc1 10YR63 00 0 0 CH 10 М 60-100 ch 00CH00 00 0 0 0 М 0 0 CH 0-28 mzcl 10YR53 00 10 28-32 10YR53 00 0 0 CH 80 mzc1 М 32-75 00CH00 00 0 0 0 М ch 0-20 mzcl 10YR53 00 0 0 HR 2 20-25 10YR54 00 0 0 CH 5 М Υ mzc l 25-35 0 0 CH mzcl 00ZZ00 00 80 М γ 35-85 00ZZ00 00 0 0 0 М Y Rooting to 85 0-26 10YR53 00 0 0 HR 25 3 mzcl 10YR54 64 0 0 CH 26-45 hc1 10 М 45-85 00CH00 00 0 0 HR 2 Υ 10YR53 00 0 0 HR 26 0-27 5 mzcl 0 0 27-75 00CH00 00 ٥ Y ch М 0-25 10YR53 00 0 0 HR 27 mzcl 3 25-40 10YR53 54 0 0 CH 3 Y hzcl М 0 0 CH 50 40-45 hc] 10YR53 00 М Y 45-85 00CH00 00 0 0 0 ch 0-32 10YR53 00 0 0 HR 28 mzcl 6 Υ 32-70 ch 00CH00 00 0 0 0 М Y 0 0 CH 0-25 10YR53 00 Υ 29 mzcl 3 25-40 hzc1 10YR54 00 0 0 CH 10 Y 40-45 mzcl 10YR64 00 0 0 CH 50 М γ 00CH00 00 0 0 0 45-80 ٧ ch М 0-26 10YR42 00 0 0 HR 3 γ 30 mzcl 26-58 10YR43 00 0 0 HR 8 ٧ hzc1 М 0 0 CH 10YR64 74 35 58-120 mzcl М Υ 0-28 10YR43 00 0 0 HR 3 Υ 33 mcl 28-70 10YR54 00 0 0 0 Υ hc1 М 70-80 10YR54 00 0 0 CH 10 М Υ hcl

0 0 CH

0 0

20

0

М

М

Y

10YR74 00

00ZZ00 00

80-90

90-120 ch

hc1

| | | | | MOTTLES | | PED | | S | TONES | S | STRUCT/ | SUBS | | |
|--------|--------|---------|-----------|-------------|---|---------|------|---|-------|----|---------|-----------------|--------|---------------|
| SAMPLE | DEPTH | TEXTURE | COLOUR | | | | | | | | • | STR POR IMP SPL | CALC | |
| | | | | | | | | | | | | | 0, 120 | |
| 34 | 0-30 | mc1 | 10YR53 00 | | | | 0 | 0 | HR | 3 | | | γ | |
| | 30-35 | mcl | 00ZZ00 00 | | | | | | CH | 80 | | М | Υ | |
| | 35-85 | ch | 00ZZ00 00 | | | | | 0 | | 0 | | M | Υ | Rooting to 85 |
| | | | | | | | | | | | | | | |
| 36 | 0-28 | mc? | 10YR32 00 | | | | 0 | 0 | СН | 2 | | | Υ | |
| | 28-58 | mc1 | 10YR53 00 | | | | 0 | 0 | СН | 5 | | М | Υ | |
| | 58-75 | mc1 | 10YR74 00 | | | | 0 | 0 | CH | 10 | | М | γ | |
| | 75-120 | ch | 00ZZ00 00 | | | | 0 | 0 | ł | 0 | | М | Υ | |
| | | | | | | | | | | | | | | |
| 41 | 0-28 | mzcl | 10YR42 00 | | | | 0 | 0 | HR | 3 | | | Υ | |
| | 28-35 | hc1 | 10YR43 54 | | | | 0 | 0 | HR | 5 | | М | Υ | |
| | 35-60 | С | 10YR54 56 | | | | 0 | 0 | HR | 5 | | M | Y | |
| | 60-95 | mzcl | 10YR74 64 | | | | 0 | 0 | CH | 35 | | M | γ | |
| | 95-120 | mzc1 | 10YR74 00 | | | | 0 | 0 | CH | 50 | | M | Υ | |
| | | | | | | | | | | | | | | |
| 42 | 0-26 | hzcl | 10YR53 00 | | | | 0 | 0 | HR | 5 | | | Υ | |
| | 26-120 | С | 10YR56 00 | | C | OMNOO (| 0 00 | 0 | HR | 3 | | М | Υ | |
| | | | | | | | | | | | | | | |
| 43 | 0-28 | mc] | 10YR53 00 | | | | 0 | 0 | HR | 3 | | | Υ | |
| | 28-45 | hc1 | 10YR54 00 | | | | 0 | 0 | HR | 2 | | M | γ | |
| | 45-79 | С | 10YR44 54 | | | | 0 | 0 | HR | 3 | | M | Υ | |
| | 79-90 | hzc1 | 10YR54 00 | | | | 0 | 0 | CH | 20 | | M | Υ | |
| | 90-120 | mzc1 | 10YR64 74 | | | | 0 | 0 | CH | 35 | | М | Υ | |
| | | | | | | | | | | | | | | |
| 44 | 0-28 | mzcl | 10YR42 43 | | | | 0 | 0 | HR | 5 | | | Υ | |
| | 28-48 | hcl | 10YR54 00 | | | | 0 | 0 | HR | 8 | | М | γ | |
| | 48-75 | hzc1 | 10YR64 63 | | | | 0 | 0 | CH | 35 | | M | Υ | |
| | 75-90 | hzcl | 10YR74 00 | | | | 0 | 0 | CH | 40 | | М | Υ | |
| | | | | | | | | | | | | | | |
| 45 | 0-28 | mzcl | 10YR42 00 | | | | 0 | 0 | HR | 6 | | | Υ | |
| | 28-55 | hzc1 | 10YR43 44 | | | | 0 | 0 | HR | 5 | | M | Υ | |
| | 55-78 | С | 10YR44 00 | | | | 0 | 0 | CH | 8 | | M | Υ | |
| | 78-120 | hzc1 | 10YR64 74 | | | | 0 | 0 | CH | 30 | | М | Y | |
| | | | | | | | | | | | | | | |
| 46 | 0-28 | hzcl | 10YR42 00 | | | | 8 | | HR | 14 | | | Υ | |
| | 28-35 | hzcl | 10YR43 54 | | | | 0 | 0 | HR | 8 | | М | Y | |
| | 35-45 | hzcl | 10YR74 64 | | | | 0 | 0 | CH | 35 | | М | Y | |
| | | | | | | | | | | | | | | |
| 47 | 0-26 | mzcl | 10YR42 00 | | | | 0 | | HR | 10 | | | Υ | |
| | 26-35 | C | 10YR44 00 | | | | 0 | 0 | HR | 20 | | M | Υ | |
| | | | | | | | | | | | | | | |
| 48 | 0-25 | hc1 | 10YR42 00 | | | | 5 | | HR | 7 | | | | |
| | 25-50 | hc1 | 10YR54 00 | | | | 0 | | CH | 20 | | M | | |
| | 50-70 | hc1 | 10YR64 00 | | | | 0 | | СН | 50 | | М | | |
| | 70-90 | ch | 00CH00 00 | | | | 0 | 0 | | 0 | | M | | |
| | _ | | | | | | | | | | | | | |
| 49 | 0-30 | hc1 | 10YR42 00 | | | | 2 | | HR | 5 | | | | |
| | 30-80 | hc1 | 10YR54 00 | | | | 0 | | CH | 1 | | M | | |
| | 80-85 | hc1 | 10YR64 00 | | | | 0 | 0 | CH | 20 | | M | | |
| | | | | | | | | | | | | | | |

