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A1 BERKSHIRE MINERALS PLAN **OMMISSION SITE 14A** ARBORFIELD ROAD/BURLEY LODGE FARM SHINFIELD, BERKSHIRE AGRICULTURAL LAND CLASSIFICATION ALC MAP & REPORT AUGUST, 1993

BERKSHIRE MINERALS PLAN : OMMISSION SITE 14A LAND AT ARBORFIELD ROAD/BURLEY LODGE FARM, SHINFIELD, BERKSHIRE AGRICULTURAL LAND CLASSIFICATION REPORT

1.0 Summary

1.1 In August, 1993, a detailed Agricultural Land Classification (ALC) was made on approximately 115 hectares of land south of Shinfield on the western edge of the River Loddon floodplain.

1.2 The work was conducted by members of the Resource Planning Team in the Guildford Statutory Group of ADAS in response to a commission by MAFF's Land Use Planning Unit to provide information on the quality of agricultural land affected by an objection to the non-inclusion of this land in the Berkshire Minerals Plan.

1.3 The classification has been made using MAFF's revised guidelines and criteria for grading the quality of agricultural land. These guidelines provide a framework for classifying land according to the extent to which its physical or chemical characteristics impose long-term limitations on its use for agriculture.

1.4 The fieldwork was carried out with an observation density of approximately one per hectare. A total of 91 borings and 7 soil pits was examined.

1.5 Table 1 provides the details of the grades and sub-grades found across the site. The majority of the land is classified as Sub-grade 3B with three central blocks of better quality land, Sub-grade 3A. The poorer land is downgraded on the basis of soil wetness and soil droughtiness with soil droughtiness also being the main limitation on the 3A land. Heavy alluvial soils lie adjacent to the River Loddon with poorly structured clay subsoils; further away from the River stony subsoils occur. Depending on the stoniness of the lower horizons there is a moderate or significant droughtiness limitation.

Table 1 : Distribution of Grades and Sub-grades

Grade	Area (ha)	%of Agricultural Area	% of Site
3A	35.2	30.8	32.6
3B	72.7	63.4	<u>67.3</u>
Non-agric.	2.8	2.4	100% (107.9 ha)
Urban	0.4	0.3	
Farm Buildings	1.3	1.1	
Woodland	2.3	<u>2.0</u>	
TOTAL	114.7 ha	100%	

1.6 The ALC information is presented at a scale of 1:10,000; it is accurate at this level but any enlargement would be misleading. This map supercedes any previous ALC information for this site.

1.7 A general description of the grades and sub-grades is provided as an appendix. The main classes are described in terms of the type of limitation that can occur, the typical cropping range and the expected level and consistency of yield.

2.0 Climate

2.1 The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditiions.

2.2 The main parameters used in the assessment of the overall climatic limitation are annual average rainfall, as a measure of overall wetness, and accumulated temperature, as a measure of the relative warmth of a locality.

2.3 A detailed assessment of the prevailing climate was made by interpolation from a 5km gridpoint dataset. The details are given in the table below and these show that there is no overall climatic limitation affecting the site.

2.4 No local climatic factors such as exposure or frost risk affect the site.

Table 2 : Climatic Interpolations

Grid Reference :	SU636694
Altitude (m) :	50
Accumulated Temperature (days) :	1470
Average Annual Rainfall (mm) :	689
Field Čapacity (days) :	144
Moisture Deficit, Wheat (mm) :	113,·
Moisture Deficit, Potatoes (mm) :	107
Overall Climatic Grade :	1

3.0 Relief

3.1 The site occupies the western margin of the River Loddon floodplain between 45-50 metres.

4.0 Geology and Soil

4.1 The relevant geological sheet for the site shows the underlying geology to be Alluvium on the land adjacent to the River Loddon with Valley Gravel further west.

4.2 Heavy clay soils occur on the Alluvium with much lighter but stonier soils on the Valley Gravel.

5.0 Agricultural Land Classification

5.1 Table 1 provides the details of the area measuements for each grade and the distribution of each grade is shown on the attached ALC map.

5.2 The location of the soil observation points is shown on the attached sample point map.

5.3 <u>Sub-grade</u> <u>3A</u>

5.3.1 The site was surveyed during extremely dry conditions and, given the stony nature of most of the soils, augering to depth proved difficult. The auger was often stopped at shallow depths by the presence of stones of varying percentages.

A number of soil pits were described across the site and the final grades were derived by extrapolation from these and by tieing them in with those borings that were described to depth.

5.3.2 Pits 1,3 and 5 typify the range of soils that exist in this grade and actually show individual descriptions that are better than 3A. Across the site, however, the soil resource is deemed to be quite variable over short distances and Sub-grade 3A is believed to be the appropriate classification, though it may be conservative in places.

5.3.3 Most of the soils exhibit light topsoil textures (Medium Sandy Loam) overlying heavier upper and lower subsoils of Heavy Clay Loam or Sandy Clay Loam, though occasionally lighter. Subsoil stone contents vary significantly. Pit 1, for example, contains subsoil contents of approximately 30% hard rock, but Pits 3 and 5 are relatively stone-free although nearby borings are again impenetrable to the auger at shallow depths.

5.3.4 Evidence of gleying is often found within 40 cm but the subsoils are not slowly permeable. The soils were very dry throughout the profile at the time of survey and, therefore, it is difficult to estimate the degree of wetness that there may be in the profile within 40 cm at critical times of the season as a result of any groundwater problem. The soils have been placed in Wetness Class II and this is not seen to be an active limitation to the grading of the land.

5.3.5 No detailed information on flooding was available at the time of survey.

5.3.6 Soils in this map unit are at least at the upper range of 3A with soil droughtiness as the main physical limitation. The degree of stoniness in Pit 3 restricts the amount of available water in the profile for extraction by roots. This water restriction limits the range of crops that can tolerate such conditions.

5.4 <u>Sub-grade</u> <u>3B</u>

5.4.1 The majority of the site has been placed in this grade with a mixture of soil wetness and soil droughtiness affecting the final grading.

5.4.2 Pit 2 is typical of the wet soils that are found adjacent to the River Loddon. Heavy Silty Clay Loam topsoils overlie Silty Clay subsoils. The soils are clearly gleyed at shallow depths and the subsoils are slowly permeable, exhibiting Weakly Developed Angular Blocky structures and low within-ped porosity. These characteristics place the soil in Wetness Class IV and this, in combination with the heavy topsoil texture and the prevailing Field Capacity level (138 days) limits the land to Sub-grade 3B.

