**Project Name:** RR

**B307** Observation ID: 1 **Project Code:** BB Site ID:

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

Site Information

C.H. Thompson Desc. By: Locality:

Date Desc.: Elevation: 31/01/57 8 metres Map Ref.: Sheet No.: 9542 1:100000 Rainfall: 965 Northing/Long.: 153.005 Runoff: Slow

Poorly drained Easting/Lat.: -27.5675 Drainage:

Geology

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

Soil pit, 0.8 m deep, Unconsolidated material Geol. Ref.: **Substrate Material:** Τo

(unidentified)

**Land Form** 

Rel/Slope Class: Gently undulating plains <9m 1- Pattern Type: Plain

Morph. Type: No Data Relief: No Data Drainage depression Slope Category: Elem. Type: No Data Aspect: No Data Slope:

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A Endocalcareous-Endohypersodic Self-Mulching Grey **Principal Profile Form:** Uq5.28

Vertosol

**Great Soil Group:** Wiesenboden ASC Confidence:

All necessary analytical data are available.

Site Disturbance: Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation:

Tall Strata - , , . \*Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

A11 0 - 0.15 m Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Granular; Dry; Loose consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.9 (pH meter); Abundant, very fine (0-1mm) roots; Gradual change to -A12a 0.15 - 0.23 m Dark grey (2.5Y4/1-Moist); , 10YR31; , 5YR48; Medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.9 (pH meter); Abundant, very fine (0-1mm) roots; Gradual change to -Dark grey (2.5Y4/1-Moist); , 7.5YR44; , 5YR48; Medium clay; Weak grade of structure, 10-20 A13g 0.25 - 0.46 m mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.9 (pH meter); Many, very fine (0-1mm) roots; Diffuse change to -ACg 0.48 - 0.81 m Greyish brown (2.5Y5/3-Moist); , 2.5Y51; Medium clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 5-10 mm, Lenticular; Wet; Moderately plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.9 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -Cg

Greyish brown (2.5Y5/3-Moist); , 2.5Y51; , 2.5Y76; Medium clay; Strong grade of structure, 50-0.84 - 1.22 m 100 mm, Lenticular; Strong grade of structure, 5-10 mm, Lenticular; Wet; Moderately plastic;

Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Diffuse change to -

Grevish brown (2.5Y5/3-Moist); , 2.5Y51; , 2.5Y76; Heavy clay; Strong grade of structure, 50-Cg 1.22 - 1.83 m

100 mm, Lenticular; Wet; Moderately plastic; Very few (0 - 2 %), Calcareous, Coarse (6 - 20

mm), Nodules;

## **Morphological Notes**

## **Observation Notes**

A HANDBOOK OF AUSTRALIAN SOILS STACE ET AL 1968 P.148-149:

#### **Site Notes**

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Project Name: Project Code: Agency Name: ВВ

Site ID: B307 Observation ID: 1 BB

**CSIRO** Division of Soils (QLD)

# **Laboratory Test Results:**

Depth	рН	1:5 EC		nangeable ⁄lg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	E	SP
m		dS/m		9		Cmol (				9	<b>%</b>
0 - 0.15 0.15 - 0.23 0.25 - 0.46 0.48 - 0.81	5.9A 5.9A 5.9A 7.9A	0.51A 1.03A 1.86A 1.46A	12B 12B 7.5B 7B	19 19 20 31	0.18 0.15 0.06 0.06	0.42 0.3 0.4 6.1		23.9J 35.1J 41.6J 47.5J		0 0 12	.76 .85 .96 2.84
0.84 - 1.22 1.22 - 1.83	8.5A	1.59A	4.3B	38	0.06	6.6		49.4J		13	3.36
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	l Bulk Density	Particl GV CS		Analysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	0. 0.	%	O	Jiuy
0 - 0.15 0.15 - 0.23 0.25 - 0.46 0.48 - 0.81 0.84 - 1.22 1.22 - 1.83	0.7C	1.98A 1.74A		32F 32F 28F 24F 20F	0.1. 0.1:			3 5 2	6C 14 6C 14 6C 7 8C 5 C 4	_	41 49 63 71 78
Depth	COLE	Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar							( sat	K unsat	

g/g - m3/m3

mm/h

mm/h

0 - 0.15 0.15 - 0.23 0.25 - 0.46 0.48 - 0.81 0.84 - 1.22 1.22 - 1.83

m

**Project Name:** BB

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

# **Laboratory Analyses Completed for this profile**

15 NR CEC CEC - meq per 100g of soil - Not recorded

15A2\_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for

soluble salts

Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2\_K 15A2\_MG Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2\_NA Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts

Calcium Carbonate (CaCO3) - Not recorded 19B\_NR

Air-dry moisture content 2A1 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

Organic carbon - Walkley and Black 6A1 Total nitrogen (%) - Not recorded 7\_NR Total element - P(%) - Not recorded Clay (%) - Not recorded 9A\_NR

P10\_NR\_C

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