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| | | | | MOTTLES | S | PEĐ | | | -ST | ONES | | STRUCT/ | SUBS | | | | | | |
|--------|--------|---------|------------|-------------|---|--------|------|---|-----|--------|----|---------|------|--------|--------|-------|--------|--------|--|
| SAMPLE | DEPTH | TEXTURE | COLOUR | ABUN | | COL | GLEY | | | | | CONSIST | | IMP SP | L CALC | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 50 | 0-25 | mcl | 10YR42 00 | | | | | | 0 | | 5 | | | | | | | | |
| | 25-30 | hc1 | 10YR54 00 | | | | | | 0 1 | | 2 | | M | | | | | | |
| | 30-70 | hc1 | 10YR64 00 | | | | | 0 | 0 | CH | 10 | | М | | | | | | |
| 51 | 0 25 | mcl | 10YR42 00 | | | | | 0 | 0 1 | HR | 5 | | | | | | | | |
| 57 | 0-28 | hzcl | 10YR42 00 | | | | | 0 | 0 1 | HR | 6 | | | | Υ | | | | |
| | 28-75 | c | 75YR56 00 | | | | | | 0 | | 10 | | М | | Y | | | | |
| | 75 80 | mzcl | 10YR64 74 | | | | | | 0 | | 30 | | м | | Y | | | | |
| 50 | | _ | 40 | | | | | | _ | | | | | | | | | | |
| 58 | 0-28 | mc1 | 10YR42 00 | | | | | | 0 | | 4 | | | | Y | | | | |
| | 28 60 | C | 10YR56 00 | | | | | 0 | 0 | HR | 10 | | М | | Y | | | | |
| 59 | 0 27 | mzcl | 10YR42 00 | | | | | 0 | 0 | HR | 4 | | | | Y | | | | |
| | 27 65 | hzc1 | 10YR44 54 | | | | | 0 | 0 | HR | 3 | | M | | Y | | | | |
| | 65 96 | c | 10YR44 54 | | | | | 0 | 0 | HR | 6 | | M | | Y | | | | |
| | 96 120 | mzcl | 10YR64 74 | | | | | 0 | 0 | CH | 30 | | М | | Y | | | | |
| 60 | 0 26 | mzcl | 10YR42 00 | | | | | 0 | 0 | HR | 6 | | | | | | | | |
| | 26-50 | hcl | 10YR42 43 | | | | | | 0 | | 7 | | М | | | | | | |
| | 50 79 | c | 75YR56 00 | | | 00MN00 | 00 | | 0 | | 7 | | М | | | | | | |
| | 79-120 | hzcl | 10YR64 74 | | | | | | 0 | | 35 | | M | | Υ | | | | |
| | 0.00 | - 3 | 107040 00 | | | | | | | | | | | | | | | | |
| 61 | 0-28 | mzcl | 10YR42 00 | | | | | | 0 | | 4 | | | | | | | | |
| | 28-50 | mzcl | 10YR43 00 | | | | | | 0 | | 3 | | M | | | | | | |
| | 50-65 | hc1 | 10YR43 44 | | | | | | 0 | | 10 | | M | | | | | | |
| | 65–70 | c | 10YR44 00 | | | | | U | 0 | нк | 10 | | М | | | | | | |
| 62 | 0 28 | mc1 | 10YR42 00 | | | | | 7 | 0 | HR | 12 | | | | | | | | |
| | 28 35 | hzcl | 10YR44 00 | | | | | 0 | 0 | HR | 20 | | M | | | | | | |
| 63 | 0 28 | hzcl | 10YR42 00 | | | | | ٨ | 0 | MD | 7 | | | | | | | | |
| 05 | 28 50 | hc1 | 10YR42 43 | | | | | | 0 | | 15 | | м | | | | | | |
| | 20 30 | 1101 | 1011142 45 | | | | | Ŭ | Ů | | | | •• | | | | | | |
| 64 | 0 30 | hcl | 10YR42 00 | | | | | 7 | | | 10 | | | | Y | | | | |
| | 30 35 | hcl | 10YR44 00 | | | | | 0 | 0 | HR | 20 | | M | | Y | Imp 3 | 35 – s | tones | |
| 65 | 0 29 | hc1 | 10YR42 00 | | | | | 0 | 0 | HR | 3 | | | | Y | | | | |
| | 29-55 | hc1 | 10YR43 00 | | | | | | 0 | | 3 | | м | | Y | | | | |
| | 55-95 | c | 10YR44 00 | F | | | | 0 | 0 | HR | 3 | | М | | Y | | | | |
| | 95-100 | c | 10YR74 00 | | | | | 0 | 0 | HR | 10 | | M | | Y | Imp 1 | 00 - | flints | |
| 67 | 0-30 | hcl | 10YR42 00 | | | | | 0 | 0 | uр | 2 | | | | | | | | |
| 0, | 30-70 | hcl | 10YR54 00 | | | | | | 0 | | 2 | | м | | | | | | |
| | 30-70 | (K) | 1017- | | | | | U | J | , 117, | ۷ | | п | | | | | | |
| 69 | 0-27 | mcl | 10YR42 00 | | | | | 3 | 0 | HR | 5 | | | | | | | | |
| | 27-70 | hc1 | 10YR54 00 | | | | | 0 | 0 | HR | 10 | | М | | Y | Imp 7 | 70 - s | tones | |
| | | | | | | | | | | | | | | | | | | | |