5.4.3 The wetness limitation reflects itself in a reduction in the range of crops that can tolerate such conditions and also in a restriction on the number of days when the soil is in a suitable condition for cultivation, trafficking by machinery or grazing by livestock.

5.4.4 Pits 4, 6 and 7 are typical of the soils that occur on the land away from the River and which experience a significant droughtiness limitation. Topsoils and subsoils are generally light in texture even with Loamy Coarse Sand and Coarse Sand in places in the lower subsoil. These sandy textures in combination with the high subsoil stone contents (30-50%) significantly restrict the amount of water available in the profile available for crops. As a result, the range of crops is greatly restricted.

5.4.5 Only limited evidence of soil wetness was observed in these profiles. The

soils are placed in Wetness Class I or II but this is not an active limitation on the final grading.

5.6 The areas marked as Non-agricultural include a recreation ground and farm tracks.

ADAS REFERENCE : 0206/133/93 MAFF REFERENCE : EL 20/430

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Resource Planning Team Guildford Statutory Group

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 scale 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.

* British Geological Survey (1946), Sheet No.268, Reading, 1:63,360

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 pit and auger boring information collected during ALC fieldwork is held on a database. This has commonly used notations and abbreviations as set out below.

Boring Header Information

1. GRID REF : national grid square and 8 figure grid reference.

2. USE : Land use at the time of survey. The following abbreviations are used.

WHT : Wheat BAR : Barley CER : Cereals MZE : Maize **OSR** : Oilseed rape ARA : Arable OAT : Oats BEN : Field Beans BRA : Brassicae POT : Potatoes SBT : Sugar Beet FCD : Fodder Crops LIN : Linseed FRT : Soft and Top Fruit HRT : Horticultural Crops PGR : Permanent Pasture LEY : Ley Grass **RGR** : Rough Grazing CFW : Coniferous Woodland DCW : Deciduous Woodland SCR : Scrub HTH : Heathland BOG : Bog or Marsh PLO : Ploughed SAS : Set aside OTH : Other FLW : Fallow

3. GRDNT : Gradient as measured by a hand-held optical clinometer.

4. GLEY/SPL : Depth in cm to gleying or slowly permeable layers.

5. AP (WHEAT/POTS) : Crop-adjusted available water capacity.

6. MB (WHEAT/POTS) : Moisture Balance.

7. DRT : Best grade according to soil droughtiness.

8. If any of the following factors are considered significant, an entry of 'Y' will be entered in the relevant column.

MREL : Microrelief limitation FLOOD : Flood risk EROSN : Soil erosion risk EXP : Exposure limitation FROST : Frost DIST : Disturbed land CHEM : Chemical limitation

9. LIMIT : The main limitation to land quality. The following abbreviations are used.

 OC : Overall Climate
 AE : Aspect
 EX : Exposure
 FR : Frost Risk
 GR : Gradient
 MR : Microrelief

 FL : Flood Risk
 TX : Topsoil Texture
 DP : Soil Depth
 CH : Chemical
 WE : Wetness
 WK : Workability

 DR : Drought
 ER : Soil Erosion Risk
 WD : Combined Soil Wetness/Droughtiness
 ST : Topsoil Stoniness

Soil Pits and Auger Borings

1. TEXTURE : soil texture classes are denoted by the following abbreviations.

 S: Sand
 LS: Loamy Sand
 SL: Sandy Loam
 SZL: Sandy Silt Loam
 CL: Clay Loam
 ZCL: Silty Clay Loam

 SCL: Sandy Clay Loam
 C: Clay
 SC: Sandy Clay
 ZC: Silty Clay
 OL: Organic Loam
 P: Peat
 SP: Sandy Peat

 LP: Loamy Peat
 PL: Peaty Loam
 PS: Peaty Sand
 MZ: Marine Light Silts

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

F : Fine (more than 66% of the sand less than 0.2mm)

M : Medium (less than 66% fine sand and less than 33% coarse sand)

C : Coarse (more than 33% of the sand larger than 0.6mm)

The clay loam and silty clay loam classes will be sub-divided according to the clay content.

M : Medium (<27% clay) H : Heavy (27-35% clay) 2. MOTTLE COL : Mottle colour 3. MOTTLE ABUN : Mottle abundance, expressed as a percentage of the matrix or surface described.

F: faw < 2% C: common 2-20% M: many 20-40 VM: very many 40%+

4. MOTTLE CONT : Mottle contrast

F: faint - indistinct mottles, evident only on close inspection
 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 : One of the following is used.

HR : all hard rocks and stonesMSST : soft, medium or coarse grained sandstoneSI : soft weathered igneous or metamorphicSLST : soft colitic or dolimitic limestoneFSST : soft, fine grained sandstoneZR : soft, argillaceous, or silty rocksCH : chalkGH : gravel with non-porous (hard) stonesGS : 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 soil peds are described using the following notation:

- degree of development WK : weakly developed MD : moderately developed ST : strongly developed

- ped size F : fine M : medium C : coarse VC : very coarse

- <u>ped shape</u> S : single grain M : massive GR : granular AB : angular blocky SAB : sub-angular blocky PR : prismatic PL : platy

8. CONSIST : Soil consistence is described 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 for potatoes MBW : moisture balance, wheat MBP : moisture balance, potatoes

Site Name	e : BERKS.N	INS.PLAN S	ITE 14A	Pit Number	: 1P								
Grid Reference: SU730 664 Average Annual Rainfall : 671 mm Accumulated Temperature : 1468 degree days Field Capacity Level : 138 days Land Use : Permanent Grass Slope and Aspect : degrees													
HORIZON 0- 29	TEXTURE MSL	COLOUR 10YR44 00	STONES >2 4	TOT.STONE 11	MOTTLES	STRUCTURE							
29- 70 70-120	SCL HCL	10YR52 00 10YR52 00	0 0	30 35	с С								
Wetness (Grade : 1		Wetness Clas Gleying SPL	s : II :029 : No	cm SPL								
Drought (Grade : 3A		APW : 115mm APP : 088mm	MBW : MBP : -2	1 mm 1 mm								
FINAL ALC	C GRADE : 3	BA											

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MAIN LIMITATION : Droughtiness

