

Project Name: CAN
Project Code: CAN **Site ID:** CP157 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	Locality:	South side of erosion gully Nowra Creek:
Date Desc.:	01/01/79	Elevation:	53 metres
Map Ref.:	Sheet No. : 9028 1:100000	Rainfall:	1150
Northing/Long.:	150.594444444445	Runoff:	Very slow
Easting/Lat.:	-34.9333333333334	Drainage:	No Data

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	Gently inclined
Slope:	1 %	Aspect:	125 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mesotrophic Subnatic Grey Sodosol	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Dy5.41
		Great Soil Group:	Yellow podzolic soil

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded
Mid Strata - Heath shrub, , . *Species includes - None recorded

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, , Gravel

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy loam; Moderate grade of structure, Granular; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 5.8 (pH meter); Clear change to -
A2	0.05 - 0.17 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); ; Fine sandy loam; Moderate grade of structure, Granular; Very firm consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 5.8 (pH meter); Clear change to -
B2	0.17 - 0.3 m	Brown (10YR5/3-Moist); , 10YR63, 2-10% , Faint; , 2-10% , Faint; Light clay; Moderate grade of structure, Granular; Very strong consistence; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), ; Field pH 5.7 (pH meter); Gradual change to -
	0.3 - 0.4 m	Greyish brown (10YR5/2-Moist); , 10YR63, 2-10% , Faint; , 2-10% , Faint; Heavy clay; Moderate grade of structure, Granular; Very strong consistence; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), ; Gradual change to -
	0.4 - 0.6 m	Greyish brown (10YR5/2-Moist); , 10YR63, 2-10% , Faint; , 2-10% , Faint; Heavy clay; Weak grade of structure, Angular blocky; Very strong consistence; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), ; Field pH 5.3 (pH meter); Diffuse change to -
	0.6 - 0.8 m	Greyish brown (10YR5/2-Moist); , 10YR63, 2-10% , Distinct; , 2-10% , Distinct; Heavy clay; Weak grade of structure, Angular blocky; Very strong consistence; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), ;
	0.8 - 1 m	Greyish brown (10YR5/2-Moist); , 10YR63, 2-10% , Distinct; , 2-10% , Distinct; Heavy clay; Weak grade of structure, Angular blocky; Very strong consistence;
C	1.2 - 1.4 m	Greyish brown (10YR5/2-Moist); , 10YR63, 2-10% , Faint; , 2-10% , Faint; Heavy clay; Weak grade of structure, Angular blocky; Very strong consistence; Field pH 6.1 (pH meter);

Morphological Notes

Observation Notes

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NOWRA HILL

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations		Exchangeable		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.05	5.8A	0.03A	1.5K	1.1	0.57	0.24	12.9B	16.3J	1.47
0.05 - 0.17	5.8A	0.02A	0.7K	0.66	0.39	0.1	11.3B	13.2J	0.76
0.17 - 0.3	5.7A	0.03A	0.56K	2.2	0.31	0.46	12.2B	15.8J	2.91
0.4 - 0.6	5.3A	0.06A	0.26K	3.4	0.26	1.1	18.2B	23.3J	4.72
1.2 - 1.4	5.1A	0.17A	0K	4.8	0.19	2.4	15.2B	22.6J	10.62

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		2.03D						20	17D	34	15	13
0.05 - 0.17		0.92D						27	18D	31	13	11
0.17 - 0.3		0.49D						11	15D	34	13	28
0.4 - 0.6		0.3D						6	7D	28	12	47
1.2 - 1.4		0.3D							2D	35	22	41

[illegible]

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Laboratory Analyses Completed for this profile

13_C_FE	Extractable Fe(%) - Method recorded as C
13A1_AL	Oxalate-extractable aluminium
13A1_FE	Oxalate-extractable iron
13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
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