----MOTTLES---- PED ----STONES---- STRUCT/ SUBS COL ABUN CONT COL GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC SAMPLE DEPTH TEXTURE COLOUR 0 0 HR 70 10YR42 00 4 0-25 mc1 0 0 HR 25-40 hc1 10YR43 00 2 М 10YR54 00 0 0 HR М 40-85 hel 5 2 0 HR 71 0-25 mc1 10YR42 00 5 0 0 HR 10YR54 00 М 25-120 hc1 2 10YR42 00 2 0 HR 72 0-25 സരി 5 0 0 HR М 25-50 10YR43 00 2 hcl 10YR44 00 0 0 HR 50-70 5 М 3 0 HR 73 0-30 mcl 10YR42 00 3 30-70 10YR43 00 0 0 HR М hcl 5 70-95 10YR44 00 0 0 HR 5 М Imp 95 - stones C O O HR 75 0-20 mc1 10YR32 00 2 0 0 HR 20-30 mcl 10YR42 00 2 М 30-50 10YR54 00 0 0 HR 2 М mcl 50-80 10YR54 00 0 0 HR М 2 hc1 76 0-30 mc1 10YR32 00 0 0 HR 2 0 0 HR 30-60 mc1 10YR42 00 2 М 10YR44 00 0 0 HR 60-90 2 М hc1 0-30 mc1 10YR43 00 0 0 0 30-80 10YR44 00 0 0 HR 5 М hcl 80-120 c 10YR54 00 0 0 HR 5 М 0-25 10YR42 00 0 0 HR 2 mc1 25-60 10YR43 00 0 0 HR 2 М mc1 0 0 HR 60-80 10YR54 00 2 М hc1 0-30 mc1 0 0 HR 79 10YR43 00 5 Imp 50 - stones 0 0 HR 30-50 10YR44 00 М hel 5 0-20 10YR32 00 0 0 HR 2 80 mcl 0 0 HR М 20-40 10YR42 00 2 mcl 40 70 0 0 HR mc1 10YR43 00 2 М 70-85 hel 10YR54 00 0 0 HR 2 М 0-25 10YR42 00 0 0 HR 81 mcl 2 25-50 10YR43 00 0 0 HR 2 mc1 50-80 10YR54 00 0 0 HR 2 М hc1 5 86 0-30 mc1 10YR42 00 0 0 HR 0 0 HR 30-40 10YR42 00 10 mc1 87 0 25 mcl 10YR43 00 0 0 HR 2 25 50 10YR42 00 0 0 HR 5 М hc1 10YR54 00 0 0 HR 2 М 50 80 hc1