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Site Name : BERKS.M	INS, PLAN S	ITE 14A	Pit Number	: 2P						
Grid Reference: SU	3 /	Average Annu	al Rainfall	: 671 m	m					
		Accumulated	Temperature	: 1468 d	egree days					
	1	Field Capaci	tv Level	: 138 da	vs					
		and Use		: Permanent Grass						
•	:	Slope and As	pect	: degrees						
- HORIZON TEXTURE	COLOUR	STONES >2	TOT. STONE	MOTTLES	STRUCTURE					
0-14 HZCL	10YR41 00	0	0	С						
14~ 60 ZC	10YR51 00	0	0	м	WDAMAB					
60-120 GH	10YR44 00	0	0.							
Notress Conde - 20			T)/							
methess Grade : 30	1	Netness Clas	S : IV							
	l l	aleying	:000 (570 						
	:	SPL	: No 3	SPL						
Drought Grade : 3B	,	APW : 077mm	MBW : -3	7 mm						
1	1	APP : 082mm	MBP : -2	7 mm						

FINAL ALC GRADE : 3B MAIN LIMITATION : Wetness

Site Name	e : BERKS.I	MINS.PLAN SI	ITE 14A	Pit Number	•: 3P								
Grid Reference: SU7285662 Average Annual Rainfall : 671 mm Accumulated Temperature : 1468 degree days Field Capacity Level : 138 days Land Use : Permanent Grass Slope and Aspect : 01 degrees													
HORIZON	TEXTURE	COLOUR	STONES >2	TOT, STONE	MOTTLES	STRUCTURE							
0- 31	MSL	10YR52 00	7	10	С								
31- 66	HCL.	10YR62 00	0	1	С	MDCSAB							
66–120	HCL	05Y 63 00	0	0	С								
Wetness (Grade : 1) (Netness Clas Gleying GPL	s : II :000 : No	cm SPL								
Drought (Grade : 2	ļ	APW : 148mm APP : 110mm	MBW : 3 MBP :	34 mm 1 mm								
FINAL ALC	C GRADE : 2	2											

MAIN LIMITATION : Droughtiness

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Site Name : BERKS.MI	NS. PLAN SI	TE 14A	Pit Number	: 4P	
Grid Reference: SU73	12 670 A A F L S	verage Annua ccumulated ield Capaci and Usø lope and Asj	al Rainfall Temperature ty Level pect	: 671 m : 1468 da : 138 da : Permana : degn	m egree days ys ent Grass rees
HORIZON TEXTURE 0- 29 MSL 29- 48 LMS 48-120 MS	COLOUR 10YR33 00 10YR33 00 10YR54 00	STONES >2 2 0 0	TOT.STONE 5 10 30	MOTTLES	Structure MDMSB MDMSB SG
Wetness Grade : 1	H G S	etness Class leying PL	s : I :000 (: No (cm SPL	
Drought Grade : 3B	A A	PW : 086mm PP : 073mm	MBW : -20 MBP : -30	Brana 5rana	

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FINAL ALC GRADE : 3B

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MAIN LIMITATION : Droughtiness

Site Name	e : BERKS.I	1INS.PLAN SI	TE 14A	Pit Number	: 5P								
Grid Reference: SU736 673 Average Annual Rainfall : 671 mm Accumulated Temperature : 1468 degree days Field Capacity Level : 138 days Land Use : Ley Slope and Aspect : degrees													
	TEXTUDE		STONES . 2	TOT STONE		STOUCTURE							
	MOTI		3101163 >2	101.51002	POTILES	STRUCTURE							
0- 20	MOZL	101854 00	1	1	C C	MUMSB							
20- 66	MZCL	10YR62 00	U	U	C	MDCSAB							
66-110	SCL	10YR63 00	0	0	С	MDMSB							
110-120	MSL	10YR73 00	0	0	С								
Wetness (Grade : 1	W G S	letness Clas Deying PL	s : II :000 :No	cm SPL								
Drought (Grade : 1	A	PW : 177mm PP : 123mm	MBW : 6 MBP : 1	53 mm 14 mm								
FINAL ALC	C GRADE :	1											

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MAIN LIMITATION :

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Site Name : BERKS.MI	NS.PLAN SITE 14A	Pit Number :	6P
Grid Reference: SU73	8 6765 Average A	nnual Rainfall :	671 mm
	Accumulat	ed Temperature :	1468 degree days
	Field Cap	acity Level :	138 days
•	Land Use	:	Ley
_	Slope and	Aspect :	degrees
HORIZON TEXTURE	COLOUR STONES	>2 TOT.STONE M	OTTLES STRUCTURE
0-35 MSL	10YR52 00 1	13	MCSAB
35-61 MSL	10YR53 00 0	32	
61- 72 LCS	10YR54 00 0	35	
72-120 CS	10YR54 00 0	50	
Wetness Grade : 1	Wetness C	lass : I	
	Gleying	:000 cm	
	SPL	: No SPL	_
Drought Grade : 38	APW : 089	nm MBW : −25 m	nn
	APP : 084	nm MBP: −25 n	m

FINAL ALC GRADE : 3B MAIN LIMITATION : Droughtiness

Site Nam	e : BERKS.N	INS.PLAN S	SITE 14A	Pit Number	: 7P								
Grid Reference: SU732 661 Average Annual Rainfall : 671 mm Accumulated Temperature : 1468 degree days Field Capacity Level : 138 days Land Use : Permanent Grass Slope and Aspect : 01 degrees													
HORIZÓN	TEXTURE		STONES >2	TOT STONE	MOTTLES	STRUCTURE							
0- 18	MSI	10VR42 00) 6	13	F	OINCOICAL							
18- 50	MSI	10VR51_00	0	27	Ċ	MSAB							
50- 75	HCL	10YR61 00) 0	10	C	CSAB							
Wetness (Grade : 1		Wetness Clas Gleying SPL	s : II :000 : No	cm SPL								
Drought (Grade : 3B		APW : 083mm APP : 089mm	МВW : -3 МВР : -2	1 mm 0 mm								
FINAL AL	C GRADE : 3	B											

