Project Name: GH

Project Code: GH Site ID: CP20 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: J. Loveday Locality: 3.2KM E. up road to Morundah from Coleambally

Canal

 Date Desc.:
 29/10/68
 Elevation:
 120 metres

 Map Ref.:
 Sheet No.: 8128
 1:100000
 Rainfall:
 410

 Northing/Long.:
 146.116666666667
 Runoff:
 Very slow

Easting/Lat.: -34.8 Drainage: Imperfectly drained

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Slightly porous, Unconsolidated material

(unidentified)

Land Form

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:PlainSlope Category:LevelSlope:<1 %</th>Aspect:0 degrees

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEpicalcareous-Endohypersodic Self-Mulching Grey VertosolPrincipal Profile Form:Ug5.28

ASC Confidence: Great Soil Group: Grey clay

All necessary analytical data are available.

<u>Site Disturbance:</u> Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Sod grass, , Closed or dense. *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology 0 - 0.1 m

0 - 0.1 111	coarse, (50 - 100) mm crack; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Diffuse change to -
0.1 - 0.2 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; 20-50 mm, Angular blocky; Extremely coarse, (50 - 100) mm crack; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.2 - 0.3 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; 20-50 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.3 - 0.4 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.4 - 0.5 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
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;
0.7 - 0.8 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.8 - 0.9 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.9 - 1 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;

Dark greyish brown (2.5Y4/2-Moist); Medium heavy clay; 10-20 mm, Angular blocky; Extremely

Morphological Notes

Observation Notes

ALLUVIUM ON PARNA WUNNAMURRA CLAY

Project Name: Project Code: Agency Name: GH

GH Site ID: CP20 CSIRO Division of Soils (NSW) Observation ID: 1

Site Notes COLEAMBALLY Project Name: Project Code: Agency Name: GH

GH Site ID: CP20 CSIRO Division of Soils (NSW) Observation ID: 1

Laboratory	y Test Results:

Laboratory			-	l. l .	0-4:	_		050		F0F0		-00
Depth	pН	1:5 EC		hangeable Mg	K	Na E	xchangeable Acidity	CEC		ECEC		ESP
m		dS/m	ou .	9		Cmol (+)						%
0 - 0.1	7.7A 7.6A	0.06A 0.06A	25.5K 20K	8.6 10	1.3 1.1	0.54 0.5	2.2D	38.2 33.8J				.41 .48
0 - 0.1	7.7A 7.6A	0.06A 0.06A	25.5K 20K	8.6 10	1.3 1.1	0.54 0.5	2.2D	38.2 33.8J	J		1	.41 .48
0.2 - 0.3	8.3A	0.1A	24.9K	10	1	1.4		38.8				3.61
0.3 - 0.4	8.5A	0.11A	23K	12	1.2	2.5		37J			6	5.76
0.4 - 0.5	8.4A	0.16A										
0.6 - 0.7	8.1A	0.22A										
0.8 - 0.9	8.3A	0.32A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size A	Analysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	•		%	•	 ,
0 - 0.1	0A	0.6D 0.64D	3.2A 3.6A						5D 6D	23 23	11 8	60 63
0 - 0.1	0A	0.6D	3.2A						5D	23	11	60
0 0.1	0/1	0.64D	3.6A						6D	23	8	63
0.2 - 0.3	0.23A		1.6A						-	_0	Ū	00
0.3 - 0.4	0.26A											
0.4 - 0.5			1A									
0.6 - 0.7			1.5A									
0.8 - 0.9			2A									
Depth COLE Gravimetric/Volumetric Water Contents K sat									K unsa	t		
-		Sat.	0.05 Bar	0.1 Bar 0.5 Bar		1 Bar 5 Bar 15	5 Bar 15	Bar .				
m				g/s	g - m3/m3	3			mm	/h	mm/h	
0 - 0.1												
0 - 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 - meg per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded 15_NR_MG 15_NR_NA Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

19A1 Carbonates - rapid titration Air-dry moisture content 2A1 EC of 1:5 soil/water extract 3A1 4A1 pH of 1:5 soil/water suspension

5A2

Chloride - 1:5 soil/water extract, automated colour Organic carbon (%) - Uncorrected Walkley and Black method 6A1_UC 9B_9C Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable

P10_PB_C Clay (%) - Plummet balance P10_PB_CS P10_PB_FS Coarse sand (%) - Plummet balance Fine sand (%) - Plummet balance P10_PB_Z Silt (%) - Plummet balance