48-65 c

0-25 mc1

25-50 mc1

105

75YR54 00

10YR42 00

10YR43 00

Imp 65 - stones

Imp 50 - stones

----MOTTLES----- PED ----STONES---- STRUCT/ SUBS COL ABUN CONT COL GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC SAMPLE DEPTH TEXTURE COLOUR 0 0 HR RR 0-30 10YR42 00 2 mc1 0 0 HR 30-60 mc1 10YR43 00 5 М 10YR54 00 0 0 HR 60-70 hc1 O O HR 89 0-32 mcl 10YR43 00 2 32-50 10YR44 00 O O HR 5 hc1 50-90 10YR44 00 O O HR 10 М c 10YR64 00 0 0 CH 5 М Chalky drift 90-120 hc1 0-25 mc1 0 0 HR 10YR42 00 2 25-40 mc1 10YR43 00 0 0 HR 2 М 0 0 HR 0-30 mc1 10YR42 00 2 O O HR 30-45 hc1 10YR43 00 2 0 0 HR М 45-120 hc1 10YR44 00 2 0-32 mc1 10YR32 00 0 0 HR 2 32-70 mcl 0 0 HR 2 М 10YR42 00 0 0 HR 70-85 10YR54 00 2 М 97 0-25 10YR42 00 0 0 HR 2 mc1 0 0 HR 2 М 25-50 10YR44 00 hc1 00MN00 00 0 0 HR 50 80 hc1 10YR54 00 2 10YR54 00 0 0 CH 80-120 hc1 0 0 HR 98 0-25 10YR42 00 2 നമി 0 0 HR 25-60 hç1 10YR43 00 2 0 0 HR 60-120 hc1 10YR54 00 2 100 10YR32 00 0 0 HR 5 0-32 mc1 32-70 hc1 10YR62 00 75YR58 00 C 10YR71 00 Y 0 0 HR 2 70-82 10YR62 00 75YR58 00 C 10YR71 00 Y 0 0 HR 2 М Imp 82 - stones hc1 0 0 101 0-30 mcl 10YR32 00 0 30-60 mc1 10YR52 00 0 0 0 М 10YR61 00 75YR58 00 C Y 0 0 0 М Imp 78 - gravel 60-78 С 103 0-30 10YR42 00 2 0 HR 3 mc1 0 0 HR 30-50 10YR53 00 3 М hc1 0 0 HR Imp 80 - stones 50-80 10YR54 00 3 М С 2 0 HR 104 0-27 10YR42 00 3 mc1 27-48 hc1 10YR43 00 O O HR 3 м

0 0 HR

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| | | | | | MOTTLES | | | | - | S | TONES | - | STRUCT/ | SUBS | | |
|--------|----------------|----------|------------------------|------|---------|------|--------|------|----|----|-------|-----|---------|----------------------|-----------|--------|
| SAMPLE | DEPTH | TEXTURE | COLOUR | COL | ABUN | CONT | COL | GLEY | >2 | >6 | LITH | TOT | CONSIST | STR POR IMP SPL CALC | | |
| 106 | 0 25 | ol | 10YR32 00 | | | | | | 0 | 0 | | 0 | | | Imp 25 | gravel |
| 107 | 0 30 | ρl | 10YR21 00 | | | | | | 0 | 0 | | 0 | | | | |
| | 30 40 | gh | 00ZZ00 00 | | | | | | | 0 | | 0 | | М | Imp 40 | gravel |
| | | | | | | | | | | | | | | | | |
| 108 | 0 30 | hcl | 10YR32 00 | | | | | | | | HR | 1 | | | | |
| | 30 50 | C | 25 Y52 00 | | | | 25 Y60 | | | 0 | | 0 | | M | | |
| | 50 120 | C | 10YR62 00 | TOTR | 38 UU M | | 10YR61 | VU 1 | U | 0 | | 0 | | М | Many Mn c | ones |
| 110 | 0 29 | mc1 | 10YR42 00 | | | | | | 0 | 0 | HR | 2 | | | | |
| | 29 48 | hc1 | 10YR53 00 | | | | | | 0 | 0 | HR | 2 | | М | | |
| | 48 80 | c | 10YR54 00 | | | | | | 0 | 0 | | 0 | | М | | |
| | 80 85 | c | 10YR54 00 | | F | | | | 0 | 0 | | 0 | | М | Imp 85 | stones |
| 112 | 0 28 | mcl | 10YR53 00 | | | | | | 0 | n | HR | 5 | | | | |
| ,,, | 28 45 | hc1 | 10YR54 00 | | | | | | 0 | | HR | 5 | | м | | |
| | 45 70 | c | 10YR54 00 | | | | | | | | HR | 2 | | M | Imp 70 | stones |
| | | | | | | | | | | | | | | | | |
| 11 7 | 0 28 | wc J | 10YR53 OG | | | | | | | | HR | 5 | | | | |
| | 28 45 | hc1 | 10YR54 00 | | | | | | | | HR | 5 | | М | | |
| | 45 120 | С | 10YR54 00 | | | | | | 0 | 0 | HR | 2 | | М | Assume to | 120 |
| 113 | 0 25 | ocl | 10YR22 00 | | | | | | 0 | 0 | | 0 | | | | |
| | 25 32 | hc1 | 10YR31 00 | | | | | | | 0 | | 0 | | М | Imp 32 - | gravel |
| | | | | | | | | | | | | | | | | |
| 114 | 0 25 | mzcl | 10YR32 00 | | | | | | | 0 | | 0 | | | | |
| | 25 35 | hcl | 10YR53 00 | | | | | | | 0 | | 0 | | M | | |
| | 35 55 | hc1 | 10YR62 00 | | | | 10YR61 | | | | HR | 2 | | M | | |
| | 55 120 | С | 10YR62 00 | IUTK | 36 UU C | | 10YR61 | UU Y | U | U | HR | 2 | | М | | |
| 115 | 0 35 | mc 1 | 10YR42 00 | | | | | | 0 | 0 | HR | 2 | | | | |
| | 35 42 | hol | 10YR54 00 | | | | | | 0 | 0 | | 0 | | м | | |
| | 42 120 | hc1 | 10YR54 00 | 000C | 00 00 M | | 00MN00 | 00 | 0 | 0 | | 0 | | М | | |
| 115 | 0 25 | mcl | 10YR42 DO | | | | | | n | 0 | | 0 | | | | |
| | 25 50 | c | 10YR44 00 | | | | | | Q | 0 | | 0 | | м | | |
| | 50 80 | ¢ | 10YR54 00 | | | | | | 0 | 0 | | 0 | | м | | |
| | 80 120 | С | 10YR54 00 | 0000 | 00 00 C | | | | 0 | 0 | | 0 | | м | | |
| | 0.00 | | 100040 00 | | | | | | _ | _ | | _ | | | | |
| 117 | 0 28 | mcl | 10YR42 00 | | | | | | | | HR | 2 | | | | |
| | 28 60 60 80 | hc1 c | 10YR44 00 10YR44 00 | | | | | | | | HR | 2 | | M | | |
| | 80 100 | | 25Y 63 00 | 0000 | 00 00 0 | | | Y | | 0 | HR | 2 | | M M | | |
| | 20 100 | - | 20. 00 00 | 5500 | | | | , | Ū | J | | J | | •1 | | |
| 118 | 0 32 | mc1 | 10YR42 00 | | | | | | 2 | 0 | HR | 5 | | | | |
| | 32 80 | hcl | 10YR54 00 | | | | | | 0 | 0 | HR | 5 | | М | | |
| | 80 90 | hc1 | 10YR54 00 | | | | | | 0 | 0 | HR | 10 | | М | Imp 90 - | stones |
| | | | | | | | | | | | | | | | | |