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MAIN LIMITATION : Droughtiness

ogram: ALC012

LIST OF BORINGS HEADERS 13/08/93 BERKS.MINS.PLAN SITE 14A

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AME		ASPECT				WETN	IESS	-Wł	IEAT	-P(ots-		M. REL	EROSN	FROST	CHEM	ALC	
). GRID	REF	USE	GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DR	T FLOOD	EX	P DIST	LIMIT		COMMENTS
																	,	
1 SU737	678	PP		000		1	1	031	-83	031	-78	4				DR	4	STNS-20
1P_SU730	664	PGR		029		2	1	115	1	088	-21	ЗA				DR	3A	
2_SU738	678	LEY		000		1	1	031	-83	031	-78	4				DR	3A	
2 SU	3	PGR		000		4	3 B	077	-37	082	-27	38				WE	38	GH-60
360739	678	PP		040		2	2	108	-6	122	13	за				DR	3A	GH-70
3 55 507285	662	PGR	01	000		2	1	14A	34	110	1	2				DR	2	ı
4 SU740	678	PGR	•••	030	045	3	3A	000	0	000	Ó	-				WE	- 3A	STNS-85
4P SU732	670	PGR		000	• · -	1	1	086	-28	073	-36	3B				DR	38	
5SU741 (678	PGR		000	020	4	3B	000	0	000	0					WE	3B	
5 SU736	673	LEY		000		2	1	177	63	123	14	1				_	1	
6P_SU738 (6765	LEY		000		1	1	089	-25	084	-25	3B				DR	38	k
7 SU737	677	PP		000		1	1	031	-83	031	-78	4				DR	4 `	STNS-20
7 5 50732	661	PGR	01	000		2	1	083	-31	089	-20	3B				DR	38	
8 SU738 (677	LEY		000		1	1	031	-83	031	-78	4				DR	AE	
9 SU739 (677	PGR		040	040	3	3A	109	-5	117	8	34				DR	3A	
10 SU 740	677	PGR		010	030	4	38	000	0	000	0				•	WE	38	
11_SU 7410	677	PGR		025	025	4	38	098	-16	105	-4	ЗA				WE	38	GH-60
12 SU 7420	677	PGR		000	002	4	3B	000	0	000	0					WE	3B .	
13 SU 7370	676	PP		000		1	1	031	-83	031	-78	4				DR	4	STNS-20
14 SU 738	576	LEY		000		1	1	031	-83	031	-78	4				DR	3A	
15 SU 7396	576	PP		000	020	4	3B	000	0	000	0					WE	ЗB	
17 SU 7416	576	PGR		025	025	4	38	000	0	000	0					WE	3B	*
18_SU 7426	576	PGR		000	020	4	3B	000	0	000	0					WE	3B	
20 SU 7376	575	PP		070	070	2	1	106	-8	097	-12	3A				DR	3A	GH85
21 SU73806	575	LEY		000		1	1	031	-83	031	-78	4				DR	3A	
22 SU73906	575	PP		030	030	4	38	000	0	000	0			r		WE	3B	
24 SU741 6	575	PGR		010	010	4	38	000	0	000	0					WE	38 ·	
28 SU736 (574	HAY		035	065	3	2	154	40	118	9	2				WE	2	2-3A
29	574	PP		000		1	1	000	-114	000	-109	4				DR	4	STNS-20
30 SU738 6	574	LEY		000		1	1	039	-75	039	-70	4		•		OR	3A	
34_ SU735 6	573	HAY		030	030	4	3B	131	17	121	12	2				WE	38	GH-100
35 SU73606	573	HAY		035		2	2	105	-9	116	7	ЗA				DR	3A	GH-65
36 0 SU737 6	573	PP		000		1	1	096	-18	102	-7	ЗA				DR	3A	GH-60
40 SU735 6	572	LEY		028 (028	4	38	000	0	000	0					WE	3B	
41 SU736 6	572	LEY		000		1	1	000	0	000	Q					DR	3A	
	:72	00		000		2	^	075	~~	07C	~4	3 0						
42 30737 0 43 SII732 A	772 571	r r' PGR		000		۲ ۱	۲ ۱	075	-39	0/5	-34	34				DR	38	GH-40
	571	PGR		000		1	י 1	000	U A	000	0					50	3A 24	
45 SU734 6	571	PGR		000		1	1	000	0	000	n					עא	94 74	
45A SU734 6	71	LEY		035 (035	4	38	000	a	000	ă						38	
							-		-		-							
46 SU735 6	571	LEY		042 (042	3	3A	000	0	000	0					WE	3A	I.
47 SU736 6	71	PP		000 (020	4	38	000	0	000	0					WE	3B	

program: ALCO12

LIST OF BORINGS HEADERS 13/08/93 BERKS.MINS.PLAN SITE 14A

SAMP	LE		ASPECT				WET	NESS-+	-WH	EAT-	-PC	DTS-	м	I. REL	EROSN	FRC	DST	CHEM	ALC	
NO.	GRID	REF	USE	GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	E	EXP	DIST	LIMIT		COMMENTS
48	SU737	671	PP		000	010	4	3B	000	0	000	0						WE	3B	STNS-95
50	SU733	670	PP		000				000	0	000	0						DR	4	STNS-20
51	SU734	670	PP		000	030	4	3B	108	-6	115	6	3A					WE	3B	STNS-80
52	SU735	670	PP		000		1	1	000	0	000	0						DR	4	STNS-20
53	SU736	670	PP		000	025	4	38	000	D	000	0						WE	38	
54	SU737	670	LEY		000	020	4	3B	000	0	000	0						WE	3B	4
55	SU731	669	PGR		000		1	1	000	0	000	0						DR	3A	
56	SU732	669	PGR		000		1	1	071	-43	071	-38	3B					DR	3B	
57	SU733	669	PP		000		1	1	031	-83	031	-78	4					DR	4	STNS-20
58	SU734	669	PP		030	040	3	3A	090	-24	096	-13	38					DR	38	STNS-60
59	SU735	669	SET		000	018	4	3B	000	0	000	0			`.			WE	3B	4
60	SU736	669	LEY		000	025	4	3B	000	0	000	0						WE	38	4
61	SU737	669	PGR		000		1	1	028	-86	028	-81	4					DR	3A	
63	SU732	668	PGR		000		1	1	000	Ó	000	0						DR	3A	
64	SU733	668	NAG		030	045	3	3A	000	0	000	0						WE	3A	GH-80
65	SU734	668	NAG		065		1	1	110	-4	112	3	34					DR	3A	GH-80
66	SU735	668	SET		000	018	4	3B	000	o	000	0						WE	3B	
67	SU736	668	LEY		000	018	4	3B	000	Ō	000	Ó						WE	3B	GHT 75
69	SU732	667	PGR		000		1	1	000	Ō	000	0						DR	3A	
70	SU733	667	NAG		025	025	4	3B	152	38	114	5	2					WE	3B	
71	SU734	667	PP		020		1	1	061	-53	061	-48	4					DR	4	3A-4STNS
72	SU735	667	PGR		028		2	2	129	15	127	18	2					DR	2	
75	SU733	666	PP		020		1	1	094	-20	099	-10	3B					DR	3B	3A-3B
76	SU734	666	PP		025		1	1	108	-6	109	0	3A					DR	3A	GH-80
77	SU735	666	PGR		045		1	1	097	-17	101	-8	3A					DR	2	
78	SU736	666	PGR		000	025	4	3B	000	0	000	0						WE	3B	
79	SU732	665	PP		040		1	1	085	-29	090	-19	3B					DR	3B	3A-3B
80	SU733	665	PP		000		1	1	105	-9	115	6	ЗА					DR	3A	GH-65
81	SU 9 34	665	PGR		000		1	1	029	-85	029	-80	4					DR	3A	
81A	SU7340)665			000		1	1	160	46	126	17	1					DR	1	
84	SU730	664	PGR		000		1	1	028	-86	028	-81	4					DR	3A	DTA 20
85	SU731	664	PGR		000		1	1	035	-79	035	-74	4					DR	3B	
. 88	SU734	664	PGR		000		1	1	030	-84	030	-79	4					DR	3A	
89	SU735	664	PGR	01	000	020	4	3B	000	0	000	0						WE	3B	
90	SU728	663	ρp	02	025 (040	3	3A	000	0	000	0						WE	3A	
91	SU728	663	PP	01	000		1	1	045	-69	045	-64	4					DR	4	HR-30
92	SU729	663	PP		000		1	1	028	-86	028	-81	4					DR	4	HR-15
93	SU730	663	PP		000		1	1	031	-83	031	-78	4					DR	4	HR-20
98	SU728	663	PP	02	000		1	1	053	-61	053	-56	4					DR	4	
99	SU728	663	PP	01	025 (065	3	3A	132	18	107	-2	2					WE	3A	
100	SU729	662	PGR		035				106	-8	113	4	3A					DR	3A	CHK SPL
101	SU730	662	PP		020	020	4.	3B	108	-6	110	1	3A					WE	3B	CHECKSPL

