Project Name: CAN
Project Code: CAN **Site ID:** CP101 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	**Locality:**	Lake Wyangan 4.6KM 200 degrees from Lake Head
Date Desc.:	11/10/78	**Elevation:**	115 metres
Map Ref.:	Sheet No. : 8129 1:100000	**Rainfall:**	390
Northing/Long.:	146.016666666667	**Runoff:**	Slow
Easting/Lat.:	-34.1666666666667	**Drainage:**	Rapidly drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Sand plain
Morph. Type:	Simple-slope	**Relief:**	No Data
Elem. Type:	Bench	**Slope Category:**	Gently inclined
Slope:	2 %	**Aspect:**	200 degrees

Surface Soil Condition (dry): Surface crust, Soft

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Supracalcic Red Dermosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gn2.13
Great Soil Group: Red calcareous soil

Site Disturbance: Cultivation. Rainfed

Vegetation:
Tall Strata - Tree, , Sparse. *Species includes - Eucalyptus species, Unknown species

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Sandy loam (Heavy); Weak grade of structure, Granular; Very weak consistence; Field pH 8.4 (pH meter); Few, coarse (>5mm) roots; Gradual change to -
0.1 - 0.2 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Weak consistence; Field pH 8.7 (pH meter); Few, coarse (>5mm) roots;
0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Weak consistence; Field pH 8.8 (pH meter); Few, coarse (>5mm) roots;
0.3 - 0.4 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Weak consistence; Field pH 8.8 (pH meter); Few, coarse (>5mm) roots;
0.4 - 0.5 m	Red (2.5YR4/6-Moist); ; Light clay; Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter); Few, coarse (>5mm) roots; Clear change to -
0.5 - 0.6 m	Red (2.5YR4/8-Moist); ; Sandy light clay; Weak grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.3 (pH meter); Few, coarse (>5mm) roots;
0.6 - 0.7 m	Red (2.5YR4/8-Moist); ; Sandy light clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.4 (pH meter);
0.7 - 0.8 m	Red (2.5YR4/8-Moist); ; Sandy light clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.4 (pH meter);
0.8 - 0.9 m	Red (2.5YR4/8-Moist); ; Sandy light clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.4 (pH meter);
0.9 - 1 m	Red (2.5YR4/8-Moist); ; Sandy light clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);
1 - 1.1 m	Red (2.5YR4/8-Moist); ; Sandy light clay; Strong grade of structure, 2-5 mm, Angular blocky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);

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1.1 - 1.2 m	Red (2.5YR4/8-Moist); ; Sandy light clay; Strong grade of structure, 2-5 mm, Angular blocky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
1.2 - 1.3 m	; Light medium clay; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
1.3 - 1.4 m	; Light medium clay; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
1.4 - 1.5 m	; Light medium clay; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
1.5 - 1.6 m	; Light medium clay; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 8.6 (pH meter);
1.6 - 1.7 m	; Light medium clay; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 8.7 (pH meter);
1.7 - 1.8 m	; Light medium clay; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 8.7 (pH meter);
1.8 - 1.9 m	; Light medium clay; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 8.7 (pH meter);
1.9 - 2 m	; Sandy clay loam; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

AEOLIAN SANDS & PARNA :BURNT SOIL & CHARCOAL REMAINS TO 60CM

Site Notes

GRIFFITH

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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 - 0.1	8.4A	0.15A	9.9K	1.5	1.7	0.09	2.8B	16G	16B	0.56
0.1 - 0.2	8.7A	0.12A	9.3K	2	1.7	0.12	3.2B	16.3G	16.3B	0.74
0.2 - 0.3	8.8A	0.12A	7.3K	3.2	1.5	0.12	3.7B	15.8G	15.8B	0.76
0.3 - 0.4	8.8A	0.11A	5.2K	4.3	1.2	0.32	2.5B	13.5G	13.5B	2.37
0.4 - 0.5	9.2A	0.12A	6.4K	8.4	1.7	1.7	4.7B	22.9G	22.9B	7.42
0.5 - 0.6	9.3A	0.14A	7.3K	11.7	2.2	3.8	6.2B	31.2G	31.2B	12.18
0.6 - 0.7	9.4A	0.24A	6.8K	12.5	2.2	4.7	5B	31.2G	31.2B	15.06
0.7 - 0.8	9.4A	0.32A	6.2K	11.8	2	4.8	5.2B	30G	30B	16.00
0.8 - 0.9	9.4A	0.42A	5.5K	11.2	1.7	4.3	3.2B	25.9G	25.9B	16.60
0.9 - 1	8.8A	1.05A	5.3K	11.6	1.8	4	0.8B	23.5G	23.5B	17.02
1 - 1.1	8.7A	1.29A								
1.1 - 1.2	8.6A	1.44A								
1.2 - 1.3	8.6A	1.51A	4.9K	10.5	1.4	2	0B		18.6B	
1.3 - 1.4	8.7A	1.57A								
1.4 - 1.5	8.6A	1.64A								
1.5 - 1.6	8.6A	1.7A	4K	11.7	1.3	2.1	0B		18.6B	
1.6 - 1.7	8.7A	1.7A								
1.7 - 1.8	8.7A	1.76A								
1.8 - 1.9	8.7A	1.69A								
1.9 - 2	8.6A	1.56A	2.1K	9.5	1.1	1.8	0.4B		14.9B	

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 - 0.1	0.73A	0.93D						0	35D	35	8	19
0.1 - 0.2	1.11A	0.65D						0	32D	36	9	21
0.2 - 0.3	0.48A	0.35D						0	28D	40	6	24
0.3 - 0.4	0.19A	0.22D						0	31D	39	8	22
0.4 - 0.5	0.12A	0.17D						0	27D	27	16	29
0.5 - 0.6	0.16A	0.2D						0	18D	26	20	34
0.6 - 0.7	1.28A	0.11D						2	11D	28	26	33
0.7 - 0.8	4.46A	0.09D						6	7D	31	15	41
0.8 - 0.9	8.11A	0.08D						9	6D	33	7	44
0.9 - 1	4.96A	0.08D						5	3D	41	6	43
1 - 1.1												
1.1 - 1.2												
1.2 - 1.3	29.2A							7	6D	27	5	33
1.3 - 1.4												
1.4 - 1.5												
1.5 - 1.6	24.8A							9	6D	31	5	35
1.6 - 1.7												
1.7 - 1.8												
1.8 - 1.9												
1.9 - 2	1.13A							1	37D	32	4	26

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 - 0.1										

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0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1
1 - 1.1
1.1 - 1.2
1.2 - 1.3
1.3 - 1.4
1.4 - 1.5
1.5 - 1.6
1.6 - 1.7
1.7 - 1.8
1.8 - 1.9
1.9 - 2

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Laboratory Analyses Completed for this profile

15_HSK_CEC	CEC - meq per 100g of soil - HOSK
15_NR_CA	Exch. basic cations (Ca++) - 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
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
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
P10_GRAV	Gravel (%)
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