Project Name: RI

Observation ID: 1 **Project Code:** BL Site ID: **B331**

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: G.D. Hubble Locality:

Date Desc.: Elevation: 20/10/57 293 metres Map Ref.: Sheet No.: 8642 1:100000 Rainfall: 566

Northing/Long.: 148.75555555556 Runoff: Moderately rapid -27.6166666666667 Imperfectly drained Easting/Lat.: Drainage:

Geology

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

Substrate Material: Geol. Ref.: Soil pit, 1 m deep, Detrital sedimentary rock Qa

(unidentified)

Land Form

Pattern Type: Rel/Slope Class: Undulating rises 9-30m 3-10% Rises Morph. Type: No Data Relief: 15 metres Elem. Type: Slope Category: No Data Plain Aspect: No Data Slope: 1 75 %

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Epicalcareous Epipedal Black Vertosol **Principal Profile Form:** Ug5.13 **ASC Confidence:** Black earth **Great Soil Group:**

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Low Strata - Tussock grass, , . *Species includes - Dichanthium sericeum Vegetation:

Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Geijera parviflora

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus orgadophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.1 m Very dark grey (10YR3/1-Dry); ; Heavy clay; Strong grade of structure, Granular; Coarse, (10 -AB 20) mm crack; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.5 (pH meter); Clear change to -B21 0.1 - 0.51 m Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular

blocky; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter); Gradual change to -

B21 0.56 - 0.76 m Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm),

Nodules; Field pH 8.4 (pH meter); Gradual change to -

B22 0.81 - 0.96 m Dark reddish brown (5YR3/4-Moist); ; Heavy clay; Moderate grade of structure, Lenticular;

Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm),

Nodules; Field pH 8.3 (pH meter); Gradual change to -

Strong brown (7.5YR5/6-Moist); ; Clay loam, fine sandy; Massive grade of structure; Common C 1.02 - 1.17 m

(10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

0-10CM GRANULAR GRADING TO STRONG 10-20MM BLOCKY STRUCTURE:

Site Notes

WERINGA DOWNS

Project Name: BL
Project Code: BL Site ID: B33
Agency Name: CSIRO Division of Soils (QLD) Site ID: B331 Observation ID: 1

Laboratory Test Results:

Laboratory rest results.												
Depth	рН	1:5 EC		nangeable ⁄Ig	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m		9		Cmol (+					•	%
0 - 0.1	7.5H	0.03C	35.9K	12.4	1.6	0.99		52.6	ij		1	.88
0.1 - 0.51 0.56 - 0.76	8.4H 8.4H	0.04C 0.13C	36.4K	12.5	0.49	2.7		53.9	J		5	5.01
0.81 - 0.96 1.02 - 1.17	8.3H 8.8H	0.18C 0.13C										
Domath	0-002	Ormania	Avail	Total	Tatal	Tata	l Bulk	D		S: A	ماددادها	
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	I Bulk Density Mg/m3	GV	cS CS	Size A FS %	Silt	
							9					
0 - 0.1	0.14C	1.64E 1.24E	4C	0.021F	0.1	1B		1	6C	24	12	57
0.1 - 0.51	0.17C				0.0			1	4C		15	64
0.56 - 0.76	0.38C	0.67E		0.012F				2	4C	17	13	65
0.81 - 0.96	0.3C				0.03	3B		1	6C	21	13	61
1.02 - 1.17	10.9C	:		0.035F	•				15C	31	13	30
Depth	COLE	Gravimetric/Volumetric Water Contents							K s	at	K unsat	:

ер Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar g/g - m3/m3 5 Bar 15 Bar mm/h mm/h m

0 - 0.1 0.1 - 0.51 0.56 - 0.76 0.81 - 0.96 1.02 - 1.17

Project Name: BL

Project Code: BL Site ID: B331 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

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

19B_NR Calcium Carbonate (CaCO3) - 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_C
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
P10_NR_FS
P10_NR_Z
Fine sand (%) - Not recorded
Silt (%) - Not recorded