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LIST OF BORINGS HEADERS 13/08/93 BERKS.MINS.PLAN SITE 14A

AM	Ę		ASPECT				WET	NESS	-WH	EAT-	-PC	TS-	M.	REL	EROSN	FRO	ST	CHEM	ALC	
D.	GRID	REF	USE	GRDNT	GLE	(SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	Ð	(P	DIST	LIMIT		COMMENTS
02	SU731	662	PGR		028	028	4	3B	113	-1	107	-2	за		,			WE	38	
D3	SU732	662	PP		025	025	4	38	000	0	000	0						WE	38	CHK SPL
D4	SU734	662	RGR		025	025	4	3B	000	0	000	0			•			WE	3B	
D5	SU726	661			030		1	1	059	-55	059	-50	4					DR	4	3A-4
DG	SU727	661	PP	01	035		۱	1	059	-55	059	-50	4					DR	4	3A-4STNS
D7	SU728	661	PGR		000		1	1	054	-60	054	-55	4					DR	3A	
08	SU729	661	PGR		000	028	4	3B	113	-1	107	-2	ЗА					WE	38	
09	SU730	661	PGR		000	030	4	38	143	29	113	4	2					WE	3B	GMT 90
10_	_SU731	661	PP		020	020	4	3B	094	-20	100	-9	3A					WE	38	GH-60
11	SU732	661	PP		025	040	3	38	000	0	000	0						WE	38	
12	SU733	661	PGR		038	038	4	3B	000	0	000	0						WE	38	•
13	SU734	661	PGR		055	055	2	2	000	0	000	0						WE	3B	
14	SU727	660	PP	01	000		1	1	000	0	000	0						DR	4	3A-4STNS
16	SU729	660	PGR		000		1	1	036	-78	036	-73	4					DR	3A	1

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				MC	DTTLE	s	PED			S	TONES		STRUCT	/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL #	ABUN	CONT	COL.	GLEY	>2	>6	LITH	тот	CONSIS	Г	STR PO	R IMF	SPL	CALC
— .		_								_								
	0-20	ms i	10YR44 00						U	0	HR	10						
1 P	0-29	msl	10YR44 00						4	0	HR	11						
-	29-70	scl	10YR52 00	75YR58	00 C			Y	0	0	HR	30			M			
	70–120	hc1	10YR52 00	75YR58	00 C			Y	0	0	HR	35			м			
- 2	0-20	ms]	10VR54 00						۵	٥	HR	8						
	U LU		1011104 00						•	•		·						
2 P	0-14	hzcl	10YR41 00	05YR56	00 C			Y	0	0		0						
	14-60	zc	10YR51 00	75YR56	00 M			Y	0	0		0	WDAMAB	FM	Р			
	60-120	gh	10YR44 00					Ŷ	0	0		0			Ρ			
3	0-25	mzcl	10YR44 00						0	0	HR	5						
-	25-40	hzcl	10YR44 00						0	0		0			м			
	40-70	hzcl	10YR53 00	75YR58	00 C			Y	0	0		0			M			
	0-31	ms]	10YR52 00	10YR58	00 C			Y	7	0	HR	10						
	31-66	hcl	10YR62 00	10YR68	00 C			Ý	0	0	HR	1	MDCSAB	FM	м			
	66-120	hcl	05Y 63 00	10YR68	00 C			Ŷ	0	0		Ō			M			
-			•															
4	0-30	mzcl	10YR33 00						0	0	HR	3						
	30-45	hzcl	10YR51 00	75YR58	00 C			Y	0	0	GH	2						
_	45-85	hzc1	10YR51 00	75YR58	00 C			Ŷ	0	0	GH	2					Y	
4P	0-29	msl	10YR33 00						2	0	HR	5	MDMSB	FR				
	29-48	lms	10YR33 00						0	0	HR	10	MDMSB	FR	G			
	48-120	ms	10YR54 00						0	0	GH	30	SG	L	м			
5	0-20	hzcl	10VR51 00	75YR58	00 C			Y	0	0	GH	1						
	20-60	hzcl	10YR51 00	75YR58	00 C			Ý	Ō	0		Ô					Y	
-	60-120	zc	10YR51 00	75YR58	00 C			Ŷ	0	0	GH	2					Ŷ	
5P	0-20	mszl	10YR54 00	75YR58	00 C			Y	1	0	HR	1	MDMSB					
-	20-66	mzcl	10YR62 00	10YR58	00 C			Y	0	0		0	MDCSAB	FM	М			
	66-110	scl	10YR63 00	75YR68	00 C			Y	0	0		0	MDMSB	FR	G			
	110-120	msl	10YR73 00	75YR58	00 C			Y	0	0		0			М			
6P	0-35	msl	10YR52 00						1	0	HR	13	MCSAB	FR	Y			
	35-61	ms1	10YR53 00						0	0	HR	32			M			
_	61-72	lcs	10YR54 00						0	0	HR	35			М			
	72-120	CS	10YR54 00						0	0	HR	50			м			
7	0–20	msl	10YR44 00						0	0	HR	10						
7P	0-18	msl	10YR42 00	75YR58	00 F			Y	6	0	HR	13						
	18-50	กรไ	10YR51 00	75YR58	00 C			Ŷ	Ō	Ō	HR	27	MSAB	FR	G			
_	50-75	hc]	10YR61 00	10YR68	00 C			Ŷ	0	0	HR	10	CSAB	FM	P			

