**Project Name:** BB

**Project Code:** Site ID: B351 Observation ID: 1 BB

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

**Site Information** 

G.G. Beckmann Locality:

Desc. By: Date Desc.: Elevation: 27/05/58 15 metres Map Ref.: Sheet No.: 9542 1:100000 Rainfall: 1194 Northing/Long.: 153.146666666667 Runoff: Very slow -27.7366666666667 Easting/Lat.: Drainage: Poorly drained

Geology

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

**Substrate Material:** Geol. Ref.: Auger boring, 1.4 m deep, Clay Pzn

**Land Form** 

Rel/Slope Class: No Data Pattern Type: Terrace (alluvial) Morph. Type: Elem. Type: No Data Relief: 12 metres No Data **Slope Category:** No Data No Data 0 % Aspect: Slope:

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification:** N/A **Mapping Unit:** Episodic-Epiacidic Massive Grey Vertosol Principal Profile Form: Dv3.11 **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 - Sedge, , . \*Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.3 (pH meter); Many, very fine (0-1mm) roots; Abrupt change to -
B1	0.05 - 0.15 m	Dark grey (10YR4/1-Moist); , 10YR42; , 2.5Y44; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.5 (pH meter); Few, very fine (0-1mm)
B21	0.15 - 0.35 m	Dark grey (10YR4/1-Moist); , 10YR42; , 2.5Y44; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.4 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.35 - 0.45 m	Dark grey (10YR4/1-Moist); , 2.5Y53; , 10YR58; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B23	0.45 - 0.75 m	Grey (10YR5/1-Moist); , 2.5Y53; , 10YR56; Heavy clay; Massive grade of structure; Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.4 (pH meter); Gradual change to -
B24	0.75 - 0.95 m	Grey (10YR5/1-Moist); , 2.5Y53; Heavy clay; Massive grade of structure; Moist; Very plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 4.9 (pH meter); Gradual change to -
ВС	0.95 - 1.35 m	Grey (10YR5/1-Moist); , 2.5Y52; , 2.5Y68; Heavy clay; Massive grade of structure; Moist; Very plastic; Field pH 4.6 (pH meter);
С	1.37 - 1.83 m	; Heavy clay;
С	1.83 - 2.54 m	; Heavy clay;
С	2.54 - 2.97 m	; Heavy clay;
С	2.97 - 3.51 m	; Heavy clay;

## **Morphological Notes**

Layer continues

Project Name: BB
Project Code: BB Site ID: B35
Agency Name: CSIRO Division of Soils (QLD) B351 Observation ID: 1

<u>Observation Notes</u> CLASSIFIED AS GREY CLAY - ACID VARIANT:

Site Notes LOGANLEA

Observation ID: 1

Project Name: BB
Project Code: BB Site ID: B351
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:												
Depth	рН	1:5 EC	Exe Ca	changeable Mg	Cations K	Na E	Exchangeable Acidity	e CEC		ECEC	:	ESP
m	dS/m			9		Cmol (+)/kg						%
0 005	5 211	0.040										
0 - 0.05	5.3H	0.01C	0.014		0.40	0.05		00.5				0 77
0.05 - 0.15	5.5H	0.01C	0.9K	3	0.18	0.65		23.5				2.77
0.15 - 0.35	5.4H	0.01C	0.36K	4.7	0.06	1.1		23.4	IJ			4.70
0.35 - 0.45	5.5H	0.01C	0.0514		0.04	4.0		0.4				0.07
0.45 - 0.75	5.4H	0.02C	0.05K	4.7	0.04	1.6		24	J			6.67
0.75 - 0.95	4.9H	0.06C	0.0514		0.04	- 0		45.0				0.04
0.95 - 1.35	4.6H	0.14C	0.05K	14.1	0.24	5.8		45.9	J		1	2.64
1.37 - 1.83	4.7H	0.19C										
1.83 - 2.54	4.6H	0.24C										
2.54 - 2.97	4.5H	0.32C										
2.97 - 3.51	4.6H	0.35C										
Danish	0-000	0	A !!	Total	Total	Total	Bulk	ъ.	4!_1_	0:	A!!	_
Depth	CaCO3	Organic C	Avail. P	P	N	K	Density		article CS	FS	Analysi	s Clay
m	%	%	mg/kg		%	%	Mg/m3	GV	CS	гэ %	Siit	Clay
•••	70	70	9,9	,,,	,,	70	g/o			70		
0 - 0.05		5.43E 4.26E	8C					1	2C	4	45	40
0.05 - 0.15		2.04E	4C	0.017F	0.1	3B			1C	4	50	41
0.15 - 0.35		0.7E							2C	4	47	51
0.35 - 0.45				0.009F								
0.45 - 0.75									2C	3	42	54
0.75 - 0.95												
0.95 - 1.35									1C	3	22	77
1.37 - 1.83												
1.83 - 2.54												
2.54 - 2.97												
2.97 - 3.51												
Depth	COLE	Sat.	Gra 0.05 Bar	vimetric/Vo 0.1 Bar	lumetric V 0.5 Bar	Vater Cont 1 Bar		15 Bar	Ks	at	K unsa	ıt
m		Jai.	0.03 Bai		g - m3/m		J Dai	15 Dai	mm	/h	mm/h	
0 - 0.05												
0.05 - 0.15												
0.15 - 0.35												
0.35 - 0.45												
0.45 - 0.75												
0.75 - 0.95												
0.95 - 1.35												
1.37 - 1.83												
1.83 - 2.54												
2.54 - 2.97												
2.97 - 3.51												

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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 Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

2A1 Air-dry moisture content

3A\_TSS Electrical conductivity or soluble salts - Total soluble salts %

4\_NR pH of soil - Not recorded

5\_NR Water soluble Chloride - Cl(%) - Not recordede

6Z Organic carbon (%) - Not recorded
7\_NR Total nitrogen (%) - Not recorded
9\_NR Available P (mg/kg) - Not recorded
9A\_NR Total element - P(%) - Not recorded

P10\_GRAV Gravel (%)

P10\_NR\_C
P10\_NR\_CS
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
P10\_NR\_FS
Fine sand (%) - Not recorded
P10\_NR\_Z
Silt (%) - Not recorded