| | | | | | 10TTLES | | PED | | | | -STC | WES_ | | STRUCT/ | SHRS | |
|--------|---------------|------------|------------------------|------------|---|----|---------|------|----------|---|------|------|---|---------|-----------------------|-----------------|
| SAMPLE | NEPTH | TEXTURE | COLOUR | COL | | | COL | GI I | | | | | | · · | STR POR IMP SPL CALC | |
| GT LL | JE, | , contains | 00200 | UUL | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 00 | 000 | | | _ | | ,,, | | CONCIO: | OWN TON THE ONE WILLS | |
| 119 | 0-29 | mcl | 10YR53 00 | | | | | | | 2 | 0 F | łR | 5 | | | |
| | 29-60 | hc1 | 10YR54 00 | | | | | | | 0 | 0 H | lR . | 5 | | М | |
| | 60-75 | С | 10YR54 00 | | | | | | | 0 | 0 H | iR | 2 | | М | Imp 75 - stones |
| | | | | | | | | | | | | | | | | |
| 120 | 0-30 | oc1 | 10YR22 00 | | | | | | | 0 | 0 | | 0 | | | |
| | 30-42 | ρl | 10YR32 00 | | | | | | | 0 | 0 | | 0 | | М | Imp 42 - stones |
| | | | | | | | | | | | | | | | | |
| 121 | 0-25 | mzcl | 10YR42 00 | | | | | | | 0 | | | 0 | | | |
| | 25-45 | hcl | 10YR53 00 | | | | | | | | 0 H | | 5 | | М | |
| | 45-70 | С | 10YR53 00 | | | | 10YR62 | | | | 0 H | | 5 | | М | |
| | 70-120 | С | 10YR71 00 | 10YR56 | 00 C | | | , | Y | 0 | 0 F | łR | 5 | | М | |
| | | _ | | | | | | | | _ | _ | | _ | | | |
| 122 | 0-28 | mcl | 10YR42 00 | | | | | | | | 0 | | 0 | | | |
| | 28-50 | hc1 | 10YR53 00 | | | | | | | - | 0 | | 0 | | M | |
| | 50-120 | hc1 | 10YR53 00 | UUUCUU |) 00 C | | COMNOO | 00 | Y | 0 | Ü | | 0 | | М | |
| 123 | 0.25 | 1 | 100042 00 | | | | | | | ^ | 0 F | מנ | 2 | | | |
| 123 | 0-25 25-50 | mcl hcl | 10YR42 00 10YR44 00 | | | | | | | | 0 | 1K | 2 | | M | |
| | 50-120 | | 101R44 56 | nnacar | 1 00 0 | | | | | | 0 F | 1D | 5 | | M | |
| | 30-120 | • | 101834 30 | 000000 | , 00 0 | | | | | • | ٠. | ik | 3 | | ** | |
| 124 | 0-25 | mcl | 10YR42 00 | | | | | | | 0 | 0 F | iR | 2 | | | |
| | 25-80 | hcl | 10YR54 00 | | | | | | | | 0 F | | 2 | | М | |
| | 80-90 | c | 10YR54 00 | 000000 | 00 C | | 00MN00 | 00 | | | 0 F | | 5 | | М | |
| | | | | | | | | | | | | | | | | |
| 125 | 0-25 | mc1 | 10YR42 00 | | | | | | | 0 | 0 F | łR | 2 | | | |
| | 25-50 | hc1 | 10YR54 00 | | | | | | | 0 | 0 F | łR | 5 | | M | |
| | | | | | | | | | | | | | | | | |
| 127 | 0-25 | mcl | 10YR42 00 | | | | | | | 0 | 0 F | łR | 2 | | | |
| | 25-45 | hc1 | 10YR44 00 | | | | | | | | 0 F | | 2 | | M | |
| | 45-80 | С | 10YR44 00 | | | | | | | | 0 H | łR | 2 | | M | |
| | 80-120 | С | 10YR44 00 | 000000 | 00 F | | | | | 0 | 0 | | 0 | | М | |
| | | _ | | | | | | | | _ | _ | | _ | | | |
| 128 | 0-32 | mcl | 10YR32 00 | 354556 | | | 4011064 | | | | 0 | | 0 | | | - u |
| | 32-60 | hc1 | 10YR63 00 | | | | 10YR61 | | | | 0 H | | 5 | | M | Few Mn concs |
| | 60-120 | С | 10YR52 00 | /5YK58 | S UU M | | 10YR61 | 00 | Y | U | 0 н | ıĸ | 5 | | М | |
| 129 | 0-28 | 1 | 10YR42 00 | | | | | | | 0 | 0 | | 0 | | | |
| 123 | 28-40 | mcl hcl | 101R42 00 | | | | | | | 0 | 0 | | 0 | | M | |
| | 40-58 | C | 10YR54 00 | | | | | | | - | 0 | | 0 | | m M | Few Mn concs |
| | 58-62 | c | 10YR53 00 | 75VD58 | י חח ר | | | , | Y | | 0 н | ID. | 5 | | M | Imp 62 - stones |
| | JU-02 | Ü | 101733 00 | / J 1 N JC | | | | | • | J | 5 5 | | , | | •• | Imp oz - stores |
| 130 | 0-32 | mcl | 10YR42 00 | | | | | | | 0 | 0 | | 0 | | | |
| | 32-50 | hc1 | 10YR53 00 | 75YR58 | 00 C | | 10YR61 | 00 1 | Y | | | | 0 | | М | |
| | 50-120 | | 10YR53 00 | | | | 10YR61 | | | 0 | | | 0 | | M | |
| | | | | | | | | | | | | | | | | |
| 131 | 0-25 | mcl | 10YR42 00 | | | | | | | 0 | 0 H | iR | 2 | | | |
| | 25-50 | mc1 | 25Y 52 00 | | | | | | | 0 | 0 н | IR | 5 | | M | |
| | | | | | | | | | | | | | | | | |

