

Project Name: CAN **Site ID:** C618 **Observation ID:** 1
Project Code: CAN **Agency Name:** CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J.R. Sleeman	Locality:	12KM east of Jerilderie on Oaklands Road:100M east of road
Date Desc.:	13/07/66	Elevation:	120 metres
Map Ref.:	Sheet No. : 8027 1:100000	Rainfall:	410
Northing/Long.:	145.85	Runoff:	Very slow
Easting/Lat.:	-30.4166666666667	Drainage:	Imperfectly drained

Geology

Exposure Type:	Soil pit	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%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

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

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Self-Mulching Grey Vertosol		Principal Profile Form:	Ug5.16
ASC Confidence:		Great Soil Group:	Brown clay

All necessary analytical data are available.

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

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

Tall Strata - Tree, , Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.02 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Medium heavy clay; Firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8 (pH meter);
0.02 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.3 (pH meter);
0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
0.2 - 0.3 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Strong consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.3 - 0.6 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very strong consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9 (pH meter);
0.6 - 0.9 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very strong consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);
0.9 - 1.2 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Very strong consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);
1.2 - 1.3 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Weak grade of structure, 100-200 mm, Angular blocky; Very strong consistence; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);
1.3 - 1.5 m	Dark greyish brown (2.5Y4/2-Moist); , 2.5Y53, 2-10% ; , 2-10% ; Heavy clay; Weak grade of structure, 100-200 mm, Angular blocky; Very strong consistence; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);

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1.5 - 1.65 m Dark greyish brown (2.5Y4/2-Moist); , 2.5Y53, 2-10% ; , 2-10% ; Heavy clay; Weak grade of structure, 100-200 mm, Angular blocky; Very strong consistence; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);

Morphological Notes

Observation Notes

QUATERNARY ALLUVIUM:THIS IS PROFILE C618A SAMPLED FROM PUFF NEAR SITE

Site Notes

JERILDIE

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
			Ca	Mg	K					
0 - 0.08	6.4A	0.06A	9.5K	5	1.6	0.27		16.9J		1.60
0.08 - 0.3	7A	0.03A	11.5K	6.5	1	0.77		20.1J		3.83
0.3 - 0.4	7.3A	0.06A	11.8K	6.8	0.65	1.2		19.7J		6.09
0.4 - 0.6	7.7A	0.06A	12K	7.1	0.61	1.6		21.8J		7.34
0.6 - 0.7	8.7A	0.21A	17.7K	10	0.7	1.3				
0.7 - 0.9	9A	0.24A	27K	12.2	0.87	2.1				
0.9 - 1.2	9.2A	0.36A	21.1K	12.3	0.98	3.4				
1.2 - 1.3	9.2A	0.097A	21.3K	12.8	0.97	2				
1.3 - 1.5	9.1A	0.6A	25.9K	14.2	1	2.2				
1.5 - 1.65	9.1A	0.804A	18.8K	13.3	1.1	2.2				

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
								GV	CS		Silt	Clay
0 - 0.08		1.05F	4A		0.095B				12D	35	11	40
0.08 - 0.3		0.49F	2A		0.051B				15D	31	10	44
0.3 - 0.4		0.43F	2A		0.047B				15D	31	9	43
0.4 - 0.6		0.4F	2A		0.041B				16D	30	12	44
0.6 - 0.7	0.77A	0.32F	1A		0.033B				14D	30	8	44
0.7 - 0.9	2.5A	0.25F	1A		0.027B				12D	30	7	48
0.9 - 1.2	3.2A	0.22F	1A		0.026B				9D	27	9	51
1.2 - 1.3	3.5A	0.18F	1A		0.023B				7D	26	8	54
1.3 - 1.5	3.1A	0.16F	1A		0.024B				4D	26	10	56
1.5 - 1.65	2.7A	0.12F	2A		0.022B				4D	25	9	57

Depth m	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar g/g -	0.1 Bar m3/m3	0.5 Bar	1 Bar	5 Bar		

0 - 0.08
0.08 - 0.3
0.3 - 0.4
0.4 - 0.6
0.6 - 0.7
0.7 - 0.9
0.9 - 1.2
1.2 - 1.3
1.3 - 1.5
1.5 - 1.65

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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_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
2_LOI	Loss on Ignition (%)
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
6_DC	Organic carbon (%) - Dry combustion
7_NR	Total nitrogen (%) - Not recorded
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ 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