

AGRICULTURAL LAND CLASSIFICATION

ALCBO1589

Wheal Busy, Chacewater, Cornwall
(15/89) 8FCS 3212

SOIL PROFILE DESCRIPTION

Date of Survey 15-23/8/89

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
13	MCL/MSZL	10YR53	0-59 I	Weathered sandstone from 50/55-58/9	
14	MSZL	10YR43	0-37 I		
15	MCL	10YR52	0-28 I	(x 2)	
16	MCL	10YR53	0-23 I	(x 2 <30 cm)	
17	MCL/MSZL	10YR52	0-21 I	(x 2 <30 cm)	
18	MSZL	10YR52	0-22 I		
19	MCL	10YR33	0-32 I	cd (21, 32 cm)	
20	MCL	10YR33	0-31 I		
21	MCL	10YR43	0-20 I		
22	MCL	10YR54	0-20 I		
23	MCL	10YR54	0-21 I		
24	MCL	10YR54	0-26 I		
25	MCL	10YR43	0-25		
	MCL	10YR56	25-40		

Data for ASP 1-12 missing

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
26	MCL	10YR43	0-28		
			I		
27	MCL	10YR54	0-21		
			I	(x 3 <30 cm)	
28	MCL	10YR 52	0- 42		
			I		
29	MCL	10YR42	0-33		
			I	(x 2)	
30	MCL	10YR33	0-25	5% hard stone	
	C	2.5Y64	25-40	strong weathering colours (not wet?)	
	C	2.5Y74	40-58		
			I		
31	MCL	10YR43	0-25	5% hard stone >2 cm	
	C	7.5YR46	25-42		
			I	(35, 42 cm)	
32	MCL	10YR33	0-27		
	C	7.5YR46	27-38		
			I		
33	MCL	10YR43	0-42		
			I		
34	MCL	10YR43	0-35		
	HCL	10YR43	35-45		
			I		
35	MCL	10YR42	0-35		
	HCL	10YR33	35-55		
	C	10YR33	55-63		
			I		

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
36	MCL	10YR43	0-25		
	C	10YR64	25-30		
			I	(30, 25, 22 cm)	
37	MCL	10YR54	0-22		
			I	(22, 20, 20 cm)	
38	MCL	10YR33	0-25		
			I	(x 2)	
39	MCL	10YR53	0-45		
			I	(45, 38 cm)	
40	MCL	10YR43	0-40		
	HCL	10YR53	40-62		
			I		
41	MZCL	10YR33	0-30		
	ZC	2.5Y64	30-39		
			I		
42	MCL	10YR43	0-28		
			I	(x 2 < 30 cm)	
43	MZCL	10YR33	0-27		
			I	(x 2 < 30 cm)	

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
44	MCL	10YR43	0-45		
	C	2.5Y64	45-50	strong weathering colours	
			I		
45	MCL	10YR43	0-30		
			I	(25 cm x 2)	
46	MCL	10YR53	0-35	cdom	
	HCL	10YR52/62	35-50	cdom, Mn; clay from 45 cm	
			I	(2nd = Imp at 45 cm); no SPL; WC III	
47	MZCL	10YR53	0-25		
	C	2.5Y64	25-39	strong weathering colours; 7.5YR64	
			I		
48	HCL	10YR42/52	0-25	cdom	
	HCL	10YR52	25-35		
	C	5Y62	35-38		
			I		
49	HCL	10YR52	0-31	cdom	
			I	(28 cm)	
50	MCL	10YR43	0-40		
	C	10YR42	40-75	cdom	
	C	2.5Y64	75-80+	weathering or mottles? WC III	
51	HCL	10YR53	0-25		
	SC	2.5Y62	25-35		
	C	10YR73	35-41	cdom and weathering colours; WC III	
			I		
52	MCL	10YR53	0-20		
			I	(x 3)	
53	HCL	10YR43	0-20	10-15% st >2 cm	8° slope
					Disturbed