| | | | | | MOTTI EC | | DED | | | 6. | CALEC | | CTDUCT / | CHBC | | | | | | | | |
|--------|--------|---------|------------|-------|-----------------|------|----------|-------|------|----|-------|-----|--------------------|---------|------|-------|----------|-----|-------|------|------|----|
| CAMDIC | DEDTU | TEVTURE | COLOUR | | MOTTLES ABUN | CONT | | CL EV | | | | | STRUCT/ CONSIST | | . та | 40.50 | | u.c | | | | |
| SAMPLE | DEPTH | TEXTURE | COLOUR | WL | ADUN | CONT | CUL | GLE | 7 72 | >0 | LIIA | 101 | CONSIST | SIK PUI | r II | TP JP | LU | 4LC | | | | |
| 132 | 0-25 | mcl | 10YR42 00 | | | | | | 0 | 0 | HR | 2 | | | | | | | | | | |
| | 25-50 | mcl | 10YR54 00 | | | | | | 0 | 0 | | 0 | | М | | | | | | | | |
| | 50-60 | hcl | 10YR54 00 | 00000 | 0 00 F | | | | 0 | 0 | | 0 | | M | | | | | | | | |
| | 60-90 | С | 10YR54 00 | | | | | | 0 | 0 | | 0 | | М | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 133 | 0-25 | mc1 | 10YR42 00 | | | | | | 0 | 0 | HR | 2 | | | | | | | | | | |
| | 25-40 | hc1 | 10YR54 00 | | | | | | 0 | 0 | | 0 | | M | | | | | | | | |
| | 40-120 | С | 10YR54 00 | | | (| 00/11/00 | 00 | 0 | 0 | | 0 | | M | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 135 | 0-25 | mc1 | 10YR42 00 | | | | | | 0 | 0 | HR | 2 | | | | | | | | | | |
| | 25~65 | hc1 | 10YR54 00 | | | | | | 0 | 0 | HR | 2 | | M | | | | | | | | |
| | 65-120 | c | 10YR54 00 | | | | | | 0 | 0 | HR | 2 | | M | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 136 | 0 25 | mcl | 10YR42 00 | | | | | | 0 | | HR | 2 | | | | | | | | | | |
| | 25 50 | mc1 | 10YR44 00 | | | | | | 0 | | HR | 2 | | M | | | | | | | | |
| | 50 80 | hc1 | 10YR54 00 | | | | | | 0 | | HR | 2 | | M | | | | | | | | |
| | 80 95 | C | 10YR54 00 | | | | | | 0 | 0 | HR | 5 | | М | | | | | | | | |
| | | _ | | | | | | | _ | _ | | _ | | | | | | | | | | |
| 138 | 0-25 | mc] | 10YR42 00 | | | | | | | | HR | 2 | | | | | | | | | | |
| | 25-50 | hc1 | 10YR53 00 | | | | | | 0 | | HR | 2 | | M | | | | | | | | |
| | 50-60 | С | 10YR56 00 | | | | | | U | U | HR | 5 | | М | | | | | | | | |
| 120 | 0.05 | | 100042.00 | | | | | | ^ | ^ | ub | 2 | | | | | | | | | | |
| 139 | 0-25 | mcl | 10YR42 00 | | | | 0014100 | 00 | | | HR | 2 | | | | | | | | | | |
| | 25-60 | С | 10YR54 00 | | | | OOMNOO | | 0 | 0 | | 0 | | M | | | | | | | | |
| | 60 70 | c | 10YR54 00 | 00000 | 0 00 0 | | 00MN00 | | | 0 | | 0 | | M | | | | | | | | |
| | 70 120 | С | 10YR54 00 | JULCU | 0 00 0 | ' | OUMNOO | 00 | v | 0 | | U | | М | | | | | | | | |
| 140 | 0 28 | mcl | 10YR42 00 | | | | | | o | 0 | HR | 2 | | | | | | | | | | |
| 140 | 28 65 | hc1 | 10YR54 00 | | | | | | o | 0 | | 0 | | М | | | | | | | | |
| | 65 120 | c | 10YR54 00 | 00000 | 0 00 C | i | 00MN00 | 00 | | 0 | | 0 | | M | | | | | | | | |
| | 00 .20 | • | 1011107 00 | | | | | | • | - | | - | | ,, | | | | | | | | |
| 142 | 0-25 | mc1 | 10YR42 00 | | | | | | 0 | 0 | HR | 2 | | | | | | | | | | |
| | 25 60 | hc] | 10YR44 00 | | | | | | 0 | 0 | | 0 | | M | | | | | | | | |
| | 60-120 | | 10YR54 00 | | | 1 | 00MN00 | 00 | 0 | 0 | HR | 2 | | М | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 144 | 0-35 | oc1 | 10YR22 00 | | | | | | 0 | 0 | | 0 | | | | | | | Imp 3 | 35 - | bras | hy |
| | | | | | | | | | | | | | | | | | | | | | | |
| 145 | 0-25 | mcl | 10YR42 00 | | | | | | 0 | 0 | | 0 | | | | | | | | | | |
| | 25-60 | hc1 | 10YR53 00 | 00000 | 0 00 C | | | Υ | 0 | 0 | | 0 | | M | | | | | | | | |
| | 60-90 | С | 10YR52 00 | 00000 | 0 00 C | | | Y | 0 | 0 | | 0 | | PΥ | | Y | <i>f</i> | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 146 | 0-25 | mc1 | 10YR42 00 | | | | | | | 0 | | 0 | | | | | | | | | | |
| | 25-60 | hc1 | 10YR44 00 | | | | | | | 0 | | 0 | | M | | | | | | | | |
| | 60-85 | С | 10YR54 00 | | | | 00MM00 | 00 | 0 | 0 | | 0 | | М | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 147 | 0-25 | mc1 | 10YR42 00 | | | | | • | | | HR | 2 | | | | | | | | | | |
| | 25-60 | hc1 | 10YR54 00 | | | | 00MN00 | | | 0 | | 0 | | M | | | | | | | | |
| | 60-80 | С | 10YR54 00 | 000C0 | บ UD F | 1 | 00MN00 | UÜ | 0 | 0 | HR | 5 | | М | | | | | | | | |