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COMPLETE LIST OF PROFILES 13/08/93 BERKS.MINS.PLAN SITE 14A

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							DED			CTON		CTDI/CT/	20112					
	hedtu	TEVTIDE		<u></u>			m	GLEY	~ ~2	-510M	<u></u> гн тот	CONSIST	STR POR	IMP S	SPI CA	1 C		
	VEFIN	TEATORE	CULUUK	ŴĽ	A0011	watt	ως.		~2			001101101				20		
	0-20	msl	10YR54 00						0	0 HR	8							
<u> </u>	0-20	mszl	10YR54 00						0	0 HR	5							
	20-40	msz 1	10YR54 00	10YR5	3 00 C				0	O HR	5		М				•	
	40-75	hzcl	10YR53 00	10YR5	8 00 C			Y	0	0 HR	5		м		Y			
	0-10	mzcl	10YR33 00						0	0 HR	2							
	10-30	/hzc1	10YR51 00	75YR5	8 00 C			Y	0	0 HR	2							
_	30-120	zc	10YR62 00	75YR5	800C			Y	0	0 GH	3				Y			
	0-25	mzcl	10YR33 00						0	0 GH	2							
-	25-60	hzc1	10YR51 00	75YR5	8 00 C			Y	0	0 GH	2		M		Y			
	0-2	hzcl	10YR51 00	75YR5	8 00 C			Y	0	0	0						1	
	2-120	zc	10YR52 00	75YR5	8 00 C			Y	0	0	0				Y			
	0-20	ms 1	10YR44 00						0	0 HR	10							
14	0~20	msl	10YR54 00						0	0 HR	8					ı	1	
	0-20	hzcl	10YR41 00	75YR5	8 00 C			Ŷ	0	0 HR	1							
	20-60	с	10YR51 00	75YR5	8 00 C			Y	0	0	0				Y			
	60-120	zc	10YR62 00	10YR6	8 00 C			Y	0	0	0				Y			
	0_25	h-ol	107642 00	10705	8 00 E				0	0	0	1						
-	25-120	hzol	107842 00	10705	8 00 H			v	0	ñ	0				v			
-	23-120	1201	101802 00	10185	0 00 14			,	Ů	U	U				r			
	0-20	hzc1	10YR51 00	75YR5	8 00 C			Y	0	0	0	,						
	20-120	zC	10YR52 00	75YR5	8 00 C			Y	0	0	0				¥			
	0-30	ms 1	10YR44 00						0	0 HR	5						·	
	30-55	msl	10YR56 00						0	0 HR	1		M				•	
	55-70	lms	10YR56 00						0	0	0		Μ				,	'
	70-85	hcl	10YR62 00	75YR5	8 00 C			Y	0	0	0		м		Y			
21	020	msl	10YR54 00						0	0 HR	8							
	0-30	hzc1	10YR32 00						0	0 HR	1							
	3075	hzcl	10YR51 00	75YR5	8 00 C			Y	0	0	0				Y			•
_										_	_							
	0-10	hzcl	10YR33 00	-					0	0	0							
	10-40	nzc l	10YR51 00	75YR5	в 00 С			Y	0	0	0				Y			
_	40-120	ZC	10YR62 00	75YR5	8 00 C			Y	0	Q	0				Y		1	
	0-35	msl	10YR33 00						0	0 HR	2							
-	35-65	mzcl	10YR52 00	10YR5	8 00 C			Y	0	0	0		M					
	65-120	hzc1	10YR51 00	75YR58	B 00 C			Y	0	0	0		M		Y			

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						S	PED			-S1	ONES		STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	тот	CONSIST	STR POR	IMP	SPL	CALC
_																	
29	0-20	msl	10YR33 00						0	0	HR	10					
30	0_25	me l	10VP54 00						D	0	HR	A					
30	0-25	ais i	101834 00						Ŭ	Ũ		Ŭ					
34	0-30	hzc1	10YR34 00						0	0	HR	1					
	30-55	hzc]	10YR62 00	10YR6	8 00 C	;		Y	0	0		0		м		Y	
_	55-85	scl	10YR62 00	10YR6	8 OO C)		Y	0	0		0		M		Y	
	85-100	ms	10YR62 00	10YR6	B 00 C	;		Ŷ	0	0		0		M		Y	
	0.05	•	1000000 00						•	•	шр	2					
35	0-35	mzCl	10YR33 00	• 01/05				v	0	0	пк	2		м			
1	35-65	hzc I	104K62 00	UTRO	5 00 0	•		Y	U	U	пк	I		n			
36	0-25	msz1	10YR33 00						0	0	HR	2					
•	25-60	mcl	10YR44 00						0	0	HR	2		м			
40	0-28	hc1	10YR54 00						0	0		0					
•	28-70	hc1	10YR64 00	10YR6	B 00 C	2		Ŷ	0	0		0				Y	
									0	•		^					
41	0-40	msi	104843 00						0	0	uр	10					
	40-60	SCI	104828 00						U	U	пк	10					
42	0-40	hzcl	10YR51 00	75YR5	в 0 0 с	;		Ŷ	0	0	HR	2					
	• • •																
43	0-25	ms 1	10YR53 00						0	0	GH	8					
44	0-25	msl	10YR53 00						0	0	GH	8					
45	0.00	1	101042 00						0	^	сы	Q					
40	0-20	ZCT	101843-00						v	Ŭ	Ca i	Ŭ					
45A	0-35	hc1	10YR42 00						0	0		0					
	35-120	с	10YR62 00	10YR5	8 00 N	1		Ŷ	0	0		0				Y	
46	0-42	mszl	10YR54 00						0	0		0					
	42-90	hc]	10YR56 00	10YR5	8 00 0	;	10YR64 (00 Y	0	0		0				Ŷ	
	90-101	ZZZZ	00ZZ00 00					Ŷ	0	0		0				Ŷ	
- 47	0-20	hzc]	107832 00	75YR5	8 00 F			Y	٥	0		0					
	20-50	hzel	10YR51 00	75YR5	B 00 0	:		Ŷ	Ô	0		0				Y	
	50-100	70	10VR51 00	75YR5	8 00 C	2		Ý	ō	Ō		Ō				Ŷ	
•		20								-		-					
48	0-10	hzc1	10YR32 00	75YR5	B 00 C	;		Y	0	0		0					
	10-95	zc	10YR61 00	75YR5	B 00 0	2		Y	0	0		0				Y	
-		_							-	-		~					
50	0-20	msl	10YR33 00						0	0		U					
51	0_30	hc]	10YR62 00	75YR5	B 00 (2		Y	0	٥	HR	5					
	30-55	hcl	10YR51 00	75YR5	8 00 0	2		Ŷ	0	0	HR	1		м		Y	
	55-80	c	10YR51 00	75YR5	8 00 F			Y	0	0	HR	1		м		Y	

