Project Name: GH
Project Code: GH **Site ID:** CP8 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: J. Loveday
Date Desc.: 03/10/68
Map Ref.: Sheet No. : 7929 1:100000
Northing/Long.: 145.75
Easting/Lat.: -34.3
Locality: Slightly south of C.P.7
Elevation: 120 metres
Rainfall: 400
Runoff: Very slow
Drainage: Imperfectly drained

Geology

ExposureType: Undisturbed soil core
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Slightly porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: <1 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
Aspect: 225 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Epihypersodic Massive Grey Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.24
Great Soil Group: Grey clay

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - , , Isolated plants. *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.04 m	Greyish brown (10YR5/2-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Weak consistence; Field pH 6.2 (pH meter); Sharp change to -
0.04 - 0.1 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Field pH 6.5 (pH meter);
0.1 - 0.2 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.2 - 0.3 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 7.7 (pH meter);
0.3 - 0.4 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.1 (pH meter);
0.4 - 0.5 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.2 (pH meter);
0.5 - 0.6 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.6 - 0.7 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8 (pH meter);
0.7 - 0.8 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.8 - 0.9 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 7.9 (pH meter);

Morphological Notes

Observation Notes

ALLUVIUM LAYERS RE NUMBERED 21/10/92

Site Notes

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WARRAWIDGEE

Project Name: GH
Project Code: GH **Site ID:** CP8 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.04	6.2A	0.18A	5.6K	4.3	2	0.55		20.5J		2.68
0 - 0.1	6.3A	0.24A	9K	8.5	1.9	1.4	6D	26.8J		5.22
0.04 - 0.1	6.5A	0.22A	8.5K	7.3	1.8	1.6		27.1J		5.90
0.2 - 0.3	7.7A	0.35A	14.7K	13.3	1.4	4		38.2J		10.47
0.3 - 0.4	8.1A	0.46A	13K	15	1.3	5.3		38J		13.95
0.4 - 0.5	8.2A	0.63A								
0.6 - 0.7	8A	1.14A								
0.8 - 0.9	7.9A	1.52A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04	0A	1.61D	30A						8D	35	20	36
0 - 0.1		1.1D	22.1A						12D	32	12	44
0.04 - 0.1	0A	0.91D	12A						6D	24	16	53
0.2 - 0.3	0A		4A									
0.3 - 0.4	0A											
0.4 - 0.5			4A									
0.6 - 0.7			12A									
0.8 - 0.9			16A									

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.04									
0 - 0.1									
0.04 - 0.1									
0.2 - 0.3									
0.3 - 0.4									
0.4 - 0.5									
0.6 - 0.7									
0.8 - 0.9									

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
19A1	Carbonates - rapid titration
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance