NC **Project Name:**

Project Code: NC Site ID: C451 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

Site Information

P.H. Walker Locality: Bellgrave Falls Road:next hill north of C450

Desc. By: Date Desc.: Elevation: 40 metres 02/12/60 Sheet No.: 9435 Map Ref.: 1:100000 Rainfall: 1200 Northing/Long.: Runoff: Slow 152.75

Easting/Lat.: -31.0916666666667 Drainage: Imperfectly drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Porous, Unconsolidated material No Data

(unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10% Terrace (alluvial) Pattern Type:

Morph. Type: Crest Relief: No Data Elem. Type: Hillcrest Slope Category: Level Aspect: No Data Slope: 2 %

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Melacic Magnesic Red Chromosol **Principal Profile Form:** Gn3.14

ASC Confidence: Great Soil Group: Red podzolic soil

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, , Closed or dense. *Species includes - Eucalyptus agglomerata, Unknown species,

Angophora

Surface Coarse Fragments:

Duefile Manulagian

<u>Profil</u>	<u>e Morphology</u>	
A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam, fine sandy; Massive grade of structure; Moist; Weak consistence; Field pH 5.4 (pH meter);
A2	0.1 - 0.33 m	Very dark greyish brown (10YR3/2-Moist); , 5YR56, 20-50%; , 20-50%; Clay loam, fine sandy; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 5.7 (pH meter);
B11	0.33 - 0.46 m	Yellowish red (5YR5/6-Moist); , 7.5YR42, 10-20%; , 10-20%; Light clay; Massive grade of structure; Moist; Weak consistence; Field pH 6 (pH meter);
B12	0.46 - 0.91 m	Dark red (2.5YR3/6-Moist); , 2.5Y54, 10-20%; , 10-20%; Light clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter);
B2	0.91 - 1.68 m	Red (2.5YR4/6-Moist); , 10YR56, 20-50%; , 20-50%; Medium clay (Heavy); Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Field pH 5.5 (pH meter);
ВС	1.68 - 2.03 m	Dark red (10R3/6-Moist); , 5YR46, 20-50%; , 10YR56, 20-50%; Medium clay (Heavy); Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.8 (pH meter);
С	2.74 - 2.9 m	Red (10R5/6-Moist); , 5Y81, 20-50%; , 10YR68, 20-50%; Sandy light clay; Massive grade of structure; Moderately moist; Strong consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct;
С	3.35 - 3.45 m	Red (10R5/6-Moist); , 5Y81, 20-50%; , 10YR68, 20-50%; Sandy light clay; Massive grade of structure; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct;
С	3.84 - 3.96 m	Red (10R5/6-Moist); , 5Y81, 20-50%; , 10YR68, 20-50%; Sandy light clay (Heavy); Massive grade of structure; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct;

Morphological Notes

Observation Notes

ALLUVIUM:K5 TERRACE SOIL:WORM FILL TO 90CM:

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Site Notes KEMPSEY

Project Name: Project Code: Agency Name: NC

NC Site ID: C451 CSIRO Division of Soils (NSW) Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	E: Na	xchangeable Acidity	CEC		ECEC		ESP
m		dS/m	,	9		Cmol (+)/						%
0 - 0.1 0.1 - 0.33	5.4A 5.7A	0.033A 0.024A	0.51K	1.2	0.27	0.16		9.7	J			1.65
0.1 - 0.33 0.33 - 0.46 0.46 - 0.91 0.91 - 1.68 1.68 - 2.03	6A 6A 5.5A 5.8A	0.024A 0.021A 0.03A 0.042A 0.027A	0.2K	2.4	0.18	0.34		8.4.	J		4	4.05
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size .	Analysi: Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	٠.	00	%	O.I.	Olay
0 - 0.1 0.1 - 0.33		2.7F			0.11	6B			8D 10D	52 50	-	
0.33 - 0.46 0.46 - 0.91 0.91 - 1.68 1.68 - 2.03		0.79F			0.04	·8B			6D	38	_	

Depth	COLE	Gravimetric/Volumetric Water Contents								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 0.1 - 0.33 0.33 - 0.46 0.46 - 0.91 0.91 - 1.68 1.68 - 2.03

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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_KExch. basic cations (K++) - meq per 100g of soil - Not recorded15_NR_MGExch. basic cations (Mg++) - meq per 100g of soil - Not recorded15_NR_NAExch. basic cations (Na++) - meq per 100g of soil - Not recorded

2_LOI
2A1
Air-dry moisture content
3A1
EC of 1:5 soil/water extract
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
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