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COMPLETE LIST OF PROFILES 13/08/93 BERKS.MINS.PLAN SITE 14A

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				MOTTL	ES	PED			-STONE	S	STRUCT/	SUBS		•
MPLE	ØEPTH	TEXTURE	COLOUR	COL ABUN	CONT	COL.	GLEY	>2	>6 LI]	гн тот	CONSIST	STR POR	IMP SPL CALC	
5	0-20	msl	10YR33 00					0	0 HR	10				
53	0-25	hzc1	10YR32 00	75YR58 00	с		Y	0	0 HR	1				•
	25-50	hzc]	10YR51 00	75YR58 00	с		Y	0	0	0			Y	
	50-120	zC	10YR62 00	75YR58 00	С		Y	0	0	0			Y	
	0-20	hc1	10YR42 00	10YR58 00	С		Y	0	0	0				
	20-120	zC	10YR62 00	10YR58 00	С		Y	0	0	0			¥	
Ĩ	0-25	msl	10YR53 00					0	0 GH	8				
56	0-40	msl	10YR53 00					0	0 GH	8				
-	40-48	csl	10YR43 00					0	0 GH	45		м		
	0-20	msl	10YR33 00					0	0 HR	10				
	0.20		104033 00					0	<u>∧ ⊔o</u>	2				
	30-30	nns i sel	107833 00	10VP58 00	^		v	n		2	I.	м		`
	40-60	sci bol	10YR51 00	10YR58 00			Y	0	0 HR	2		M ·	Y	•
_	40 00		1011001 00				•	Ŷ	0	-			·	
	0-18	hcl	10YR52 00	10YR58 00	C		Y	0	0	0				
	18-70	zc	10YR61 00	10YR58 00	C		Y	0	0	0			Y	
_	70-120	zC	10YR56 00	10YR61 00	C		Ŷ	0	OHR	8			Y	•
	0.25	ha1	107653 00	104059 00 /	_		v	•	0	0				
	25-120	70	107855 00	107858 00 1			r V	n	0	0	•		v	
_		20	101101 00		5		I	v	v	Ŭ			1	
	0-18	ms1	10YR53 00					0	0 GH	8				
63	0-20	msl	10YR53 00					0	0 GH	20				
	0-30	സി	10YR33 00					0	0 HR	2				
	30-45	hcl	10YR51 00	10YR58 00	C		Y	Ō	0 HR	1				
	45-80	hc1	10YR51 00	10YR58 00	C		Ŷ	0	0 HR	1			Y	
65	0-25	ms]	10YR34 00					٥	0 HR	3				
	25-65	mc]	10YR44 00					0	0 HR	2		м		
	65-80	hc]	10YR51 00	10YR58 00 (5		Y	0	0 HR	5		М		
66	0-18	hc1	10YR42 00	75YR58 00 (2		Y	0	0	0				
	18-55	zc	10YR62 00	10YR58 00 I	1		Y	0	0 HR	5			Y	
	55-120	hc1	10YR61 00	10YR58 00 (2		Y	0	0 HR	5			Y	*.
67	0-18	hcì	10YR42 00	10YR58 00 (2		Y	0	0	0				
	18-75	zc	10YR62 00	10YR68 00 (2		Y	0	0 HR	3			Y	
	75-85	scl	10YR52 00				Y	0	0 HR	30			Y	
	0-20	msl	10YR53 00					0	0 GH	15				ı

program: ALCO11

					MOTTLES	S	PED			-S	TONE	S	STRUCT/	SUBS				
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6	LIT	н тот	CONSIST	STR	POR	IMP	SPL	CALC
0	0.05		1000000 00						~	•	LUN.	F						
/0	0-25	mci	TUYR33 00	10.005					0	0	MR	5						
	25-120	hcl	10YR51 00	107858	8 00 C			Ŷ	0	U	нк	1		м			Ŷ	
_ 71	0-20	msl	10YR34 00						0	0	HR	5						
	20-40	നടി	10YR62 00	10YR58	3 00 C			Y	0	0	HR	5		м				
72	0-28	fszl	10YR54 00						0	0	HR	5						
	28-38	mzcl	10YR53 00	10YR58	3 00 C			Y	0	0	HR	5		М				
	38-80	mzcl	10YR63 00	10YR58	300 C			Y	0	0	GH	5		М				
	80-90	scl	10YR63 00					Y	0	0	GH	50		М				
75	0.00		10/024 00						•	•	сч	E						
/5	0-20	mzc i	101834 00	100000	r				0	0	on ou	5						
	20-40	mzc I		TOTES	3 UU F			Y V	0	0	GH	5		m M				
	40-60	hC i	104851 00	TUYRS	5 00 C			Ŷ	U	U	GH	5		[*]				
76	0-25	ms]	10YR33 00						0	0	HR	2						
	25-55	‴nsl	10YR62 00	10YR58	3 00 C			Ŷ	0	0	HR	3		м				
	55-80	hc1	10YR51 00	10YR58	3 00 C			Y	0	0	HR	2		м				
77	0-45	fs1	10YR54 00						0	0		0						
	45-55	msl	10YR63 00	75YR56	5 00 C			Y	0	0	GH	5		м				
	55–60	scl	10YR54 00					Ŷ	0	0	GH	30		M				
- 70	0_25	haol	107851 00	757050	a nn c			v	0	•		0						
	25 120	1201	107852 00	757050				v	ň	ñ		ň					v	
	25-120	20		751103				•	Ŭ	Ŭ		v					•	
79	0-20	ms 1	10YR33 00						0	0	HR	5						
•	20-40	mcl	10YR44 00						0	0	HR	10		м				
	40-60	hcl	10YR51 00	10YR58	3 00 C			Ŷ	0	0	HR	10		м				
-																		
80	0-30	mzcl	10YR33 00						0	0	HR	1						
	30-65	mzcl	10YR44 00						0	0	HR	1		м				
-		-							~	•		05						
81	0-20	mszi	101843 00						U	U	нк	25						
81A	0-85	fsl	10YR56 00						0	0		0						
	85-95	msl	75YR46 00						Ō	0	GH	40		м				
84	0–20	ms1	10YR43 00						0	0	HR	20						
85	0-25	scl	10YR43 00						0	0	HR	20						
									•	•	A 11							
- 88	0-20	ms I	10YR43 00						U	U	GH	15						
89	0-20	hzc1	10YR51 00	75YR58	3 00 C			Y	0	0	HR	٦						
	20-120	zc	10YR62 00	75YR58	3 00 C			Y	0	0		0					Y	
-		-							-	-		-						
90	0-25	msl	10YR34 00						0	0	HR	5						
	25-40	msl	10YR51 00	10YR58	3 00 C			Ŷ	0	0	HR	2						
_	40-120	hzcl	10YR51 00	10YR58	3 00 C			Y	0	0		0					Y	

