GH **Project Name:** 

**Project Code:** Site ID: **CP29** Observation ID: 1 GH

**Agency Name: CSIRO Division of Soils (NSW)** 

**Site Information** 

Desc. By: Date Desc.: Locality: J. Loveday

Elevation: 28/11/68 250 metres Sheet No.: 8837 Map Ref.: 1:100000 Rainfall: 660 Northing/Long.: 149.7 Runoff: Very slow

Easting/Lat.: -30.18333333333333 Drainage: Imperfectly drained

**Geology** 

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

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

(unidentified)

**Land Form** 

Rel/Slope Class: Level plain <9m <1% Pattern Type: Alluvial plain Morph. Type: Elem. Type: No Data Flat Relief: Plain Slope Category: Level <1 % Aspect: 0 degrees Slope:

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

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A Ug5.28 Epihypersodic Self-Mulching Grey Vertosol **Principal Profile Form: ASC Confidence: Great Soil Group:** Grey clay

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated **Vegetation:** Low Strata - Sod grass, , . \*Species includes - None recorded

Mid Strata - Forb, , Isolated plants. \*Species includes - None recorded

## **Surface Coarse Fragments:**

## **Profile Morphology**

_	mor priorogy	
	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Field pH 7.3 (pH meter); Diffuse change to -
	0.1 - 0.2 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Coarse, (10 - 20) mm crack; Very firm consistence;
	0.2 - 0.3 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Coarse, (10 - 20) mm crack; Very firm consistence; Field pH 7.8 (pH meter);
	0.3 - 0.4 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Medium, (5 - 10) mm crack; Very firm consistence; Field pH 8.5 (pH meter);
	0.4 - 0.5 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Medium, (5 - 10) mm crack; Very firm consistence; Field pH 8.3 (pH meter);
	0.5 - 0.6 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Fine, (0 - 5) mm crack; Very firm consistence;
	0.6 - 0.7 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Fine, (0 - 5) mm crack; Very firm consistence; Field pH 8.2 (pH meter);
	0.7 - 0.8 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence;
	0.8 - 0.9 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Very firm consistence; Field pH 8.4 (pH meter);
	0.9 - 1 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR42; Medium heavy clay; Very firm consistence;

## **Morphological Notes**

**Observation Notes** 

ALLUVIUM HELLEBAH CLAY

**Site Notes** 

**NARRABI** 

Project Name: GH
Project Code: GH Site ID: CP29
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Depth	pH	1:5 EC		hangeable			xchangeable	CEC		ECEC		ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)	Acidity /kg					%
0 - 0.1	7.3A	0.13A	28K	12.3	1.9	0.01	2.7D	45.3				0.02
	6.5A	0.27A	24.6K	12	2.3	0		41.6J				0.00
0 - 0.1	7.3A	0.13A	28K	12.3	1.9	0.01	2.7D	45.3				0.02
0000	6.5A	0.27A	24.6K	12	2.3	0		41.6J				0.00
0.2 - 0.3	7.8A	0.19A	30.2K	13.1	1.2	1.9 3		47.7	J			3.98
0.3 - 0.4 0.4 - 0.5	8.5A	0.24A	27K	14	1.4	3		45J			,	5.67
	8.3A 8.2A	0.26A 0.29A										
0.6 - 0.7 0.8 - 0.9	8.4A	0.29A 0.35A										
0.6 - 0.9	0.4A	U.33A										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Da	rticle	C:	Analysi	_
Берш	CaCOS	C	Avaii. P	P	N	K	Density	GV	CS	FS	Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	٠.	00	%	Oiit	Olay
							J					
0 - 0.1	0A	1.21D	31A						13D	14	14	57
		1.3D	32.6A						14D	14	11	60
0 - 0.1	0A	1.21D	31A						13D	14	. 14	57
		1.3D	32.6A						14D	14	11	60
0.2 - 0.3	0A		11A									
0.3 - 0.4	0.33A	١										
0.4 - 0.5			15A									
0.6 - 0.7			24A									
0.8 - 0.9			29A									
Danish	0015		0	-i 4i - 0./ -		V-4 0			<b>.</b>		<b>V</b>	
Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents  0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar						K sa		at K unsat	
m		Jai.	0.03 Bai		g - m3/m		3 Dai 13	Dai	mm/	h	mm/h	
0 - 0.1												
0 - 0.1												
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