DD **Project Name:**

Observation ID: 1 **Project Code:** DD Site ID: **B248**

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

Site Information

Desc. By: G.D. Hubble Locality:

Date Desc.: Elevation: 11/10/54 No Data Sheet No.: 9142 1:100000 Map Ref.: Rainfall: 660 Northing/Long.: 151.14972222222 Runoff: Slow

Imperfectly drained Easting/Lat.: -27.505 Drainage:

Geology

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

Soil pit, 0.79 m deep, Porous, Geol. Ref.: **Substrate Material:** Qs

Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: Alluvial plain Morph. Type: No Data Relief: No Data Elem. Type: Slope Category: No Data Plain No Data Slope: 0 % Aspect:

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Hypocalcic Mesonatric Grey Sodosol **Principal Profile Form:** Dy3.43 Solodized **ASC Confidence: Great Soil Group:** solonetz All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

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

Tall Strata - Tree, 6.01-12m, Mid-dense, *Species includes - Eucalyptus populnea

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam; , Platy; Few (<1 per 100mm2) Very 0 - 0.04 m fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 6.4 (pH meter); Common, very fine (0-1mm) roots: Clear change to -Greyish brown (10YR5/2-Moist); White (10YR8/2-Dry); ; Fine sandy loam; Massive grade of Α2 0.04 - 0.1 m structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.2 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -B21 0.1 - 0.25 m Dark greyish brown (10YR4/2-Moist); , 10YR31; , 7.5YR56; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Strong grade of structure, 50-100 mm, Columnar; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.2 (pH meter); Gradual change to -B22 0.25 - 0.46 m Dark greyish brown (10YR4/2-Moist); , 10YR31; Sandy medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 50-100 mm, Prismatic; Moderately moist; Very

firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.1 (pH

meter); Gradual change to -

В3 0.46 - 0.74 m Brown (10YR5/3-Moist); ; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular

blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH

meter); Diffuse change to -

С 0.79 - 1.07 m Strong brown (7.5YR5/8-Moist); , 10YR31; Sandy medium clay; Weak grade of structure, 20-50

mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.9 (pH

meter):

Morphological Notes

Observation Notes

Site Notes

DARLING DOWNS

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Laboratory Test Results:

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рН	1:5 EC						CEC	E	CEC		ESP
	dS/m		9								%
6.4H	0.02B										
-		2 2K	6.2	0.1	2	E 3D					
8.1H	0.04B 0.14B	3.31	0.5	0.1	3	3.30					
9.2H	0.26B	1.2K	8.2	80.0	5.6						
8.9H	0.22B										
CaCO3	Organic	Avail.	Total	Total	Total	Bulk					
%		-	-				GV		-	Silt	Clay
70	70	9/1.9	70	,,	70	iii griii o			70		
	2.05A	36C	0.042F	0.14	4B	1.50		20C	53	7	16
	0.52A	13C						19C	59	8	11
00	-					1.60				_	31 29
			0.012F			1.60	0.3	11C	55	5	28
0C	0.04A							17C	51	5	27
COLE	C-4						Da.	K sat	I	K unsa	ıt
	Sat.	0.05 Bar				3 Bar 13	Dar	mm/h		mm/h	
			0.28C			0.	09C				
			0.21C								
			0.35C			0.	22C				
			0.42C			0	.2C				
	6.4H 6.2H 6.2H 8.1H 9.2H 8.9H CaCO3 %	CaCO3 Organic C % CaCO3 Organic C % CaCO3 Organic C % CaCO4 O.26A 0.28C 0.08A 0C 0.04A	pH 1:5 EC dS/m Excl Ca I dS/m 6.4H 0.02B 6.2H 0.01B 6.2H 6.2H 0.04B 3.3K 8.1H 0.14B 9.2H 0.26B 1.2K 8.9H 0.22B 1.2K CaCO3 Organic C P mg/kg % % 36C 0.52A 13C 0.52A 0.41A 0.28C 0.08A 0.26A 0.08A 0C 0.04A COLE Grav	pH 1:5 EC dS/m Ca Exchangeable Mg dS/m Ca Mg 6.4H 0.02B 6.2H 0.01B 6.2H 6.2H 0.04B 3.3K 6.3 8.1H 0.14B 9.2H 0.26B 1.2K 8.2 8.9H 0.22B Avail. P P mg/kg Total P P mg/kg % % 36C 0.042F 13C 0.042F 13C 0.52A 0.41A 0C 0.26A 0.24C 0.08A 0C 0.04A 0.012F 0.01E 0.012F 0.05 Bar 0.1 Bar g/g COLE Sat. Gravimetric/Vol 0.05 Bar 0.1 Bar g/g 0.28C 0.21C 0.35C 0.21C 0.35C	PH	PH	PH	PH	PH	PH	PH

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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_H Hydrogen Cation - meq per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meg 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

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2_LOI Loss on Ignition (%)
2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

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

6A1 Organic carbon - Walkley and Black
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 Clay (%) - Not recorded

P10_NR_CS
P10_NR_FS
P10_NR_FS
P10_NR_Z
P3A_NR
Coarse sand (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
Bulk density - Not recorded

P3B_VL_01
P3B_VL_15
0.1 BAR Moisture m3/m3 - Volumetric using suction plate
15 BAR Moisture m3/m3 - Volumetric using pressure plate