----MOTTLES---- PED ----STONES---- STRUCT/ SUBS SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 148 0-25 mc1 10YR42 00 0 0 HR 2 25-50 hc1 10YR54 00 0 0 Λ М 50-60 с 10YR54 00 0 0 0 60-75 c 10YR54 00 00MN00 00 0 0 HR 5 0-25 mc1 149 10YR42 00 0 0 HR 2 25-50 hc1 10YR44 00 0 0 HR 50-120 hc1 10YR54 00 0 0 HR 2 М 0-25 mc1 150 10YR42 00 0 0 HR 2 25-80 hc1 10YR54 00 0 0 HR 2 80-120 hc1 10YR54 00 000C00 00 C 00MN00 00 0 OHR 2 152 0-30 p1 10YR22 00 0 0 HR 30-65 oc1 10YR21 00 75YR46 00 C Y 0 0 HR 2 Imp 65 - stones 154 0-25 mc1 10YR42 00 0 0 0 25-50 hc1 10YR52 00 000C00 00 M Y 0 0 0 М 50-60 10YR52 00 000C00 00 M C 0 0 0 М 60-80 c 10YR52 00 000C00 00 M Y 0 0 Λ P Y 156 0-25 mc1 10YR42 00 0 0 0 25-42 mc1 10YR53 00 0 0 ۵ М Y 0 0 10YR52 00 000C00 00 C 42-120 hc1 0 M 157 0-25 mc1 10YR42 00 0 0 0 25-60 hc1 10YR44 00 0 O HR 2 М 60-90 c 10YR54 00 0 0 HR 5 158 0-25 mc1 10YR42 00 0 0 HR 2 25-60 hc1 10YR54 00 0 0 HR 2 60-120 c 10YR54 00 000C00 00 C 0 0 HR 2 159 0-25 mc1 10YR43 00 0 0 0 25-38 hc1 75YR54 00 0 0 0 38-50 c 75YR56 00 0 0 HR 5 М 50-60 с 75YR56 00 0 0 HR 10 М Imp 60 - stones 160 0-32 mc1 10YR43 00 0 0 0 32-40 10YR53 00 10YR58 00 C 10YR62 00 Y 0 0 HR hc? 5 М 10YR61 00 Y 0 0 HR 10 40-62 hc1 10YR62 00 10YR58 00 M М Imp 62 - stones 161 0-27 hc1 10YR41 00 75YR46 00 C Y 0 0 0 Y 0 0 27-120 c 05 Y71 00 10YR58 00 M 0 Р Υ Watertable 50+ 162 0-30 mc1 10YR42 00 0 0 0 30-50 с 25Y 52 00 000C00 00 C Y 0 0 HR 2 М 50-120 с 25Y 52 00 000C00 00 C Y 0 0 HR 5 М

