

**Project Name:** GH  
**Project Code:** GH                      **Site ID:** CP6                      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	Ben. Exp. 1 N.E. of C.P.3
<b>Date Desc.:</b>	02/10/68	<b>Elevation:</b>	120 metres
<b>Map Ref.:</b>	Sheet No. : 8029    1:100000	<b>Rainfall:</b>	400
<b>Northing/Long.:</b>	145.866666666667	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-34.383333333333	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Slightly porous, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	<1 %	<b>Aspect:</b>	225 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol	<b>Principal Profile Form:</b>	Ug5.28

**ASC Confidence:**

All necessary analytical data are available.

**Great Soil Group:**

Grey clay

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:**            Low Strata - Sod grass, , . \*Species includes - None recorded

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Massive grade of structure; Coarse, (10 - 20) mm crack; Weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.7 (pH meter); Diffuse change to -
0.1 - 0.2 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.2 - 0.3 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
0.3 - 0.4 m	Dark greyish brown (2.5Y4/2-Moist); , 2.5Y52; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.4 - 0.5 m	Dark greyish brown (2.5Y4/2-Moist); , 2.5Y52; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.5 - 0.6 m	Dark greyish brown (2.5Y4/2-Moist); , 2.5Y52; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.6 - 0.7 m	Dark greyish brown (2.5Y4/2-Moist); , 2.5Y52; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.7 - 0.8 m	Greyish brown (2.5Y5/3-Moist); ; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.8 - 0.9 m	Greyish brown (2.5Y5/3-Moist); ; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
0.9 - 1 m	Greyish brown (2.5Y5/3-Moist); ; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;

**Morphological Notes**

**Observation Notes**

ALLUVIUM

**Site Notes**

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BEHEREMBAH

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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 - 0.1	7.7A	0.13A	18.3K	10.5	1.7	1.5	2.6D	36.9J		4.07
	7.7A	0.15A	16.6K	12.1	1.8	1.5		34.6J		4.34
0 - 0.1	7.7A	0.13A	18.3K	10.5	1.7	1.5	2.6D	36.9J		4.07
	7.7A	0.15A	16.6K	12.1	1.8	1.5		34.6J		4.34
0.2 - 0.3	8.5A	0.16A	19.5K	10.9	0.88	3.4		35.9J		9.47
0.4 - 0.5	8.7A	0.24A								
0.6 - 0.7	8.7A	0.42A								
0.8 - 0.9	8.6A	0.57A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density	Particle		Size	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS		FS %	Silt
m	%	%	mg/kg	%	%	%	Mg/m3					
0 - 0.1	0.07A	1.45D	6A						3D	23	12	60
		0.98D	7A					5D	23	10	62	
0 - 0.1	0.07A	1.45D	6A						3D	23	12	60
		0.98D	7A					5D	23	10	62	
0.2 - 0.3	0.46A		2A									
0.4 - 0.5			1A									
0.6 - 0.7			1A									
0.8 - 0.9			1A									

[illegible]

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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 - 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
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
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO <sub>3</sub> 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