og. zn: ALCO11

COMPLETE LIST OF PROFILES 13/08/93 BERKS, MINS, PLAN SITE 14A

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				M	TTI FS		PED			-stor	NES	STRUCT/	SUBS			
MPLE	DEPTH	TEXTURE	COLOUR	COLA	BUN	CONT	COL.	GLEY	>2	>6 L	тн тот	CONSIST	STR PC	R IMP	SPL CALC	
9	0-30	msl	10YR44 00						5	0 HI	R 12					
92	0-20	ms 1	10YR44 00						0	о ні	R 20					
9	0-20	ms l	10YR44 00						0	0 н	R 10					
ç	0-35	msl	10YR34 00						0	о н	R 12					
99	0-25 1	msl	10YR44 00						0	ОН	R 5				•	۰,
	25-65	scl	10YR51 00	10YR58	00 C			Y	0	0 HI	२ 2		м.			
	65-95	hcl	10YR51 00	10YR58	00 C			Ý	0	0	0		M		4N	
	95-120	ms	10YR51 00	10YR58	00 C			Y	0	0	0		M		Y	
10	0-35	fsz]	10YR43 00						0	0 G	+ 10					I I
	35-55	mszl	10YR62 00	10YR58	00 C			Y	0	ОН	R 10		м			
_	55-65	scl	10YR52 00			٣		Ŷ	0	0 HI	R 20		M			
10	0-20	ms]	10YR44 00						0	0 Gł	1 5	•				
	20-80	hc1	10YR51 00	10YR58	00 C			Y	0	0 HI	х 3		M.		Y	
10	0-28	scl	10YR43 00	10YR58	00 F				0	оня	2 8	I.				
	28-40	hzc1	10YR53 00	10YR56	00 C			Ŷ	0	0	0		м		Y	
	40-85	zc	10YR62 00	10YR68	00 M			Y	0	ОН	۶ ۲		м		Y	
	85-95	hzcl	10YR63 00	10YR68	00 M			Y	0	0 Gł	1 _. 30	ı	M		Y	
103	0-25	ms]	10YR43 00						0	0 Gł	1 10					
_	25-110	scl	10YR62 00	10YR58	00 M			Y	0	0 Gł	i 5				Y	
	110-120	szl	10YR61 00					Y	0	0 GI	1 20				Y	
104	0-25	hzc1	10YR33 00						0	о ни	2					
	25-65	hzcl	10YR51 00	75YR58	00 C			Y	0	0 HF	۲ ۱				Y	
105	0-30	msl	10YR33 00						0	0 ня	₹ 12					
	30-40	ms 1	10YR51 00	10YR58	00 C			Y	0	0 HF	12		м			
105	0-35	msl	10YR33 00						0	0 ня	12					
	35-40	ms Ì	10YR51 00	10YR58	00 C			Y	0	0 HF	12		м			•
10	0-22	msz1	10YR42 00	10YR58	00 F	•			0	0 ня	8					
-	22-35	sc)	10YR54 00	10YR58	00 C				0	0 ня	25		м			
10	0-28	mzcl	10YR53 00	10YR58	00 C			Y	0	0 GH	1 8					
-	28~65	zc	25Y 53 00	10YR58	00 C			Y	0	0 Gł	1 10		М		Y	
_	65-85	scl	25Y 66 00	25Y 68	00 C			Y	0	0 GH	1 12		м		Y	
	85~90	msl	25Y 72 00					Y	0	0 Gł	20		M		Y	,
109	0-30	hzc1	10YR52 00	75YR56	00 M			Y	0	0 HR	2					
	30-60	zc	75YR61 00	10YR56	00 C			Ŷ	0	O HR	5		м		Ŷ	
	60-70	hzc]	10YR61 00		_			Ŷ	0	0 HR	18		M		Ŷ	
	70-90	msl	10YR72 00					Ŷ	0	0 64	30		M		Ŷ	
-	90~120	csl	10YR53 00					Ŷ	0	0 GH	20		M		Ŷ	
												•				

program: ALCO11

				M	OTTLES		PED			-51	TONES		STRUCT/	SUBS					
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR P	DR IM	IP SPL	CALC		
110	0-20	hzcl	10YR34 00						0	0	HR	2							
	20-60	hc1	10YR51 00	10YR58	00 C			Y	0	0	HR	2		м		Y			
111	0-25	hzcl	10YR33 00						0	0		0							
	25-40	hc1	10YR51 00	10YR58	00 F			Y	0	0		0							
	40-120	hcl	10YR62 00	75YR58	00 C			Y	0	0	HR	1				Y			
112	0-38	hzcl	10YR43 00						0	0	HR	5							
	38-85	hc1	10YR61 00	10YR56	00 M			Y	0	0		0				Y			
_	85-95	zC	10YR62 00					Y	0	0	GH	25				Y			
113	0-35	mzcl	10YR43 00						0	0	GH	10							
	35-55	zc	10YR42 00	10YR58	00 F				0	0	HR	5							
	55-120	ZC	10YR53 00	10YR58	00 C			Y	0	0		0				Y			
114	0-30	mszl	10YR33 00						0	0	HR	12							
116	0-25	mszl	10YR53 00						0	0	HR	25							
43	0-120	ch							0	0		0		ρ			Y	Rooting	to 120

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