182

0.25 mc1

25-60 ms1

10YR42 00

10YR42 00 000C00 00 C

--- MOTTLES ---- PED ----STONES --- STRUCT/ SUBS SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL GLEY 2 6 LITH TOT CONSIST STR POR IMP SPL CALC 166 0.28 mc1 10YR42 00 0 0 HR 2 28-60 hc1 10YR54 00 0 0 HR 2 М 60-120 c 10YR54 00 0 0 HR 2 М 167 0-28 mc1 10YR42 00 0 0 HR 1 28 75 hc1 10YR54 00 0 0 0 М 75-120 c 10YR54 00 00 00MN00 0 0 HR М 2 168 0 32 с 10YR62 00 75YR56 00 C 10YR51 00 Y 0 0 32-120 c 05 Y71 00 10YR58 00 M Y 0 0 0 М Peaty loam lenses 170 0-30 mc1 10Y842 00 0 0 0 30-50 mc1 10YR53 00 0 0 0 50-75 hcl 10YR53 00 000C00 00 M 00MN00 00 Y 0 0 0 М 75-90 sc1 10YR56 00 000C00 00 C 0 0 0 М 171 0.30 mc1 10YR42 00 0 0 0 30 40 hc1 10YR53 00 0 0 0 40 80 hc1 10YR53 00 000C00 00 C 00MN00 00 Y 0 0 HR М 2 80 120 c 10YR56 00 000C00 00 C 0 0 Υ 0 М 172 0 25 mc1 10YR42 00 0 0 0 25 60 10YR54 00 hc1 0 0 0 М 60 90 10YR53 00 000C00 00 C 0 0 М hel Υ Ω 90 120 c 10YR53 00 000C00 00 C Y 0 0 М 0 173 0 25 mcl 10YR42 00 0 0 0 25 50 hc1 10YR44 00 0 0 0 М 50-70 10YR54 00 hcl 0 0 0 М 70 90 c 10YR46 00 000C00 00 F 0 0 HR 5 10YR42 00 174 0 25 mc1 0 0 HR 2 25 50 hc1 10YR54 00 0 0 HR 2 М 50 120 c 10YR54 00 000C00 00 C 0 0 HR 5 10YR43 00 175 0 28 O O HR 2 mc1 28 60 hc1 10YR54 00 0 0 HR 5 М 60 75 c 10YR54 00 0 0 HR 5 0-20 mc1 10YR42 00 180 0 0 HR 4 Y 0 0 HR 25Y 62 00 000C00 00 C М 20-50 mc1 5 50 120 1ms 10YR56 00 000C00 00 C Y 0 0 HR 5 181 0.28 mc1 10YR42 00 O O HR 5 28-40 mc1 10YR44 00 0 0 HR 10

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М

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| | | | | M | OTTLES | | PED | | | s | TONES- | - | STRUCT/ | SUBS | 3 | | | |
|--------|--------|---------|-----------|--------|--------|------|-------|------|----|----|--------|--------------|---------|------|-----|-----|-----|------|
| SAMPLE | DEPTH | TEXTURE | COLOUR | COL | ABUN | CONT | COL. | GLEY | >2 | >6 | LITH | TOT | CONSIST | STR | POR | IMP | SPL | CALC |
| 184 | 0-20 | С | 10YR32 00 | 000000 | 00 C | | | γ | 0 | 0 | | 0 | | | | | | |
| | 20-55 | С | 25Y 52 00 | 000C00 | M 00 | | | Υ | 0 | 0 | | 0 | | P | Y | | Y | |
| 185 | 0-10 | hc1 | 10YR32 00 | 000000 | 00 C | | | γ | 0 | 0 | | 0 | | | | | | |
| | 10-60 | С | 25Y 52 00 | 000000 | 00 M | | | Y | 0 | 0 | | 0 | | P | Y | | Y | |
| 186 | 0-25 | mszl | 10YR42 00 | | | | | | 0 | 0 | HR | 2 | | | | | | |
| | 25-80 | mc1 | 10YR52 00 | 000000 | 00 C | | | Υ | 0 | | HR | 10 | | M | | | | |
| 187 | 0-35 | hc1 | 10YR42 00 | 75YR58 | 00 C | 1: | 0YR71 | 00 Y | 0 | 0 | | 0 | | | | | | |
| | 35-55 | С | 10YR52 00 | 75YR58 | 00 M | 10 | OYR61 | 00 Y | 0 | 0 | | 0 | | м | | | γ | |
| | 55-120 | С | 05 Y61 00 | 75YR58 | 00 M | | | Y | 0 | 0 | | 0 | | M | | | Y | |
| 189 | 0-20 | hcl | 10YR32 00 | 000000 | 00 C | | | Υ | 0 | 0 | | 0 | | | | | | |
| | 20-55 | С | 25Y 52 00 | 000000 | 00 M | | | Y | 0 | 0 | | 0 | | P | γ | | Y | |
| 2504 | 0-26 | mzcl | 10YR53 00 | | | | | | 0 | 0 | HR | 3 | | | | | | Y |
| | 26-45 | hc1 | 10YR54 64 | | | | | | 0 | | СН | 10 | | М | | | | Ý |
| | 45-85 | ch | 00CH00 00 | | | | | | 0 | 0 | HR | 2 | | м | | | | v |