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
54	M/HCL	10YR42	0-25		
	C	2.5Y62	25-32	mottles or weathering?	
			I	(31 cm)	
55	MZCL	10YR42	0-41		
			I		
56	MCL	10YR42	0-25		
	C	10YR63/62	25-42	no evident mottling; WC I	
			I		
57	MCL	10YR52	0-22		
			I	(x 2)	
58	M/HCL	10YR42	0-20	cdom	
	HCL	10YR52	20-38	cdom	
	C	2.5Y64	38-52	mottles or weathering?	
			I	no evident SPL; WC III	
59	MCL	10YR42	0-35		
	C	5Y73	35-44	possible mottles; WC III	
			I		
60	MZCL	10YR53	0-30	cfom	Sl variable
	HCL/C	10YR54/64	30-58	weathering colours	microrelief
			I		
61	HCL	10YR42	0-39		
			I		
62	HCL	10YR43	0-35		
	C	2.5Y64	35-42	mottles or weathering?	
			I		
63	HCL	10YR53	0-22	cdom	
			I	(20 cm)	

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
64	HCL	10YR53	0-28		
			I	(x 2)	
65	MCL	10YR43	0-31	clay from 28 cm	5° Slope
			I	(25 cm)	
66	HCL	10YR43	0-23	fdom	
			I	(x 2)	
67	HCL	10YR53	0-22	possible mottling	
			I	(x 2)	
68	M/HCL	10YR44	0-23	cdom	
			I	(x 2)	
69	MCL	10YR53	0-22		
			I	(x 2)	
70	MCL	10YR43	0-35		
			I		
71	HCL	10YR44	0-30		7½° slope
	HCL/C	7.5YR56/46	30-39	possible mottles	
			I		
72	OZL/OZCL	10YR52	0-45	wet and mottled	
	ZC	"	45-60+	wet and o + g mottles WC V/VI	
73	MCL	10YR43	0-40		
			I	(25 cm)	
74	MZCL	10YR52	0-35	cdom	close to area of
	M/HZCL	10YR31	35-48	cdom; WC III	complex microrelief
			I		
75	MZCL	10YR43	0-39		
			I	(25 cm)	

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
76	HCL	10YR54	0-20		10° slope
			I	(x 2)	
77	HCL	10YR54/44	0-22		6° slope
			I	(x 2)	
78	HCL	10YR43	0-20		Poss. Exposure on this crest site
			I	(x 2)	
79	HCL	10YR44	0-21		
			I	(2 x 20 cm)	
80	HCL	10YR44	0-22		9° slope
			I		
81	MZCL	10YR43	0-25		6° slope
			I	(22 cm)	
82	MCL	10YR44	0-21		
			I	(x 3)	
83	MCL	10YR43/44	0-22		Poss Exposure
			I	(x 3)	
84	MCL	10YR54	0-22		
			I	(x 3)	
85	MCL	10YR54	0-40		
			I		
86	M/HCL	10YR53	0-22		6° slope
			I	(x 3)	
87	HCL	10YR56	0-32		7½° slope
			I		
88	MCL	10YR44	0-29		Poss. Exposure
			I	(22 cm)	

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
89	MZCL	10YR54/44	0-40		
	MZCL	10YR43	40-45	cdom	
	HCL	10YR42	45-59		
			I	WC III	
90	MZCL	10YR54	0-35		Poss. Exposure
			I		
91	HCL	10YR54	0-20		
			I	(x 2)	
92	MZCL	10YR54	0-22		
			I	(x 3)	
93	MZCL	10YR54	0-35	cdom (HCL from 30 cm; 10YR54/64)	Poss. Exposure
			I		
94	HCL	10YR46	0-22	cdom	Exposed
			I	(20, 20, 21 cm)	
95	MZCL	10YR54	0-22		Exposed
			I	(x 2)	
96	MZCL	10YR54	0-22		Exposed
			I	(x 2)	
97	MZCL	10YR44	0-22		Exposed
			I	(22, 20 cm)	
98	MZCL	10YR54	0-30		Exposed
			I	(29, 20 cm)	
99	HZCL	10YR54	0-22		
			I	(x 2)	
100	MZCL	10YR54	0-20		
			I	(10, 10 cm)	

