ΒV **Project Name:**

B448 Observation ID: 1 **Project Code:** ΒV Site ID:

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: G.D. Hubble Locality:

Date Desc.: Elevation: 05/05/61 183 metres Map Ref.: Sheet No.: 9343 1:100000 Rainfall: 960 Northing/Long.: 152.351111111111 Runoff: Slow

Imperfectly drained Easting/Lat.: -27.267777777778 Drainage:

Geology

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

Geol. Ref.: **Substrate Material:** Soil pit, 1.4 m deep, Unconsolidated material R-Jo

(unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: Low hills Morph. Type: No Data Relief: 2 metres Elem. Type: Slope Category: Gently inclined Plain No Data Slope: 0 % Aspect:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Magnesic Mottled-Subnatric Grey Sodosol **Principal Profile Form:** Dy3.41

ASC Confidence: Great Soil Group: Gleved podzolic

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated Vegetation: Low Strata - Tussock grass, . . *Species includes - Heteropogon contortus

Tall Strata - Tree. . Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

B2

1.17 - 1.37 m

0 - 0.13 m Light brownish grey (10YR6/2-Dry); ; Loamy fine sand; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Field pH 5.7 (pH meter); Many, medium (2-5mm) roots; Gradual change to -A21 0.13 - 0.43 m White (10YR8/2-Dry); ; Loamy fine sand; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 5.9 (pH meter); Many, medium (2-5mm) roots; Gradual change to -A22 0.43 - 0.58 m White (10YR8/2-Dry); Coarse sand; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Clear change to -Light yellowish brown (10YR6/4-Dry); , 10YR82; , 10YR53; Sandy loam; Moderate grade of В1 0.58 - 0.66 m structure, 50-100 mm, Columnar; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, , Concretions; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Clear change to -B2 0.66 - 0.84 m Light brownish grey (2.5Y6/2-Dry); , 10YR56, 10-20% , 15-30mm, Prominent; , 10YR43, 10-20% . 15-30mm, Prominent; Sandy medium clay; Strong grade of structure, 50-100 mm, Columnar; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, , Soft segregations; Field pH 6.5 (pH meter); Grey (10YR6/1-Dry); , 10YR56, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; B2 0.84 - 1.17 m Sandy medium clay; Massive grade of structure; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; Field pH 6.4 (pH meter); Diffuse change to -

> Grey (10YR5/1-Moist); , 10YR56, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Moderately moist; Strong consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations;

Field pH 6.2 (pH meter); Diffuse change to -

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Grey (10YR5/1-Moist); , 7.5YR57, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Light medium clay; Massive grade of structure; Moist; Firm consistence; 0-2%, rounded, Quartz, coarse fragments; Field pH 6.2 (pH meter); 1.37 - 2.08 m

Morphological Notes **Observation Notes Site Notes**

ESK

Project Name: BV
Project Code: BV Site ID: B44
Agency Name: CSIRO Division of Soils (QLD) B448 Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable ⁄lg	Cations K	E Na	xchangeable Acidity	CEC	E	CEC	E	SP
m		dS/m	Ga i	ng	ĸ	Cmol (+)/kg					%	•
0 - 0.13 0.13 - 0.43 0.43 - 0.58	5.7H 5.9H 6.3H 6.5H	0.01B 0.01B 0.01B	0.71K	0.05	0.05	0.01	0.56D					
0.58 - 0.66 0.66 - 0.84 0.84 - 1.17 1.17 - 1.37 1.37 - 2.08	6.5H 6.5H 6.4H 6.2H 6.2H	0.01B 0.01B 0.01B 0.01B 0.02B	1.21K	2.5	0.28	0.41	3.2D					
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pa GV	CS F	ize Ar FS %	nalysis Silt C	lay
III	70	70	mg/kg	70	70	70	wg/ms			70		
0 - 0.13 0.13 - 0.43 0.43 - 0.58 0.58 - 0.66		0.64A 0.11A 0.04A	1C	0.012F	0.05			1 62	40C 43C 61C	36 33 17	18 18 14	6 6 8
0.58 - 0.66 0.66 - 0.84 0.84 - 1.17 1.17 - 1.37 1.37 - 2.08		0.01A	1C	0.018F	0.00	06B		10 8	46C 49C	18 10	10 6	26 26
Depth	COLE	DLE Gravimetric/Volumetric Water Contents K sat K unsat Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar										
m		34			g - m3/m				mm/h		mm/h	

0 - 0.13 0.13 - 0.43 0.43 - 0.58

0.58 - 0.66 0.66 - 0.84

0.84 - 1.17 1.17 - 1.37 1.37 - 2.08

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Laboratory Analyses Completed for this profile

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded 15_NR_CA

15_NR_H

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 Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15 NR MG 15_NR_NA

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4_NR

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

Organic carbon - Walkley and Black 6A1 7_NR 9_NR Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 9A_NR

P10_GRAV Gravel (%)

P10_NR_C Clay (%) - Not recorded Coarse sand (%) - Not recorded P10_NR_CS Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded