Project Name: QUA

Project Code: QUA Site ID: H25 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: J.K. Taylor Locality: 8.5km NNE of Bracknell and 2.0km ENE of Oaks

station:

 Date Desc.:
 21/01/52
 Elevation:
 165 metres

 Map Ref.:
 Sheet No.: 8214
 1:100000
 Rainfall:
 700

 Northing/Long.:
 147
 Runoff:
 Slow

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Auger boring, 3.4 m deep, Unconsolidated

material (unidentified)

Land Form

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Terrace (alluvial)Morph. Type:FlatRelief:No DataElem. Type:PlainSlope Category:LevelSlope:0 %Aspect:0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEutrophic Sodosolic Redoxic HydrosolPrincipal Profile Form:Dy3.41

ASC Confidence: Great Soil Group: Gleyed podzolic

Analytical data are incomplete but reasonable confidence. soil

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.15 m	Pale brown (10YR6/3-Dry); ; Loam; Massive grade of structure; Dry; Loose consistence; Non-plastic; 2-10%, Gravel, coarse fragments; Sharp, Irregular change to -
A2	0.18 - 0.36 m	Light grey (10YR7/2-Dry); ; Fine sandy loam; Massive grade of structure; Dry; Weak consistence; Non-plastic; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations; Diffuse change to -
В	0.36 - 0.38 m	Grey (10YR6/1-Moist); ; Clay loam; Massive grade of structure; Non-plastic; 10-20%, Gravel, coarse fragments; Diffuse change to -
	0.38 - 0.51 m	Olive grey (5Y5/2-Moist); , 10YR56; Heavy clay; Weak grade of structure, Prismatic; Very weak consistence; Non-plastic; Diffuse change to -
	0.51 - 0.71 m	Olive grey (5Y5/2-Moist); , 10YR56; Heavy clay; Massive grade of structure; Moderately plastic; Normal plasticity; Diffuse change to -
	0.76 - 0.96 m	Yellowish brown (10YR5/6-Moist); , 5Y62; , 2.5YR48; Heavy clay; Massive grade of structure; Moderately plastic; Normal plasticity; Diffuse change to -
	0.96 - 1.22 m	Light bluish grey (5B7/1-Moist); , N50; , 10YR56; Heavy clay; Massive grade of structure; Very plastic; Normal plasticity; Diffuse change to -
	1.68 - 1.83 m	Yellowish brown (10YR5/6-Moist); , 5B61; Heavy clay; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
2	2.39 - 2.44 m	Brownish yellow (10YR6/8-Moist); , 5B61; , 2.5YR44; Heavy clay; Very plastic; Normal plasticity; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

38-71CM BL FINE INCLUSIONS (PROBABLY W`D GRAVEL) ALSO:76-122CM SLIGHTLYGLEYED TO GLEYED:BRUMBY SERIES:

Site Notes

WESTMORLAND

Project Name: QUA
Project Code: QUA Site ID: H2:
Agency Name: CSIRO Division of Soils (TAS) H25 Observation ID: 1

Observation ID: 1

Project Name: QUA
Project Code: QUA Site ID: H25
Agency Name: CSIRO Division of Soils (TAS)

Laboratory Test Results:												
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ı	ECEC	ı	ESP
m		dS/m				Cmol (+)/kg					%
0 - 0.15	5.7A		2.3B	0.82	0.23	0.12	4.2H 7.3E			10.7B		
0.18 - 0.36	6.4A		1.9B	8.0	0.07	0.13	1H 1.3E		•	4.21B		
0.36 - 0.38	6.5A											
0.38 - 0.51	6A											
0.51 - 0.71	5.7A		4.1B	10.8 0.35		1.28	8.2H 14.9E		31.4B			
0.76 - 0.96	5.5A											
0.96 - 1.22	5.4A		1.7B	9.3	0.25	1.85	12.7H 16.3E		29.5B			
1.68 - 1.83	4.9A											
2.39 - 2.44	4.9A											
Depth	CaCO3	Organic C	Avail. P			Pa GV	rticle CS	Size A FS	nalysis Silt			
m	%	%	mg/kg	%	%	%	Mg/m3	٥,	00	%	Oiit	Olay
0 - 0.15		1.1F 1.51A		0.018	A 0.10)2A		3	3B	56	25	15
0.18 - 0.36		0.2F 0.29A	0.29A					38	5B	55	26	14
0.36 - 0.38		0.27F 0.35A	0.042A									
0.38 - 0.51								_				
0.51 - 0.71				0.007	4			0	1B	16	18	65
0.76 - 0.96								0	ΩD	4.5	00	
0.96 - 1.22								0	2B	15	26	55
1.68 - 1.83 2.39 - 2.44												
Depth	COLE	Sat.	Grav 0.05 Bar		metric/Volumetric W			15 Bar	K sat		K unsat	
m		out.	0.00 Bui		g - m3/m	1 Bar 3	o Bui	o Dai	mm/	h	mm/h	
0 - 0.15												
0.18 - 0.36												
0.36 - 0.38												
0.38 - 0.51												
0.51 - 0.71												
0.76 - 0.96												
0.96 - 1.22												
1.68 - 1.83 2.39 - 2.44												
2.00 - 2.44												

QUA **Project Name:**

Project Code: QUA H25 Observation ID: 1 Site ID:

CSIRO Division of Soils (TAS) Agency Name:

Laboratory Analyses Completed for this profile

15A2_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for

soluble salts

15A2_K Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2_MG Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2_NA Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15G_C_H1 Exchangeable hydrogen - med per 100g of soil - Hydrogen By back titration of A or B Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 15G1_H Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) 15J_H

2_LOI Loss on Ignition (%) 2A1 Air-dry moisture content 4A1 pH of 1:5 soil/water suspension

5A2 Chloride - 1:5 soil/water extract, automated colour

6_DC Organic carbon (%) - Dry combustion 6A1 Organic carbon - Walkley and Black

Total nitrogen - semimicro Kjeldahl, automated colour 7A2

9A1 Total phosphorus - X-ray fluorescence

Gravel (%) Clay (%) - Pipette P10_GRAV P10A1_C P10A1_CS Coarse sand (%) - Pipette

Fine sand (%) - Pipette P10A1_FS P10A1_Z Silt (%) - Pipette

Chloritized 2:1 minerals - X-Ray Diffraction

XRD_C_Ch2 XRD_C_Gt Geothite - X-Ray Diffraction XRD_C_II Illite - X-Ray Diffraction XRD_C_Ka XRD_C_Qz Kaolin - X-Ray Diffraction Quartz - X-Ray Diffraction