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
101	HZCL	10YR43	0-25	10% st >2 cm, slate	Exposed
	HCL/C	7.5YR44	25-41		
			I		
102	HCL	10YR53	0-30		Exposed
	C	7.5YR56	30-38		
			I		
103	HCL	10YR44	0-30		Exposed
			I	(25 cm)	
104	MZCL	10YR43	0-25	cdom	Exposed
	C	7.5YR56/46	25-38		
			I		
105	MZCL	10YR53	0-28		Exposed
	C	10YR56	28-40		
			I		
106	MZCL	10YR53	0-25		
	C	2.5Y64	25-40	cdom; Clay is possible SPL (35 cm); WC IV	
107	MCL	10YR54	0-22		
			I	(x 3) too stony to penetrate	
108	MZCL	10YR54	0-20		
			I	(x 2)	
109	HCL	10YR44	0-20		Exposed
	C	7.5YR54	20-34		
			I	(25 cm)	
110	M/HCL	10YR53	0-20	cdom	Exposed
			I	(x 2)	
111	HCL	10YR53	0-33	cdom	Exposed
			I	(30 cm)	

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
112	HCL	10YR53	0-25	cdom	Exposed
			I	(x 2)	
113	HCL	10YR53	0-30	cdom	Exposed
			I	(20 cm)	
114	HCL	10YR54	0-20		Exposed
			I	(x 2)	
115	HCL	10YR54	0-20		Exposed
			I	(x 2)	
116	HCL	10YR56	0-20		Exposed
			I	(x 2)	
117	MZCL	10YR54	0-25		Exposed
			I	(x 2)	
118	MZCL	10YR54	0-25		Exposed
			I	(20 cm)	
119	MZCL	10YR53	0-28		Exposed
			I	(x 2)	
120	M/HZCL	10YR54	0-25		Exposed
			I	(20 cm)	
121	HZCL	10YR44	0-28		Exposed
			I	(25 cm)	
122	HCL	10YR54	0-25		Exposed
			I		
123	HCL	10YR54	0-28		Exposed
			I		
124	HCL	10YR54	0-25	cdom	Exposed
			I		

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125	HCL	10YR54	0-22		Exposed
			I		
126	HCL	10YR54	0-30		6½° slope
			I		Exposed
127	HZCL	10YR54	0-31		6° Slope
			I		Exposed
128	HCL	10YR64	0-22		Exposed
			I	(20 cm)	
129	HZCL	10YR64	0-31		Exposed
			I		
130	HZCL	10YR44	0-22		Exposed
			I	(x 2)	
131	HZCL	10YR54	0-22		Exposed
			I	(x 2)	
132	MZCL	10YR53	0-30		Exposed
			I	(20, 20 cm)	
133	MZCL	10YR54	0-32		
			I	(not stony)	
134	HZCL	10YR54	0-25		Slight exposure
	C	7.5YR56	25-33	no evidence of wetness; not stony	
			I		
135	HZCL	10YR44	0-22	cdom	Slight exposure
			I	(x 2)	
136	HZCL	10YR44	0-20	cdom	
	HZCL/C	7.5YR56	20-42	wethering colours	
			I	(32 cm)	

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137	HCL	10YR53	0-30	cdom	Slight exposure
	C	2.5Y64	30-50	cdom; no SPL	
			I	WC III	
138	HCL	10YR53	0-44	clay at tip; cdom; no SPL	Exposed
			I	WC III	
139	HCL	10YR53	0-40	cdom	Slight exposure
	C	2.5Y64	40-46	cdom; no SPL	
			I	WC III	
140	HCL	10YR53	0-25		Slight exposure
			I		
141	HCL	10YR54	0-30	cdom	
			I	(25 cm)	
142	HCL	10YR53	0-20	cdom	
			I	(x 2) WC III	
143	M/HZCL	10YR53	0-40		
			I		
144	MZCL	10YR53	0-20		
	C	2.5Y64	20-30	cdom	
			I	(20 cm) WC III	
145	HZCL	10YR53	0-20		Slight exposure
			I	(x 3)	
146	HZCL	10YR53	0-20	cdom	slight exposure
			I	(x 2)	
147	M/HZCL	10YR54	0-20		
			I	(x 2)	
148	MZCL	10YR43/53	0-30		Slightly exposed
	HZCL	10YR53	30-50		

I

possible mottling at base.

